z/OS

JES2 Data Areas
Volume 2

GA32-0998-00

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Note

Before using this information and the product it supports, be sure to read the general information under “Notices” on page 347.

First Edition, September, 2013

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

Contents

About this information

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

- Programming interfaces
- Needed for debugging or diagnosis.

This information supports z/OS (5650-ZOS).

Who should use this information

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

How to use this information

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

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

The header

The header includes some or all of the following:

Common Name: The descriptive name of the data area.

Macro ID: The name of the mapping macro for the data area. Mapping macros can be issued in programs to generate a copy of the data area.

DSECT Name: Name of the DSECT (dummy control section) created by the mapping macro.

Owning Component: Component name and component identifier in parentheses.

Eye-Catcher ID: Character string identifier of the eye-catcher (sometimes called the **control block id**) within the mapping macro. The offset and length of the eye-catcher are also included.

Storage Attributes: The storage attributes of the data area, including the following:

- **Main Storage:** Central storage attributes of the data area.
- **Virtual Storage:** Virtual storage attributes of the data area.
- **Auxiliary Storage:** Spool storage attributes of the data area.
- **Subpool and Key:** Subpool is the area of virtual storage that contains the data area. Key is the storage protect key for the storage represented by the data area.

Size: The size of the data area in decimal bytes.

Created by: Module, macro, or component whose use creates the data area.

Pointed to by: Registers or data area fields that contain the address of the data area.

Serialization: Method used to ensure that one user does not update a data area that is being updated or used by another user. The most common methods used for serialization are:

- Lock or locks
- ENQ and DEQ macros
- Compare and Swap (CS) instruction

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

Function: Brief description of the use of the data area.

Data area map

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

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

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

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

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

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

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

Len Size of the field in decimal bytes.

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

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

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

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

Cross reference

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

Name The name of the field, bit, or mask.

Hex Offset The hexadecimal offset of the field into the data area. For bits, the hexadecimal offset of the field containing the bit.

Hex Value Values are shown only for bits, equates, and initialized character strings. For bits, the hexadecimal value shown implies the position of the bit in the field containing the bit.

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

Name	Hex Offset	Hex Value
ANYBIT	F0	80

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

```
240    (F0)  FIXED      4   ANYWORD     CONTROL WORD
240    (F0)  BITSTRING  1   ANYBYTE     FLAG BYTE

             1... ....      ANYBIT      "X'80'" BIT ON MEANS THIS . . .
```

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

Programming interface information

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

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

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

Programming Interface information

End of Programming Interface information

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

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

- MACRO ID
- DSECT NAME
- commonly-used name

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

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

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

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

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

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

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

$DCTTAB Information

$DCTTAB Programming Interface information

Programming Interface information

$DCTTAB

End of Programming Interface information

$DCTTAB Heading Information

Common Name: DCT Table Entry DSECT
Macro ID: $DCTTAB
DSECT Name: DTAB
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: The pool of DCTTABs is preceded by an eyecatcher '**DCT POOL**' in the header for the pool.
Offset: HDPID-HDP
Length: 13
Storage Attributes: Subpool: Part of HASJES20 or user exit load module
Key: 1
Residency: Part of the HASJES20 load module in the JES2 address space for HASP tables. Virtual and real storage anywhere within the JES2 address space for USER tables.
Size: See DTABELEN
Created by: Assembly
Pointed to by: MCTDCTTH field of the $MCT data area
MCTDCTTU field of the $MCT data area
DTABSCHN field of the $DCTTAB data area
PTABDTAB field of the $PCETAB data area
The end of the previous DCTTAB is the start of the next DCTTAB in the pool.
Serialization: $DCTTABs are read only.
Function: $DCTTAB maps the static tables used by JES2 for creation, location, and deletion of $DCTs.

$DCTTABs are used to define devices supported by IBM distributed code. They can also be used to define installation defined devices or to override IBM defined devices (this does not imply that IBM distributed code will support the installation defined devices).

$DCTTAB Map

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	0	DTAB	
0	(0)	CHARACTER	8	DTABNAME	DCT TABLE ENTRY NAME
8	(8)	CHARACTER	24	DTABDESC	DCT DESCRIPTION
32	(20)	CHARACTER	8	DTABALS	DCT NAME ALIAS
40	(28)	BITSTRING	1	DTABFLG1	GENERAL FLAGS
		1...		DTAB1DEU	"B'10000000'" ENTRY IS USER DTAB ENTRY
		.1..		DTAB1DEH	"B'01000000'" ENTRY IS HASP DTAB ENTRY
		..1.		DTAB1PCE	"B'00100000'" DCTS OF THIS TYPE EACH HAVE CORRESPONDING PCES
		...1		DTAB1MP	"B'00010000'" DCTS OF THIS TYPE ARE MANAGED AS AS A GROUP BY ONE PCE
41	(29)	BITSTRING	1	DTABFLG2	SECOND FLAG BYTE
		1...		DTAB2SUB	"B'10000000'" DCT HAS SUBTYPE CHAIN (PARENT)
		.1..		DTAB2POL	"B'01000000'" DCT IS IN $DCTPOOL CHAIN
		..1.		DTAB2DCB	"B'00100000'" EXCP DCB AND DEB FOR DCT
		...1		DTAB2BSM	"B'00010000'" BSAM DCB BUILT FOR THIS DCT
		.... 1...		DTAB2CDC	"B'00001000'" CDCT BUILT FOR THIS DCT
42	(2A)	BITSTRING	1	DTABFLG3	Third flag
		1...		DTAB3JWS	"B'10000000'" Dev does JOB work sel
		.1..		DTAB3SWS	"B'01000000'" Dev does SYSOUT work sel
43	(2B)	BITSTRING	1	DTABFLG4	Fourth flag
		1...		DTAB4PPU	"B'10000000'" PCEPTR field in the UCT

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
		.1..		DTAB4PPH	"B'01000000'" PCEPTR field in the HCT
		..1.		DTAB4PPA	"B'00100000'" PCEPTR field in the ADDR
		...1		DTAB4PPT	"B'00010000'" PCEPTR field in the TOKEN
44	(2C)	BITSTRING	1	DTABPPTT	PCEPTR TOKEN level
45	(2D)	BITSTRING	1	DTABFLG5	Fifth flag
		1...		DTAB5CHU	"B'10000000'" CHAIN field in the UCT
		.1..		DTAB5CHH	"B'01000000'" CHAIN field in the HCT
		..1.		DTAB5CHA	"B'00100000'" CHAIN field is Address
		...1		DTAB5CHT	"B'00010000'" CHAIN field is Token
46	(2E)	BITSTRING	1	DTABCHTT	CHAIN TOKEN level
47	(2F)	BITSTRING	1	DTABFLG6	Sixth flag
		1...		DTAB6CTU	"B'10000000'" COUNT field in the UCT
		.1..		DTAB6CTH	"B'01000000'" COUNT field in the HCT
		..1.		DTAB6CTA	"B'00100000'" COUNT field is Address
		...1		DTAB6CTT	"B'00010000'" COUNT field is Token
48	(30)	BITSTRING	1	DTABCNTT	COUNT TOKEN level
49	(31)	BITSTRING	2		Reserved for future use
51	(33)	ADDRESS	1	DTABALIL	Length of ALIAS
52	(34)	BITSTRING	1	DTABID	DCTDEVTP FIELD
53	(35)	BITSTRING	1	DTABPTYP	PARENT DEVICE TYPE
54	(36)	BITSTRING	1	DTABDEV	DCTDEVID FIELD
55	(37)	ADDRESS	1	DTABNAML	LENGTH OF DCT NAME
56	(38)	ADDRESS	1	DTABSUBL	OFFSET OF SUBSCRIPT IN NAME
57	(39)	ADDRESS	1	DTABDESL	LENGTH-1 FOR DTABDESC
58	(3A)	ADDRESS	2	DTABSCHN	SUBCHAINING FIELD OFFSET
60	(3C)	ADDRESS	2	DTABLEN	LENGTH OF THIS DCT TYPE
62	(3E)	BITSTRING	2		Reserved for future use
64	(40)	ADDRESS	4	DTABPCEP (0)	Offset/address of managing PCE address if DTAB1MP is On
64	(40)	ADDRESS	4	DTABPTAB	RELATED PCE TABLE ENTRY ADDRESS IF DTAB1PCE is on
68	(44)	ADDRESS	4	DTABWSTB	ADDR OR OFFSET OF WS TABLE PAIR ADDRESS
72	(48)	ADDRESS	4	DTABWSDF	DEFAULT WS LIST ADDRESS
76	(4C)	ADDRESS	4	DTABCHN	Offset/address of DCT Chain field
80	(50)	ADDRESS	4	DTABCNT	Offset/address of DCT COUNT field
84	(54)	ADDRESS	2	DTABLV	LOW SUBSCRIPT RANGE VALUE
86	(56)	ADDRESS	2	DTABHV	HIGH SUBSCRIPT RANGE VALUE
88	(58)	ADDRESS	4	DTABRTN	ADDRESS OF DCT INIT ROUTINE
92	(5C)	CHARACTER	16	DTABPPTK	PCEPTR token name
108	(6C)	CHARACTER	16	DTABCNTK	COUNT token name
124	(7C)	CHARACTER	16	DTABCHTK	CHAIN token name
124	(7C)	X'3'	0	DTABVERS	"3" DTAB version level
124	(7C)	X'8C'	0	DTABELEN	"*-DTAB" LENGTH OF DCT TABLE ENTRY DSECT

$DCTTAB Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
DTAB	0		DTABFLG6	2F	
DTABALIL	33		DTABHV	56	
DTABALS	20		DTABID	34	
DTABCHN	4C		DTABLEN	3C	
DTABCHTK	7C	40404040	DTABLV	54	
DTABCHTT	2E		DTABNAME	0	
DTABCNT	50		DTABNAML	37	
DTABCNTK	6C	40404040	DTABPCEP	40	
DTABCNTT	30		DTABPPTK	5C	40404040
DTABDESC	8		DTABPPTT	2C	
DTABDESL	39		DTABPTAB	40	
DTABDEV	36		DTABPTYP	35	
DTABELEN	7C	8C	DTABRTN	58	
DTABFLG1	28		DTABSCHN	3A	
DTABFLG2	29		DTABSUBL	38	
DTABFLG3	2A		DTABVERS	7C	3
DTABFLG4	2B		DTABWSDF	48	
DTABFLG5	2D		DTABWSTB	44	

$DCTTAB Cross Reference

Name	Hex Offset	Hex Value
DTAB1DEH	28	40
DTAB1DEU	28	80
DTAB1MP	28	10
DTAB1PCE	28	20
DTAB2BSM	29	10
DTAB2CDC	29	8
DTAB2DCB	29	20
DTAB2POL	29	40
DTAB2SUB	29	80
DTAB3JWS	2A	80
DTAB3SWS	2A	40
DTAB4PPA	2B	20
DTAB4PPH	2B	40
DTAB4PPT	2B	10
DTAB4PPU	2B	80
DTAB5CHA	2D	20
DTAB5CHH	2D	40
DTAB5CHT	2D	10
DTAB5CHU	2D	80
DTAB6CTA	2F	20
DTAB6CTH	2F	40
DTAB6CTT	2F	10
DTAB6CTU	2F	80

$DILWORK Information

$DILWORK Heading Information

Common Name: JES2 BERT Lock POST Processor
Macro ID: $DILWORK
DSECT Name: PCE ($DILWORK is part of the PCE DSECT)
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: 'PCE '
Offset: PCEEYE-PCE
Length: 4
Storage Attributes: Subpool: See $PCE
Key: See $PCE
Residency: See $PCE
Size: See symbol DILPCEWS for the length of this work area. The overall length of the PCE is stored in field PCELENG.
Created by: See $PCE
Pointed to by: The $DILPCE field of the $HCT data area points into the $PCEORG/$PCELAST chain to the first BERT POST PCE. Since this chain contains all PCEs, use the PCEID field to determine when you have chained past the last PCE of this type. See $PCE for other pointer fields that apply to all PCE types.
Serialization: Normal PCE dispatch serialization
Function: The fields in this work area are used by a JES2 BERT Lock POST Processor and by its support routines and exits. $DILWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in $DILWORK are actually part of the PCE DSECT, but only map PCEs with the value PCEDILID in the second byte of field PCEID.

This PCE is not device related. Field PCEDCT is zero.

$DILWORK Map

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

$DSB Information

$DSB Heading Information

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

$DSB Map

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	0	DSB	DATASPACE BLOCK
0	(0)	BITSTRING	1	DSBVERS	CONTROL BLOCK VERSION
0	(0)	X'2'	0	DSBVERSN	"2" Current control block ver
1	(1)	BITSTRING	1	DSBFLAG1	Latest $DSPSERV request type (see DSWAIFL1 for bit values). Not set for RELEASE requests
2	(2)	BITSTRING	2		RESERVED FOR FUTURE USE
4	(4)	ADDRESS	4	DSBNEXT	Pointer to the next DSB
8	(8)	SIGNED	4	DSBRC	Return code from latest service routine ($DSPSERV or $ALESERV)
12	(C)	SIGNED	4	DSBALET	ALET FOR JES2 TO USE WHEN ACCESSING THE DATA SPACE
16	(10)	BITSTRING	8	DSBSTKN	DATASPACE TOKEN
24	(18)	ADDRESS	4	DSBOASCB	Owning ASCB address
28	(1C)	BITSTRING	8	DSBOSTKN	Owning STOKEN value
36	(24)	ADDRESS	4	DSBOTCB	Owning TCB address
40	(28)	BITSTRING	16	DSBOTTKN	Owning TCB TTOKEN
56	(38)	ADDRESS	4	DSBORG	DATASPACE ORIGIN
60	(3C)	SIGNED	4	DSBBLKSM	MAX data space size
64	(40)	SIGNED	4	DSBBLKSC	Current data space size
68	(44)	SIGNED	4	DSBBLKSI	Initial data space size
72	(48)	CHARACTER	8	DSBPNAME	Name passed on $DSPSERV
80	(50)	CHARACTER	8	DSBNAME (0)	Constructed data space name
80	(50)	CHARACTER	4	DSBNAME1	USUALLY SUBSYSTEM NAME
84	(54)	CHARACTER	4	DSBNAME2	First 4 bytes of DSBPNAME
88	(58)	CHARACTER	8	DSBOUTN	DATASPACE NAME USED
96	(60)	BITSTRING	1	DSBKEY	DATASPACE KEY
97	(61)	BITSTRING	1	DSBFLAG2	Data space flags
		1...		DSB2FPRO	"B'10000000'" DS is fetch protected
		..1.		DSB2OWNM	"B'00100000'" OWNER=MASTER specified
		...1		DSB2OWNC	"B'00010000'" OWNER=CURRENT specified

$DSB Cross Reference

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
		.... 1...		DSB2OWNA	"B'00001000'" OWNER=AUX specified
		.... .1..		DSB2SCLO	"B'00000100'" SCOPE=LOCAL data space
		.... ..1.		DSB2SCAL	"B'00000010'" SCOPE=ALL data space
		1		DSB2SCCO	"B'00000001'" SCOPE=COMMON data space
98	(62)	BITSTRING	2		RESERVED FOR FUTURE USE
100	(64)	ADDRESS	4	DSBLIST	Pointer to DSPSERV work area (used for CREATE and DELETE only)
104	(68)	SIGNED	4	DSBVRBAS	Alt base for VER/REP facil
108	(6C)	ADDRESS	4	(2)	RESERVED FOR FUTURE USE
120	(78)	DBL WORD	8	(0)	Ensure doubleword alignment
120	(78)	X'78'	0	DSBLEN	"*-DSB" LENGTH OF DATASPACE BLOCK

$DSB Cross Reference

Name	**Hex Offset**	**Hex Value**
DSB	0	
DSBALET	C	
DSBBLKSC	40	
DSBBLKSI	44	
DSBBLKSM	3C	
DSBFLAG1	1	
DSBFLAG2	61	
DSBKEY	60	
DSBLEN	78	78
DSBLIST	64	
DSBNAME	50	
DSBNAME1	50	
DSBNAME2	54	
DSBNEXT	4	
DSBOASCB	18	
DSBORG	38	
DSBOSTKN	1C	
DSBOTCB	24	
DSBOTTKN	28	
DSBOUTN	58	
DSBPNAME	48	
DSBRC	8	
DSBSTKN	10	
DSBVERS	0	
DSBVERSN	0	2
DSBVRBAS	68	
DSB2FPRO	61	80
DSB2OWNA	61	8
DSB2OWNC	61	10
DSB2OWNM	61	20
DSB2SCAL	61	2
DSB2SCCO	61	1
DSB2SCLO	61	4

$DSCT Information

$DSCT Programming Interface information

Programming Interface information

$DSCT

End of Programming Interface information

$DSCT Heading Information

Common Name: Data Set Control Table
Macro ID: $DSCT
DSECT Name: DSCT
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: 'DSCT'
Offset: DSID-DSCT
Length: 4
Storage Attributes: Subpool: Same as $IOT
Key: Same as $IOT
Residency: The DSCT resides within the $IOT data area.
Size: See DSCTLEN
Created by: $IOTBLD routine, filled in by the $DSCTBLD routine at allocation time
Pointed to by: IOTDSCT field of the $IOT data area contains the offset within the IOT of the DSCT.
Serialization: Same as $IOT
Function: The DSCT is a control block which resides within the IOT control block. The DSCT is initialized only for data sets created by APPC Transaction Programs. The DSCT contains data set level information used to override job level information. The DSCT is located at the end of each spin IOT. Flag IOT2DSCT indicates that the DSCT exists and contains valid information.

$DSCT Map

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	0	DSCT	HASP Data Set Control Table
0	(0)	DBL WORD	8	(0)	Assumed double word start
0	(0)	CHARACTER	4	DSID	DSCT identifier
4	(4)	ADDRESS	1	DSVERS	DSCT version number
4	(4)	X'1'	0	DSVERN	"1" DSCT version
5	(5)	BITSTRING	1	DSFLAG1	DSCT flag byte 1
		1...		DSUSUNDF	"B'10000000'" Userid is undefined
6	(6)	SIGNED	2		Reserved for future use
8	(8)	CHARACTER	8	DSJBN	Job name
16	(10)	CHARACTER	8	DSWKID	Work unit identifier
24	(18)	DBL WORD	8	DSESTK	Entry start clock time
32	(20)	DBL WORD	8	DSXSTK	Execution start clock time
40	(28)	SIGNED	4	DSSTRT	Entry time in 1/100's sec
44	(2C)	SIGNED	4	DSSTRD	Entry date 00yydddf
48	(30)	CHARACTER	8	DSUID	User identification field
56	(38)	CHARACTER	8	DSTPUID	Transaction Program Userid
64	(40)	CHARACTER	4	DSACT	Account number
68	(44)	SIGNED	4		Reserved for future use
72	(48)	SIGNED	4		Reserved for future use
76	(4C)	SIGNED	4		Reserved for future use
80	(50)	SIGNED	4		Reserved for future use
84	(54)	SIGNED	4		Reserved for future use
88	(58)	SIGNED	4		Reserved for future use
92	(5C)	SIGNED	4	DSUSERF (5)	Reserved fields for user
92	(5C)	X'70'	0	DSCTLEN	"*-DSCT" Length of DSCT

$DSCT Cross Reference

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

$DSSCB Information

$DSSCB Heading Information

Common Name: Data Set Services Control Block
Macro ID: $DSSCB
DSECT Name: DSSCB
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: DSS
Offset: DSSID-DSSCB
Length: L'DSSID
Storage Attributes: Subpool: 0
Key: 1
Residency: Virtual and real storage are anywhere in the JES2 address space.
Size: See DSSGLEN+DSSVLEN
Created by: RDSMSG routine in HASPRDR, and
OPJLOG routine in HASPHOPE
Pointed to by: OUTDSSCB field of the $OUTWORK data area
Serialization: See macros $DSOPEN, $DSPUT, and $DSCLOSE
Function: The $DSSCB is a work area used to allow data set services. Three sections are identified in the $DSSCB dsect.

The three sections are: 1) a control section, 2) an internal work area, and 3) a caller's work area.

The Control Section:

Fields in the control section must be set prior to calling $DSOPEN. Failure to set the fields in this section will result in a failure in $DSOPEN.

Internal Work Section:

The internal work area will be set to zero by $DSOPEN. Subsequent data set services will use this internal work area to store information such as buffer pointers and counters.

Caller's Work Area:

The caller section will contain all the fields that the caller of the data set service routines will need to set to write the next record.

$DSSCB Map

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

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

$DSSCB Cross Reference

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

$DSWA Information

$DSWA Programming Interface information

Programming Interface information

$DSWA

End of Programming Interface information

$DSWA Heading Information

Common Name: Data Space Services Work Area
Macro ID: $DSWA
DSECT Name: DSWA
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: DSWA
Offset: DSWAID-DSWA
Length: L'DSWAID
Storage Attributes: Subpool: 229
Key: 1
Residency: Virtual and real storage are anywhere, above or below 16M, in private storage.
Size: See DSWASIZE
Created by: $DSPSERV macro
Pointed to by: None
Serialization: None required
Function: This DSECT maps the parameter list to the data space services routines in HASCDSS. It is created by the $DSPSERV macro and freed in HASCDSS.

$DSWA Map

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	0	DSWA	
0	(0)	CHARACTER	4	DSWAID	$DSWA IDENTIFIER
4	(4)	BITSTRING	1	DSWAVERS	$DSWA VERSION NUMBER
4	(4)	X'3'	0	DSWALEVL	"3" $DSWA CURRENT VERS LEVEL
				Comment	
				INPUT FLAG INDICATORS.	
				End of Comment	
5	(5)	BITSTRING	1	DSWAIFL1	$DSPSERV FUNCTION FLAG
		1...		DSWAI1CR	"B'10000000'" Create request
		.1..		DSWAI1EX	"B'01000000'" Extend request
		..1.		DSWAI1RL	"B'00100000'" Release request
		...1		DSWAI1DE	"B'00010000'" Delete request
6	(6)	BITSTRING	1	DSWAIFL2	$DSPSERV Parameter flag (flags must be the same as CPMFLAG3)
		1...		DSWAI2FY	"B'10000000'" FPROT=YES specified
		.1..		DSWAI2FN	"B'01000000'" FPROT=NO specified
		..1.		DSWAI2OM	"B'00100000'" OWNER=MASTER specified
		...1		DSWAI2OC	"B'00010000'" OWNER=CURRENT specified
		.... 1...		DSWAI2OA	"B'00001000'" OWNER=AUX specified
		.... .1..		DSWAI2SL	"B'00000100'" SCOPE=LOCAL specified
		.... ..1.		DSWAI2SA	"B'00000010'" SCOPE=ALL specified
		1		DSWAI2SC	"B'00000001'" SCOPE=COMMON specified
7	(7)	BITSTRING	4	DSWARSD1	RESERVED FOR DEVELOPMENT
				Comment	
				Input/Output data fields (see $DSPSERV for an explanation of the fields).	
				End of Comment	
11	(B)	BITSTRING	1	DSWAKEY	KEY= KEYWORD
12	(C)	ADDRESS	4	DSWADSB	DSB= keyword
16	(10)	CHARACTER	8	DSWANAME	NAME= KEYWORD
24	(18)	CHARACTER	8	DSWACALL	NAME OF $DSPSERV CALLER

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
32	(20)	SIGNED	4	DSWABLCM	BLOCKS=(max,) keyword
36	(24)	SIGNED	4	DSWABLCI	BLOCKS=(,init) keyword
40	(28)	SIGNED	4	DSWASTRT	START= keyword
				Comment	
				DSPSERV ERROR/WARNING EQUATE VALUES.	
				End of Comment	
40	(28)	X'8'	0	DSWANOES	"8" NO ESTAE COULD BE ESTABLISHED
40	(28)	X'C'	0	DSWAEEST	"12" ESTAE ENTERED, NO DS CREATED
40	(28)	X'10'	0	DSWACERR	"16" CATASTROPHIC RECURSION ERROR
40	(28)	X'28'	0	DSWANCSA	"40" Unable to obtain ECSA storage for the DSB
40	(28)	X'2C'	0	DSWANOST	"44" Unable to obtain working storage (in private)
40	(28)	X'30'	0	DSWAINVF	"48" ISSUED WITH INVALID FUNCTION
40	(28)	X'34'	0	DSWAIBLK	"52" CREATE FUNCTION, INVALID BLOCKS
40	(28)	X'38'	0	DSWASRBF	"56" Error in SRB processing
40	(28)	X'3C'	0	DSWATTKF	"60" MVS TCBTOKEN failure
40	(28)	X'40'	0	DSWADSPF	"64" MVS DSPSERV FAILURE
40	(28)	X'44'	0	DSWAALEF	"68" MVS ALESERV FAILURE
40	(28)	X'4C'	0	DSWAIVER	"76" INVALID $DSWA VERSION NUMBER
40	(28)	X'C8'	0	DSWANGEN	"200" DATA SPACE NAME GENERATED
				Comment	
				END OF $DSWA DATA AREA.	
				End of Comment	
44	(2C)	BITSTRING	1	DSWAEND (0)	
44	(2C)	X'2C'	0	DSWASIZE	"DSWAEND-DSWA" SIZE OF $DSWA DATA AREA

$DSWA Cross Reference

Name	Hex Offset	Hex Value
DSWA	0	
DSWAALEF	28	44
DSWABLCI	24	
DSWABLCM	20	
DSWACALL	18	
DSWACERR	28	10
DSWADSB	C	
DSWADSPF	28	40
DSWAEEST	28	C
DSWAEND	2C	
DSWAIBLK	28	34
DSWAID	0	
DSWAIFL1	5	
DSWAIFL2	6	
DSWAINVF	28	30
DSWAIVER	28	4C
DSWAI1CR	5	80
DSWAI1DE	5	10
DSWAI1EX	5	40
DSWAI1RL	5	20
DSWAI2FN	6	40
DSWAI2FY	6	80
DSWAI2OA	6	8
DSWAI2OC	6	10
DSWAI2OM	6	20
DSWAI2SA	6	2
DSWAI2SC	6	1
DSWAI2SL	6	4
DSWAKEY	B	

Name	Hex Offset	Hex Value
DSWALEVL	4	3
DSWANAME	10	
DSWANCSA	28	28
DSWANGEN	28	C8
DSWANOES	28	8
DSWANOST	28	2C
DSWARSD1	7	
DSWASIZE	2C	2C
DSWASRBF	28	38
DSWASTRT	28	
DSWATTKF	28	3C
DSWAVERS	4	

$DTE Information

$DTE Programming Interface information

Programming Interface information

$DTE

End of Programming Interface information

$DTE Heading Information

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

Function:

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

$DTE Map

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	0	DTE	DAUGHTER TASK ELEMENT DSECT
0	(0)	CHARACTER	4	DTEID (0)	DTE CONTROL BLOCK IDENTIFIER
0	(0)	BITSTRING	1	(0)	$SAVE AREA (SEE PSV IN PCE)
168	(A8)	ADDRESS	4	DTELPSV	ADDR OF LAST/CURRENT SAVE AREA
172	(AC)	ADDRESS	1	DTELEVEL	DTE CONTROL BLOCK VERSION LEVEL
173	(AD)	BITSTRING	1	DTESTID	SUBTASK IDENTIFIER
174	(AE)	SIGNED	2	DTESIZE	SIZE OF DTE + WORK AREA EXT.
176	(B0)	BITSTRING	1	DTEFLAG1	DTE FLAG BYTE 1
		1...		DTE1ACTV	"B'10000000'" SUBTASK ACTIVE
		.1..		DTE1TERM	"B'01000000'" SUBTASK SHUTDOWN REQUESTED
		..1.		DTE1AUTO	"B'00100000'" AUTOMATICALLY STARTED BY IRMVS
		...1		DTE1STAE	"B'00010000'" SUBTASK DETACHED WITH STAE=YES
		.... 1...		DTE1SUB0	"B'00001000'" SUBTASK ATTACHED WITH SZERO=NO
		.... .1..		DTE1ECB	"B'00000100'" JES2 WAITING FOR SUBTASK POST
		.... ..1.		DTE1XECB	"B'00000010'" PCE $WAITING FOR SUBTASK POST
		1		DTE1PJ2	"B'00000001'" JES2 IS COMMING DOWN CLEAN ($HCCT WILL BE FREEMAINED)
177	(B1)	BITSTRING	1	DTEFLAG2	DTE FLAG BYTE 2
		1...		DTE2IERR	"B'10000000'" SUBTASK INITIALIZATION FAILED
		.1..		DTE2TRAC	"B'01000000'" TASK ELIGIBLE FOR TRACING
		..1.		DTE2CRTM	"B'00100000'" Subtask being cancelled by maintask via CALLRTM
		...1		DTE2$CD	"B'00010000'" Subtask cancelled with dump
178	(B2)	BITSTRING	1	DTEFLAG3	DTE initialization opt flag
		1...		DTE3REQD	"B'10000000'" This subtask is essential, abnormal term will also terminate maintask ($Z03)
		.1..		DTE3RTYP	"B'01000000'" Terminate main task ($Z03) on abnormal term of last or only DTE of type
179	(B3)	BITSTRING	1	DTEERRCT	Subtask ABEND error count
180	(B4)	ADDRESS	4	DTENEXT	FORWARD CHAIN FIELD ($DTEORG)
184	(B8)	ADDRESS	4	DTEPREV	BACKWARD CHAIN FIELD ($DTELAST)
188	(BC)	ADDRESS	4	DTETCB	SUBTASK TCB ADDRESS
192	(C0)	BITSTRING	16	DTETTOKN	Subtask TCB token
208	(D0)	ADDRESS	4	DTEPCE	RELATED PCE ADDRESS OR ZERO, SET TO CURRENT PCE BY DTEDYN UNLESS INIT., MAY BE RESET
212	(D4)	ADDRESS	4	DTEHCT	ADDRESS OF HCT

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
				Comment	
		SUBTASK INITIALIZATION ECB'S MUST BE KEPT TOGETHER NOTE THAT THESE ECBS CAN BE USED DURING NORMAL JES2 PROCESSING ALSO.			
				End of Comment	
216	(D8)	SIGNED	4	DTEIECB	SUBTASK INITIALIZATION ECB
216	(D8)	BITSTRING	24	DTEIXECB	SUBTASK INITIALIZATION XECB
				Comment	
		SUBTASK WORK ECB'S MUST BE KEPT TOGETHER			
				End of Comment	
240	(F0)	SIGNED	4	DTEWECB	SUBTASK WORK ECB
240	(F0)	BITSTRING	24	DTEWXECB	SUBTASK WORK XECB
				Comment	
		SUBTASK TERMINATION ECB'S MUST BE KEPT TOGETHER			
				End of Comment	
264	(108)	SIGNED	4	DTETECB	SUBTASK TERMINATION ECB
264	(108)	BITSTRING	24	DTETXECB	SUBTASK TERMINATION XECB
				Comment	
		SUBTASK TERMINATION ECB LIST, MUST BE KEPT TOGETHER			
				End of Comment	
288	(120)	ADDRESS	4	DTEECBL1	JES2 TERMINATION ECBLIST
292	(124)	ADDRESS	4	DTEECBL2	AND STIMER EXIT ROUTINE ECB
296	(128)	SIGNED	4	DTEJECB	(ALL USED ONLY IN HASPTERM)
				Comment	
		END OF ECB AREAS THAT MUST BE KEPT TOGETHER			
				End of Comment	
300	(12C)	CHARACTER	8	DTENAME	SUBTASK EBCDIC NAME
308	(134)	ADDRESS	4	DTEVRXAD	SUBTASK RECOVERY VRA EXIT ADDR
312	(138)	ADDRESS	4	DTEESXAD	SUBTASK RCVY CLEAN UP EXIT ADDR
316	(13C)	ADDRESS	4	DTERTXAD	SUBTASK RCVY RETRY EXIT ADDR
				Comment	
		SUBTASK ESTAE RECOVERY WORK AREA.			
				End of Comment	
320	(140)	BITSTRING	1	DTEABFLG	SUBTASK RECOVERY ESTAE FLAG
		1...		DTEABEND	"B'10000000'" SUBTASK ABEND IN PROGRESS
		.1..		DTEABVRA	"B'01000000'" SUBTASK VRA EXIT ACTIVE
		..1.		DTEABESX	"B'00100000'" SUBTASK CLEAN UP EXIT ACTIVE
		...1		DTEABSTR	"B'00010000'" SUBTASK RETRY EXIT ACTIVE
		.... 1...		DTEABREC	"B'00001000'" SUBTASK RETRY RECURSION FLAG
		.... .1..		DTEABTRM	"B'00000100'" Subtask being terminated
321	(141)	BITSTRING	3		RESERVED FOR FUTURE USE
324	(144)	BITSTRING	492	DTEERA	SUBTASK ERA
816	(330)	BITSTRING	576	DTETRCA	SUBTASK TRCA
1392	(570)	SIGNED	4	DTESDECB	SUBTASK ESTAE SDUMP ECB

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
				Comment	
		Subtask Work area			
				End of Comment	
1400	(578)	DBL WORD	8	(0)	
1400	(578)	CHARACTER	108	DTEAWRKA	SUBTASK ESTAE WORK AREA
1400	(578)	X'4A4'	0	DTEASAVL	"*-DTEABFLG" LENGTH OF RECOVERY WORK AREA
				Comment	
		GENERAL PARAMETER LIST AREA AND RESERVED USER FIELDS			
				End of Comment	
1508	(5E4)	ADDRESS	4	DTEJQE	Related JQE address
1512	(5E8)	SIGNED	2	DTEASID	Associated address space
1514	(5EA)	SIGNED	2		Reserved for future use
1516	(5EC)	SIGNED	4	DTEPARML (2)	8 BYTE PARAMETER LIST
1516	(5EC)	X'5EC'	0	DTEPARM	"DTEPARML,4,C'A'" parm list @ from attach or
1516	(5EC)	X'5F0'	0	DTEPARM2	"DTEPARML+4,4,C'A'" 2 work parm for subtsk use
1524	(5F4)	SIGNED	4	DTEUSER1	RESERVED FOR USER
1528	(5F8)	SIGNED	4	DTEUSER2	RESERVED FOR USER
1532	(5FC)	SIGNED	4	DTEUSER3	RESERVED FOR USER
1536	(600)	SIGNED	4	DTEUSER4	RESERVED FOR USER
1540	(604)	SIGNED	4	DTEERRTM	Time of last error
1544	(608)	DBL WORD	8	DTEWORK (0)	VARIABLE LEN SUBTASK WORK AREA
1544	(608)	X'4'	0	DTEVERSN	"4" DTE Version level
1544	(608)	X'608'	0	DTELEN	"*-DTE" LENGTH OF DTE DSECT FOUNDATION
				Comment	
		DTESTID -- SUBTASK IDENTIFIER EQUATES (USER SUBTASK IDS SHOULD BEGIN AT 255 AND WORK DOWN TOWARDS THE JES2 SUBTASK IDS)			
				End of Comment	
1544	(608)	X'0'	0	DTEIDIMG	"0" HASPIMAG SUBTASK ID; work area mapped by $DTEIMAG
1544	(608)	X'1'	0	DTEIDALC	"1" HOSALLOC SUBTASK ID; work area mapped by $DTEALOC
1544	(608)	X'2'	0	DTEIDSPL	"2" HOSPOOL SUBTASK ID; work area mapped by $DTESPL
1544	(608)	X'3'	0	DTEIDSMF	"3" HASPACCT SUBTASK ID; work area mapped by $DTEACCT
1544	(608)	X'4'	0	DTEIDVTM	"4" HASPVTAM SUBTASK ID; work area mapped by $DTEVTAM
1544	(608)	X'5'	0	DTEIDWTO	"5" HASPWTO SUBTASK ID; work area mapped by $DTEWTO
1544	(608)	X'6'	0	DTEIDCNV	"6" HOSCNVT SUBTASK ID; work area mapped by $DTECNV
1544	(608)	X'7'	0	DTEIDOFF	"7" HASPOFF SUBTASK ID; work area mapped by $DTEOFF
1544	(608)	X'8'	0	DTEIDCVR	"8" HASPCKVR SUBTASK ID; work area mapped by $DTECKVR
1544	(608)	X'9'	0	DTEIDSUB	"9" HASPSUBS SUBTASK ID; work area mapped by $DTESUBS
1544	(608)	X'A'	0	DTEIDCCF	"10" HASPCKCF SUBTASK ID; work area mapped by $DTECKCF
1544	(608)	X'B'	0	DTEIDEOM	"11" HASPEOM SUBTASK ID; work area mapped by $DTEEOM
1544	(608)	X'C'	0	DTEIDMIG	"12" HASPSPOL migrator subtask ID; work area mapped by $DTEMIGR
1544	(608)	X'D'	0	DTEIDASS	"13" HASPSPOL migrator assist subtask ID; work area mapped by $DTEASST

$DTE Cross Reference

Name	Hex Offset	Hex Value
DTE	0	
DTEABEND	140	80
DTEABESX	140	20
DTEABFLG	140	
DTEABREC	140	8
DTEABSTR	140	10
DTEABTRM	140	4
DTEABVRA	140	40
DTEASAVL	578	4A4
DTEASID	5E8	
DTEAWRKA	578	
DTEECBL1	120	
DTEECBL2	124	
DTEERA	144	
DTEERRCT	B3	
DTEERRTM	604	
DTEESXAD	138	
DTEFLAG1	B0	
DTEFLAG2	B1	
DTEFLAG3	B2	
DTEHCT	D4	
DTEID	0	
DTEIDALC	608	1
DTEIDASS	608	D
DTEIDCCF	608	A
DTEIDCNV	608	6
DTEIDCVR	608	8
DTEIDEOM	608	B
DTEIDIMG	608	0
DTEIDMIG	608	C
DTEIDOFF	608	7
DTEIDSMF	608	3
DTEIDSPL	608	2
DTEIDSUB	608	9
DTEIDVTM	608	4
DTEIDWTO	608	5
DTEIECB	D8	
DTEIXECB	D8	
DTEJECB	128	
DTEJQE	5E4	
DTELEN	608	608
DTELEVEL	AC	
DTELPSV	A8	
DTENAME	12C	
DTENEXT	B4	
DTEPARM	5EC	5EC
DTEPARML	5EC	
DTEPARM2	5EC	5F0
DTEPCE	D0	
DTEPREV	B8	
DTERTXAD	13C	
DTESDECB	570	
DTESIZE	AE	
DTESTID	AD	
DTETCB	BC	
DTETECB	108	
DTETRCA	330	
DTETTOKN	C0	
DTETXECB	108	
DTEUSER1	5F4	
DTEUSER2	5F8	
DTEUSER3	5FC	
DTEUSER4	600	
DTEVERSN	608	4
DTEVRXAD	134	
DTEWECB	F0	
DTEWORK	608	
DTEWXECB	F0	
DTE1ACTV	B0	80
DTE1AUTO	B0	20
DTE1ECB	B0	4
DTE1PJ2	B0	1
DTE1STAE	B0	10
DTE1SUB0	B0	8
DTE1TERM	B0	40
DTE1XECB	B0	2
DTE2$CD	B1	10
DTE2CRTM	B1	20
DTE2IERR	B1	80
DTE2TRAC	B1	40
DTE3REQD	B2	80
DTE3RTYP	B2	40

$DTEACCT Information

$DTEACCT Programming Interface information

Programming Interface information

$DTEACCT

End of Programming Interface information

$DTEACCT Heading Information

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

The JMR buffer work area is used to pass the JES2 JMR record to SMFEXIT IEFUJP and the SMFEWTM service. The work area resides below the 16M line, while the JES2 SMF buffer may reside anywhere.

$DTEACCT Map

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

$DTEALOC Information

$DTEALOC Heading Information

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

The Dynamic Allocation Subtask DTE handles dynamic allocation (DYNALLOC) requests from the JES2 main task. The $ALLOC service, running under the JES2 main task, fills in the DYNALLOC parameter list, then waits for the subtask to become available. When it does, the main task stores the address of the parameter list in the field DTEPARM. The subtask is then awakened and it does the DYNALLOC.

$DTEALOC Map

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

$DTEASST Information

$DTEASST Heading Information

Common Name: HASP Spool Migrator Assist Work Area
Macro ID: $DTEASST
DSECT Name: DTE ($DTEASST is part of the DTE DSECT)
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: 'DTE '
Offset: DTEID-DTE
Length: 4
Storage Attributes: Subpool: See $DTE
Key: See $DTE
Residency: See $DTE
Size: See the DTELEN equate for the length of the base DTE, and ASTLLEN for the length of a Migrator Assist Allocation DTE extension.
Created by: Created by $DTEDYN ATTACH during JES2 initialization. The subtask (and DTE) definitions are defined by the $DTETAB definitions.
Pointed to by: The $DTEASST field of the $HCT data area points into $DTEORG/$DTELAST chain to the first HOSASST DTE. See $DTE for other pointer fields that apply to all DTE types.
Serialization: This work area is used serially by the HOSASST subtask. No special serialization is necessary.
Function: The Spool Assist DTE work area DSECT, $DTEASST, defines a work area used by the JES2 Migrator Assist subtask (HOSASST).
The mapping defines the fields after label DTEWORK. This mapping is only used to map DTEs with the value DTEIDAST in the field DTESTID, indicating this DTE is a Migrator Assist spool DTE.

$DTEASST Map

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	0	DTE	Spool migration assistant Work area
1544	(608)	CHARACTER	1	ASTSTART (0)	Start of Assist mapping
1544	(608)	ADDRESS	4	ASTSTSPL	Address of ECB for subtask to post - informs SPOL PCE request is complete
				Comment	
				Migration request flag - only set by SPOL and INIT PCEs. The SPOL PCE waits for ACK of request as does the INIT PCE with one exception below -- ASTRCVMG.	
				End of Comment	
1548	(60C)	BITSTRING	1	AST1REQU	SPOL PCE and INIT PCE request flags
		....		AST1NORE	"X'00'" No active request
		.... .1..		ASTCREA	"X'04'" Create migration table and MIGR$ASST mailbox
		.... 1...		ASTINIT	"X'08'" Given source DAS - init the corresponding migration table entry. Entry found via DASEXTNO. See ASTSRDAS below.

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
		.... 11..		ASTDLENT	"X'0C'" Given DAS -- delete migr table entry. Delete track level bitmap. See ASTSRDAS below.
		...1		ASTDLALL	"X'10'" Delete all migration table entries and associated track level bitmaps.
		...1 .1..		ASTRCVMG	"X'14'" Assistant subtask has permission to receive and process incoming messages.

Comment

The following information must be supplied by SPOL
post for specific requests:
AST1REQU = ASTCREA (Create migration table and
MIGR$ASST mailbox.
-- ASTCRECV - Create called under direction of
migration assistant recovery.
AST1REQU = ASTINENT (Init migration table entry)
-- ASTALLOC - Indication if MAS member is
allocated to SRC dataset.
-- ASTRECOV - Init has been directed
to perform migration assistant recovery.
MIGR$ASST will be created but not cleared.
If not ASTRECOV -- MIGR$ASST is cleared upon
creation to clean up any stale messages.
-- ASTVOLID - Volume ID
-- ASTSRDAS - Source DAS
-- ASTTRACS - Track bitmap must support this many
tracks.
-- ASTENQTK - ISGENQ token
-- ASTUCBPT - UCB pointer for volume
AST1REQU = ASTDLENT (Delete migr table entry)
-- ASTSRDAS - source DAS

Creation information

End of Comment

1549	(60D)	BITSTRING	1	ASTCRTIN	General creation info
		1...		ASCRRECV	"B'10000000'" Creation called under recovery - do not clear MIGR$ASST

Comment

Initialization and general information

End of Comment

1550	(60E)	BITSTRING	1	ASTSRCST	General init info
		1...		ASTALLOC	"B'10000000'" Member has dataset allocted.
		.1..		ASTRCMSG	"B'01000000'" Assistant subtask has permission to receive incoming messages
1552	(610)	ADDRESS	4	ASTRECOB	Recovery object address
1556	(614)	BITSTRING	32	ASTENQTK	ISGENQ token
1588	(634)	CHARACTER	6	ASTVOLID	Volume ID
1596	(63C)	SIGNED	4	(0)	Alignment
1596	(63C)	ADDRESS	4	ASTUCBPT	UCB address
1600	(640)	ADDRESS	4	ASTSRDAS	Source DAS address
1604	(644)	SIGNED	4	ASTTRACS	Number of tracks for which track level bitmap must support.
1608	(648)	SIGNED	4	ASTTGBYT	Number of TGM bytes in source at migration start
1612	(64C)	BITSTRING	1	ASTSREXT	Source DAS extent number

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

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
		Comment			
		---------- START OF ASMMIGIO Copy of runtime I/O directives. ASMMIGIO must match DASMIGIO in CSA DAS. The following is used to atomically update DASMIGIO during migration phase transitions. WARNING!!! DASMIGIO and ASMMIGIO definitions MUST stay in sync. ----------			
		End of Comment			
1660	(67C)	SIGNED	4	ASMMIGIO (0)	Runtime I/O directives. Area size is denoted by by ASMMIGSZ. This is used to atomically update DASMIGIO during migration phase.
1660	(67C)	BITSTRING	1	ASMFLAG9	Flag 9
		1...		ASM9NMIG	"B'10000000'" Before performing I/O -- runtime must interrogate member track level bitmap. Given a track, if relative bit is on -- then runtime must send an "I/O @Z13LMIG permission request" to @Z13LMIG migrator mailbox RN$<VOLSER>. VOLSER is source DAS - DASVOLID.
		.1..		ASM9MAPD	"B'01000000'" Source DAS is mapped to target and DASMPVAL must used to calculate corresponding track in target.
1661	(67D)	ADDRESS	1	ASMMIGT	Migration transition count informs in-flight I/O of important migration transitions. Captured at start of I/O and compared at I/O end. If count differs the I/O must be e-done. Always captured.
1662	(67E)	BITSTRING	2	ASMMIGR	Reserved
1662	(67E)	X'4'	0	ASMMIGSZ	"*-ASMMIGIO" Length of area which must be atomically updated.
		Comment			
		---------- END OF ASMMIGIO ----------			
		---------- Too make message processing easier - certain data is extracted from messages and put into work variables. ----------			
		End of Comment			
1664	(680)	ADDRESS	4	ASMXREQA	Address of XREQ received
1668	(684)	CHARACTER	16	ASMMKBOX	Mailbox name
1684	(694)	CHARACTER	16	ASMMEMNM	JESXCF member name
1700	(6A4)	BITSTRING	8	ASMXTOKN	Current XCF message token
1708	(6AC)	CHARACTER	6	ASMVOLID	VOLSER extracted from MSG received
1714	(6B2)	BITSTRING	1	ASMEXTNO	DASEXTNO extracted from MSG received
1715	(6B3)	ADDRESS	1	ASMINFO	XREQINFO extracted from MSG
		Comment			
		---------- End of work variables ----------			
		End of Comment			
1716	(6B4)	BITSTRING	1	ASMAILST	Mailbox status
		1...		ASAS_CRT	"B'10000000'" MIGR$ASST has been created
1717	(6B5)	CHARACTER	16	ASMIGRAS	

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
				Comment	
				---------- Migration assistant - spool migration table info: -- One per migration assistant. ----------	
				End of Comment	
1736	(6C8)	ADDRESS	4	ASTTABLE	Address of spool migration table. 253 entries in table. Each table entry may represent a source migrating volume. From a DAS - addressable by DASEXTNO. See $ASSTTAB for table contents.
1740	(6CC)	SIGNED	4	(10)	Reserved for future use
				Comment	
				List form macros for JESXCF services	
				End of Comment	
1784	(6F8)	DBL WORD	8	(0)	Alignment
1784	(6F8)	BITSTRING	160	ASTIXLST	JESXCF list form macros
1944	(798)	DBL WORD	8	ASTIXEND (0)	End of list form area
				Comment	
				------- IXZXIXAC MF=(L,ASTXIXAC) Acknowledge message MACDATE -11/12/03-<1>	
				End of Comment	
0	(0)	X'6F8'	0	M00M1109	"ASTXIXAC" ++ IXZXIXAC NAME
1784	(6F8)	DBL WORD	8	ASTXIXAC (0)	++ IXZXIXAC PARM LIST
1784	(6F8)	BITSTRING	1	ASTXIXAC_XVERSION	++ INPUT XVERSION
1785	(6F9)	CHARACTER	6	ASTXIXAC_XEYECATCH	++ CONSTANT XEYECATCH
1791	(6FF)	BITSTRING	1	ASTXIXAC_XSTB	++ INPUT
		1...		ASTXIXAC_XSTB_NO	"B'10000000'" ++ XSTB.NO KEYWORD
		.1..		ASTXIXAC_XSTB_YES	"B'01000000'" ++ XSTB.YES KEYWORD
1792	(700)	BITSTRING	8	ASTXIXAC_XMSGTOKEN	++ XMSGTOKEN
1800	(708)	ADDRESS	4	ASTXIXAC_XDATA	++ XDATA
1804	(70C)	SIGNED	4	ASTXIXAC_XDATALEN	++ XDATALEN
1808	(710)	SIGNED	4	ASTXIXAC_XUSERRC	++ XUSERRC
1812	(714)	SIGNED	4	ASTXIXAC_XGROUPTOKEN	++ XGROUPTOKEN
1816	(718)	SIGNED	4	ASTXIXAC_XSYSRC	++ XSYSRC
1820	(71C)	SIGNED	4	ASTXIXAC_XSYSRSN	++ XSYSRSN
1824	(720)	BITSTRING	1	ASTXIXAC_XKEYS	++ FIELD_LABEL
		1...		ASTXIXAC_KEYUSED_DATA	"B'10000000'" ++ KEYUSED.DATA KEYWORD
		.1..		ASTXIXAC_KEYUSED_DATALEN	"B'01000000'" ++ KEYUSED.DATALEN KEYWORD
		..1.		ASTXIXAC_KEYUSED_USERRC	"B'00100000'" ++ KEYUSED.USERRC KEYWORD

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
		...1		ASTXIXAC_KEYUSED_SYSRC	"B'00010000'" ++ KEYUSED.SYSRC KEYWORD
		.... 1...		ASTXIXAC_KEYUSED_SYSRSN	"B'00001000'" ++ KEYUSED.SYSRSN KEYWORD
1825	(721)	BITSTRING	1	ASTXIXAC_XMSGATTR	++ INPUT
		1...		ASTXIXAC_XMSGATTR_J3CONNECT	"B'10000000'" ++ XMSGATTR.J3CONNECT KEYWORD
		.1..		ASTXIXAC_XMSGATTR_EXPRESS	"B'01000000'" ++ XMSGATTR.EXPRESS KEYWORD
1825	(721)	X'2A'	0	ASTXIXACL	"*-ASTXIXAC" ++ LENGTH OF PLIST
				Comment	
				IXZXIXAC-1	
				End of Comment	
1826	(722)	ADDRESS	2	(0)	Ensure area fits
				Comment	
				------- IXZXIXMC MF=(L,ASTXIXMC) Clear mailbox MACDATE -93/05/10-<1>	
				End of Comment	
1784	(6F8)	SIGNED	2	M00M1111 (0)	IXZXIXMC-1
1784	(6F8)	DBL WORD	8	ASTXIXMC (0)	++ IXZXIXMC PARM LIST
1784	(6F8)	BITSTRING	1	ASTXIXMC_XVERSION	++ INPUT XVERSION
1785	(6F9)	CHARACTER	6	ASTXIXMC_XEYECATCH	++ CONSTANT XEYECATCH
1791	(6FF)	BITSTRING	1	ASTXIXMC_XSTB	++ INPUT
		1...		ASTXIXMC_XSTB_NO	"B'10000000'" ++ XSTB.NO KEYWORD
		.1..		ASTXIXMC_XSTB_YES	"B'01000000'" ++ XSTB.YES KEYWORD
1792	(700)	CHARACTER	16	ASTXIXMC_XMBOXNAME	++ XMBOXNAME
1808	(710)	SIGNED	4	ASTXIXMC_XGROUPTOKEN	++ XGROUPTOKEN
1808	(710)	X'1C'	0	ASTXIXMCL	"*-ASTXIXMC" ++ LENGTH OF PLIST
				Comment	
				IXZXIXMC-1	
				End of Comment	
1812	(714)	ADDRESS	2	(0)	Ensure area fits
				Comment	
				------- IXZXIXAT MF=(L,ASTXIXAT) Attach group MACDATE -00/01/11-<6>	
				End of Comment	
0	(0)	X'6F8'	0	M00M1112	"ASTXIXAT" ++ IXZXIXAT NAME
1784	(6F8)	DBL WORD	8	ASTXIXAT (0)	++ IXZXIXAT PARM LIST
1784	(6F8)	BITSTRING	1	ASTXIXAT_XVERSION	++ INPUT XVERSION
1785	(6F9)	CHARACTER	6	ASTXIXAT_XEYECATCH	++ CONSTANT
1791	(6FF)	CHARACTER	1	ASTXIXAT_XRSV0001	++ RESERVED

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
1792	(700)	CHARACTER	8	ASTXIXAT_XGROUP	
					++
1800	(708)	CHARACTER	16	ASTXIXAT_XMEMBER	
					++
1816	(718)	CHARACTER	8	ASTXIXAT_XRELEASE	
					++
1824	(720)	SIGNED	4	ASTXIXAT_XMAINTLVL	
					++ CONSTANT
1828	(724)	SIGNED	4	ASTXIXAT_XGROUPTOKEN	
					++
1832	(728)	BITSTRING	1	ASTXIXAT_XFLAG1	
					++ FIELD_LABEL
		1...		ASTXIXAT_XWHICHJES_JES2	
					"B'10000000'" ++ XWHICHJES.JES2 KEYWORD
		.1..		ASTXIXAT_XWHICHJES_JES3	
					"B'01000000'" ++ XWHICHJES.JES3 KEYWORD
		..1.		ASTXIXAT_XWHICHJES_J3FSS	
					"B'00100000'" ++ XWHICHJES.J3FSS KEYWORD
		...1		ASTXIXAT_XWHICHJES_INIT	
					"B'00010000'" ++ XWHICHJES.INIT KEYWORD
		.... 1...		ASTXIXAT_XWHICHJES_COMMON	
					"B'00001000'" ++ XWHICHJES.COMMON KEYWORD
		.... .1..		ASTXIXAT_XWHICHJES_J3CIFSS	
					"B'00000100'" ++ XWHICHJES.J3CIFSS KEYWORD
		.... ..1.		ASTXIXAT_XWHICHJES_J2SPOOL	
					"B'00000010'" ++ XWHICHJES.J2SPOOL KEYWORD
1833	(729)	BITSTRING	1	ASTXIXAT_XFLAG2	
					++ FIELD_LABEL
		1...		ASTXIXAT_XJ3CONNECT_NO	
					"B'10000000'" ++ XJ3CONNECT.NO KEYWORD
		.1..		ASTXIXAT_XJ3CONNECT_YES	
					"B'01000000'" ++ XJ3CONNECT.YES KEYWORD
1834	(72A)	CHARACTER	2	ASTXIXAT_XRSV0002	
					++ RESERVED
1836	(72C)	SIGNED	4	ASTXIXAT_XDIAG	
					++
1840	(730)	CHARACTER	8	ASTXIXAT_XLINKPARMS	
					++ FIELD_LABEL
1840	(730)	X'40'	0	ASTXIXATL	"*-ASTXIXAT" ++ LENGTH OF PLIST

Comment

IXZXIXAT-6

End of Comment

1848	(738)	ADDRESS	2	(0)	Ensure area fits

Comment

------- IXZXIXMB MF=(L,ASTXIXMB) Create mailbox
MACDATE -93/05/10-<1>

End of Comment

1784	(6F8)	SIGNED	2	M00M1113 (0)	IXZXIXMB-1
1784	(6F8)	DBL WORD	8	ASTXIXMB (0)	++ IXZXIXMB PARM LIST
1784	(6F8)	BITSTRING	1	ASTXIXMB_XVERSION	
					++ INPUT XVERSION
1785	(6F9)	CHARACTER	6	ASTXIXMB_XEYECATCH	
					++ CONSTANT XEYECATCH
1791	(6FF)	CHARACTER	1	ASTXIXMB_XRSV0001	
					++ RESERVED XRSV0001
1792	(700)	CHARACTER	16	ASTXIXMB_XMBOXNAME	
					++ XMBOXNAME
1808	(710)	ADDRESS	4	ASTXIXMB_XPOSTXIT	

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
					++ XPOSTXIT
1812	(714)	ADDRESS	4	ASTXIXMB_XPOSTDATA	
					++ XPOSTDATA
1816	(718)	SIGNED	4	ASTXIXMB_XPOSTALET	
					++ XPOSTALET
1820	(71C)	SIGNED	4	ASTXIXMB_XGROUPTOKEN	
					++ XGROUPTOKEN
1824	(720)	BITSTRING	1	ASTXIXMB_XSYSEVENTS	
					++ FIELD_LABEL
		1...		ASTXIXMB_XSYSEVENT_YES	
					"B'10000000'" ++ XSYSEVENT.YES KEYWORD
		.1..		ASTXIXMB_XSYSEVENT_NO	
					"B'01000000'" ++ XSYSEVENT.NO KEYWORD
1824	(720)	X'29'	0	ASTXIXMBL	"*-ASTXIXMB" ++ LENGTH OF PLIST
				Comment	
				IXZXIXMB-1	
				End of Comment	
1826	(722)	ADDRESS	2	(0)	Ensure area fits
				Comment	
				------- IXZXIXMD MF=(L,ASTXIXMD) Delete mailbox MACDATE -93/05/10-<1>	
				End of Comment	
1784	(6F8)	SIGNED	2	M00M1114 (0)	IXZXIXMD-1
1784	(6F8)	DBL WORD	8	ASTXIXMD (0)	++ IXZXIXMD PARM LIST
1784	(6F8)	BITSTRING	1	ASTXIXMD_XVERSION	
					++ INPUT XVERSION
1785	(6F9)	CHARACTER	6	ASTXIXMD_XEYECATCH	
					++ CONSTANT XEYECATCH
1791	(6FF)	BITSTRING	1	ASTXIXMD_XSTB	
					++ INPUT
		1...		ASTXIXMD_XSTB_NO	
					"B'10000000'" ++ XSTB.NO KEYWORD
		.1..		ASTXIXMD_XSTB_YES	
					"B'01000000'" ++ XSTB.YES KEYWORD
1792	(700)	CHARACTER	16	ASTXIXMD_XMBOXNAME	
					++ XMBOXNAME
1808	(710)	SIGNED	4	ASTXIXMD_XGROUPTOKEN	
					++ XGROUPTOKEN
1808	(710)	X'1C'	0	ASTXIXMDL	"*-ASTXIXMD" ++ LENGTH OF PLIST
				Comment	
				IXZXIXMD-1	
				End of Comment	
1812	(714)	ADDRESS	2	(0)	Ensure area fits
				Comment	
				------- IXZXIXDT MF=(L,ASTXIXDT) Detach group MACDATE -00/02/02-<1>	
				End of Comment	
0	(0)	X'6F8'	0	M00M1115	"ASTXIXDT" ++ IXZXIXDT NAME
1784	(6F8)	DBL WORD	8	ASTXIXDT (0)	++ IXZXIXDT PARM LIST
1784	(6F8)	BITSTRING	1	ASTXIXDT_XVERSION	
					++ INPUT XVERSION
1785	(6F9)	CHARACTER	6	ASTXIXDT_XEYECATCH	

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
					++ CONSTANT XEYECATCH
1791	(6FF)	CHARACTER	1	ASTXIXDT_XRSV0001	
					++ RESERVED XRSV0001
1792	(700)	ADDRESS	4	ASTXIXDT_XGROUPTOKEN	
					++ XGROUPTOKEN
1796	(704)	CHARACTER	8	ASTXIXDT_XLINKPARMS	
					++ FIELD_LABEL XLINKPARMS
1796	(704)	X'14'	0	ASTXIXDTL	"*-ASTXIXDT" ++ LENGTH OF PLIST
				Comment	
				IXZXIXDT-1	
				End of Comment	
1804	(70C)	ADDRESS	2	(0)	Ensure area fits
				Comment	
				------- IXZXIXSM MF=(L,ASTXIXSM) Send message MACDATE -10/16/01-<2>	
				End of Comment	
0	(0)	X'6F8'	0	M00M1116	"ASTXIXSM" ++ IXZXIXSM NAME
1784	(6F8)	DBL WORD	8	ASTXIXSM (0)	++ IXZXIXSM PARM LIST
1784	(6F8)	BITSTRING	1	ASTXIXSM_XVERSION	
					++ INPUT XVERSION
1785	(6F9)	CHARACTER	6	ASTXIXSM_XEYECATCH	
					++ CONSTANT XEYECATCH
1791	(6FF)	BITSTRING	1	ASTXIXSM_XMSGATTR	
					++ INPUT
		1...		ASTXIXSM_XMSGATTR_J3CONNECT	
					"B'10000000'" ++ XMSGATTR.J3CONNECT KEYWORD
		.1..		ASTXIXSM_XMSGATTR_EXPRESS	
					"B'01000000'" ++ XMSGATTR.EXPRESS KEYWORD
1792	(700)	CHARACTER	16	ASTXIXSM_XMBOXNAME	
					++ XMBOXNAME
1808	(710)	CHARACTER	16	ASTXIXSM_XMEMBER	
					++ XMEMBER
1824	(720)	ADDRESS	4	ASTXIXSM_XDATA	
					++ XDATA
1828	(724)	SIGNED	4	ASTXIXSM_XDATALEN	
					++ XDATALEN
1832	(728)	BITSTRING	8	ASTXIXSM_XREQTOKEN	
					++ XREQTOKEN
1840	(730)	CHARACTER	16	ASTXIXSM_XREQMBOX	
					++ XREQMBOX
1856	(740)	SIGNED	4	ASTXIXSM_XDATAALET	
					++ XDATAALET
1860	(744)	SIGNED	4	ASTXIXSM_XRESPDALT	
					++ XRESPDALT
1864	(748)	SIGNED	4	ASTXIXSM_XECB	
					++ XECB
1868	(74C)	SIGNED	4	ASTXIXSM_XEXIT	
					++ XEXIT
1872	(750)	BITSTRING	8	ASTXIXSM_XCONNECT	
					++ XCONNECT
1880	(758)	SIGNED	4	ASTXIXSM_XGROUPTOKEN	
					++ XGROUPTOKEN
1884	(75C)	SIGNED	4	ASTXIXSM_XUSERRC	
					++ XUSERRC
1888	(760)	SIGNED	4	ASTXIXSM_XRESPDATA	
					++ XRESPDATA
1892	(764)	SIGNED	4	ASTXIXSM_XRESPDLEN	
					++ XRESPDLEN

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
1896	(768)	CHARACTER	4	ASTXIXSM_XRSV00001	++ RESERVED XRSV00001
1900	(76C)	BITSTRING	8	ASTXIXSM_XMSGTOKEN	++ XMSGTOKEN
1908	(774)	SIGNED	4	ASTXIXSM_XRIPSIZE	++ XRIPSIZE
1912	(778)	BITSTRING	1	ASTXIXSM_XREQTYPE	++ INPUT
		1...		ASTXIXSM_XREQTYPE_ASYNC	"B'10000000'" ++ XREQTYPE.ASYNC KEYWORD
		.1..		ASTXIXSM_XREQTYPE_SYNC	"B'01000000'" ++ XREQTYPE.SYNC KEYWORD
		..1.		ASTXIXSM_XREQTYPE_ASYNCACK	"B'00100000'" ++ XREQTYPE.ASYNCACK KEYWORD
		...1		ASTXIXSM_XREQTYPE_COMM	"B'00010000'" ++ XREQTYPE.COMM KEYWORD
1913	(779)	BITSTRING	1	ASTXIXSM_XSEGTYPE	++ INPUT
		1...		ASTXIXSM_XSEGTYPE_SINGLE	"B'10000000'" ++ XSEGTYPE.SINGLE KEYWORD
		.1..		ASTXIXSM_XSEGTYPE_FIRST	"B'01000000'" ++ XSEGTYPE.FIRST KEYWORD
		..1.		ASTXIXSM_XSEGTYPE_MIDDLE	"B'00100000'" ++ XSEGTYPE.MIDDLE KEYWORD
		...1		ASTXIXSM_XSEGTYPE_LAST	"B'00010000'" ++ XSEGTYPE.LAST KEYWORD
		.... 1...		ASTXIXSM_XSEGTYPE_ABORT	"B'00001000'" ++ XSEGTYPE.ABORT KEYWORD
1914	(77A)	BITSTRING	1	ASTXIXSM_XKEYS	++ FIELD_LABEL
		1...		ASTXIXSM_KEYUSED_REQTYPE	"B'10000000'" ++ KEYUSED.REQTYPE KEYWORD
		.1..		ASTXIXSM_KEYUSED_REQTOKEN	"B'01000000'" ++ KEYUSED.REQTOKEN KEYWORD
		..1.		ASTXIXSM_KEYUSED_REQMBOX	"B'00100000'" ++ KEYUSED.REQMBOX KEYWORD
		...1		ASTXIXSM_KEYUSED_EXIT	"B'00010000'" ++ KEYUSED.EXIT KEYWORD
		.... 1...		ASTXIXSM_KEYUSED_SEGTYPE	"B'00001000'" ++ KEYUSED.SEGTYPE KEYWORD
		.... .1..		ASTXIXSM_KEYUSED_CONNECT	"B'00000100'" ++ KEYUSED.CONNECT KEYWORD
		.... ..1.		ASTXIXSM_KEYUSED_MSGTOKEN	"B'00000010'" ++ KEYUSED.MSGTOKEN KEYWORD
		1		ASTXIXSM_KEYUSED_MSGATTR	"B'00000001'" ++ KEYUSED.MSGATTR KEYWORD
1915	(77B)	BITSTRING	1	ASTXIXSM_XKEYS1	++ FIELD_LABEL
		1...		ASTXIXSM_KEYUSED_ECB	"B'10000000'" ++ KEYUSED.ECB KEYWORD
		.1..		ASTXIXSM_KEYUSED_DATAALET	"B'01000000'" ++ KEYUSED.DATAALET KEYWORD
		..1.		ASTXIXSM_KEYUSED_RELEASE_CADS	"B'00100000'" ++ KEYUSED.RELEASE_CADS KEYWORD
		...1		ASTXIXSM_KEYUSED_RIPSIZE	"B'00010000'" ++ KEYUSED.RIPSIZE KEYWORD
1915	(77B)	X'84'	0	ASTXIXSML	"*-ASTXIXSM" ++ LENGTH OF PLIST

Comment

IXZXIXSM-2

End of Comment

1916	(77C)	ADDRESS	2	(0)	Ensure area fits

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
			Comment		
------- IXZXIXRM MF=(L,ASTXIXRM) Receive message MACDATE -93/05/10-<1>					
			End of Comment		
1784	(6F8)	SIGNED	2	M00M1117 (0)	IXZXIXRM-1
1784	(6F8)	DBL WORD	8	ASTXIXRM (0)	++ IXZXIXRM PARM LIST
1784	(6F8)	BITSTRING	1	ASTXIXRM_XVERSION	
					++ INPUT XVERSION
1785	(6F9)	CHARACTER	6	ASTXIXRM_XEYECATCH	
					++ CONSTANT XEYECATCH
1791	(6FF)	CHARACTER	1	ASTXIXRM_XRSV0001	
					++ RESERVED XRSV0001
1792	(700)	CHARACTER	16	ASTXIXRM_XMBOXNAME	
					++ XMBOXNAME
1808	(710)	ADDRESS	4	ASTXIXRM_XDATA	
					++ XDATA
1812	(714)	SIGNED	4	ASTXIXRM_XDATALEN	
					++ XDATALEN
1816	(718)	BITSTRING	8	ASTXIXRM_XMSGTOKEN	
					++ XMSGTOKEN
1824	(720)	SIGNED	4	ASTXIXRM_XGROUPTOKEN	
					++ XGROUPTOKEN
1828	(724)	BITSTRING	1	ASTXIXRM_XMSGFETCH	
					++ INPUT
		1...		ASTXIXRM_XMSGFETCH_ALL	
					"B'10000000'" ++ XMSGFETCH.ALL KEYWORD
		.1..		ASTXIXRM_XMSGFETCH_MESSAGES	
					"B'01000000'" ++ XMSGFETCH.MESSAGES KEYWORD
		..1.		ASTXIXRM_XMSGFETCH_SYSEVENT	
					"B'00100000'" ++ XMSGFETCH.SYSEVENT KEYWORD
		...1		ASTXIXRM_XMSGFETCH_ACKS	
					"B'00010000'" ++ XMSGFETCH.ACKS KEYWORD
1829	(725)	BITSTRING	1	ASTXIXRM_XKEYS	
					++ FIELD_LABEL
		1...		ASTXIXRM_KEYUSED_MSGFETCH	
					"B'10000000'" ++ KEYUSED.MSGFETCH KEYWORD
1829	(725)	X'2E'	0	ASTXIXRML	"*-ASTXIXRM" ++ LENGTH OF PLIST
			Comment		
		IXZXIXRM-1			
			End of Comment		
1830	(726)	ADDRESS	2	(0)	Ensure area fits
1944	(798)	X'608'	0	ASTCLEAR	"ASTSTART" Area to be zeroed
1944	(798)	X'190'	0	ASTLLEN	"*-DTEWORK" Length of work area

$DTEASST Cross Reference

Name	Hex Offset	Hex Value
ASAS_CRT	6B4	80
ASATTACH	658	8
ASCRRECV	60D	80
ASECBLST	65C	
ASMAILST	6B4	
ASMEXTNO	6B2	
ASMFLAG9	67C	
ASMIGRAS	6B5	E2E8E2D1
ASMINFO	6B3	
ASMMEMNM	694	
ASMMIGIO	67C	
ASMMIGR	67E	0
ASMMIGSZ	67E	4
ASMMIGT	67D	
ASMMKBOX	684	
ASMSBTAS	654	
ASMSENDA	678	
ASMTGSTT	650	
ASMVOLID	6AC	
ASMXBUFA	670	
ASMXBUFL	674	
ASMXREQA	680	
ASMXTOKN	6A4	
ASM9MAPD	67C	40
ASM9NMIG	67C	80
ASTALLOC	60E	80
ASTCLEAR	798	608
ASTCREA	60C	4
ASTCRTIN	60D	
ASTDLALL	60C	10
ASTDLENT	60C	C
ASTENQTK	614	
ASTINIT	60C	8
ASTIXEND	798	
ASTIXLST	6F8	
ASTLLEN	798	190
ASTMBOX	664	
ASTMBOXP	660	
ASTRCMSG	60E	40
ASTRCVMG	60C	14
ASTRECOB	610	
ASTSRCST	60E	
ASTSRDAS	640	
ASTSREXT	64C	
ASTSTART	608	
ASTSTSPL	608	
ASTTABLE	6C8	
ASTTGBYT	648	
ASTTRACS	644	
ASTUCBPT	63C	
ASTVOLID	634	40404040
ASTWRKA	668	0
ASTXIXAC	6F8	
ASTXIXAC_KEYUSED_DATA	720	80
ASTXIXAC_KEYUSED_DATALEN	720	40
ASTXIXAC_KEYUSED_SYSRC	720	10
ASTXIXAC_KEYUSED_SYSRSN	720	8
ASTXIXAC_KEYUSED_USERRC	720	20
ASTXIXAC_XDATA	708	
ASTXIXAC_XDATALEN	70C	
ASTXIXAC_XEYECATCH	6F9	
ASTXIXAC_XGROUPTOKEN	714	
ASTXIXAC_XKEYS	720	
ASTXIXAC_XMSGATTR	721	
ASTXIXAC_XMSGATTR_EXPRESS	721	40
ASTXIXAC_XMSGATTR_J3CONNECT	721	80
ASTXIXAC_XMSGTOKEN	700	
ASTXIXAC_XSTB	6FF	
ASTXIXAC_XSTB_NO	6FF	80
ASTXIXAC_XSTB_YES	6FF	40
ASTXIXAC_XSYSRC	718	
ASTXIXAC_XSYSRSN	71C	
ASTXIXAC_XUSERRC	710	
ASTXIXAC_XVERSION	6F8	
ASTXIXACL	721	2A
ASTXIXAT	6F8	
ASTXIXAT_XDIAG	72C	
ASTXIXAT_XEYECATCH	6F9	
ASTXIXAT_XFLAG1	728	
ASTXIXAT_XFLAG2	729	
ASTXIXAT_XGROUP	700	
ASTXIXAT_XGROUPTOKEN	724	
ASTXIXAT_XJ3CONNECT_NO	729	80
ASTXIXAT_XJ3CONNECT_YES	729	40
ASTXIXAT_XLINKPARMS	730	
ASTXIXAT_XMAINTLVL	720	
ASTXIXAT_XMEMBER	708	
ASTXIXAT_XRELEASE	718	
ASTXIXAT_XRSV0001	6FF	
ASTXIXAT_XRSV0002	72A	
ASTXIXAT_XVERSION		

Name	Hex Offset	Hex Value
	6F8	
ASTXIXAT_XWHICHJES_COMMON		
	728	8
ASTXIXAT_XWHICHJES_INIT		
	728	10
ASTXIXAT_XWHICHJES_JES2		
	728	80
ASTXIXAT_XWHICHJES_JES3		
	728	40
ASTXIXAT_XWHICHJES_J2SPOOL		
	728	2
ASTXIXAT_XWHICHJES_J3CIFSS		
	728	4
ASTXIXAT_XWHICHJES_J3FSS		
	728	20
ASTXIXATL	730	40
ASTXIXDT	6F8	
ASTXIXDT_XEYECATCH		
	6F9	
ASTXIXDT_XGROUPTOKEN		
	700	
ASTXIXDT_XLINKPARMS		
	704	
ASTXIXDT_XRSV0001		
	6FF	
ASTXIXDT_XVERSION		
	6F8	
ASTXIXDTL	704	14
ASTXIXMB	6F8	
ASTXIXMB_XEYECATCH		
	6F9	
ASTXIXMB_XGROUPTOKEN		
	71C	
ASTXIXMB_XMBOXNAME		
	700	
ASTXIXMB_XPOSTALET		
	718	
ASTXIXMB_XPOSTDATA		
	714	
ASTXIXMB_XPOSTXIT		
	710	
ASTXIXMB_XRSV0001		
	6FF	
ASTXIXMB_XSYSEVENT_NO		
	720	40
ASTXIXMB_XSYSEVENT_YES		
	720	80
ASTXIXMB_XSYSEVENTS		
	720	
ASTXIXMB_XVERSION		
	6F8	
ASTXIXMBL	720	29
ASTXIXMC	6F8	
ASTXIXMC_XEYECATCH		
	6F9	
ASTXIXMC_XGROUPTOKEN		
	710	
ASTXIXMC_XMBOXNAME		
	700	
ASTXIXMC_XSTB		
	6FF	
ASTXIXMC_XSTB_NO		
	6FF	80
ASTXIXMC_XSTB_YES		
	6FF	40

Name	Hex Offset	Hex Value
ASTXIXMC_XVERSION		
	6F8	
ASTXIXMCL	710	1C
ASTXIXMD	6F8	
ASTXIXMD_XEYECATCH		
	6F9	
ASTXIXMD_XGROUPTOKEN		
	710	
ASTXIXMD_XMBOXNAME		
	700	
ASTXIXMD_XSTB		
	6FF	
ASTXIXMD_XSTB_NO		
	6FF	80
ASTXIXMD_XSTB_YES		
	6FF	40
ASTXIXMD_XVERSION		
	6F8	
ASTXIXMDL	710	1C
ASTXIXRM	6F8	
ASTXIXRM_KEYUSED_MSGFETCH		
	725	80
ASTXIXRM_XDATA		
	710	
ASTXIXRM_XDATALEN		
	714	
ASTXIXRM_XEYECATCH		
	6F9	
ASTXIXRM_XGROUPTOKEN		
	720	
ASTXIXRM_XKEYS		
	725	
ASTXIXRM_XMBOXNAME		
	700	
ASTXIXRM_XMSGFETCH		
	724	
ASTXIXRM_XMSGFETCH_ACKS		
	724	10
ASTXIXRM_XMSGFETCH_ALL		
	724	80
ASTXIXRM_XMSGFETCH_MESSAGES		
	724	40
ASTXIXRM_XMSGFETCH_SYSEVENT		
	724	20
ASTXIXRM_XMSGTOKEN		
	718	
ASTXIXRM_XRSV0001		
	6FF	
ASTXIXRM_XVERSION		
	6F8	
ASTXIXRML	725	2E
ASTXIXSM	6F8	
ASTXIXSM_KEYUSED_CONNECT		
	77A	4
ASTXIXSM_KEYUSED_DATAALET		
	77B	40
ASTXIXSM_KEYUSED_ECB		
	77B	80
ASTXIXSM_KEYUSED_EXIT		
	77A	10
ASTXIXSM_KEYUSED_MSGATTR		
	77A	1
ASTXIXSM_KEYUSED_MSGTOKEN		
	77A	2
ASTXIXSM_KEYUSED_RELEASE_CADS		

Name	Hex Offset	Hex Value
	77B	20
ASTXIXSM_KEYUSED_REQMBOX		
	77A	20
ASTXIXSM_KEYUSED_REQTOKEN		
	77A	40
ASTXIXSM_KEYUSED_REQTYPE		
	77A	80
ASTXIXSM_KEYUSED_RIPSIZE		
	77B	10
ASTXIXSM_KEYUSED_SEGTYPE		
	77A	8
ASTXIXSM_XCONNECT		
	750	
ASTXIXSM_XDATA		
	720	
ASTXIXSM_XDATAALET		
	740	
ASTXIXSM_XDATALEN		
	724	
ASTXIXSM_XECB		
	748	
ASTXIXSM_XEXIT		
	74C	
ASTXIXSM_XEYECATCH		
	6F9	
ASTXIXSM_XGROUPTOKEN		
	758	
ASTXIXSM_XKEYS		
	77A	
ASTXIXSM_XKEYS1		
	77B	
ASTXIXSM_XMBOXNAME		
	700	
ASTXIXSM_XMEMBER		
	710	
ASTXIXSM_XMSGATTR		
	6FF	
ASTXIXSM_XMSGATTR_EXPRESS		
	6FF	40
ASTXIXSM_XMSGATTR_J3CONNECT		
	6FF	80
ASTXIXSM_XMSGTOKEN		
	76C	
ASTXIXSM_XREQMBOX		
	730	
ASTXIXSM_XREQTOKEN		
	728	
ASTXIXSM_XREQTYPE		
	778	
ASTXIXSM_XREQTYPE_ASYNC		
	778	80
ASTXIXSM_XREQTYPE_ASYNCACK		
	778	20
ASTXIXSM_XREQTYPE_COMM		
	778	10
ASTXIXSM_XREQTYPE_SYNC		
	778	40
ASTXIXSM_XRESPDALT		
	744	
ASTXIXSM_XRESPDATA		
	760	
ASTXIXSM_XRESPDLEN		
	764	
ASTXIXSM_XRIPSIZE		
	774	
ASTXIXSM_XRSV00001		
	768	
ASTXIXSM_XSEGTYPE		
	779	
ASTXIXSM_XSEGTYPE_ABORT		
	779	8
ASTXIXSM_XSEGTYPE_FIRST		
	779	40
ASTXIXSM_XSEGTYPE_LAST		
	779	10
ASTXIXSM_XSEGTYPE_MIDDLE		
	779	20
ASTXIXSM_XSEGTYPE_SINGLE		
	779	80
ASTXIXSM_XUSERRC		
	75C	
ASTXIXSM_XVERSION		
	6F8	
ASTXIXSML	77B	84
AST1NORE	60C	0
AST1REQU	60C	
ASWORKP	65C	
AS1BMERR	658	10
AS1ERABN	658	80
AS1ERFL1	658	
AS1MAILE	658	40
AS1TBERR	658	20
DTE	0	
M00M1109	0	6F8
M00M1111	6F8	
M00M1112	0	6F8
M00M1113	6F8	
M00M1114	6F8	
M00M1115	0	6F8
M00M1116	0	6F8
M00M1117	6F8	

$DTECKCF Information

$DTECKCF Heading Information

Common Name: HASP Checkpoint on CF DTE work area
Macro ID: $DTECKCF
DSECT Name: DTE ($DTECKCF is part of the DTE DSECT)
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: 'DTE '
Offset: DTEID-DTE
Length: 4
Storage Attributes: Subpool: see $DTE
Key: see $DTE
Residency: see $DTE
Size: See the DTELEN equate for the length of the base DTE, and the DCCFLEN equate for the length of a checkpoint on CF DTE work area extension.
Created by: Created by $DTEDYN ATTACH during JES2 CKPT data set allocation. The subtask (and DTE) definitions are defined by the $DTETAB definitions.
Pointed to by: The $DTECKCF field of the $HCT data area points into $DTEORG/$DTELAST chain to the checkpoint on CF subtask DTEs.
See $DTE for other pointer fields that apply to all DTE types.
Serialization: Serialized by the JES2 main task. Only one request may be processed at one time.
Function: The HASP Checkpoint on CF Subtask DTE work area, $DTECKCF, defines the $DTE work area extension for that subtask. The mapping defines the fields after label DTEWORK.

This subtask interfactes between JES2 and the XES CF support. Each subtask manages the requests for a single CF. They are attached when the checkpoint is allocated (at connect time) and detached when the CF is no longer needed (at checkpoint unallocate). A subtask is used to limit the impact of XES suspending the reqester of a service or terminating the connector of a CF.

$DTECKCF Map

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	0	DTE	HASP Checkpoint on CF subtask work area ext.
1544	(608)	SIGNED	4	DCCFEECB	Event ECB
1552	(610)	DBL WORD	8	(0)	Ensure alignment
1552	(610)	X'8'	0	DCCFLEN	"*-DTEWORK" Length of work area

$DTECKVR Information

$DTECKVR Heading Information

Common Name: HASP Checkpoint Version DTE work area
Macro ID: $DTECKVR
DSECT Name: DTE ($DTECKVR is part of the DTE DSECT)
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: 'DTE '
Offset: DTEID-DTE
Length: 4
Storage Attributes: Subpool: see $DTE
Key: see $DTE
Residency: see $DTE
Size: See the DTELEN equate for the length of the base DTE, and the DCKVLEN equate for the length of a checkpoint version DTE work area extension.
Created by: n/a
Created by $DTEDYN ATTACH during JES2 initialization. The subtask (and DTE) definitions are defined by the $DTETAB definitions.
Pointed to by: The $DTECKVR field of the $HCT data area points into $DTEORG/$DTELAST chain to the checkpoint versions DTE.
See $DTE for other pointer fields that apply to all DTE types.
Serialization: Serialized by the JES2 main task. Only one request may be processed at one time.
Function: The HASP Checkpoint Version/APPLCOPY Subtask DTE work area, $DTECKVR, defines the $DTE work area extension for that subtask. The mapping defines the fields after label DTEWORK.

This subtask maintains one or more versions of the checkpoint data set for use by authorized programs. When attached, it determines which of the two modes of checkpoint maintenance are in operation. In a Checkpoint Version, a data space is established and versions are created and maintained. In an Application Copy (APPLCOPY), the checkpoint is serviced in extended common or private storage. Both types are serviced by the same subtask.

$DTECKVR Map

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

$DTECNV Information

$DTECNV Programming Interface information

Programming Interface information

$DTECNV

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

- DCNVDEBS

End of Programming Interface information

$DTECNV Heading Information

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

There are one or more JCL-conversion processors, defined by $PCE control blocks, in a JES2 address space. Each one attaches a subtask. The JES2 $DTEDYN service used for the ATTACH creates a DTE, mapped by the $DTE macro, with a function-specific extension, mapped by this macro. The DTE is the general control block used by JES2 to manage and communicate with its daughter tasks.

$DTECNV Map

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	0	DTE	HASP CONVERSION SUBTASK WORK AREA
1544	(608)	ADDRESS	4	DCNVHCCT	HCCT address
1548	(60C)	ADDRESS	4	DCNVCIP	CIPARM parm area address
1552	(610)	SIGNED	4	DCNVCIPL	and ALET to access
1556	(614)	ADDRESS	4	DCNVCIW	31 bit CI work area address
1560	(618)	ADDRESS	4	DCNVCIWB	24 bit CI work area address
1564	(61C)	ADDRESS	4	DCNVCICB	CICB for owning addr space (zero if JES2 subtask)
1568	(620)	SIGNED	4	DCNVSAVE (15)	ESTAE REGISTER SAVE AREA
1628	(65C)	ADDRESS	4	DCNVSJBP	ADDRESS OF CONVERSION TASK SJB
1628	(65C)	X'58'	0	DCNVLEN	"*-DTEWORK" LENGTH OF THE CNVT DTE DSECT

$DTECNV Cross Reference

Name	Hex Offset	Hex Value
DCNVCICB	61C	
DCNVCIP	60C	
DCNVCIPL	610	
DCNVCIW	614	
DCNVCIWB	618	
DCNVHCCT	608	
DCNVLEN	65C	58
DCNVSAVE	620	
DCNVSJBP	65C	
DTE	0	

$DTEEOM Information

$DTEEOM Heading Information

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

This subtask deals with SJBs on the End-of-Memory queue. JES2 resource cleanup is performed here. The SJB is placed on the work queue for this DTE by MVS EOM SSI support.

$DTEEOM Map

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

$DTEIMG Information

$DTEIMG Programming Interface information

Programming Interface information

$DTEIMG

End of Programming Interface information

$DTEIMG Heading Information

Common Name: HASPIMAG subtask DTE Work Area
Macro ID: $DTEIMG
DSECT Name: DTE ($DTEIMG is part of the DTE DSECT)
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: 'DTE '
Offset: DTEID-DTE
Length: 4
Storage Attributes: Subpool: See $DTE
Key: See $DTE
Residency: See $DTE
Size: See the DTELEN equate for the length of the base DTE, and DIMGLEN for the length of a HASPIMAG subtask DTE extension.
Created by: Created by $DTEDYN ATTACH during JES2 initialization. The subtask (and DTE) definitions are defined by the $DTETAB definitions.
Pointed to by: DIMG origin begins at the DTE work area extension field DTEWORK. The HASPIMAG DTE chain head ($DTEIMAG) is located in the HCT. See $DTE for other pointer fields that apply to all DTE types.
Serialization: This work area is used serially by the HASPIMAG subtask. No special serialization is necessary.
Function: $DTEIMG maps DTE work area extension for HASPIMAG subtasks.
The mapping defines the fields after label DTEWORK.

$DTEIMG Map

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	0	DTE	HASPIMAG DTE WORK AREA EXTENSION
1544	(608)	CHARACTER	8	DIMGNAME	NAME OF LOADED MODULE
1544	(608)	X'60B'	0	DIMGBYT3	"DIMGNAME+3" IMAGE NAME PREFIX BYTE
1552	(610)	SIGNED	4	DIMGDCB	ADDRESS OF IMAGELIB DCB
1556	(614)	SIGNED	4	DIMGBFAD	BUFFER ADDRESS FOR ESTAE
1560	(618)	SIGNED	4	DIMGABCC	ABEND COMP CODE FOR RETRY
1564	(61C)	SIGNED	4	DIMGSDCB	ADDRESS OF PRT DCB FOR SETPRT
1568	(620)	CHARACTER	80	DIMGMSG	MESSAGE AREA
1648	(670)	BITSTRING	1	DIMGFLG1	IMAGE LOADER FLAG BYTE
1652	(674)	ADDRESS	4	DIMGLOAD	ADDRESS OF EP OR DE PARAMETER
1656	(678)	ADDRESS	4		DCB ADDRESS PARAMETER
1660	(67C)	ADDRESS	1		PARAMETER LIST FORMAT NUMBER
1661	(67D)	ADDRESS	1		RESERVED
1662	(67E)	BITSTRING	1		OPTIONS
1663	(67F)	BITSTRING	1		OPTIONS
1664	(680)	ADDRESS	4		EXPLICIT LOAD, LOADPT, EXTINFO
1664	(680)	X'10'	0	DIMGLLEN	"*-DIMGLOAD" Length of parm list
		1...		DIMG1ABD	"B'10000000'" IMAGE LOADER ABEND FLAG
		.1..		DIMG1DEL	"B'01000000'" DELETE RTN FLAG IN ESTAE
1664	(680)	X'7C'	0	DIMGLEN	"*-DTEWORK" LENGTH OF WORK AREA

$DTEIMG Cross Reference

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

$DTEMIGR Information

$DTEMIGR Heading Information

Common Name: HASP Spool Migrator DTE Work Area
Macro ID: $DTEMIGR
DSECT Name: DTE ($DTEMIGR is part of the DTE DSECT)
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: 'DTE '
Offset: DTEID-DTE
Length: 4
Storage Attributes: Subpool: See $DTE
Key: See $DTE
Residency: See $DTE
Size: See the DTELEN equate for the length of the base DTE, and MGRLLEN for the length of a Spool Migrator Work Area DTE Extension.
Created by: Created by $DTEDYN ATTACH during JES2 spool migration. The subtask (and DTE) definitions are defined by the $DTETAB definitions.
Pointed to by: The $DTEMIG field of the $HCT data area points into $DTEORG/$DTELAST chain to the first HOSMIGR DTE. See $DTE for other pointer fields that apply to all DTE types.
Serialization: This work area is used serially by the owning HOSMIGR subtask. No special serialization is necessary at this time.
Function: The Spool Migrator DTE work area DSECT, $DTEMIGR, defines a work area used a JES2 Spool Migrator Subtask (HOSMIGR).
The mapping defines the fields after label DTEWORK.
This mapping is only used to map DTEs with the value DTEIDMGR in the field DTESTID, indicating this DTE is a Spool Migrator Subtask DTE.

$DTEMIGR Map

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

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
					Comment
					SPOL PCE drives the migration: Migration request flag - only set by SPOL PCE The SPOL PCE waits for the following operations to complete. Each should be very quick. -- Migration initialization -- Migration cancel start -- Migration un-initiation but not: -- Perform phase 1 (SPOL PCE monitors completion) -- Perform phase 2 " " " -- Migration cancel (SPOL PCE monitors completion)
					End of Comment
1548	(60C)	BITSTRING	1	MGR1REQU	Migration request
		....		MGR1NORE	"X'00'" No active request
		.... .1..		MGR1INIT	"X'04'" Migration initialization
		.... 1...		MGR1PHA1	"X'08'" Perform phase 1
		.... 11..		MGR1PHA2	"X'0C'" Perform phase 2
		...1		MGR1UNIN	"X'10'" Migration un-initialization
		...1 .1..		MGR1CANC	"X'14'" Migration cancel
					Comment
					Subtask error flag 1: Set by migrator subtask. for interpretation by SPOL PCE.
					End of Comment
1549	(60D)	BITSTRING	1	MG1ERFL1	Subtask error flag 1 - set by subtask for SPOL information/action.
		1...		MG1ERABN	"B'10000000'" Sub-task ABENDed
		.1..		MG1MGBAD	"B'01000000'" MG$VOLSER mailbox could not be created.
		..1.		MG1RNBAD	"B'00100000'" RN$VOLSER mailbox could not be created.
		...1		MG1BITMB	"B'00010000'" Track level bitmap(s) could not be created.
		.... 1...		MGATTACH	"B'00001000'" Attach of unique XCF group failed.
					Comment
					HOSPMIGR subtask waits on a ECBLIST. This subtask has the responsibility of moving data from source to target. The ECBs in the list funnel both: -- Requests made of the subtask (via SPOL PCE) -- and acknowledgements of requests which the HOSPMIGR subtask has outstanding. This subtask is driven by the SPOL PCE and the migration state kept in the source DAS. Start of ECB list
					End of Comment
1552	(610)	SIGNED	4	MGECBLST (0)	List of ECBs to wait on
1552	(610)	ADDRESS	4	MGSPOLP	Address of work ECB. Handles posts/requests from SPOL PCE.
1556	(614)	SIGNED	4	MGECBLS2 (0)	Start ECB for cancel
1556	(614)	ADDRESS	4	MGGENERP	Address of ECB for general timer. Posted when set time interval expires.
1560	(618)	ADDRESS	4	MGHEARTP	Address of ECB for heart beat timer. Used to broadcast migrator info on a timely basis and check for excessive waits.
1564	(61C)	ADDRESS	4	MGMGVOLP	Address of ECB for JESXCF mail box notification. This ECB is posted when mail arrives from spool assistant subtasks. Mail box name - MG$VOLSER.

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
1568	(620)	ADDRESS	4	MGRNVOLP	Address of ECB for JESXCF mail box notification. This ECB is posted when mail arrives from MAS member runtime I/O. Mailbox name - RN$VOLSER.
1572	(624)	ADDRESS	4	MGRNIOP	Address of ECB for I/O I/O completion processing. This ECB is posted when a call to MIGRCOPY is needed.
1576	(628)	ADDRESS	4	MGRNXRQP	Address of ECB for I/O permission completion. This ECB is posted when an XREQ is added to the completed XREQ queue.
				Comment	
		End of ECB list			
				End of Comment	
1580	(62C)	BITSTRING	4	MGRNOCMP	Current "memb active table" used to track acknowledgements from migration assistant members. Used to track ACKS for following phase transitions. -- Start phase 1 -- Start phase 2 -- End migration -- Cancel migration
1584	(630)	BITSTRING	4	MGRMGSTS	Current "memb active table" used to broadcast migr status message to migration assistants
1588	(634)	BITSTRING	4	MGACTCPY	Copy of original "member @Z21AQ active table" used to @Z21AQ broadcast messages to migration assistants. Used for DIAG.
1592	(638)	SIGNED	4	MGEXITID	Unique exit ID for $MSTNTFY service
				Comment	
		HOSPMIGR timer stuff			
				End of Comment	
1596	(63C)	SIGNED	4	MGGENERE	ECB - Phase 1 and cancel general purpose timer
1600	(640)	SIGNED	4	MGGENEID	STIMERM ID=id-area of general purpose timer
1604	(644)	SIGNED	4	MGHEARTE	ECB - Heart beat timer
1608	(648)	SIGNED	4	MGHEARID	STIMERM ID=id-area of heart beat timer
				Comment	
		End timer stuff			
				End of Comment	
1612	(64C)	SIGNED	4	(0)	Ensure alignment
1616	(650)	DBL WORD	8	MGRWRKA	Work area 1
1624	(658)	SIGNED	4	MGRWRKB	Work area 2
1628	(65C)	ADDRESS	4	MGSRMOBJ	Temporary holding area for migration object address
				Comment	
		---------- Following is used to cut selective WTO when source and/or target datasets are lost during phase 1 or phase 2 processing. ----------			
				End of Comment	
1632	(660)	BITSTRING	1	MGPATHL	Path lost indicator
		1...		MGPATHS	"B'10000000'" Path to SRC dataset lost
		.1..		MGPATHT	"B'01000000'" Path to TARG dataset lost
		..1.		MGPRERR	"B'00100000'" Recovery TLBM read error
		...1		MGPWTLB	"B'00010000'" TLBM write error
1633	(661)	BITSTRING	3		Reserved for future use

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

				Excessive wait accumalator - 1/100 sec granularity	

				End of Comment	
1636	(664)	SIGNED	2	MGEWAIT	Wait time
1638	(666)	BITSTRING	2		Reserved for future use
1640	(668)	SIGNED	4	(7)	Reserved for future use
				Comment	
				Migration specific information (General info)	
				End of Comment	
1668	(684)	BITSTRING	1	MGRFLG3	Migration specifics
		1...		MGR3MER	"B'10000000'" Migration is a merge
		.1..		MGR3MOV	"B'01000000'" Migration is a move
		..1.		MGRNOCA	"B'00100000'" Migration cannot be cancelled.
		...1		MGR3CANC	"B'00010000'" Migration is being cancelled.
		.... 1...		MGR3CACK	"B'00001000'" Cancel ACK has been recv'ed from all assistants.
				Comment	

				Phase 1 status flags - phase 1 is complete when all conditions are satisfied.	

				End of Comment	
1669	(685)	BITSTRING	1	MGRFLG4	Phase 1 status flags
		1...		MGR4COPY	"B'10000000'" Source to target copy is complete
		.1..		MGR4PH1A	"B'01000000'" All migration assistants have acknowledge start of phase 1 processing
		..1.		MGR4WAIS	"B'00100000'" Subtask requested cancel - either I/O error or not able to obtain storage (24, 31 or 64). See MGRSERR below.
				Comment	

				Phase 2 status flags - phase 2 is complete when all conditions are satisfied.	

				End of Comment	
1670	(686)	BITSTRING	1	MGRFLG5	Phase 2 status flags
		1...		MGR5PH2A	"B'10000000'" All migration assistants have acknowledged start of phase 2 processing
		.1..		MGR5CATC	"B'01000000'" Source to target catchup is complete
		..1.		MGR5COMP	"B'00100000'" All migration assistants have acknowledged successfuli migration completion.
		...1		MGR5CLER	"B'00010000'" RN$VOLSER mailbox has been cleared in SMGPHAS2 and/or SMGCANCE subroutine.
		.... 1...		MGR5WAIT	"B'00001000'" Phase 2 final wait is complete.
		.... .1..		MGR5WAIS	"B'00000100'" Subtask requested cancel - either I/O error or not able to obtain storage (24, 31 or 64). See MGRSERR below.
		.... ..1.		MGR5TSET	"B'00000010'" Phase 2 final timer has been set.
		1		MGR5TLBM	"B'00000001'" TLBM has been written

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
				Comment	
		---------- Phase 2 status flag - second status flag all conditions are satisfied. ----------			
				End of Comment	
1671	(687)	BITSTRING	1	MGRFLG52	Phase 2 - second status flg
		1...		MGR52PER	"B'10000000'" Permanent I/O error was was encountered and WTOR presented to operator. ForceConplete was selected so do not ask user again.
		.1..		MGR5CACK	"B'01000000'" Phase 2 was called in recovery/resume mode and determined migation is not cancellable. Phase 2 resumes operation
				Comment	
		---------- Cancellation status flags - cancellation is complete when all conditions are satisfied. ----------			
				End of Comment	
1672	(688)	BITSTRING	1	MGRFLG6	Phase 1 status flags
		1...		MGR6TSET	"B'10000000'" Cancel final timer has been set.
1673	(689)	BITSTRING	1	MGRPERCE	Percent complete
				Comment	
		Source dataset information -- Set by SPOL PCE after HOSPMIGR is attached and before subtask initiation request. -- Move and merge.			
				End of Comment	
1674	(68A)	CHARACTER	6	MGRSRVOL	Source volser
1680	(690)	BITSTRING	1	MGRSREXT	Binary extent number
1684	(694)	SIGNED	4	(0)	Ensure alignment
1684	(694)	BITSTRING	1	MGRSRDEB	Source DEB
1684	(694)	X'694'	0	MGRSRDBB	"MGRSRDEB,DEBBASIZ" DEB basic
1684	(694)	X'6B4'	0	MGRSRDBE	"MGRSRDEB+DEBBASIZ,DEBEXLEN" Single DA extent
1732	(6C4)	BITSTRING	64	MGRSRRPS	RPS Table for source
1796	(704)	ADDRESS	4	MGRSRDAS	Source DAS address
				Comment	
		Bitmap information for source dataset. -- The following fields are set during subtask initiation. -- Valid for move and merge. Bitmaps. - Phase 1 bitmap denotes which tracks need be migrated from source to target. Bitmap is primed by with used tracks by SPOl PCE in DAS7SET2 (move) or DAS7SET3 (merge). This map is used for initial source to target copy. 1 bit -> 1 track. - Runtime bitmap - used to tally which tracks have changed since the migration begin. Map is used in phase 2 in determining which tracks must be re-migrated or caught up.					
				End of Comment	

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
1800	(708)	DBL WORD	8	(0)	Ensure alignment
1800	(708)	ADDRESS	8	MGRSBITA	Address of phase 1 bitmap in 64 bit private.
1808	(710)	ADDRESS	8	MGRSBITB	Address of runtime bitmap in 64 bit private.
1816	(718)	SIGNED	4	MGRSBTRK	Track capacity of bitmap
1820	(71C)	SIGNED	4	MGRSBITR	Number of records needed to store the track level bitmap (MGRSBITB)
1824	(720)	SIGNED	4	MGRNUMRQ	Total number of tracks which must be migrated for this migration.
1828	(724)	SIGNED	4	MGRNUMMG	Number of tracks that have been migrated
1832	(728)	SIGNED	4	MGRMIGRC	Number of tracks required on target dataset to house master level bitmap and other migrator recovery data.
1836	(72C)	SIGNED	4	MGRSBTAS	Relative track at which the track level bitmap starts on target volume
1840	(730)	ADDRESS	4	MGRBMHDR	Header areas for runtime bitmap (one entry per record written to SPOOL)
1844	(734)	SIGNED	4	MGRBMHDL	Length of MGRBMHDR workarea

Comment

Source dataset track level information.
All fields are relevant for move and merge.

End of Comment

1848	(738)	SIGNED	4	(0)	Ensure alignment
1848	(738)	SIGNED	4	MGASRCST	Absolute track at which source dataset starts. Set by SPOL PCE in DAS7SET2 OR DAS7SET3. Valid for absolute and relative addressing.
1852	(73C)	SIGNED	4	MGRSRCST	Relative track at which source dataset starts. Set by SPOL PCE in DAS7SET2 OR DAS7SET3. Only valid if source DAS is using relative addressing.
1856	(740)	SIGNED	4	MGASRCHI	Highwater track - last ABSOLUTE source track which needs to be written. Set by SPOL PCE in DAS7SET2 OR DAS7SET3. Valid for absolute and relative addressing.
1860	(744)	SIGNED	4	MGRSRTRK	Number of tracks required to house source dataset - up to highwater mark. Set by SPOL PCE in DAS7SET2 or DAS7SET3.
1864	(748)	SIGNED	4	MGRSRTRC	Tracks per cylinder

Comment

Source DAS TG information - Move and Merge

End of Comment

1868	(74C)	SIGNED	4	MGRSRBYT	Original number of source TGM bytes.
1872	(750)	SIGNED	4	MGRHITG	Source DAS TG associated with highwater mark.

Comment

Source DAS record level information - Move and merge.

End of Comment

1876	(754)	SIGNED	4	MGRSRECT	Number of records per track

Comment

Other source dataset information

End of Comment

1880	(758)	BITSTRING	1	MGRSRINF	Info
		1...		MGRALLOC	"B'10000000'" Migrator allocated SRC DAS dataset in phase DAS7SET1. Will need to be deallocated in phase DAS7CLUP (backout or non-backout caller). Set by SPOL PCE during phase DAS7SET1.

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
		.1..		MGRSRREL	"B'01000000'" Source DAS addressing type is relative. If not set then type is absolute.
		..1.		MGRSECKD	"B'00100000'" Extent is on ECKD device
		...1		MGRSRDTD	"B'00010000'" Extent supports read track data CCW
		.... 1...		MGRSWTRD	"B'00001000'" Extent supports write track data CCW
		Comment			
		Following fields are used if the source dataset must be deallocated in phase DAS7CLU1. This would be required if the source DAS was inactive state. This state is denoted by MGRSRINF = MGRALLOC.			
		End of Comment			
1881	(759)	BITSTRING	32	MGRENQTK	ISGENQ token - Set by SPOL PCE - phase DAS7SET1.
1916	(77C)	SIGNED	4	(0)	Ensure alignment
		Comment			
		End of source dataset information Target dataset information -- Move and merge. SPOL PCE sets all target information before phase 1 start. Set at size verification time in phase DAS7SET2 or DAS7SET3.			
		End of Comment			
1916	(77C)	CHARACTER	6	MGRTGVOL	Target volser. Set by SPOL PCE after HOSPMIGR is attached.
1922	(782)	BITSTRING	1	MGRTGEXT	BINARY EXTENT NUMBER
1924	(784)	SIGNED	4	(0)	Ensure alignment DATA CONTROL BLOCK
1924	(784)	SIGNED	4	MGRDCBMF (0)	ORIGIN ON WORD BOUNDARY DIRECT ACCESS DEVICE INTERFACE
1924	(784)	ADDRESS	4		DCBE ADDRESS
1928	(788)	BITSTRING	12		FDAD, DVTBL
1940	(794)	ADDRESS	4		KEYLEN, DEVT, TRBAL COMMON ACCESS METHOD INTERFACE
1944	(798)	ADDRESS	1		BUFNO, NUMBER OF BUFFERS
1945	(799)	ADDRESS	3		BUFCB, BUFFER POOL CONTROL BLOCK
1948	(79C)	ADDRESS	2		BUFL, BUFFER LENGTH
1950	(79E)	BITSTRING	2		DSORG, DATA SET ORGANIZATION
1952	(7A0)	ADDRESS	4		IOBAD FOR EXCP OR RESERVED FOUNDATION EXTENSION
1956	(7A4)	BITSTRING	1		BFTEK, BFALN, DCBE INDICATORS
1957	(7A5)	ADDRESS	3		EODAD (END OF DATA ROUTINE ADDRESS)
1960	(7A8)	BITSTRING	1		RECFM (RECORD FORMAT)
1961	(7A9)	ADDRESS	3		EXLST (EXIT LIST ADDRESS) FOUNDATION BLOCK
1964	(7AC)	CHARACTER	8		DDNAME
1972	(7B4)	BITSTRING	1		OFLGS (OPEN FLAGS)
1973	(7B5)	BITSTRING	1		IFLGS (IOS FLAGS)
1974	(7B6)	BITSTRING	2		MACR (MACRO FORMAT)
		Comment			
		DATA CONTROL BLOCK EXTENSION.			
		End of Comment			
1976	(7B8)	SIGNED	4	MGRDCBE (0)	0 Alignment and identifier
1980	(7BC)	SIGNED	2		4 Length of DCBE, minimum is 56
1982	(7BE)	BITSTRING	2		6 Reserved, should be zero
1984	(7C0)	ADDRESS	4		8 0 if not open, OPEN points to DCB
1988	(7C4)	BITSTRING	4		C Disk address of current member
1992	(7C8)	BITSTRING	1		10 Flags set by system
1993	(7C9)	BITSTRING	1		11 Flags set by user
1994	(7CA)	SIGNED	2		12 Number of stripes if extended format

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
1996	(7CC)	BITSTRING	1		14 Flags set by user
1997	(7CD)	BITSTRING	3		15 Reserved
2000	(7D0)	BITSTRING	4		18 Reserved
2004	(7D4)	ADDRESS	4		1C Block size
2008	(7D8)	BITSTRING	8		20 Reserved & number of blocks in ds
2016	(7E0)	ADDRESS	4		28 End of data routine address or 0
2020	(7E4)	ADDRESS	4		2C I/O error routine (synchronous) or 0
2024	(7E8)	BITSTRING	6		30 Reserved, should be zero
2030	(7EE)	ADDRESS	1	(2)	36 MULTACC and MULTSDN

Comment

SHORTEST POSSIBLE DCBE IN ANY RELEASE.

End of Comment

2030	(7EE)	X'784'	0	MGRDCB	"MGRDCBMF,*-MGRDCBMF" DCB/DCBE length
2032	(7F0)	BITSTRING	1	MGRTGDEB	Target DEB. Set by SPOL PCE when available.
2032	(7F0)	X'7F0'	0	MGRTGDBB	"MGRTGDEB,DEBBASIZ" DEB basic
2032	(7F0)	X'810'	0	MGRTGDBE	"MGRTGDEB+DEBBASIZ,DEBEXLEN" Single DA extent
2080	(820)	BITSTRING	64	MGRTGRPS	RPS Table for this device Set by SPOL PCE when available.

Comment

Target dataset track level information.
All fields are relevant for move and merge.

End of Comment

2144	(860)	SIGNED	4	MGATGSTR	Absolute track at which target dataset starts. Set by SPOL PCE in DAS7SET2 OR DAS7SET3.
2148	(864)	SIGNED	4	MGATGWRT	Absolute track at which to write data. Set by SPOL PCE in DAS7SET2 OR DAS7SET3.
2152	(868)	SIGNED	4	MGRTGWRT	Relative track at which to write data. Set by SPOL PCE in DAS7SET2 or DAS7SET3.
2156	(86C)	SIGNED	4	MGRTGTRK	Number of tracks in target dataset. Set by SPOL PCE in DAS7SET2 or DAS7SET3.
2160	(870)	SIGNED	4	MGRTGTRC	Tracks per cylinder
2164	(874)	SIGNED	4	MGRTDAST	Target DASSTRK value

Comment

Target TGM information

End of Comment

2168	(878)	SIGNED	4	MGATGTTG	Tracks per TG. Set by SPOL PCE in DAS7SET2 or DAS7SET3. Valid for move and merge.
2172	(87C)	SIGNED	4	MGRTGTG	Number of TGs in target
2176	(880)	SIGNED	4	MGRTGBYT	Number of bytes in target TGM. Only move.
2180	(884)	SIGNED	4	MGRTGSTT	Start TG reserved in target DAS TGM for pending migration. This is one based. Valid for merge only.
2184	(888)	SIGNED	4	MGRTGENT	End TG reserved in target DAS TGM for pending migration. This is one one based. Valid for merge only.

Comment

Target DAS record level information - Move and merge.

End of Comment

2188	(88C)	SIGNED	4	MGRTRECT	Number of records per track

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
		Comment			
		Other target dataset information			
		End of Comment			
2192	(890)	BITSTRING	1	MGRTGINF	Info
		1...		MGRTECKD	"B'10000000'" Extent is on ECKD device
		.1..		MGRTRDTD	"B'01000000'" Extent supports read track data CCW
		..1.		MGRTWTRD	"B'00100000'" Extent supports write track data CCW
		...1		MGRTSRPS	"B'00010000'" Device supports RPS
		Comment			
		End of target dataset information Migration recovery section - these fields are set by MIGRRECV (Migration recovery) and DADMSET1 in recovery mode. MIGRRECV calls DADMSET1 to jump start the recovery. Mailbox discussion: MG$VOLSER and RN$VOLSER - Normal migration - when creating mailboxes - both are cleared to assure we don't pickup stale messages. - Recovery -- FULL-RECOVERY (see below). This would be single member warm OR hot start. Here we do not clear these mailboxes since our member was the original migrator. -- MIGRATOR-RECOVERY (see below). Our member is becoming the migrator on behalf of another member. Such as migrator-takeover. Here we clear the mailboxes to assure no stale messages.			
		End of Comment			
2193	(891)	BITSTRING	1	MGRRECOV	Info
		1...		MGMEMREC	"B'10000000'" Migration recovery is being performed.
		.1..		MGMEMCAN	"B'01000000'" Recovery action is to cancel current phase - represented by SRC DAS7PHAS.
		..1.		MGFULL	"B'00100000'" FULL-RECOVERY. Given source DAS - our member becomes migrator and our migration assistant is also initialized.
		...1		MGMIGRAT	"B'00010000'" MIGRATOR-RECOVERY. Given source DAS our member becomes migrator. Our migration assistant is OK.
		.... 1...		MGASSIST	"B'00001000'" ASSISTANT-RECOVERY. Given source DAS just recover our migration assistant
		.... .1..		MGABEND	"B'00000100'" Migrator DTE ABEND recovery
		Comment			
		End - Migration recovery section Subtask status --- If subtask I/O error - them MGRSERR is set so SPOL PCE subroutine DADMPHA1 or DASMPHA2 may cut the appropriate message. ---			
		End of Comment			
2194	(892)	BITSTRING	1	MGRSERR	Phase 1-2 subtask error id

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
					Comment
					Migration subtask work state. MGR3TSTAT is current work being performed by the subtask - this is more granular than MGR1REQU. Some of these states may be materializable via the $DSPL command. Only set by the subtask and may be interpeted by SPOL PCE. Some general statements here: need not be repeated below: -- When subtask sends messages to migration assistants the MGMECUR - current members up table is used on the broadcast meesage. -- The MIGR$ASST mailbox is used to send broadcast messages to migration assistant subtask(s). -- When waiting for ACKS from spool assistant subtask -- the migration subtask waits on MG$VOLSER mailbox.
					End of Comment
2195	(893)	BITSTRING	1	MGR3STAT	Current subtask work state
		....		MGR3NOST	"X'00'" No active state.
		.... .1..		MGR3INIT	"X'04'" Migration initiation: Migration subtask is creating source level track bitmaps, MG$VOLSER and RN$VOLSER mailboxes.
		.... 1...		MGR3AWP1	"X'08'" Migration initiation complete -- awaiting start of phase 1 from SPOL PCE.
		.... 11..		MGR3AW01	"X'0C'" Phase 1: start Broadcast phase 1 start message to all migration assistants. Actively handling I/O permission requests.
		...1		MGR3COPY	"X'10'" Phase 1: copy All phase 1 ACKs were received. Performing source to target dataset copy. Actively handling I/O permission requests.
		...1 .1..		MGR3AWP2	"X'14'" Subtask has completed phase 1 and is waiting for start of phase 2. SPOL PCE will eventually request phase 2 start. Subtask is still actively processing "IO permission" requests
		...1 1...		MGR3PER2	"X'18'" Phase 2: Cancellable Broadcast phase 2 start message to all migration assistants. Waiting ACKs. Not processing I/O permission messages.
		...1 11..		MGR3PERN	"X'1C'" Phase 2: Non-cancellable All ACKs received - subtask is performing copy catch-up and handling I/O permission messages.
		..1.		MGR3ENDR	"X'20'" Migration end message has been broadcast to all assistants - waiting ACKs. I/O permission messages handled.
		..1. .1..		MGR3ENDC	"X'24'" Migration end complete Subtask waiting for request from SPOL PCE.
		..1. 1...		MGR3REQC	"X'28'" Migrator has run into an error and migration must be cancelled. Awaiting SPOL PCE to inititate cancel.
		..1. 11..		MGR3CNCL	"X'2C'" Migration cancel msg has been broadcast to all assistants - waiting ACKs. I/O permission messages handled.
		..11		MGR3CNCM	"X'30'" Migration cancellation complete. Subtask waiting for request from SPOL PCE.
		..11 .1..		MGR3P2CM	"X'34'" Phase2 complete
		..11 1...		MGR3UNIT	"X'38'" Migration termination: Track bitmaps, MG$VOLSER and RN$VOLSER mailboxes are deallocated.
					Comment
					End Subtask status Migration copy service work areas
					End of Comment
2200	(898)	ADDRESS	8	MGRIBUFR	Address of buffer work area
2208	(8A0)	DBL WORD	8	MGRIBUFP	Number of 4K pages in area
2216	(8A8)	DBL WORD	8	MGRIWTKN	IARV64 memory token

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
2224	(8B0)	SIGNED	4	MGRIBUFC	Number of buffers built
2228	(8B4)	SIGNED	4	MGRI31WL	Length of 31 bit CCW area
2232	(8B8)	ADDRESS	4	MGRI24WK	24 bit I/O work area
2236	(8BC)	BITSTRING	1	MGRIFLG1	Migration copy I/O flags
		1...		MGRI1SRC	"B'10000000'" I/O error on source
		.1..		MGRI1TRG	"B'01000000'" I/O error on target
2237	(8BD)	BITSTRING	3		Reserved

Comment

Buffers move from the free chain, to the active read chain when EXCP read is started. When read completed they are moved to the pending write chain. Once the the EXCP write is started, the buffer moves to the write chain. Once the write completes it is returned to the free chain.

End of Comment

2240	(8C0)	ADDRESS	8	MGRIFREE	Free track buffers
2248	(8C8)	ADDRESS	8	MGRIREAD	Active read buffers
2256	(8D0)	ADDRESS	8	MGRIPEND	Pending write buffers
2264	(8D8)	ADDRESS	8	MGRIWRIT	Active write buffers
2272	(8E0)	ADDRESS	4	MGRIBATI	Address of BAT(s) for read
2276	(8E4)	ADDRESS	4	MGRIBATO	Address of BAT(s) for write
2280	(8E8)	ADDRESS	8	MGRIBITM	Current bit map to use
2288	(8F0)	SIGNED	4	MGRILTRK	Last track read (-1=>done)
2296	(8F8)	DBL WORD	8	MGRIWORK	General work area
2304	(900)	SIGNED	4	MGRIECB	I/O request ECB (Call MIGRCOPY when posted)

Comment

Write track level bitmap (MIGRTLBW) work areas

End of Comment

2308	(904)	ADDRESS	4	MGRWBSTR	Work area used by service
2312	(908)	SIGNED	4	MGRWBSTL	Length of work area

Comment

I/O permission XREQ queues
New XREQs permission requests should be added to MGRIXRQW using $FIFOENQ (CHAIN=XRETCHAN-XREQ). These are pocessed by MIGRCOPY (moved to the MGRIXRQA stack while active). Once the I/O completes, the XREQs are added to the MGRIXRQC and MGRIXRQE ECB is posted. XREQs on the MGRIXRQC queue should be removed with $FIFODEQ (CHAIN=XRETCHAN-XREQ) and ACKed using JESXCF.

End of Comment

2320	(910)	DBL WORD	8	MGRIXRQW (0)	XREQs pending
2320	(910)	ADDRESS	4	MGRIXRQF	chain
2324	(914)	ADDRESS	4	MGRIXRQB	(managed by $FIFOENQ)
2328	(918)	ADDRESS	4	MGRIXRQA	XREQs active in I/O
2336	(920)	DBL WORD	8	MGRIXRQC (0)	Completed XREQ
2336	(920)	ADDRESS	4	MGRIXRCF	chain
2340	(924)	ADDRESS	4	MGRIXRCB	(managed by $FIFOENQ)
2344	(928)	SIGNED	4	MGRIXRQE	Completed XREQ ECB

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
		Comment			
		Mailbox information: MG$VOLSER: Spool migration mail box - handles ACKS from migrations subtasks and also other information sent during phase 1 and 2. Note: VOLSER uniquely ties this mailbox to a migration. One per migration. --- RN$VOLSER: Runtime mailbox - RN$VOLSER -- Handles runtime "IO permission" requests in phase 1 and 2. Note: VOLSER uniquely identifies this mailbox from a migration perspective.			
		End of Comment			
2348	(92C)	BITSTRING	1	MGMAILST	Mailbox info
		1...		MGMG_CRT	"B'10000000'" MG$VOLSER has been created
		.1..		MGRN_CRT	"B'01000000'" RN$VOLSER has been created
		..1.		MGATTH	"B'00100000'" Migrator performed attach of unique XCF group and must also perform detach
2349	(92D)	CHARACTER	16	MGMGVOLS	Note: last 6 characters must be volser name.
2365	(93D)	CHARACTER	16	MGRNTIME	Note: last 6 characters must be volser name.
2381	(94D)	CHARACTER	8	MGGROUP	Note: migration XCF group name. Note: XXX is source DASEXTNO in printable decimal.
2389	(955)	CHARACTER	16	MGRMEMNM	Member name - used for attach of XCF group
2408	(968)	SIGNED	4	MGJDIAG	JESXCF service diag area
2412	(96C)	ADDRESS	4	MGGRPTKN	JESXCF group token used for MG$VOLSER and RN$VOLSER mailbox creation
2416	(970)	SIGNED	4	MGRBOX1	ECB - MG$VOLSER mailbox.
2420	(974)	SIGNED	4	MGRBOX2	ECB - RN$VOLSER mailbox.
2424	(978)	ADDRESS	4	MGRSENDA	Address of send buffer used for $XBCAST and also "I/O permission" message ACK response.
2428	(97C)	SIGNED	4	MGRSENDL	Length of message to send
2432	(980)	ADDRESS	4	MGRXBUFA	Address of received data
2436	(984)	SIGNED	4	MGRXBUFL	Received message length
2440	(988)	ADDRESS	4	MGRASSSN	Address of send buffer for MIGR$ASST mailbox.
2444	(98C)	SIGNED	4	MGR#IOCM	When subroutine SMGIOPER is called this is the maximum number of I/O permission messages to process.
2448	(990)	ADDRESS	1	MGRBTYPE	Broadcast type See $XREQ - XREQINFO XREQPHA1 - phase 1 start XREQPHA2 - phase 2 start XREQCNCL - cancel complete XREQEND - end migration
2456	(998)	DBL WORD	8	MGRXTOKN	Current XCF message token
		Comment			
		MACDATE = 08/19/88			
		End of Comment			
2464	(9A0)	BITSTRING	24	MGRSTMST	REMOTE STIMERM SET PARM LIST
2464	(9A0)	X'18'	0	MGRSTMSL	"*-MGRSTMST" List form length
		Comment			
		--- Input parameters for SPMINIFM (mapped by SFMPARM in HASPSPOL) ---			
		End of Comment			
2488	(9B8)	BITSTRING	1	MGRMFPRM	SPMINIFM parameter list

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
				Comment	
		Migration timing/count statistics Phase specific times (micro-seconds) and counts			
				End of Comment	
2520	(9D8)	DBL WORD	8	MGRTINTT	Init phase time (micro)
2528	(9E0)	DBL WORD	8	MGRTSETT	Setup phase time (micro)
2536	(9E8)	DBL WORD	8	MGRTCPYT	Copy phase time (micro)
2544	(9F0)	SIGNED	4	MGRTCPYC	Copy phase track count
2548	(9F4)	SIGNED	4	MGRTCPYM	Copy phase message count
2552	(9F8)	DBL WORD	8	MGRTCUPT	Catchup phase time (micro)
2560	(A00)	SIGNED	4	MGRTCUPC	Catchup phase track count
2564	(A04)	SIGNED	4	MGRTCUPM	Catchup phase message count
2568	(A08)	DBL WORD	8	MGRTCLNT	Cleanup phase time (micro)
2576	(A10)	DBL WORD	8	MGRTNEWT	STCK time migration started
2584	(A18)	DBL WORD	8	MGRTOVRT	Overall time for migration (SMCNEW to success msg)
2592	(A20)	DBL WORD	8	MGRTSTRT (2)	Current phase start STCKE
2608	(A30)	SIGNED	4	MGRTMSGC	I/O permission msg count
2612	(A34)	SIGNED	4		Reserved
				Comment	
		List form macros for JESXCF and other services			
				End of Comment	
2616	(A38)	DBL WORD	8	(0)	
2616	(A38)	BITSTRING	200	MGRIXLST	JESXCF list form macros
2816	(B00)	DBL WORD	8	MGRIXEND (0)	End of list form area
				Comment	
		------- IXZXIXAT MF=(L,MGRXIXAT) Attach group MACDATE -00/01/11-<6>			
				End of Comment	
0	(0)	X'A38'	0	M00M1120	"MGRXIXAT" ++ IXZXIXAT NAME
2616	(A38)	DBL WORD	8	MGRXIXAT (0)	++ IXZXIXAT PARM LIST
2616	(A38)	BITSTRING	1	MGRXIXAT_XVERSION	++ INPUT XVERSION
2617	(A39)	CHARACTER	6	MGRXIXAT_XEYECATCH	++ CONSTANT
2623	(A3F)	CHARACTER	1	MGRXIXAT_XRSV0001	++ RESERVED
2624	(A40)	CHARACTER	8	MGRXIXAT_XGROUP	++
2632	(A48)	CHARACTER	16	MGRXIXAT_XMEMBER	++
2648	(A58)	CHARACTER	8	MGRXIXAT_XRELEASE	++
2656	(A60)	SIGNED	4	MGRXIXAT_XMAINTLVL	++ CONSTANT
2660	(A64)	SIGNED	4	MGRXIXAT_XGROUPTOKEN	++
2664	(A68)	BITSTRING	1	MGRXIXAT_XFLAG1	++ FIELD_LABEL
		1...		MGRXIXAT_XWHICHJES_JES2	"B'10000000'" ++ XWHICHJES.JES2 KEYWORD
		.1..		MGRXIXAT_XWHICHJES_JES3	"B'01000000'" ++ XWHICHJES.JES3 KEYWORD
		..1.		MGRXIXAT_XWHICHJES_J3FSS	"B'00100000'" ++ XWHICHJES.J3FSS KEYWORD
		...1		MGRXIXAT_XWHICHJES_INIT	

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
					"B'00010000'" ++ XWHICHJES.INIT KEYWORD
		.... 1...		MGRXIXAT_XWHICHJES_COMMON	
					"B'00001000'" ++ XWHICHJES.COMMON KEYWORD
		.... .1..		MGRXIXAT_XWHICHJES_J3CIFSS	
					"B'00000100'" ++ XWHICHJES.J3CIFSS KEYWORD
		.... ..1.		MGRXIXAT_XWHICHJES_J2SPOOL	
					"B'00000010'" ++ XWHICHJES.J2SPOOL KEYWORD
2665	(A69)	BITSTRING	1	MGRXIXAT_XFLAG2	
					++ FIELD_LABEL
		1...		MGRXIXAT_XJ3CONNECT_NO	
					"B'10000000'" ++ XJ3CONNECT.NO KEYWORD
		.1..		MGRXIXAT_XJ3CONNECT_YES	
					"B'01000000'" ++ XJ3CONNECT.YES KEYWORD
2666	(A6A)	CHARACTER	2	MGRXIXAT_XRSV0002	
					++ RESERVED
2668	(A6C)	SIGNED	4	MGRXIXAT_XDIAG	
					++
2672	(A70)	CHARACTER	8	MGRXIXAT_XLINKPARMS	
					++ FIELD_LABEL
2672	(A70)	X'40'	0	MGRXIXATL	"*-MGRXIXAT" ++ LENGTH OF PLIST

Comment

IXZXIXAT-6

End of Comment

2680	(A78)	ADDRESS	2	(0)	Ensure area fits

Comment

------- IXZXIXAC MF=(L,MGRXIXAC) Acknowledge message
MACDATE -11/12/03-<1>

End of Comment

0	(0)	X'A38'	0	M00M1122	"MGRXIXAC" ++ IXZXIXAC NAME
2616	(A38)	DBL WORD	8	MGRXIXAC (0)	++ IXZXIXAC PARM LIST
2616	(A38)	BITSTRING	1	MGRXIXAC_XVERSION	
					++ INPUT XVERSION
2617	(A39)	CHARACTER	6	MGRXIXAC_XEYECATCH	
					++ CONSTANT XEYECATCH
2623	(A3F)	BITSTRING	1	MGRXIXAC_XSTB	
					++ INPUT
		1...		MGRXIXAC_XSTB_NO	
					"B'10000000'" ++ XSTB.NO KEYWORD
		.1..		MGRXIXAC_XSTB_YES	
					"B'01000000'" ++ XSTB.YES KEYWORD
2624	(A40)	BITSTRING	8	MGRXIXAC_XMSGTOKEN	
					++ XMSGTOKEN
2632	(A48)	ADDRESS	4	MGRXIXAC_XDATA	
					++ XDATA
2636	(A4C)	SIGNED	4	MGRXIXAC_XDATALEN	
					++ XDATALEN
2640	(A50)	SIGNED	4	MGRXIXAC_XUSERRC	
					++ XUSERRC
2644	(A54)	SIGNED	4	MGRXIXAC_XGROUPTOKEN	
					++ XGROUPTOKEN
2648	(A58)	SIGNED	4	MGRXIXAC_XSYSRC	
					++ XSYSRC
2652	(A5C)	SIGNED	4	MGRXIXAC_XSYSRSN	
					++ XSYSRSN
2656	(A60)	BITSTRING	1	MGRXIXAC_XKEYS	
					++ FIELD_LABEL
		1...		MGRXIXAC_KEYUSED_DATA	
					"B'10000000'" ++ KEYUSED.DATA KEYWORD

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
		.1..		MGRXIXAC_KEYUSED_DATALEN	"B'01000000'" ++ KEYUSED.DATALEN KEYWORD
		..1.		MGRXIXAC_KEYUSED_USERRC	"B'00100000'" ++ KEYUSED.USERRC KEYWORD
		...1		MGRXIXAC_KEYUSED_SYSRC	"B'00010000'" ++ KEYUSED.SYSRC KEYWORD
		.... 1...		MGRXIXAC_KEYUSED_SYSRSN	"B'00001000'" ++ KEYUSED.SYSRSN KEYWORD
2657	(A61)	BITSTRING	1	MGRXIXAC_XMSGATTR	++ INPUT
		1...		MGRXIXAC_XMSGATTR_J3CONNECT	"B'10000000'" ++ XMSGATTR.J3CONNECT KEYWORD
		.1..		MGRXIXAC_XMSGATTR_EXPRESS	"B'01000000'" ++ XMSGATTR.EXPRESS KEYWORD
2657	(A61)	X'2A'	0	MGRXIXACL	"*-MGRXIXAC" ++ LENGTH OF PLIST
				Comment	
				IXZXIXAC-1	
				End of Comment	
2658	(A62)	ADDRESS	2	(0)	Ensure area fits
				Comment	
				------- IXZXIXMC MF=(L,MGRXIXMC) Clear mailbox MACDATE -93/05/10-<1>	
				End of Comment	
2658	(A62)	SIGNED	2	M00M1123 (0)	IXZXIXMC-1
2664	(A68)	DBL WORD	8	MGRXIXMC (0)	++ IXZXIXMC PARM LIST
2664	(A68)	BITSTRING	1	MGRXIXMC_XVERSION	++ INPUT XVERSION
2665	(A69)	CHARACTER	6	MGRXIXMC_XEYECATCH	++ CONSTANT XEYECATCH
2671	(A6F)	BITSTRING	1	MGRXIXMC_XSTB	++ INPUT
		1...		MGRXIXMC_XSTB_NO	"B'10000000'" ++ XSTB.NO KEYWORD
		.1..		MGRXIXMC_XSTB_YES	"B'01000000'" ++ XSTB.YES KEYWORD
2672	(A70)	CHARACTER	16	MGRXIXMC_XMBOXNAME	++ XMBOXNAME
2688	(A80)	SIGNED	4	MGRXIXMC_XGROUPTOKEN	++ XGROUPTOKEN
2688	(A80)	X'1C'	0	MGRXIXMCL	"*-MGRXIXMC" ++ LENGTH OF PLIST
				Comment	
				IXZXIXMC-1	
				End of Comment	
2692	(A84)	ADDRESS	2	(0)	Ensure area fits
				Comment	
				------- IXZXIXMB MF=(L,MGRXIXMB) Create mailbox MACDATE -93/05/10-<1>	
				End of Comment	
2616	(A38)	SIGNED	2	M00M1124 (0)	IXZXIXMB-1
2616	(A38)	DBL WORD	8	MGRXIXMB (0)	++ IXZXIXMB PARM LIST
2616	(A38)	BITSTRING	1	MGRXIXMB_XVERSION	++ INPUT XVERSION

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
2617	(A39)	CHARACTER	6	MGRXIXMB_XEYECATCH	++ CONSTANT XEYECATCH
2623	(A3F)	CHARACTER	1	MGRXIXMB_XRSV0001	++ RESERVED XRSV0001
2624	(A40)	CHARACTER	16	MGRXIXMB_XMBOXNAME	++ XMBOXNAME
2640	(A50)	ADDRESS	4	MGRXIXMB_XPOSTXIT	++ XPOSTXIT
2644	(A54)	ADDRESS	4	MGRXIXMB_XPOSTDATA	++ XPOSTDATA
2648	(A58)	SIGNED	4	MGRXIXMB_XPOSTALET	++ XPOSTALET
2652	(A5C)	SIGNED	4	MGRXIXMB_XGROUPTOKEN	++ XGROUPTOKEN
2656	(A60)	BITSTRING	1	MGRXIXMB_XSYSEVENTS	++ FIELD_LABEL
		1...		MGRXIXMB_XSYSEVENT_YES	"B'10000000'" ++ XSYSEVENT.YES KEYWORD
		.1..		MGRXIXMB_XSYSEVENT_NO	"B'01000000'" ++ XSYSEVENT.NO KEYWORD
2656	(A60)	X'29'	0	MGRXIXMBL	"*-MGRXIXMB" ++ LENGTH OF PLIST

Comment

IXZXIXMB-1

End of Comment

2658	(A62)	ADDRESS	2	(0)	Ensure area fits

Comment

------- IXZXIXMD MF=(L,MGRXIXMD) Delete mailbox
MACDATE -93/05/10-<1>

End of Comment

2616	(A38)	SIGNED	2	M00M1125 (0)	IXZXIXMD-1
2616	(A38)	DBL WORD	8	MGRXIXMD (0)	++ IXZXIXMD PARM LIST
2616	(A38)	BITSTRING	1	MGRXIXMD_XVERSION	++ INPUT XVERSION
2617	(A39)	CHARACTER	6	MGRXIXMD_XEYECATCH	++ CONSTANT XEYECATCH
2623	(A3F)	BITSTRING	1	MGRXIXMD_XSTB	++ INPUT
		1...		MGRXIXMD_XSTB_NO	"B'10000000'" ++ XSTB.NO KEYWORD
		.1..		MGRXIXMD_XSTB_YES	"B'01000000'" ++ XSTB.YES KEYWORD
2624	(A40)	CHARACTER	16	MGRXIXMD_XMBOXNAME	++ XMBOXNAME
2640	(A50)	SIGNED	4	MGRXIXMD_XGROUPTOKEN	++ XGROUPTOKEN
2640	(A50)	X'1C'	0	MGRXIXMDL	"*-MGRXIXMD" ++ LENGTH OF PLIST

Comment

IXZXIXMD-1

End of Comment

2644	(A54)	ADDRESS	2	(0)	Ensure area fits

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
				Comment	
------- IXZXIXDT MF=(L,MGRXIXDT) Detach JESXCF group MACDATE -00/02/02-<1>					
				End of Comment	
0	(0)	X'A38'	0	M00M1126	"MGRXIXDT" ++ IXZXIXDT NAME
2616	(A38)	DBL WORD	8	MGRXIXDT (0)	++ IXZXIXDT PARM LIST
2616	(A38)	BITSTRING	1	MGRXIXDT_XVERSION	++ INPUT XVERSION
2617	(A39)	CHARACTER	6	MGRXIXDT_XEYECATCH	++ CONSTANT XEYECATCH
2623	(A3F)	CHARACTER	1	MGRXIXDT_XRSV0001	++ RESERVED XRSV0001
2624	(A40)	ADDRESS	4	MGRXIXDT_XGROUPTOKEN	++ XGROUPTOKEN
2628	(A44)	CHARACTER	8	MGRXIXDT_XLINKPARMS	++ FIELD_LABEL XLINKPARMS
2628	(A44)	X'14'	0	MGRXIXDTL	"*-MGRXIXDT" ++ LENGTH OF PLIST
				Comment	
IXZXIXDT-1					
				End of Comment	
2636	(A4C)	ADDRESS	2	(0)	Ensure area fits
				Comment	
------- IXZXIXRM MF=(L,MGRXIXRM) Receive message MACDATE -93/05/10-<1>					
				End of Comment	
2616	(A38)	SIGNED	2	M00M1127 (0)	IXZXIXRM-1
2616	(A38)	DBL WORD	8	MGRXIXRM (0)	++ IXZXIXRM PARM LIST
2616	(A38)	BITSTRING	1	MGRXIXRM_XVERSION	++ INPUT XVERSION
2617	(A39)	CHARACTER	6	MGRXIXRM_XEYECATCH	++ CONSTANT XEYECATCH
2623	(A3F)	CHARACTER	1	MGRXIXRM_XRSV0001	++ RESERVED XRSV0001
2624	(A40)	CHARACTER	16	MGRXIXRM_XMBOXNAME	++ XMBOXNAME
2640	(A50)	ADDRESS	4	MGRXIXRM_XDATA	++ XDATA
2644	(A54)	SIGNED	4	MGRXIXRM_XDATALEN	++ XDATALEN
2648	(A58)	BITSTRING	8	MGRXIXRM_XMSGTOKEN	++ XMSGTOKEN
2656	(A60)	SIGNED	4	MGRXIXRM_XGROUPTOKEN	++ XGROUPTOKEN
2660	(A64)	BITSTRING	1	MGRXIXRM_XMSGFETCH	++ INPUT
		1...		MGRXIXRM_XMSGFETCH_ALL	"B'10000000'" ++ XMSGFETCH.ALL KEYWORD
		.1..		MGRXIXRM_XMSGFETCH_MESSAGES	"B'01000000'" ++ XMSGFETCH.MESSAGES KEYWORD
		..1.		MGRXIXRM_XMSGFETCH_SYSEVENT	"B'00100000'" ++ XMSGFETCH.SYSEVENT KEYWORD
		...1		MGRXIXRM_XMSGFETCH_ACKS	"B'00010000'" ++ XMSGFETCH.ACKS KEYWORD
2661	(A65)	BITSTRING	1	MGRXIXRM_XKEYS	++ FIELD_LABEL

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
		1...		MGRXIXRM_KEYUSED_MSGFETCH	"B'10000000'" ++ KEYUSED.MSGFETCH KEYWORD
2661	(A65)	X'2E'	0	MGRXIXRML	"*-MGRXIXRM" ++ LENGTH OF PLIST
				Comment	
				IXZXIXRM-1	
				End of Comment	
2662	(A66)	ADDRESS	2	(0)	Ensure area fits
				Comment	
				------- IARV64 MF=(L,MGRIR64L),PLISTVER=MAX IARV64 list form MACDATE -02/27/13-<5>	
				End of Comment	
0	(0)	X'A38'	0	M00M1128	"MGRIR64L" ++ IARV64 NAME
2616	(A38)	DBL WORD	8	MGRIR64L (0)	++ IARV64 PARM LIST
2616	(A38)	BITSTRING	1	MGRIR64L_XVERSION	++ INPUT XVERSION
2617	(A39)	BITSTRING	1	MGRIR64L_XREQUEST	++ XREQUEST
2617	(A39)	X'1'	0	MGRIR64L_XREQUEST_GETSTOR	"1" ++ XREQUEST.GETSTOR KEYWORD
2617	(A39)	X'2'	0	MGRIR64L_XREQUEST_GETSHARED	"2" ++ XREQUEST.GETSHARED KEYWORD
2617	(A39)	X'3'	0	MGRIR64L_XREQUEST_DETACH	"3" ++ XREQUEST.DETACH KEYWORD
2617	(A39)	X'4'	0	MGRIR64L_XREQUEST_PAGEFIX	"4" ++ XREQUEST.PAGEFIX KEYWORD
2617	(A39)	X'5'	0	MGRIR64L_XREQUEST_PAGEUNFIX	"5" ++ XREQUEST.PAGEUNFIX KEYWORD
2617	(A39)	X'6'	0	MGRIR64L_XREQUEST_PAGEOUT	"6" ++ XREQUEST.PAGEOUT KEYWORD
2617	(A39)	X'7'	0	MGRIR64L_XREQUEST_DISCARDDATA	"7" ++ XREQUEST.DISCARDDATA KEYWORD
2617	(A39)	X'8'	0	MGRIR64L_XREQUEST_PAGEIN	"8" ++ XREQUEST.PAGEIN KEYWORD
2617	(A39)	X'9'	0	MGRIR64L_XREQUEST_PROTECT	"9" ++ XREQUEST.PROTECT KEYWORD
2617	(A39)	X'A'	0	MGRIR64L_XREQUEST_SHAREMEMOBJ	"10" ++ XREQUEST.SHAREMEMOBJ KEYWORD
2617	(A39)	X'B'	0	MGRIR64L_XREQUEST_CHANGEACCESS	"11" ++ XREQUEST.CHANGEACCESS KEYWORD
2617	(A39)	X'C'	0	MGRIR64L_XREQUEST_UNPROTECT	"12" ++ XREQUEST.UNPROTECT KEYWORD
2617	(A39)	X'D'	0	MGRIR64L_XREQUEST_CHANGEGUARD	"13" ++ XREQUEST.CHANGEGUARD KEYWORD
2617	(A39)	X'E'	0	MGRIR64L_XREQUEST_LIST	"14" ++ XREQUEST.LIST KEYWORD
2617	(A39)	X'F'	0	MGRIR64L_XREQUEST_GETCOMMON	"15" ++ XREQUEST.GETCOMMON KEYWORD
2617	(A39)	X'10'	0	MGRIR64L_XREQUEST_COUNTPAGES	"16" ++ XREQUEST.COUNTPAGES KEYWORD
2617	(A39)	X'11'	0	MGRIR64L_XREQUEST_PCIEFIX	"17" ++ XREQUEST.PCIEFIX KEYWORD
2617	(A39)	X'12'	0	MGRIR64L_XREQUEST_PCIEUNFIX	"18" ++ XREQUEST.PCIEUNFIX KEYWORD
2618	(A3A)	BITSTRING	1	MGRIR64L_XFLAGS0	++ FIELD_LABEL
		1...		MGRIR64L_XMOTKNSOURCE_SYSTEM	"B'10000000'" ++ XMOTKNSOURCE.SYSTEM KEYWORD
		.1..		MGRIR64L_XMOTKNCREATOR_SYSTEM	

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
					"B'01000000'" ++ XMOTKNCREATOR.SYSTEM KEYWORD
		..1.		MGRIR64L_XMATCH_MOTOKEN	
					"B'00100000'" ++ XMATCH.MOTOKEN KEYWORD
2619	(A3B)	BITSTRING	1	MGRIR64L_XKEY	
					++
2620	(A3C)	BITSTRING	1	MGRIR64L_XFLAGS1	
					++ FIELD_LABEL
		1...		MGRIR64L_KEYUSED_KEY	
					"B'10000000'" ++ KEYUSED.KEY KEYWORD
		.1..		MGRIR64L_KEYUSED_USERTKN	
					"B'01000000'" ++ KEYUSED.USERTKN KEYWORD
		..1.		MGRIR64L_KEYUSED_TTOKEN	
					"B'00100000'" ++ KEYUSED.TTOKEN KEYWORD
		...1		MGRIR64L_KEYUSED_CONVERTSTART	
					"B'00010000'" ++ KEYUSED.CONVERTSTART KEYWORD
		.... 1...		MGRIR64L_KEYUSED_GUARDSIZE64	
					"B'00001000'" ++ KEYUSED.GUARDSIZE64 KEYWORD
		.... .1..		MGRIR64L_KEYUSED_CONVERTSIZE64	
					"B'00000100'" ++ KEYUSED.CONVERTSIZE64 KEYWORD
		.... ..1.		MGRIR64L_KEYUSED_MOTKN	
					"B'00000010'" ++ KEYUSED.MOTKN KEYWORD
		1		MGRIR64L_KEYUSED_OWNERJOBNAME	
					"B'00000001'" ++ KEYUSED.OWNERJOBNAME KEYWORD
2621	(A3D)	BITSTRING	1	MGRIR64L_XFLAGS2	
					++ FIELD_LABEL
		1...		MGRIR64L_XCOND_YES	
					"B'10000000'" ++ XCOND.YES KEYWORD
		.1..		MGRIR64L_XFPROT_NO	
					"B'01000000'" ++ XFPROT.NO KEYWORD
		..1.		MGRIR64L_XCONTROL_AUTH	
					"B'00100000'" ++ XCONTROL.AUTH KEYWORD
		...1		MGRIR64L_XGUARDLOC_HIGH	
					"B'00010000'" ++ XGUARDLOC.HIGH KEYWORD
		.... 1...		MGRIR64L_XCHANGEACCESS_GLOBAL	
					"B'00001000'" ++ XCHANGEACCESS.GLOBAL KEYWORD
		.... .1..		MGRIR64L_XPAGEFRAMESIZE_1MEG	
					"B'00000100'" ++ XPAGEFRAMESIZE.1MEG KEYWORD
		.... ..1.		MGRIR64L_XPAGEFRAMESIZE_MAX	
					"B'00000010'" ++ XPAGEFRAMESIZE.MAX KEYWORD
		1		MGRIR64L_XPAGEFRAMESIZE_ALL	
					"B'00000001'" ++ XPAGEFRAMESIZE.ALL KEYWORD
2622	(A3E)	BITSTRING	1	MGRIR64L_XFLAGS3	
					++ FIELD_LABEL
		1...		MGRIR64L_XMATCH_USERTOKEN	
					"B'10000000'" ++ XMATCH.USERTOKEN KEYWORD
		.1..		MGRIR64L_XAFFINITY_SYSTEM	
					"B'01000000'" ++ XAFFINITY.SYSTEM KEYWORD
		..1.		MGRIR64L_XUSE2GTO32G_YES	
					"B'00100000'" ++ XUSE2GTO32G.YES KEYWORD
		...1		MGRIR64L_XOWNER_NO	
					"B'00010000'" ++ XOWNER.NO KEYWORD
		.... 1...		MGRIR64L_XV64SELECT_NO	
					"B'00001000'" ++ XV64SELECT.NO KEYWORD
		.... .1..		MGRIR64L_XSVCDUMPRGN_NO	
					"B'00000100'" ++ XSVCDUMPRGN.NO KEYWORD
		.... ..1.		MGRIR64L_XV64SHARED_NO	
					"B'00000010'" ++ XV64SHARED.NO KEYWORD
		1		MGRIR64L_XSVCDUMPRGN_ALL	
					"B'00000001'" ++ XSVCDUMPRGN.ALL KEYWORD
2623	(A3F)	BITSTRING	1	MGRIR64L_XFLAGS4	
					++ FIELD_LABEL
		1...		MGRIR64L_XLONG_NO	
					"B'10000000'" ++ XLONG.NO KEYWORD
		.1..		MGRIR64L_XCLEAR_NO	

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
					"B'01000000'" ++ XCLEAR.NO KEYWORD
		..1.		MGRIR64L_XVIEW_READONLY	
					"B'00100000'" ++ XVIEW.READONLY KEYWORD
		...1		MGRIR64L_XVIEW_SHAREDWRITE	
					"B'00010000'" ++ XVIEW.SHAREDWRITE KEYWORD
		.... 1...		MGRIR64L_XVIEW_HIDDEN	
					"B'00001000'" ++ XVIEW.HIDDEN KEYWORD
		.... .1..		MGRIR64L_XCONVERT_TOGUARD	
					"B'00000100'" ++ XCONVERT.TOGUARD KEYWORD
		.... ..1.		MGRIR64L_XCONVERT_FROMGUARD	
					"B'00000010'" ++ XCONVERT.FROMGUARD KEYWORD
		1		MGRIR64L_XKEEPREAL_NO	
					"B'00000001'" ++ XKEEPREAL.NO KEYWORD
2624	(A40)	DBL WORD	8	MGRIR64L_XSEGMENTS	
					++
2632	(A48)	CHARACTER	16	MGRIR64L_XTTOKEN	
					++
2648	(A58)	DBL WORD	8	MGRIR64L_XUSERTKN	
					++
2656	(A60)	ADDRESS	8	MGRIR64L_XORIGIN	
					++
2664	(A68)	ADDRESS	8	MGRIR64L_XRANGLIST	
					++
2672	(A70)	ADDRESS	8	MGRIR64L_XMEMOBJSTART	
					++
2680	(A78)	SIGNED	4	MGRIR64L_XGUARDSIZE	
					++
2684	(A7C)	SIGNED	4	MGRIR64L_XCONVERTSIZE	
					++
2688	(A80)	SIGNED	4	MGRIR64L_XALETVALUE	
					++
2692	(A84)	SIGNED	4	MGRIR64L_XNUMRANGE	
					++
2696	(A88)	ADDRESS	4	MGRIR64L_XV64LISTPTR	
					++
2700	(A8C)	SIGNED	4	MGRIR64L_XV64LISTLENGTH	
					++
2704	(A90)	DBL WORD	8	MGRIR64L_XCONVERTSTART	
					++
2712	(A98)	DBL WORD	8	MGRIR64L_XCONVERTSIZE64	
					++
2720	(AA0)	DBL WORD	8	MGRIR64L_XGUARDSIZE64	
					++
2728	(AA8)	CHARACTER	8	MGRIR64L_XUSERTOKEN	
					++
2736	(AB0)	BITSTRING	1	MGRIR64L_XDUMPPRIORITY	
					++
2737	(AB1)	BITSTRING	1	MGRIR64L_XFLAGS5	
					++ FIELD_LABEL
		1...		MGRIR64L_XDUMPPROTOCOL_YES	
					"B'10000000'" ++ XDUMPPROTOCOL.YES KEYWORD
		.1..		MGRIR64L_XORDER_DUMPPRIORITY	
					"B'01000000'" ++ XORDER.DUMPPRIORITY KEYWORD
		..1.		MGRIR64L_XTYPE_PAGEABLE	
					"B'00100000'" ++ XTYPE.PAGEABLE KEYWORD
		...1		MGRIR64L_XTYPE_DREF	
					"B'00010000'" ++ XTYPE.DREF KEYWORD
		.... 1...		MGRIR64L_XOWNERCOM_HOME	
					"B'00001000'" ++ XOWNERCOM.HOME KEYWORD
		.... .1..		MGRIR64L_XOWNERCOM_PRIMARY	
					"B'00000100'" ++ XOWNERCOM.PRIMARY KEYWORD
		.... ..1.		MGRIR64L_XOWNERCOM_SYSTEM	
					"B'00000010'" ++ XOWNERCOM.SYSTEM KEYWORD
		1		MGRIR64L_XOWNERCOM_BYASID	

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
					"B'00000001'" ++ XOWNERCOM.BYASID KEYWORD
2738	(AB2)	BITSTRING	1	MGRIR64L_XFLAGS6	
					++ FIELD_LABEL
		1...		MGRIR64L_XV64COMMON_NO	
					"B'10000000'" ++ XV64COMMON.NO KEYWORD
		.1..		MGRIR64L_XMEMLIMIT_NO	
					"B'01000000'" ++ XMEMLIMIT.NO KEYWORD
		..1.		MGRIR64L_XDETACHFIXED_YES	
					"B'00100000'" ++ XDETACHFIXED.YES KEYWORD
		...1		MGRIR64L_XDOAUTHCHECKS_YES	
					"B'00010000'" ++ XDOAUTHCHECKS.YES KEYWORD
		.... 1...		MGRIR64L_XLOCALSYSAREA_YES	
					"B'00001000'" ++ XLOCALSYSAREA.YES KEYWORD
		.... .1..		MGRIR64L_XAMOUNTSIZE_4K	
					"B'00000100'" ++ XAMOUNTSIZE.4K KEYWORD
		.... ..1.		MGRIR64L_XAMOUNTSIZE_1MEG	
					"B'00000010'" ++ XAMOUNTSIZE.1MEG KEYWORD
2739	(AB3)	BITSTRING	1	MGRIR64L_XFLAGS7	
					++ FIELD_LABEL
		1...		MGRIR64L_KEYUSED_DUMP	
					"B'10000000'" ++ KEYUSED.DUMP KEYWORD
		.1..		MGRIR64L_KEYUSED_OPTIONVALUE	
					"B'01000000'" ++ KEYUSED.OPTIONVALUE KEYWORD
		..1.		MGRIR64L_KEYUSED_SVCDUMPRGN	
					"B'00100000'" ++ KEYUSED.SVCDUMPRGN KEYWORD
		...1		MGRIR64L_XATTRIBUTE_DEFS	
					"B'00010000'" ++ XATTRIBUTE.DEFS KEYWORD
		.... 1...		MGRIR64L_XATTRIBUTE_OWNERGONE	
					"B'00001000'" ++ XATTRIBUTE.OWNERGONE KEYWORD
		.... .1..		MGRIR64L_XATTRIBUTE_NOTOWNERGONE	
					"B'00000100'" ++ XATTRIBUTE.NOTOWNERGONE KEYWORD
		.... ..1.		MGRIR64L_XTRACKINFO_YES	
					"B'00000010'" ++ XTRACKINFO.YES KEYWORD
		1		MGRIR64L_XUNLOCKED_YES	
					"B'00000001'" ++ XUNLOCKED.YES KEYWORD
2740	(AB4)	BITSTRING	1	MGRIR64L_XDUMP	
					++ XDUMP
2740	(AB4)	X'1'	0	MGRIR64L_XDUMP_NO	
					"1" ++ XDUMP.NO KEYWORD
2740	(AB4)	X'2'	0	MGRIR64L_XDUMP_LIKESQA	
					"2" ++ XDUMP.LIKESQA KEYWORD
2740	(AB4)	X'3'	0	MGRIR64L_XDUMP_LIKECSA	
					"3" ++ XDUMP.LIKECSA KEYWORD
2740	(AB4)	X'20'	0	MGRIR64L_XDUMP_LIKERGN	
					"32" ++ XDUMP.LIKERGN KEYWORD
2740	(AB4)	X'21'	0	MGRIR64L_XDUMP_LIKELSQA	
					"33" ++ XDUMP.LIKELSQA KEYWORD
2740	(AB4)	X'FF'	0	MGRIR64L_XDUMP_ALL	
					"255" ++ XDUMP.ALL KEYWORD
2741	(AB5)	BITSTRING	1	MGRIR64L_XFLAGS8	
					++ FIELD_LABEL
		1...		MGRIR64L_XPAGEFRAMESIZE_PAGEABLE1MEG	
					"B'10000000'" ++ XPAGEFRAMESIZE.PAGEABLE1MEG KEYWOR
		.1..		MGRIR64L_XPAGEFRAMESIZE_DREF1MEG	
					"B'01000000'" ++ XPAGEFRAMESIZE.DREF1MEG KEYWORD
2742	(AB6)	BITSTRING	2	MGRIR64L_XOWNERASID	
					++
2744	(AB8)	BITSTRING	1	MGRIR64L_XOPTIONVALUE	
					++
2745	(AB9)	CHARACTER	8	MGRIR64L_XRSV0001	
					++ RESERVED
2753	(AC1)	CHARACTER	8	MGRIR64L_XOWNERJOBNAME	
					++

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
2761	(AC9)	CHARACTER	7	MGRIR64L_XRSV0004	++ RESERVED
2768	(AD0)	ADDRESS	8	MGRIR64L_XDMAPAGETABLE	++
2776	(AD8)	DBL WORD	8	MGRIR64L_XUNITS	++
2784	(AE0)	BITSTRING	1	MGRIR64L_XFLAGS9	++ FIELD_LABEL
		1...		MGRIR64L_KEYUSED_UNITS	"B'10000000'" ++ KEYUSED.UNITS KEYWORD
		.1..		MGRIR64L_XUNITSIZE_1M	"B'01000000'" ++ XUNITSIZE.1M KEYWORD
		..1.		MGRIR64L_XUNITSIZE_2G	"B'00100000'" ++ XUNITSIZE.2G KEYWORD
		...1		MGRIR64L_XPAGEFRAMESIZE_1M	"B'00010000'" ++ XPAGEFRAMESIZE.1M KEYWORD
		.... 1...		MGRIR64L_XPAGEFRAMESIZE_2G	"B'00001000'" ++ XPAGEFRAMESIZE.2G KEYWORD
		.... .1..		MGRIR64L_XTYPE_FIXED	"B'00000100'" ++ XTYPE.FIXED KEYWORD
2785	(AE1)	CHARACTER	7	MGRIR64L_XRSV0005	++ RESERVED
2785	(AE1)	X'AE8'	0	MGRIR64L_PL_END	"*" ++ END OF BASE PLIST
2648	(A58)	DBL WORD	8	MGRIR64L_XOUTMOTKN	++
2648	(A58)	DBL WORD	8	MGRIR64L_XMOTKN	++
2792	(AE8)	X'B0'	0	MGRIR64LL	"*-MGRIR64L" ++ LENGTH OF PLIST
		Comment			
		IARV64-5			
		End of Comment			
2792	(AE8)	ADDRESS	8	MGRIRNGL (0)	Range list for PAGEFIX
2792	(AE8)	ADDRESS	8	MGRIRNGA	Address of area to fix
2800	(AF0)	DBL WORD	8	MGRIRNGP	Number of pages to fix
2800	(AF0)	X'A38'	0	MGRIAR64	"MGRIR64L,*-MGRIR64L" IARV64 MF=L symbol/length
2808	(AF8)	ADDRESS	2	(0)	Ensure area fits
2816	(B00)	X'608'	0	MGRCLEAR	"MGRSTART" Area to be zeroed
2816	(B00)	X'4F8'	0	MGRLLEN	"*-DTEWORK" Length of work area

$DTEMIGR Cross Reference

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

Name	Hex Offset	Hex Value
MGPATHT	660	40
MGPRERR	660	20
MGPSTSPL	608	
MGPWTLB	660	10
MGR#IOCM	98C	
MGRALLOC	758	80
MGRASSSN	988	
MGRBMHDL	734	
MGRBMHDR	730	
MGRBOX1	970	
MGRBOX2	974	
MGRBTYPE	990	
MGRCLEAR	B00	608
MGRDCB	7EE	784
MGRDCBE	7B8	C4C3C2C5
MGRDCBMF	784	
MGRENQTK	759	
MGRFLG3	684	
MGRFLG4	685	
MGRFLG5	686	
MGRFLG52	687	
MGRFLG6	688	
MGRHITG	750	
MGRIAR64	AF0	A38
MGRIBATI	8E0	
MGRIBATO	8E4	
MGRIBITM	8E8	
MGRIBUFC	8B0	
MGRIBUFP	8A0	
MGRIBUFR	898	
MGRIECB	900	
MGRIFLG1	8BC	
MGRIFREE	8C0	
MGRILTRK	8F0	
MGRIPEND	8D0	
MGRIREAD	8C8	
MGRIRNGA	AE8	
MGRIRNGL	AE8	
MGRIRNGP	AF0	
MGRIR64L	A38	
MGRIR64L_KEYUSED_CONVERTSIZE64	A3C	4
MGRIR64L_KEYUSED_CONVERTSTART	A3C	10
MGRIR64L_KEYUSED_DUMP	AB3	80
MGRIR64L_KEYUSED_GUARDSIZE64	A3C	8
MGRIR64L_KEYUSED_KEY	A3C	80
MGRIR64L_KEYUSED_MOTKN	A3C	2
MGRIR64L_KEYUSED_OPTIONVALUE	AB3	40
MGRIR64L_KEYUSED_OWNERJOBNAME	A3C	1
MGRIR64L_KEYUSED_SVCDUMPRGN	AB3	20
MGRIR64L_KEYUSED_TTOKEN	A3C	20
MGRIR64L_KEYUSED_UNITS	AE0	80
MGRIR64L_KEYUSED_USERTKN	A3C	40
MGRIR64L_PL_END	AE1	AE8
MGRIR64L_XAFFINITY_SYSTEM	A3E	40
MGRIR64L_XALETVALUE	A80	
MGRIR64L_XAMOUNTSIZE_1MEG	AB2	2
MGRIR64L_XAMOUNTSIZE_4K	AB2	4
MGRIR64L_XATTRIBUTE_DEFS	AB3	10
MGRIR64L_XATTRIBUTE_NOTOWNERGONE	AB3	4
MGRIR64L_XATTRIBUTE_OWNERGONE	AB3	8
MGRIR64L_XCHANGEACCESS_GLOBAL	A3D	8
MGRIR64L_XCLEAR_NO	A3F	40
MGRIR64L_XCOND_YES	A3D	80
MGRIR64L_XCONTROL_AUTH	A3D	20
MGRIR64L_XCONVERT_FROMGUARD	A3F	2
MGRIR64L_XCONVERT_TOGUARD	A3F	4
MGRIR64L_XCONVERTSIZE	A7C	
MGRIR64L_XCONVERTSIZE64	A98	
MGRIR64L_XCONVERTSTART	A90	
MGRIR64L_XDETACHFIXED_YES	AB2	20
MGRIR64L_XDMAPAGETABLE	AD0	
MGRIR64L_XDOAUTHCHECKS_YES	AB2	10
MGRIR64L_XDUMP	AB4	
MGRIR64L_XDUMP_ALL	AB4	FF
MGRIR64L_XDUMP_LIKECSA	AB4	3
MGRIR64L_XDUMP_LIKELSQA	AB4	21
MGRIR64L_XDUMP_LIKERGN	AB4	20
MGRIR64L_XDUMP_LIKESQA	AB4	2
MGRIR64L_XDUMP_NO	AB4	1
MGRIR64L_XDUMPPRIORITY	AB0	
MGRIR64L_XDUMPPROTOCOL_YES	AB1	80
MGRIR64L_XFLAGS0	A3A	
MGRIR64L_XFLAGS1	A3C	
MGRIR64L_XFLAGS2	A3D	
MGRIR64L_XFLAGS3	A3E	

Name	Hex Offset	Hex Value
MGRIR64L_XFLAGS4	A3F	
MGRIR64L_XFLAGS5	AB1	
MGRIR64L_XFLAGS6	AB2	
MGRIR64L_XFLAGS7	AB3	
MGRIR64L_XFLAGS8	AB5	
MGRIR64L_XFLAGS9	AE0	
MGRIR64L_XFPROT_NO	A3D	40
MGRIR64L_XGUARDLOC_HIGH	A3D	10
MGRIR64L_XGUARDSIZE	A78	
MGRIR64L_XGUARDSIZE64	AA0	
MGRIR64L_XKEEPREAL_NO	A3F	1
MGRIR64L_XKEY	A3B	
MGRIR64L_XLOCALSYSAREA_YES	AB2	8
MGRIR64L_XLONG_NO	A3F	80
MGRIR64L_XMATCH_MOTOKEN	A3A	20
MGRIR64L_XMATCH_USERTOKEN	A3E	80
MGRIR64L_XMEMLIMIT_NO	AB2	40
MGRIR64L_XMEMOBJSTART	A70	
MGRIR64L_XMOTKN	A58	
MGRIR64L_XMOTKNCREATOR_SYSTEM	A3A	40
MGRIR64L_XMOTKNSOURCE_SYSTEM	A3A	80
MGRIR64L_XNUMRANGE	A84	
MGRIR64L_XOPTIONVALUE	AB8	
MGRIR64L_XORDER_DUMPPRIORITY	AB1	40
MGRIR64L_XORIGIN	A60	
MGRIR64L_XOUTMOTKN	A58	
MGRIR64L_XOWNER_NO	A3E	10
MGRIR64L_XOWNERASID	AB6	
MGRIR64L_XOWNERCOM_BYASID	AB1	1
MGRIR64L_XOWNERCOM_HOME	AB1	8
MGRIR64L_XOWNERCOM_PRIMARY	AB1	4
MGRIR64L_XOWNERCOM_SYSTEM	AB1	2
MGRIR64L_XOWNERJOBNAME	AC1	
MGRIR64L_XPAGEFRAMESIZE_ALL	A3D	1
MGRIR64L_XPAGEFRAMESIZE_DREF1MEG	0	40
MGRIR64L_XPAGEFRAMESIZE_MAX	A3D	2
MGRIR64L_XPAGEFRAMESIZE_PAGEABLE1MEG	AB5	80
MGRIR64L_XPAGEFRAMESIZE_1M	AE0	10
MGRIR64L_XPAGEFRAMESIZE_1MEG	A3D	4
MGRIR64L_XPAGEFRAMESIZE_2G	AE0	8
MGRIR64L_XRANGLIST	A68	
MGRIR64L_XREQUEST	A39	
MGRIR64L_XREQUEST_CHANGEACCESS	A39	B
MGRIR64L_XREQUEST_CHANGEGUARD	A39	D
MGRIR64L_XREQUEST_COUNTPAGES	A39	10
MGRIR64L_XREQUEST_DETACH	A39	3
MGRIR64L_XREQUEST_DISCARDDATA	A39	7
MGRIR64L_XREQUEST_GETCOMMON	A39	F
MGRIR64L_XREQUEST_GETSHARED	A39	2
MGRIR64L_XREQUEST_GETSTOR	A39	1
MGRIR64L_XREQUEST_LIST	A39	E
MGRIR64L_XREQUEST_PAGEFIX	A39	4
MGRIR64L_XREQUEST_PAGEIN	A39	8
MGRIR64L_XREQUEST_PAGEOUT	A39	6
MGRIR64L_XREQUEST_PAGEUNFIX	A39	5
MGRIR64L_XREQUEST_PCIEFIX	A39	11
MGRIR64L_XREQUEST_PCIEUNFIX	A39	12
MGRIR64L_XREQUEST_PROTECT	A39	9
MGRIR64L_XREQUEST_SHAREMEMOBJ	A39	A
MGRIR64L_XREQUEST_UNPROTECT	A39	C
MGRIR64L_XRSV0001	AB9	
MGRIR64L_XRSV0004	AC9	
MGRIR64L_XRSV0005	AE1	
MGRIR64L_XSEGMENTS	A40	
MGRIR64L_XSVCDUMPRGN_ALL	A3E	1

Name	Hex Offset	Hex Value
MGRIR64L_XSVCDUMPRGN_NO		
	A3E	4
MGRIR64L_XTRACKINFO_YES		
	AB3	2
MGRIR64L_XTTOKEN		
	A48	
MGRIR64L_XTYPE_DREF		
	AB1	10
MGRIR64L_XTYPE_FIXED		
	AE0	4
MGRIR64L_XTYPE_PAGEABLE		
	AB1	20
MGRIR64L_XUNITS		
	AD8	
MGRIR64L_XUNITSIZE_1M		
	AE0	40
MGRIR64L_XUNITSIZE_2G		
	AE0	20
MGRIR64L_XUNLOCKED_YES		
	AB3	1
MGRIR64L_XUSERTKN		
	A58	
MGRIR64L_XUSERTOKEN		
	AA8	
MGRIR64L_XUSE2GTO32G_YES		
	A3E	20
MGRIR64L_XVERSION		
	A38	
MGRIR64L_XVIEW_HIDDEN		
	A3F	8
MGRIR64L_XVIEW_READONLY		
	A3F	20
MGRIR64L_XVIEW_SHAREDWRITE		
	A3F	10
MGRIR64L_XV64COMMON_NO		
	AB2	80
MGRIR64L_XV64LISTLENGTH		
	A8C	
MGRIR64L_XV64LISTPTR		
	A88	
MGRIR64L_XV64SELECT_NO		
	A3E	8
MGRIR64L_XV64SHARED_NO		
	A3E	2
MGRIR64LL	AE8	B0
MGRIWORK	8F8	
MGRIWRIT	8D8	
MGRIWTKN	8A8	
MGRIXEND	B00	
MGRIXLST	A38	
MGRIXRCB	924	
MGRIXRCF	920	
MGRIXRQA	918	
MGRIXRQB	914	
MGRIXRQC	920	
MGRIXRQE	928	
MGRIXRQF	910	
MGRIXRQW	910	
MGRI1SRC	8BC	80
MGRI1TRG	8BC	40
MGRI24WK	8B8	
MGRI31WL	8B4	
MGRLLEN	B00	4F8
MGRMEMNM	955	
MGRMFPRM	9B8	
MGRMGSTS	630	
MGRMIGRC	728	
MGRN_CRT	92C	40
MGRNIOP	624	
MGRNOCA	684	20
MGRNOCMP	62C	
MGRNTIME	93D	E2E8E2D1
MGRNUMMG	724	
MGRNUMRQ	720	
MGRNVOLP	620	
MGRNXRQP	628	
MGRPERCE	689	
MGRRECOV	891	
MGRSBITA	708	
MGRSBITB	710	
MGRSBITR	71C	
MGRSBTAS	72C	
MGRSBTRK	718	
MGRSECKD	758	20
MGRSENDA	978	
MGRSENDL	97C	
MGRSERR	892	
MGRSRBYT	74C	
MGRSRCST	73C	
MGRSRDAS	704	
MGRSRDBB	694	694
MGRSRDBE	694	6B4
MGRSRDEB	694	
MGRSRDTD	758	10
MGRSRECT	754	
MGRSREXT	690	0
MGRSRINF	758	
MGRSRREL	758	40
MGRSRRPS	6C4	0
MGRSRTRC	748	
MGRSRTRK	744	
MGRSRVOL	68A	
MGRSTART	608	
MGRSTMSL	9A0	18
MGRSTMST	9A0	0
MGRSWTRD	758	8
MGRTCLNT	A08	
MGRTCPYC	9F0	
MGRTCPYM	9F4	
MGRTCPYT	9E8	
MGRTCUPC	A00	
MGRTCUPM	A04	
MGRTCUPT	9F8	
MGRTDAST	874	
MGRTECKD	890	80
MGRTGBYT	880	
MGRTGDBB	7F0	7F0
MGRTGDBE	7F0	810
MGRTGDEB	7F0	
MGRTGENT	888	
MGRTGEXT	782	0
MGRTGINF	890	
MGRTGRPS	820	0
MGRTGSTT	884	
MGRTGTG	87C	
MGRTGTRC	870	
MGRTGTRK	86C	
MGRTGVOL	77C	
MGRTGWRT	868	
MGRTINTT	9D8	

Name	Hex Offset	Hex Value
MGRTMSGC	A30	
MGRTNEWT	A10	
MGRTOVRT	A18	
MGRTRDTD	890	40
MGRTRECT	88C	
MGRTSETT	9E0	
MGRTSRPS	890	10
MGRTSTRT	A20	
MGRTWTRD	890	20
MGRWBSTL	908	
MGRWBSTR	904	
MGRWRKA	650	0
MGRWRKB	658	
MGRXBUFA	980	
MGRXBUFL	984	
MGRXIXAC	A38	
MGRXIXAC_KEYUSED_DATA	A60	80
MGRXIXAC_KEYUSED_DATALEN	A60	40
MGRXIXAC_KEYUSED_SYSRC	A60	10
MGRXIXAC_KEYUSED_SYSRSN	A60	8
MGRXIXAC_KEYUSED_USERRC	A60	20
MGRXIXAC_XDATA	A48	
MGRXIXAC_XDATALEN	A4C	
MGRXIXAC_XEYECATCH	A39	
MGRXIXAC_XGROUPTOKEN	A54	
MGRXIXAC_XKEYS	A60	
MGRXIXAC_XMSGATTR	A61	
MGRXIXAC_XMSGATTR_EXPRESS	A61	40
MGRXIXAC_XMSGATTR_J3CONNECT	A61	80
MGRXIXAC_XMSGTOKEN	A40	
MGRXIXAC_XSTB	A3F	
MGRXIXAC_XSTB_NO	A3F	80
MGRXIXAC_XSTB_YES	A3F	40
MGRXIXAC_XSYSRC	A58	
MGRXIXAC_XSYSRSN	A5C	
MGRXIXAC_XUSERRC	A50	
MGRXIXAC_XVERSION	A38	
MGRXIXACL	A61	2A
MGRXIXAT	A38	
MGRXIXAT_XDIAG	A6C	
MGRXIXAT_XEYECATCH	A39	
MGRXIXAT_XFLAG1	A68	
MGRXIXAT_XFLAG2	A69	
MGRXIXAT_XGROUP	A40	
MGRXIXAT_XGROUPTOKEN	A64	
MGRXIXAT_XJ3CONNECT_NO	A69	80
MGRXIXAT_XJ3CONNECT_YES	A69	40
MGRXIXAT_XLINKPARMS	A70	
MGRXIXAT_XMAINTLVL	A60	
MGRXIXAT_XMEMBER	A48	
MGRXIXAT_XRELEASE	A58	
MGRXIXAT_XRSV0001	A3F	
MGRXIXAT_XRSV0002	A6A	
MGRXIXAT_XVERSION	A38	
MGRXIXAT_XWHICHJES_COMMON	A68	8
MGRXIXAT_XWHICHJES_INIT	A68	10
MGRXIXAT_XWHICHJES_JES2	A68	80
MGRXIXAT_XWHICHJES_JES3	A68	40
MGRXIXAT_XWHICHJES_J2SPOOL	A68	2
MGRXIXAT_XWHICHJES_J3CIFSS	A68	4
MGRXIXAT_XWHICHJES_J3FSS	A68	20
MGRXIXATL	A70	40
MGRXIXDT	A38	
MGRXIXDT_XEYECATCH	A39	
MGRXIXDT_XGROUPTOKEN	A40	
MGRXIXDT_XLINKPARMS	A44	
MGRXIXDT_XRSV0001	A3F	
MGRXIXDT_XVERSION	A38	
MGRXIXDTL	A44	14
MGRXIXMB	A38	
MGRXIXMB_XEYECATCH	A39	
MGRXIXMB_XGROUPTOKEN	A5C	
MGRXIXMB_XMBOXNAME	A40	
MGRXIXMB_XPOSTALET	A58	
MGRXIXMB_XPOSTDATA	A54	
MGRXIXMB_XPOSTXIT	A50	

Name	Hex Offset	Hex Value
MGRXIXMB_XRSV0001	A3F	
MGRXIXMB_XSYSEVENT_NO	A60	40
MGRXIXMB_XSYSEVENT_YES	A60	80
MGRXIXMB_XSYSEVENTS	A60	
MGRXIXMB_XVERSION	A38	
MGRXIXMBL	A60	29
MGRXIXMC	A68	
MGRXIXMC_XEYECATCH	A69	
MGRXIXMC_XGROUPTOKEN	A80	
MGRXIXMC_XMBOXNAME	A70	
MGRXIXMC_XSTB	A6F	
MGRXIXMC_XSTB_NO	A6F	80
MGRXIXMC_XSTB_YES	A6F	40
MGRXIXMC_XVERSION	A68	
MGRXIXMCL	A80	1C
MGRXIXMD	A38	
MGRXIXMD_XEYECATCH	A39	
MGRXIXMD_XGROUPTOKEN	A50	
MGRXIXMD_XMBOXNAME	A40	
MGRXIXMD_XSTB	A3F	
MGRXIXMD_XSTB_NO	A3F	80
MGRXIXMD_XSTB_YES	A3F	40
MGRXIXMD_XVERSION	A38	
MGRXIXMDL	A50	1C
MGRXIXRM	A38	
MGRXIXRM_KEYUSED_MSGFETCH	A65	80
MGRXIXRM_XDATA	A50	
MGRXIXRM_XDATALEN	A54	
MGRXIXRM_XEYECATCH	A39	
MGRXIXRM_XGROUPTOKEN	A60	
MGRXIXRM_XKEYS	A65	
MGRXIXRM_XMBOXNAME	A40	
MGRXIXRM_XMSGFETCH	A64	
MGRXIXRM_XMSGFETCH_ACKS	A64	10
MGRXIXRM_XMSGFETCH_ALL	A64	80
MGRXIXRM_XMSGFETCH_MESSAGES	A64	40
MGRXIXRM_XMSGFETCH_SYSEVENT	A64	20
MGRXIXRM_XMSGTOKEN	A58	
MGRXIXRM_XRSV0001	A3F	
MGRXIXRM_XVERSION	A38	
MGRXIXRML	A65	2E
MGRXTOKN	998	
MGR1CANC	60C	14
MGR1INIT	60C	4
MGR1NORE	60C	0
MGR1PHA1	60C	8
MGR1PHA2	60C	C
MGR1REQU	60C	0
MGR1UNIN	60C	10
MGR3AWP1	893	8
MGR3AWP2	893	14
MGR3AW01	893	C
MGR3CACK	684	8
MGR3CANC	684	10
MGR3CNCL	893	2C
MGR3CNCM	893	30
MGR3COPY	893	10
MGR3ENDC	893	24
MGR3ENDR	893	20
MGR3INIT	893	4
MGR3MER	684	80
MGR3MOV	684	40
MGR3NOST	893	0
MGR3PERN	893	1C
MGR3PER2	893	18
MGR3P2CM	893	34
MGR3REQC	893	28
MGR3STAT	893	0
MGR3UNIT	893	38
MGR4COPY	685	80
MGR4PH1A	685	40
MGR4WAIS	685	20
MGR5CACK	687	40
MGR5CATC	686	40
MGR5CLER	686	10
MGR5COMP	686	20
MGR5PH2A	686	80
MGR5TLBM	686	1
MGR5TSET	686	2
MGR5WAIS	686	4
MGR5WAIT	686	8
MGR52PER	687	80
MGR6TSET	688	80
MGSPOLP	610	
MGSRMOBJ	65C	
MG1BITMB	60D	10
MG1ERABN	60D	80
MG1ERFL1	60D	
MG1MGBAD	60D	40
MG1RNBAD	60D	20
M00M1120	0	A38
M00M1122	0	A38
M00M1123	A62	
M00M1124	A38	
M00M1125	A38	
M00M1126	0	A38

$DTEMIGR Cross Reference

Name	Hex Offset	Hex Value
M00M1127	A38	
M00M1128	0	A38

$DTEOFF Information

$DTEOFF Programming Interface information

Programming Interface information

$DTEOFF

End of Programming Interface information

$DTEOFF Heading Information

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

There is one Spool Offload I/O Manager PCE (defined by $PCE control block) in a JES2 address space. This $PCE attaches a spool offload subtask for each Spool Offload Device that is started via the $S command. The JES2 $DTEDYN service used for the ATTACH creates a DTE, mapped by the $DTE macro, with a function-specific extension, mapped by this macro. The DTE is the general control block used by JES2 to communicate with its daughter tasks.

$DTEOFF Map

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	0	DTE	HASPOFF DTE WORK AREA EXTENSION
1544	(608)	DBL WORD	8	DOFWSTRT (0)	
1544	(608)	X'4'	0	DOFOPENR	"04" SUB-TASK REQUEST CODE FOR OPEN
1544	(608)	X'8'	0	DOFCLOSR	"08" SUB-TASK REQUEST CODE FOR CLOSE
1544	(608)	X'C'	0	DOFCHEKR	"12" SUB-TASK REQUEST CODE FOR CHECK DATA CONTROL BLOCK
1544	(608)	SIGNED	4	DOFDCBST (0)	ORIGIN ON WORD BOUNDARY DIRECT ACCESS DEVICE INTERFACE
1544	(608)	ADDRESS	4		
1548	(60C)	BITSTRING	12		FDAD, DVTBL
1560	(618)	ADDRESS	4		KEYLEN, DEVT, TRBAL COMMON ACCESS METHOD INTERFACE
1564	(61C)	ADDRESS	1		BUFNO, NUMBER OF BUFFERS
1565	(61D)	ADDRESS	3		BUFCB, BUFFER POOL CONTROL BLOCK

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
1568	(620)	ADDRESS	2		BUFL, BUFFER LENGTH
1570	(622)	BITSTRING	2		DSORG, DATA SET ORGANIZATION
1572	(624)	ADDRESS	4		IOBAD FOR EXCP OR RESERVED FOUNDATION EXTENSION
1576	(628)	BITSTRING	1		BFTEK, BFALN, DCBE INDICATORS
1577	(629)	ADDRESS	3		EODAD (END OF DATA ROUTINE ADDRESS)
1580	(62C)	BITSTRING	1		RECFM (RECORD FORMAT)
1581	(62D)	ADDRESS	3		EXLST (EXIT LIST ADDRESS) FOUNDATION BLOCK
1584	(630)	CHARACTER	8		DDNAME
1592	(638)	BITSTRING	1		OFLGS (OPEN FLAGS)
1593	(639)	BITSTRING	1		IFLGS (IOS FLAGS)
1594	(63A)	BITSTRING	2		MACR (MACRO FORMAT) BSAM-BPAM-QSAM INTERFACE
1596	(63C)	BITSTRING	1		OPTCD, OPTION CODES
1597	(63D)	ADDRESS	3		CHECK OR INTERNAL QSAM SYNCHRONIZING RTN.
1600	(640)	ADDRESS	4		SYNAD, SYNCHRONOUS ERROR RTN. (3 BYTES)
1604	(644)	SIGNED	2		INTERNAL ACCESS METHOD FLAGS
1606	(646)	ADDRESS	2		
1608	(648)	SIGNED	4		INTERNAL ACCESS METHOD FLAGS
1612	(64C)	ADDRESS	4		INTERNAL ACCESS METHOD USE BSAM-BPAM INTERFACE
1616	(650)	ADDRESS	1		NCP, MAX NUM OF OUTSTANDING READ/WRITES
1617	(651)	ADDRESS	3		EOBR, INTERNAL ACCESS METHOD USE
1620	(654)	ADDRESS	4		EOBW, INTERNAL ACCESS METHOD USE
1624	(658)	ADDRESS	1	(2)	FLAGS AND EITHER DIRCT OR BUFOFF
1626	(65A)	ADDRESS	2		LRECL
1628	(65C)	ADDRESS	4		CNTRL, NOTE, POINT
1628	(65C)	X'608'	0	DOFDCB	"DOFDCBST,*-DOFDCBST" DEFINE BASE AND LENGTH OF DCB

Comment

DATA CONTROL BLOCK EXTENSION.

End of Comment

1632	(660)	SIGNED	4	DOFDCBES (0)	0 Alignment and identifier
1636	(664)	SIGNED	2		4 Length of DCBE, minimum is 56
1638	(666)	BITSTRING	2		6 Reserved, should be zero
1640	(668)	ADDRESS	4		8 0 if not open, OPEN points to DCB
1644	(66C)	BITSTRING	4		C Disk address of current member
1648	(670)	BITSTRING	1		10 Flags set by system
1649	(671)	BITSTRING	1		11 Flags set by user
1650	(672)	SIGNED	2		12 Number of stripes if extended format
1652	(674)	BITSTRING	1		14 Flags set by user
1653	(675)	BITSTRING	3		15 Reserved
1656	(678)	BITSTRING	4		18 Reserved
1660	(67C)	SIGNED	4		1C Block size
1664	(680)	BITSTRING	8		20 Reserved & number of blocks in ds
1672	(688)	ADDRESS	4		28 End of data routine address or 0
1676	(68C)	ADDRESS	4		2C I/O error routine (synchronous) or 0
1680	(690)	BITSTRING	6		30 Reserved, should be zero
1686	(696)	ADDRESS	1	(2)	36 MULTACC and MULTSDN

Comment

SHORTEST POSSIBLE DCBE IN ANY RELEASE.

End of Comment

1686	(696)	X'660'	0	DOFDCBE	"DOFDCBES,*-DOFDCBES" DEFINE BASE, LENGTH OF DCBE
1688	(698)	SIGNED	4	DOFDECB	EVENT CONTROL BLOCK
1692	(69C)	BITSTRING	1		TYPE FIELD
1693	(69D)	BITSTRING	1		TYPE FIELD
1694	(69E)	ADDRESS	2		LENGTH
1696	(6A0)	ADDRESS	4		DCB ADDRESS
1700	(6A4)	ADDRESS	4		AREA ADDRESS

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
1704	(6A8)	ADDRESS	4		RECORD POINTER WORD
				Comment	
				OFFLOAD DATA SET HEADER RECORD	
				End of Comment	
1708	(6AC)	BITSTRING	80	DOFHDBUF	OFFLOAD DATASET HEADER RECORD
1708	(6AC)	ADDRESS	1	DOFHVRSN	VERSION NUMBER
1708	(6AC)	X'2'	0	DOFHVRS1	"2" Current version number
1709	(6AD)	BITSTRING	3		RESERVED
1712	(6B0)	SIGNED	4	DOFHTIME	TIME VERIFICATION STAMP
1716	(6B4)	SIGNED	4	DOFHDATE	DATE VERIFICATION STAMP
1720	(6B8)	CHARACTER	8	DOFHNODE	Node name offload done on
1720	(6B8)	X'14'	0	DOFHDLEN	"*-DOFHVRSN" Length of header record
1728	(6C0)	ADDRESS	2	(0)	Generate assembly error if remapping is larger than base area
1728	(6C0)	SIGNED	4	(0)	
1728	(6C0)	ADDRESS	1	DOFABND	FLAGS FOR ESTAEX
1729	(6C1)	ADDRESS	1		SECOND FLAG BYTE
1730	(6C2)	ADDRESS	1		THIRD FLAG BYTE
1731	(6C3)	ADDRESS	1		VERSION NUMBER
1732	(6C4)	ADDRESS	4		TOKEN VALUE AREA
1736	(6C8)	ADDRESS	4		PARM. LIST ADDR. NOT SPECIFIED
1740	(6CC)	ADDRESS	4		ALET FOR PARM LIST
1744	(6D0)	ADDRESS	4		FOUR BYTE EXIT ADDR
				Comment	
				DYNAMIC ALLOCATE PARAMETER LIST	
				End of Comment	
1748	(6D4)	ADDRESS	4	DOFDAST	
1752	(6D8)	ADDRESS	1	DOFDARB	LENGTH OF RB
1753	(6D9)	ADDRESS	1		ALLOCATE VERB CODE
1754	(6DA)	ADDRESS	1	(2)	FLAGS1 = DON'T USE EXISTING ALLOC
1756	(6DC)	SIGNED	2	DOFDAERR (2)	ERROR AND INFO CODE
1760	(6E0)	ADDRESS	4	DOFDATPP	POINTER TO TU POINTERS
1764	(6E4)	ADDRESS	4		RESERVED
1768	(6E8)	ADDRESS	1	(4)	FLAGS 2 FIELD
1772	(6EC)	ADDRESS	4	DOFDATP1	
1776	(6F0)	ADDRESS	4	DOFDATP2	
1780	(6F4)	ADDRESS	4	DOFDATP3	
1784	(6F8)	ADDRESS	4	DOFDATP4	
1788	(6FC)	ADDRESS	4	DOFDATP5	
1792	(700)	ADDRESS	4	DOFDATP6	
1796	(704)	ADDRESS	4	DOFDATP7	
1800	(708)	ADDRESS	4	DOFDATP8	
1804	(70C)	ADDRESS	4	DOFDATP9	
1808	(710)	ADDRESS	4	DOFDATPA	
1812	(714)	ADDRESS	4	DOFDATPB	
1816	(718)	ADDRESS	2	DOFDATU1	DSN=
1822	(71E)	CHARACTER	44	DOFDADSN	.....
1866	(74A)	ADDRESS	2	DOFDATU2	
1872	(750)	BITSTRING	1	DOFDADSP	DISP=OLD
1873	(751)	ADDRESS	2	DOFDATU3	RETURN DD NAME
1879	(757)	CHARACTER	8	DOFDADDN	
1887	(75F)	ADDRESS	2	DOFDATU4	UNITCT=
1893	(765)	ADDRESS	1	DOFDAUCT	NN
1894	(766)	ADDRESS	2	DOFDATU5	DISP=CATLG
1901	(76D)	ADDRESS	2	DOFDATU6 (3)	UNIT=
1907	(773)	CHARACTER	8	DOFDAUNI	NAME (FROM XDCTUNIT)
1915	(77B)	ADDRESS	2	DOFDATU7 (3)	VOLUME COUNT
1921	(781)	ADDRESS	1	DOFDAVOL	MAXIMUM VOLUMES = 255
1922	(782)	ADDRESS	2	DOFDATU8 (3)	LABEL=

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
1928	(788)	ADDRESS	1	DOFDALBL	LABEL TYPE (SL,NL,AL,...)
1929	(789)	ADDRESS	2	DOFDATU9 (3)	RETENTION PERIOD
1935	(78F)	ADDRESS	2	DOFDARPD	IN DAYS
1937	(791)	ADDRESS	2	DOFDATUA (2)	SAF PROTECTION OPTION
1941	(795)	ADDRESS	2	DOFDATUB (2)	UNIT=(,,DEFER)
1945	(799)	CHARACTER	1	DOFDATNN (0)	End of text units

Comment

DYNAMIC UN-ALLOCATE PARAMETER LIST

End of Comment

1948	(79C)	ADDRESS	4	DOFDUST	
1952	(7A0)	ADDRESS	1	DOFDURB	LENGTH OF RB
1953	(7A1)	ADDRESS	1		UNALLOCATE VERB CODE
1954	(7A2)	ADDRESS	1	(2)	FLAGS1 = DON'T USE EXISTING ALLOC
1956	(7A4)	SIGNED	2	(2)	ERROR AND INFO CODE
1960	(7A8)	ADDRESS	4	DOFDUTPP	POINTER TO TU POINTERS
1964	(7AC)	ADDRESS	4		RESERVED
1968	(7B0)	ADDRESS	1	(4)	FLAGS 2 FIELD
1972	(7B4)	ADDRESS	4	DOFDUTP1	
1976	(7B8)	ADDRESS	2	DOFDUTU1	DD NAME
1982	(7BE)	CHARACTER	8	DOFDUDDN	
1992	(7C8)	SIGNED	4	DOFOPRM (0)	ALIGN LIST TO FULLWORD
1992	(7C8)	ADDRESS	1		OPTION BYTE
1993	(7C9)	ADDRESS	3		DCB ADDRESS
1996	(7CC)	SIGNED	4	DOFABDCC	ABEND COMPLETION CODE
2000	(7D0)	ADDRESS	4	DOFDCTPT	POINTER TO DCT FOR RECOVERY
2004	(7D4)	SIGNED	4	DOFWTECB	

Comment

Pseudo-buffer area for SYNAD/EODAD exits to use
for 80-byte header of offload data set.
DOFFLAG maps to SPBFLAG1; DOFSYBUF is the origin
which corresponds to the start of the buffer.

End of Comment

2008	(7D8)	BITSTRING	1	DOFFLAG	FLAG FOR SYNAD ROUTINE
		1...		DOFSYNAD	"B'10000000'" I/O ERROR HAS OCCURED
		.1..		DOFEODAD	"B'01000000'" END OF DATA HAS OCCURED
2008	(7D8)	X'7B6'	0	DOFSYBUF	"DOFFLAG-(SPBFLAG1-BFPDSECT)" Beginning of pseudo-buffer
2009	(7D9)	BITSTRING	3		Reserved for future use

Comment

Work area for messages issued from the offload
subtask

End of Comment

2012	(7DC)	SIGNED	4	(0)	
2012	(7DC)	SIGNED	4	DOFMSGA (0)	
2012	(7DC)	ADDRESS	2		TEXT LENGTH
2014	(7DE)	BITSTRING	2		MCSFLAGS
2016	(7E0)	ADDRESS	4		MESSAGE TEXT ADDRESS
2020	(7E4)	ADDRESS	1		VERSION LEVEL
2021	(7E5)	BITSTRING	1		MISCELLANEOUS FLAGS
2022	(7E6)	ADDRESS	1		REPLY LENGTH
2023	(7E7)	ADDRESS	1		LENGTH OF WPX
2024	(7E8)	BITSTRING	2		EXTENDED MCS FLAGS
2026	(7EA)	ADDRESS	2		RESERVED
2028	(7EC)	ADDRESS	4		REPLY BUFFER ADDRESS
2032	(7F0)	ADDRESS	4		REPLY ECB ADDRESS

$DTEOFF Cross Reference

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
2036	(7F4)	ADDRESS	4		CONNECT ID
2040	(7F8)	BITSTRING	2		DESCRIPTOR CODES
2042	(7FA)	ADDRESS	2		RESERVED
2044	(7FC)	BITSTRING	16		
2060	(80C)	BITSTRING	2		MESSAGE TYPE
2062	(80E)	ADDRESS	2		MESSAGE'S PRIORITY
2064	(810)	CHARACTER	8		JOB ID
2072	(818)	CHARACTER	8		JOB NAME
2080	(820)	CHARACTER	8		RETRIEVAL KEY
2088	(828)	ADDRESS	4		TOKEN FOR DOM
2092	(82C)	ADDRESS	4		CONSOLE ID
2096	(830)	CHARACTER	8		SYSTEM NAME
2104	(838)	CHARACTER	8		CONSOLE NAME
2112	(840)	ADDRESS	4		REPLY CONSOLE NAME/ID ADDR
2116	(844)	ADDRESS	4		CART ADDRESS
2120	(848)	ADDRESS	4		WSPARM ADDRESS
2120	(848)	X'70'	0	DOFMSGAL	"*-DOFMSGA"
2124	(84C)	ADDRESS	2	DOFMSGL	
2126	(84E)	CHARACTER	100	DOFMSG	
2126	(84E)	X'2AA'	0	DOFWLEN	"*-DOFWSTRT"

$DTEOFF Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
DOFABDCC	7CC		DOFDCB	65C	608
DOFABND	6C0		DOFDCBE	696	660
DOFCHEKR	608	C	DOFDCBES	660	C4C3C2C5
DOFCLOSR	608	8	DOFDCBST	608	
DOFDADDN	757		DOFDCTPT	7D0	
DOFDADSN	71E		DOFDECB	698	0
DOFDADSP	750	1	DOFDUDDN	7BE	
DOFDAERR	6DC	0	DOFDURB	7A0	
DOFDALBL	788		DOFDUST	79C	
DOFDARB	6D8		DOFDUTPP	7A8	
DOFDARPD	78F		DOFDUTP1	7B4	
DOFDAST	6D4		DOFDUTU1	7B8	
DOFDATNN	799		DOFEODAD	7D8	40
DOFDATPA	710		DOFFLAG	7D8	0
DOFDATPB	714		DOFHDATE	6B4	0
DOFDATPP	6E0		DOFHDBUF	6AC	0
DOFDATP1	6EC		DOFHDLEN	6B8	14
DOFDATP2	6F0		DOFHNODE	6B8	40404040
DOFDATP3	6F4		DOFHTIME	6B0	0
DOFDATP4	6F8		DOFHVRSN	6AC	
DOFDATP5	6FC		DOFHVRS1	6AC	2
DOFDATP6	700		DOFMSG	84E	40404040
DOFDATP7	704		DOFMSGA	7DC	
DOFDATP8	708		DOFMSGAL	848	70
DOFDATP9	70C		DOFMSGL	84C	
DOFDATUA	791		DOFOPENR	608	4
DOFDATUB	795		DOFOPRM	7C8	
DOFDATU1	718		DOFSYBUF	7D8	7B6
DOFDATU2	74A		DOFSYNAD	7D8	80
DOFDATU3	751		DOFWLEN	84E	2AA
DOFDATU4	75F		DOFWSTRT	608	
DOFDATU5	766		DOFWTECB	7D4	0
DOFDATU6	76D		DTE	0	
DOFDATU7	77B				
DOFDATU8	782				
DOFDATU9	789				
DOFDAUCT	765				
DOFDAUNI	773				
DOFDAVOL	781				

$DTESPL Information

$DTESPL Programming Interface information

Programming Interface information

$DTESPL

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

- SPLSTWA

End of Programming Interface information

$DTESPL Heading Information

Common Name: HASP Dynamic Spool Allocation DTE Work Area
Macro ID: $DTESPL
DSECT Name: DTE ($DTESPL is part of the DTE DSECT)
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: 'DTE '
Offset: DTEID-DTE
Length: 4
Storage Attributes: Subpool: See $DTE
Key: See $DTE
Residency: See $DTE
Size: See the DTELEN equate for the length of the base DTE, and DSPLLEN for the length of a Dynamic Spool Allocation DTE extension.
Created by: Created by $DTEDYN ATTACH during JES2 initialization. The subtask (and DTE) definitions are defined by the $DTETAB definitions.
Pointed to by: The $DTESPOL field of the $HCT data area points into $DTEORG/$DTELAST chain to the first HOSPOOL DTE. See $DTE for other pointer fields that apply to all DTE types.
Serialization: This work area is used serially by the HOSPOOL subtask. No special serialization is necessary.
Function: The Spool Allocation DTE work area DSECT, $DTESPOL, defines a work area used by the JES2 Dynamic Spool Allocation subtask (HOSPOOL).
The mapping defines the fields after label DTEWORK.
This mapping is only used to map DTEs with the value DTEIDSPL in the field DTESTID, indicating this DTE is a Dynamic Spool Allocation DTE.

$DTESPL Map

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	0	DTE	HASP SPOOL ALLOCATION WORK AREA
1544	(608)	CHARACTER	1	SPLSTART (0)	Start of SPL mapping
1544	(608)	ADDRESS	4	SPLUCBPT	UCB address
1548	(60C)	ADDRESS	4	SPLECBA	Address of ECB for subtask
1552	(610)	ADDRESS	4	SPLTGMA	Volume TGM work area
1556	(614)	BITSTRING	32	SPLENQTK	ISGENQ token
1588	(634)	ADDRESS	4	SPLSTWA	Address subtask work area
1592	(638)	SIGNED	4	(10)	Reserved for future use
1592	(638)	X'58'	0	SPLNCLEA	"*-SPLUCBPT" Length to be *not* zeroed
1632	(660)	CHARACTER	1	SPLCSTRT (0)	Fields to be zeroed
1632	(660)	BITSTRING	1	SPLFLG1	REQUEST FLAG BYTE
		1...		SPL1FMT	"B'10000000'" Volume to be formatted
		.1..		SPL1NFMT	"B'01000000'" Volume not to be formatted
		..1.		SPL1MFMT	"B'00100000'" Vol to be mini-formatted
		...1		SPL1UNAL	"B'00010000'" Volume to be unallocated
		.... 1...		SPL1ALLO	"B'00001000'" Volume to be allocated
		.... .1..		SPL1BAD	"B'00000100'" Task attached for BADTRACK
		.... ..1.		SPL1WFMT	"B'00000010'" Volume was formatted
1633	(661)	BITSTRING	1	SPLFLG2	ERROR FLAG BYTE
		1...		SPL2OBT	"B'10000000'" OBTAIN error
		.1..		SPL2FMT	"B'01000000'" I/O error during formatting
		..1.		SPL2RDER	"B'00100000'" SPOOL read or block length error
		...1		SPL2UNAL	"B'00010000'" Dynamic allocate error

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
		.... 1...		SPL2ABND	"B'00001000'" Sub-task ABENDed
		.... .1..		SPL2DVTP	"B'00000100'" DEVTYPE error
		.... ..1.		SPL2EXT	"B'00000010'" Extent size limited to 64K tracks due to number of records per track exceeds 15.
		1		SPL2SIZE	"B'00000001'" Data set size error
1634	(662)	BITSTRING	1	SPLFLG3	Subtask status flags
		1...		SPL3TGBG	"B'10000000'" Formatting 1st trk in TG
		.1..		SPL3ECKD	"B'01000000'" This is ECKD device
		..1.		SPL3RDTD	"B'00100000'" Extent supports read track data CCW
		...1		SPL3WTRD	"B'00010000'" Extent supports write track data CCW
		.... 1...		SPL3RELT	"B'00001000'" Volume using relative addressing
		.... .1..		SPL3LGDS	"B'00000100'" Volume using large data set addressing
		.... ..1.		SPL3NLGD	"B'00000010'" Not all members support large data sets
		1		SPL3RPS	"B'00000001'" Extent supports RPS
1635	(663)	BITSTRING	1	SPLFLG4	Additional ERROR flag byte
		1...		SPL4ENQF	"B'10000000'" Exclusive ENQ unable to be obtained
		.1..		SPL4UCBF	"B'01000000'" UCBINFO macro failed
		..1.		SPL4CDRF	"B'00100000'" IOSCDR macro failed
		...1		SPL4NNED	"B'00010000'" No NED found
		.... 1...		SPL4DIAG	"B'00001000'" DIAGNOSE inst error
		.... .1..		SPL4NQSK	"B'00000100'" ENQ bypassed due to minor name construction problem(warm start only)
		.... ..1.		SPL4LSPA	"B'00000010'" LSPACE error - Error obtaining information on largest extent available
		1		SPL4LIMT	"B'00000001'" Spool dataset extent size exceeds 1,048,575 track limit
1636	(664)	SIGNED	4	SPLNUMTC	$SSPL and this field contains the number of cylinders or tracks requested for a new volume if the $SSPL SPACE parm was specified
1640	(668)	BITSTRING	1	SPLFLG5	Additional flag byte
		1...		SPL5MAX	"B'10000000'" MAX - $SSPL and MAX has been specified on SPACE keyword parm
		.1..		SPL5CYLS	"B'01000000'" CYL - $SSPL and CYL has been specified on SPACE keyword parm
		..1.		SPL5TRKS	"B'00100000'" TRK - $SSPL and TRK has been specified on SPACE keyword parm
		...1		SPL5DSET	"B'00010000'" The spool subtask HOSPOOL created a spool dataset for this volume.
		.... 1...		SPL5EASA	"B'00001000'" The HOSPOOL subtask allocation is EAS capable. This pertains to both disp(new/old).
		.... .1..		SPL5MIDA	"B'00000100'" The extent supports MIDAWs
		.... ..1.		SPL5LARG	"B'00000010'" Non-LARGEDS is NOT option if records per track > 15. For move migration - handles difference in recs per track geometry when source is on 3380 and target is on 3390 and BUFSIZE is certain value.
1641	(669)	BITSTRING	1	SPLFLG6	Additional ERROR flag byte WARNING!! only used for spool subtask errors - SPLFLG2 also reflects subtask errors.
		1...		SPL6TRKG	"B'10000000'" Spool extent is too small
		.1..		SPL6DSNL	"B'01000000'" Non-standard DSNAME requested in z2 mode
		..1.		SPL6XTER	"B'00100000'" Extend spool failure
1642	(66A)	BITSTRING	1	SPLFLG7	Additional request flg byte
		1...		SPL7XTND	"B'10000000'" The HOSPOOL subtask request is EXTEND SPOOL
		.1..		SPL7ENQ	"B'01000000'" The SPOOL ENQ is held
1643	(66B)	BITSTRING	1		Ensure alignment
1644	(66C)	SIGNED	4	SPLURC	UCBINFO return code
1648	(670)	SIGNED	4	SPLURSN	UCBINFO reason code
1652	(674)	ADDRESS	4	SPLCHAIN	ADDRESS OF NEXT WORK AREA
1656	(678)	ADDRESS	4	SPLDYNAL	ADDRESS OF DYNAMIC ALLOCATE RB
1660	(67C)	SIGNED	4	SPLDYNRB (0)	Dynamic allocate req block
1680	(690)	SIGNED	4	(0)	Ensure alignment
1680	(690)	BITSTRING	36	SPLDYRBX	Request block extension
1716	(6B4)	SIGNED	4	(0)	Ensure alignment
1716	(6B4)	ADDRESS	4	SPLDYMPA	Address of DYNALLOC alloc error message parameter list

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
1720	(6B8)	ADDRESS	4	SPLDMSG1	Address of returned MSG #1 for DYNALLOC failure
1724	(6BC)	ADDRESS	4	SPLDMSG2	Address of returned MSG #2 for DYNALLOC failure
1728	(6C0)	BITSTRING	540	SPLDYMSP	The parm list + returned formatted messages area
2268	(8DC)	SIGNED	4	SPLOBTER	Obtain error return code
2272	(8E0)	ADDRESS	4	SPLTEXT (0)	LIST OF TEXT UNIT POINTERS
2272	(8E0)	ADDRESS	4	SPLDDTA	POINTER TO DDNAME TEXT UNIT
2276	(8E4)	ADDRESS	4	SPLDSNTA	POINTER TO DSNAME TEXT UNIT
2280	(8E8)	ADDRESS	4	SPLUDSPA (0)	POINTER TO DISP. TEXT UNIT FOR UNALLOCATION REQUESTS
2280	(8E8)	ADDRESS	4	SPLVOLTA	POINTER TO VOLUME SERIAL TXT UNIT
2284	(8EC)	ADDRESS	4	SPLUNITA	POINTER TO UNIT NAME TEXT UNIT
2288	(8F0)	ADDRESS	4	SPLDSPTA	POINTER TO DISPOSITION TEXT UNIT
				Comment	

				End of text unit pointers common for both deallocation and allocation.	

				End of Comment	
2292	(8F4)	ADDRESS	4	SPLEASTA	Pointer to EAS storage indicator. Valid for allocation DISP=(old/new)
				Comment	

				Following text unit pointers are only valid for allocation (disp=new).	

				End of Comment	
2296	(8F8)	ADDRESS	4	SPLTRKNA	Pointer to track requested text unit
2300	(8FC)	ADDRESS	4	SPLNUMTA	Pointer to number of units requested - text unit
2304	(900)	ADDRESS	4	SPLCONTA	Pointer to contiguous storage requested - text unit
2308	(904)	ADDRESS	4	SPLDKEPA	Pointer to data space disposition (KEEP) - TEXT unit
2312	(908)	ADDRESS	4	SPLDSORA	Pointer to DSORG requested text unit
2316	(90C)	ADDRESS	4	SPLDSTYA	Pointer to data set type specification
2320	(910)	BITSTRING	6	SPLDDTXT	DDNAME TEXT
2326	(916)	CHARACTER	8	SPLDDNAM	DDNAME
2334	(91E)	BITSTRING	6	SPLDSTXT	DSNAME TEXT
2340	(924)	CHARACTER	44	SPLDSNAM	DSNAME
2384	(950)	BITSTRING	6	SPLVLTXT	VOLUME SERIAL TEXT
2390	(956)	CHARACTER	6	SPLVOLID	VOLUME SERIAL
2396	(95C)	BITSTRING	6	SPLUNTXT	UNIT TEXT
2402	(962)	CHARACTER	5	SPLUNIT	Unit Name (or Type)
2410	(96A)	BITSTRING	7	SPLDPTXT	DISPOSITION TEXT, DISPOSITION
2417	(971)	BITSTRING	4	SPLTRACK	Tracks requested text
2421	(975)	BITSTRING	9	SPLNUMTK	Number units requested text
2430	(97E)	BITSTRING	7	SPLCONTX	Contig storage request text
2437	(985)	BITSTRING	8	SPLDSORT	Data set organization text
2445	(98D)	BITSTRING	7	SPLDSKEP	Data set disp (KEEP) text
2452	(994)	BITSTRING	7	SPLDSTYP	Data set type = basic or large format
2459	(99B)	BITSTRING	7	SPLEASTX	Data set may or may not reside in EAS storage
2468	(9A4)	SIGNED	4	SPLCMLST (4)	CAMLST FOR OBTAIN
2488	(9B8)	DBL WORD	8	SPLDSCB (0)	OBTAIN WORK AREA
2636	(A4C)	BITSTRING	1	SPLINEAS	Indication that all or at least a portion of the extent resides in EAV - EAS storage.
		1...		SPLEAS	"B'10000000'" Yes - in EAS
2637	(A4D)	BITSTRING	3		Reserved for future use
2640	(A50)	SIGNED	4	(0)	Ensure alignment
2640	(A50)	CHARACTER	8	SPLSTRCC (0)	VOLUME'S FIRST EXTENT
2640	(A50)	SIGNED	2	SPLOWLIM (2)	LOWER CCccch of 1st extent Note: stored in absolute format
2644	(A54)	SIGNED	2	SPLUPLIM (2)	UPPER CCccch of 1st extent Note: stored in absolute format

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
2648	(A58)	SIGNED	4	SPLCRC	IOSCDR return code
2652	(A5C)	SIGNED	4	SPLCRSN	IOSCDR reason code

Comment

SPLABS is the absolute start and end track returned from allocating a spool data set.
SPLTRK is the 2 byte track range that is to be placed in the DAS. SPLTRK are relative track numbers if SPL3RELT is on, otherwise they are absolute track numbers. if relative addresses are used, the low track is always 1.
SPLSTRK is the value to add to a relative track address to get an absolute track address. If absolute addressing is being used, SPLSTRK is zero. (You can always add SPLSTRK to a track address to obtain an absolute track address).

End of Comment

2656	(A60)	DBL WORD	8	SPLABS (0)	DS start/end absolute track
2656	(A60)	SIGNED	4	SPLOWABS	Start absolute track no.
2660	(A64)	SIGNED	4	SPLUPABS	End absolute track number
2664	(A68)	DBL WORD	8	SPLTRK (0)	SPOOL start and end track
2664	(A68)	SIGNED	4	SPLOWTRK	Start track value
2668	(A6C)	SIGNED	4	SPLUPTRK	End track value
2672	(A70)	SIGNED	4	SPLSTRK	Base track address (if relative addressing used)
2676	(A74)	SIGNED	4	SPLECB	DIRECT ACCESS I/O WAIT ECB
2680	(A78)	BITSTRING	44	SPLIOB	Direct access IOB
2724	(AA4)	BITSTRING	48	SPLIOBE	Reserve space for IOB extension
2772	(AD4)	SIGNED	4	(0)	Ensure word alignment
2772	(AD4)	BITSTRING	48	SPLIEDB	Reserve space for I/O error data block
2820	(B04)	BITSTRING	1	SPLDEB	SPOOL DEB address
2820	(B04)	X'B04'	0	SPLDEBB	"SPLDEB,DEBBASIZ" DEB basic
2820	(B04)	X'B24'	0	SPLDEBE	"SPLDEB+DEBBASIZ,DEBEXLEN" Single DA extent
2868	(B34)	ADDRESS	4	SPLNVL	NVL address (during init)
2872	(B38)	ADDRESS	4	SPLTCBPT	TCB ADDRESS (USED DURING INIT.)
2876	(B3C)	SIGNED	4	SPLTKCYL	NUMBER OF HEADS PER CYLINDER
2880	(B40)	SIGNED	2	SPLNORTK	NUMBER OF RECORDS PER TRACK
2882	(B42)	SIGNED	2	SPLNOTGP	NUMBER OF TRACKS PER GROUP
2884	(B44)	SIGNED	4	SPLINTRK	Expected number of tracks or zero (set from DAS on warm start)
2888	(B48)	SIGNED	4	SPLNMTRK	Number of tracks in extent
2892	(B4C)	SIGNED	4	SPLNOBYM	Number of bytes in TGM
2896	(B50)	SIGNED	4	SPLNUMTG	NUMBER OF USABLE TRACK GROUPS
2900	(B54)	SIGNED	4	SPLMAXTG	Copy of $NUMTG from HCT
2904	(B58)	ADDRESS	4	SPLFMTWA	SPFORMAT work area address
2908	(B5C)	SIGNED	4	SPLFMTWL	SPFORMAT work area size
2912	(B60)	ADDRESS	4	SPLFMTWD	Work area data section ptr
2916	(B64)	ADDRESS	4	SPLFMTDA	Format buffer write area
2920	(B68)	DBL WORD	8	SPLCCWS (0)	CCWS FOR READ COUNT-KEY-DATA
2920	(B68)	DBL WORD	8	SPLCCW1	1ST CCW
2928	(B70)	DBL WORD	8	SPLCCW2	2ND CCW
2936	(B78)	DBL WORD	8	SPLCCW3	3RD CCW
2944	(B80)	DBL WORD	8	SPLRDCT	READ-IN AREA
2952	(B88)	ADDRESS	4	SPLCFLDS	POINTER TO 8 BEFORE 1ST COUNT FLD

Comment

Fields used as input to SPFORMAT

End of Comment

2960	(B90)	DBL WORD	8	(0)	Alignment

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
2960	(B90)	CHARACTER	7	SPLFMSTR	MBBCCHH of the first/only track to be formatted
2967	(B97)	CHARACTER	1		Reserved
2968	(B98)	CHARACTER	7	SPLFMEND	MMBBCCHH of last track to be formatted.
2975	(B9F)	CHARACTER	1		Reserved
				Comment	

					Input parameters for SPMINIFM (mapped by SFMPARM in HASPSPOL)

				End of Comment	
2976	(BA0)	BITSTRING	1	SPLMFPRM	SPMINIFM parameter list
				Comment	
					SPLOUTP and SPLOUTPL describe an output area used by the UCBINFO and IOSCDR macros.
				End of Comment	
3008	(BC0)	ADDRESS	4	SPLOUTP	Address of output area
3012	(BC4)	SIGNED	4	SPLOUTPL	Length of output area
3016	(BC8)	SIGNED	4	SPLCDRAS	Size of IOSCDR output area necessary
3020	(BCC)	SIGNED	4	SPLDIAGR	DIAGNOSE return code
3024	(BD0)	BITSTRING	1	SPLCHPID	CHPID used for IOSCDR
3025	(BD1)	BITSTRING	3		Reserved for future use
3028	(BD4)	SIGNED	4	(4)	Reserved for future use
3048	(BE8)	DBL WORD	8	SPLEXDS (0)	
3048	(BE8)	CHARACTER	1		
3048	(BE8)	X'64'	0	SPLEXDLN	"*-SPLEXDS" Length of parm list
3148	(C4C)	SIGNED	4	SPLMXTRK	Maximum number of tracks allowed in a SPOOL.
3152	(C50)	BITSTRING	1	SPLEXTNO	Extent number
3153	(C51)	CHARACTER	1		Reserved for alignment
				Comment	
					MACDATE -01/22/01-<1>
				End of Comment	
0	(0)	X'C58'	0	M00M1130	"SPLCAPU" ++ IOSCAPU NAME
3160	(C58)	DBL WORD	8	SPLCAPU (0)	++ IOSCAPU PARM LIST
3160	(C58)	BITSTRING	1	SPLCAPU_XVERSION	++ INPUT XVERSION
3161	(C59)	BITSTRING	1	SPLCAPU_XFLAGS1	++ FIELD_LABEL
		1...		SPLCAPU_KEYUSED_CAPTUCB	"B'10000000'" ++ KEYUSED.CAPTUCB KEYWORD
		.1..		SPLCAPU_KEYUSED_UCAPTUCB	"B'01000000'" ++ KEYUSED.UCAPTUCB KEYWORD
		..1.		SPLCAPU_KEYUSED_CAPTOACT	"B'00100000'" ++ KEYUSED.CAPTOACT KEYWORD
		...1		SPLCAPU_KEYUSED_ASID	"B'00010000'" ++ KEYUSED.ASID KEYWORD
		.... 1...		SPLCAPU_KEYUSED_UCBPTR	"B'00001000'" ++ KEYUSED.UCBPTR KEYWORD
		.... .1..		SPLCAPU_KEYUSED_CAPTPTR	"B'00000100'" ++ KEYUSED.CAPTPTR KEYWORD
3162	(C5A)	CHARACTER	2	SPLCAPU_XRESERVED1	++ FIELD_LABEL XRESERVED1
3164	(C5C)	ADDRESS	4	SPLCAPU_XUCBPTR	++ XUCBPTR
3168	(C60)	ADDRESS	4	SPLCAPU_XCAPTPTR	++ XCAPTPTR

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
3172	(C64)	CHARACTER	1	SPLCAPU_XRESERVED2	++ FIELD_LABEL XRESERVED2
3173	(C65)	BITSTRING	1	SPLCAPU_XMASK	++ FIELD_LABEL
		1...		SPLCAPU_XMSIFREE_YES	"B'10000000'" ++ XMSIFREE.YES KEYWORD
		.1..		SPLCAPU_XLASTING_YES	"B'01000000'" ++ XLASTING.YES KEYWORD
		..1.		SPLCAPU_XCAPTCOM_YES	"B'00100000'" ++ XCAPTCOM.YES KEYWORD
		...1		SPLCAPU_XCAPTCOM_NEVER	"B'00010000'" ++ XCAPTCOM.NEVER KEYWORD
3174	(C66)	BITSTRING	2	SPLCAPU_XASID	++ XASID
3176	(C68)	CHARACTER	16	SPLCAPU_XRESERVED3	++ FIELD_LABEL XRESERVED3
3176	(C68)	X'20'	0	SPLCAPUL	"*-SPLCAPU" ++ LENGTH OF PLIST
Comment					
		IOSCAPU-1			
End of Comment					
0	(0)	X'9B8'	0	SPLMSG	"SPLDSCB,80" SUBTASK MESSAGE AREA
0	(0)	X'A08'	0	SPLWORK	"SPLDSCB+L'SPLMSG,10" SUBTASK MESSAGE WORK ARES
0	(0)	X'A12'	0	SPLCC	"SPLWORK+L'SPLWORK,4" SUBTASK ABEND COMPLETION CODE
3192	(C78)	DBL WORD	8	(0)	EST DOUBLE WORD ALIGNMENT
3192	(C78)	X'660'	0	SPLCLEAR	"SPLCSTRT" Area to be zeroed
3192	(C78)	X'618'	0	SPLCLRLN	"*-SPLCSTRT" Length of area to clear
3192	(C78)	X'670'	0	DSPLLEN	"*-DTEWORK" Length of work area

$DTESPL Cross Reference

Name	Hex Offset	Hex Value
DSPLLEN	C78	670
DTE	0	
M00M1130	0	C58
SPLABS	A60	
SPLCAPU	C58	
SPLCAPU_KEYUSED_ASID	C59	10
SPLCAPU_KEYUSED_CAPTOACT	C59	20
SPLCAPU_KEYUSED_CAPTPTR	C59	4
SPLCAPU_KEYUSED_CAPTUCB	C59	80
SPLCAPU_KEYUSED_UCAPTUCB	C59	40
SPLCAPU_KEYUSED_UCBPTR	C59	8
SPLCAPU_XASID	C66	
SPLCAPU_XCAPTCOM_NEVER	C65	10
SPLCAPU_XCAPTCOM_YES	C65	20
SPLCAPU_XCAPTPTR	C60	
SPLCAPU_XFLAGS1	C59	
SPLCAPU_XLASTING_YES	C65	40
SPLCAPU_XMASK	C65	
SPLCAPU_XMSIFREE_YES	C65	80
SPLCAPU_XRESERVED1	C5A	
SPLCAPU_XRESERVED2	C64	
SPLCAPU_XRESERVED3	C68	
SPLCAPU_XUCBPTR	C5C	
SPLCAPU_XVERSION	C58	
SPLCAPUL	C68	20
SPLCC	0	A12
SPLCCWS	B68	
SPLCCW1	B68	
SPLCCW2	B70	
SPLCCW3	B78	
SPLCDRAS	BC8	
SPLCFLDS	B88	
SPLCHAIN	674	
SPLCHPID	BD0	
SPLCLEAR	C78	660

Name	Hex Offset	Hex Value
SPLCLRLN	C78	618
SPLCMLST	9A4	
SPLCONTA	900	
SPLCONTX	97E	
SPLCRC	A58	
SPLCRSN	A5C	
SPLCSTRT	660	
SPLDDNAM	916	
SPLDDTA	8E0	
SPLDDTXT	910	
SPLDEB	B04	
SPLDEBB	B04	B04
SPLDEBE	B04	B24
SPLDIAGR	BCC	
SPLDKEPA	904	
SPLDMSG1	6B8	
SPLDMSG2	6BC	
SPLDPTXT	96A	
SPLDSCB	9B8	
SPLDSKEP	98D	
SPLDSNAM	924	
SPLDSNTA	8E4	
SPLDSORA	908	
SPLDSORT	985	
SPLDSPTA	8F0	
SPLDSTXT	91E	
SPLDSTYA	90C	
SPLDSTYP	994	
SPLDYMPA	6B4	
SPLDYMSP	6C0	
SPLDYNAL	678	
SPLDYNRB	67C	
SPLDYRBX	690	
SPLEAS	A4C	80
SPLEASTA	8F4	
SPLEASTX	99B	
SPLECB	A74	
SPLECBA	60C	
SPLENQTK	614	
SPLEXDLN	BE8	64
SPLEXDS	BE8	
SPLEXTNO	C50	
SPLFLG1	660	
SPLFLG2	661	
SPLFLG3	662	
SPLFLG4	663	
SPLFLG5	668	
SPLFLG6	669	
SPLFLG7	66A	
SPLFMEND	B98	
SPLFMSTR	B90	
SPLFMTDA	B64	
SPLFMTWA	B58	
SPLFMTWD	B60	
SPLFMTWL	B5C	
SPLIEDB	AD4	
SPLINEAS	A4C	
SPLINTRK	B44	
SPLIOB	A78	
SPLIOBE	AA4	
SPLMAXTG	B54	
SPLMFPRM	BA0	
SPLMSG	0	9B8
SPLMXTRK	C4C	
SPLNCLEA	638	58
SPLNMTRK	B48	
SPLNOBYM	B4C	
SPLNORTK	B40	
SPLNOTGP	B42	
SPLNUMTA	8FC	
SPLNUMTC	664	
SPLNUMTG	B50	
SPLNUMTK	975	
SPLNVL	B34	
SPLOBTER	8DC	
SPLOUTP	BC0	
SPLOUTPL	BC4	
SPLOWABS	A60	
SPLOWLIM	A50	
SPLOWTRK	A68	
SPLRDCT	B80	
SPLSTART	608	
SPLSTRCC	A50	
SPLSTRK	A70	
SPLSTWA	634	
SPLTCBPT	B38	
SPLTEXT	8E0	
SPLTGMA	610	
SPLTKCYL	B3C	
SPLTRACK	971	
SPLTRK	A68	
SPLTRKNA	8F8	
SPLUCBPT	608	
SPLUDSPA	8E8	
SPLUNIT	962	
SPLUNITA	8EC	
SPLUNTXT	95C	
SPLUPABS	A64	
SPLUPLIM	A54	
SPLUPTRK	A6C	
SPLURC	66C	
SPLURSN	670	
SPLVLTXT	950	
SPLVOLID	956	
SPLVOLTA	8E8	
SPLWORK	0	A08
SPL1ALLO	660	8
SPL1BAD	660	4
SPL1FMT	660	80
SPL1MFMT	660	20
SPL1NFMT	660	40
SPL1UNAL	660	10
SPL1WFMT	660	2
SPL2ABND	661	8
SPL2DVTP	661	4
SPL2EXT	661	2
SPL2FMT	661	40
SPL2OBT	661	80
SPL2RDER	661	20
SPL2SIZE	661	1
SPL2UNAL	661	10
SPL3ECKD	662	40
SPL3LGDS	662	4
SPL3NLGD	662	2
SPL3RDTD	662	20
SPL3RELT	662	8
SPL3RPS	662	1
SPL3TGBG	662	80
SPL3WTRD	662	10
SPL4CDRF	663	20

Name	Hex Offset	Hex Value
SPL4DIAG	663	8
SPL4ENQF	663	80
SPL4LIMT	663	1
SPL4LSPA	663	2
SPL4NNED	663	10
SPL4NQSK	663	4
SPL4UCBF	663	40
SPL5CYLS	668	40
SPL5DSET	668	10
SPL5EASA	668	8
SPL5LARG	668	2
SPL5MAX	668	80
SPL5MIDA	668	4
SPL5TRKS	668	20
SPL6DSNL	669	40
SPL6TRKG	669	80
SPL6XTER	669	20
SPL7ENQ	66A	40
SPL7XTND	66A	80

$DTESUBS Information

$DTESUBS Programming Interface information

Programming Interface information

$DTESUBS

End of Programming Interface information

$DTESUBS Heading Information

Common Name: HASPSUBS DTE Work Area Extension
Macro ID: $DTESUBS
DSECT Name: DTE
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: DTE
Offset: DTEID
Length: L'DTEID
Storage Attributes: Subpool: 0
Key: 1
Residency: Virtual in 24 bit storage, real in 31 bit storage in the JES2 address space
Size: See DSUBLEN
Created by: $DTEDYNA service in HASPDYN
Pointed to by: $DTEGSUB field of the HCT data area
DTENEXT field of the DTE data area
DTEPREV field of the DTE data area
SBWQORG field of the STWORK data area
DSUBNXT field of the DTE data area
Serialization: None required
Function: The $DTESUBS DSECT maps the work area extension for the HASPSUBS subtask(s).

$DTESUBS Map

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	0	DTE	HASPSUBS DTE work area ext
1544	(608)	BITSTRING	1	DSUBFLG1	Flags
		1...		DSUB1NSQ	"B'10000000'" SQD invalid or unavailable
		.1..		DSUB1DEC	"B'01000000'" Subtask count decremented
1545	(609)	BITSTRING	3		Reserved
1548	(60C)	ADDRESS	4	DSUBSQD	Address of work SQD
1552	(610)	ADDRESS	4	DSUBNXT	Address of next subtask in chain
1556	(614)	ADDRESS	4	DSUBSAVE	Address of save area used by called routine
Comment					
Subtask VRA and recovery fields.					
End of Comment					
1560	(618)	ADDRESS	4	DSUBLOC	HA$PSUBS base address
1564	(61C)	SIGNED	2	DSUBABND	Subtask abend count
1566	(61E)	BITSTRING	2		Reserved
1568	(620)	CHARACTER	8	DSUBRNAM	Routine name
1576	(628)	ADDRESS	4	DSUBCLRA	$SUBIT caller address
1580	(62C)	CHARACTER	8	DSUBMOD	$SUBIT caller module name
1588	(634)	SIGNED	4	DSUBOFF	$SUBIT caller offset
1592	(638)	BITSTRING	1	DSUBFOOT	Subtask footprint flag byte
		1...		DSUBFTWK	"B'10000000'" Set prior to obtaining work
		.1..		DSUBFTST	"B'01000000'" Set prior to processing request
		..1.		DSUBFTCL	"B'00100000'" Set prior to calling routine
		...1		DSUBFTRC	"B'00010000'" Set following return from routine
		.... 1...		DSUBFTPS	"B'00001000'" Set following caller post
		.... .1..		DSUBFTSQ	"B'00000100'" Set prior to subtask queuing
		.... ..1.		DSUBFTWT	"B'00000010'" Set prior to subtask wait
1593	(639)	BITSTRING	7		Reserved
1600	(640)	DBL WORD	8	DSUBPRFS (0)	Perf stats for SUBSPERF
1600	(640)	DBL WORD	8	DSUBQTIM	Last SQD queue time (micro)
1608	(648)	DBL WORD	8	DSUBRTIM	Last SQD run time (micro)
1616	(650)	DBL WORD	8	DSUBCTIM	Last SQD CPU time (micro)

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
1624	(658)	DBL WORD	8		Reserved
1624	(658)	X'58'	0	DSUBLEN	"*-DTEWORK" HASPSUBS work area length

$DTESUBS Cross Reference

Name	Hex Offset	Hex Value
DSUBABND	61C	
DSUBCLRA	628	
DSUBCTIM	650	
DSUBFLG1	608	
DSUBFOOT	638	
DSUBFTCL	638	20
DSUBFTPS	638	8
DSUBFTRC	638	10
DSUBFTSQ	638	4
DSUBFTST	638	40
DSUBFTWK	638	80
DSUBFTWT	638	2
DSUBLEN	658	58
DSUBLOC	618	
DSUBMOD	62C	
DSUBNXT	610	
DSUBOFF	634	
DSUBPRFS	640	
DSUBQTIM	640	
DSUBRNAM	620	
DSUBRTIM	648	
DSUBSAVE	614	
DSUBSQD	60C	
DSUB1DEC	608	40
DSUB1NSQ	608	80
DTE	0	

$DTEVTAM Information

$DTEVTAM Programming Interface information

Programming Interface information

$DTEVTAM

End of Programming Interface information

$DTEVTAM Heading Information

Common Name: HASPVTAM subtask DTE work area extension
Macro ID: $DTEVTAM
DSECT Name: DTE ($DTEVTAM is part of the DTE DSECT)
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: 'DTE '
Offset: DTEID-DTE
Length: 4
Storage Attributes: Subpool: see $DTE
Key: see $DTE
Residency: see $DTE
Size: See the DTELEN equate for the length of the base DTE, and the DVTMLEN equate for the length of a VTAM DTE extension.
Created by: $DTEDYN ATTACH, called from JES2 initialization processing to ATTACH the DTEs to be associated with a LOGON device. The subtask (and DTE) definitions are defined in the $DTETAB tables.
Pointed to by: The $DTEVTM pointer in the $HCT control block, pointing into the $DTEORG/$DTELAST chain, to the first VTAM $DTE control block.
See $DTE for other pointer fields that apply to all DTE types.
Serialization: This work area is used serially by the HASPVTAM subtask. No special serialization is necessary.
The chain fields should only be managed by the JES2 main task $DTEDYN and subtask RAS facilities.
Function: This DSECT maps the DTE work area extension for HASPVTAM subtask. The work area is used to pass parameters to VTAM.

$DTEVTAM Map

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

$DTEWTO Information

$DTEWTO Programming Interface information

Programming Interface information

$DTEWTO

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

- CSACID
- CSACIDCH

End of Programming Interface information

$DTEWTO Heading Information

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

The $DTEWTO area is used by the write-to-operator routine running under the JES2 main task. It is also used by the one (and only one) HASPWTO subtask.

$DTEWTO Map

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	0	DTE	HASPCON DTE WORK AREA EXT
1544	(608)	ADDRESS	4	CSACONWQ	HASPCON subtask work queue
				Comment	

				NORMAL WTO FORMAT	

				End of Comment	
1552	(610)	DBL WORD	8	CSA (0)	
1552	(610)	SIGNED	4	CSAWTOL (0)	
1552	(610)	ADDRESS	2		TEXT LENGTH
1554	(612)	BITSTRING	2		MCSFLAGS
1556	(614)	CHARACTER	53		
1681	(691)	ADDRESS	1		VERSION LEVEL
1682	(692)	BITSTRING	1		MISCELLANEOUS FLAGS
1683	(693)	ADDRESS	1		REPLY LENGTH
1684	(694)	ADDRESS	1		LENGTH OF WPX
1685	(695)	BITSTRING	2		EXTENDED MCS FLAGS

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
1687	(697)	ADDRESS	2		RESERVED
1689	(699)	ADDRESS	4		REPLY BUFFER ADDRESS
1693	(69D)	ADDRESS	4		REPLY ECB ADDRESS
1697	(6A1)	ADDRESS	4		CONNECT ID
1701	(6A5)	BITSTRING	2		DESCRIPTOR CODES
1703	(6A7)	ADDRESS	2		RESERVED
1705	(6A9)	BITSTRING	16		
1721	(6B9)	BITSTRING	2		MESSAGE TYPE
1723	(6BB)	ADDRESS	2		MESSAGE'S PRIORITY
1725	(6BD)	CHARACTER	8		JOB ID
1733	(6C5)	CHARACTER	8		JOB NAME
1741	(6CD)	CHARACTER	8		RETRIEVAL KEY
1749	(6D5)	ADDRESS	4		TOKEN FOR DOM
1753	(6D9)	ADDRESS	4		CONSOLE ID
1757	(6DD)	CHARACTER	8		SYSTEM NAME
1765	(6E5)	CHARACTER	8		CONSOLE NAME
1773	(6ED)	ADDRESS	4		REPLY CONSOLE NAME/ID ADDR
1777	(6F1)	ADDRESS	4		CART ADDRESS
1781	(6F5)	ADDRESS	4		WSPARM ADDRESS
1781	(6F5)	X'6F9'	0	CSAWPXEN	"*" END OF WPX

Comment

Extensions for MLWTO. These must IMMEDIATELY follow
the WPX (generated by the WTO list form)

End of Comment

Dec	Hex	Type/Value	Len	Name (Dim)	Description
1785	(6F9)	ADDRESS	2	CSALINET	LINE TYPE FIELD
1787	(6FB)	BITSTRING	1	CSALAREA	AREA ID
1788	(6FC)	BITSTRING	1	CSALNUM	NUMBER OF LINES
1788	(6FC)	X'6FD'	0	CSAMLEND	"*" End of MLWTO extensions

Comment

Map the fields prior to and including the message text

End of Comment

Dec	Hex	Type/Value	Len	Name (Dim)	Description
1552	(610)	SIGNED	2	CSAMSGL	MESSAGE LENGTH + 4
1554	(612)	SIGNED	2	CSAMCS	MCS FLAGS
1556	(614)	CHARACTER	125	CSAMSG	TEXT
1556	(614)	X'81'	0	CSASLEN	"*-CSAMSGL" STANDARD WTO LENGTH
1556	(614)	X'691'	0	CSATRAIL	"*" START OF TRAILER FIELDS
1556	(614)	X'6C'	0	CSALSIZ	"CSAMLEND-CSATRAIL" Length of WPX plus MLWTO extensions

Comment

End of WPL parameter list area

End of Comment

Dec	Hex	Type/Value	Len	Name (Dim)	Description
1792	(700)	SIGNED	4	(0)	Full word align
1792	(700)	CHARACTER	8	CSAJOBID	Job ID
1800	(708)	BITSTRING	3	CSANFM (0)	SYSTEM ID OF SENDER
1800	(708)	BITSTRING	2		NODE NUMBER
1802	(70A)	BITSTRING	1		NODE QUALIFIER
1803	(70B)	BITSTRING	1		RESERVED
1804	(70C)	ADDRESS	4	CSACIDCH	CID (connect id) chain
1808	(710)	ADDRESS	4	CSACID	CID for current CMB

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
1812	(714)	ADDRESS	4	CSACMB	Current CMB
				Comment	

				Workarea for HASPCON PCE level service routines	

				End of Comment	
1816	(718)	BITSTRING	2	CSARDWRK	LOGICAL ROUTING WORK AREA
1818	(71A)	ADDRESS	1	CSAW (4)	
1834	(72A)	BITSTRING	8		
1834	(72A)	X'2A'	0	CSAWLEN	"*-CSAW"
1860	(744)	BITSTRING	1	DWTOFLG1	Flags
		1...		DWTO1WAT	"B'10000000'" $WAIT tolerated by caller
				Comment	
				MGCRE work area	
				End of Comment	
1864	(748)	DBL WORD	8	(0)	Alignment
1864	(748)	SIGNED	2	CSAMGMF (0)	MGCRE PARAMTER LIST
1864	(748)	ADDRESS	1		FLAG FIELD '00'
1865	(749)	ADDRESS	1		RESERVED
1866	(74A)	BITSTRING	1		FLAG FIELD
1867	(74B)	BITSTRING	1		FLAG FIELD 2
1868	(74C)	CHARACTER	5		CONTROL BLOCK ACRONYM 'MGCRE'
1873	(751)	ADDRESS	1		VERSION LEVEL
1874	(752)	BITSTRING	1		FLAG FIELD 3
1875	(753)	ADDRESS	1		RESERVED
1876	(754)	ADDRESS	4		ADDRESS OF THE COMMAND TEXT
1880	(758)	ADDRESS	4		TOKEN
1884	(75C)	CHARACTER	8		CONSOLE NAME
1892	(764)	ADDRESS	4		CONSOLE ID
1896	(768)	BITSTRING	1		COMMAND DISPOSITION
1897	(769)	BITSTRING	2		COMMAND AUTHORITY LEVEL
1899	(76B)	BITSTRING	1		RESERVED
1900	(76C)	BITSTRING	8		COMMAND AND RESPOSE TOKEN
1908	(774)	BITSTRING	8		SYSTEM NAME
1916	(77C)	ADDRESS	4		UTOKEN ADDRESS
1920	(780)	BITSTRING	4		RESERVED
1920	(780)	X'748'	0	CSAMGMFL	"CSAMGMF,*-CSAMGMF" MGCRE list form
1924	(784)	SIGNED	2	CSAMGCLN	Command text length
1926	(786)	CHARACTER	126	CSAMGCMD	Command text
2056	(808)	DBL WORD	8	(0)	
2056	(808)	X'200'	0	DWTOLEN	"*-DTEWORK" LENGTH OF WORK AREA

$DTEWTO Cross Reference

Name	Hex Offset	Hex Value
CSA	610	
CSACID	710	
CSACIDCH	70C	
CSACMB	714	
CSACONWQ	608	
CSAJOBID	700	40404040
CSALAREA	6FB	0
CSALINET	6F9	
CSALNUM	6FC	1
CSALSIZ	614	6C
CSAMCS	612	
CSAMGCLN	784	
CSAMGCMD	786	
CSAMGMF	748	
CSAMGMFL	780	748
CSAMLEND	6FC	6FD
CSAMSG	614	
CSAMSGL	610	
CSANFM	708	
CSARDWRK	718	0
CSASLEN	614	81
CSATRAIL	614	691
CSAW	71A	
CSAWLEN	72A	2A
CSAWPXEN	6F5	6F9
CSAWTOL	610	
DTE	0	
DWTOFLG1	744	
DWTOLEN	808	200
DWTO1WAT	744	80

$DWA Information

$DWA Heading Information

Common Name: HASP $DILBERT Work Area
Macro ID: $DWA
DSECT Name: DWA
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: DWAEYE
Offset: DWAEYE-DWA
Length: L'DWAEYE
Storage Attributes: Subpool: 1
Key: 1
Residency: Virtual and real storage are anywhere in the private storage of the JES2 address space.
Size: See DWASIZE
Created by: $DILBERT service
Pointed to by: Field $DILHEAD in the $HCT data area
Field $DILTAIL in the $HCT data area
Field DWANEXT in the $DWA data area
Field DWAPREV in the $DWA data area
Field DWANXTEL in the $DWA data area
Field DWAPRVEL in the $DWA data area
Serialization: None Required
Function: Represent requests made using the $DILBERT macro instruction that specifies a routine to be called when the BERT lock for a specific job is released.

$DWA Map

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	0	DWA	, HASP $DILBERT Work Area
0	(0)	CHARACTER	4	DWAEYE	Eyecatcher
4	(4)	BITSTRING	1	DWATYPE	Type
5	(5)	BITSTRING	1	DWAPFLG1	Flags See $DILFLG1 in $PARMLST
6	(6)	BITSTRING	1	DWAPFLG2	Flags See $DILFLG2 in $PARMLST
7	(7)	BITSTRING	1	DWAFLAG9	Internal flags
		1...		DWA9QUED	"B'10000000'" DWA was queued

Comment

Backend processing is required when the processing at the end of calling the processing routine which was required to update the BERTs would have required a $WAIT in $DOGBERT.

End of Comment

		.1..		DWA9BEND	"B'01000000'" Backend processing req.
		..1.		DWA9NBRT	"B'00100000'" Failed ... BERT shortage
		...1		DWA9PROS	"B'00010000'" DWA being processed now
		.... 1...		DWA9SPEC	"B'00001000'" Use SPECIAL=YES
		.... .1..		DWA9HEAD	"B'00000100'" Head of side queue
		.... ..1.		DWA9INDI	"B'00000010'" Indirect call to routine
		1		DWA9UNCO	"B'00000001'" Backend processing is for unconditional return
8	(8)	ADDRESS	4	DWANEXT	Address of next DWA
12	(C)	ADDRESS	4	DWAPREV	Address of previous DWA
16	(10)	BITSTRING	4	DWAPARM0	Parameter for register 0
20	(14)	BITSTRING	4	DWAPRMA1	Parameter for AR1

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
24	(18)	ADDRESS	4	DWARTN	Address of routine
28	(1C)	BITSTRING	4	DWAIMMED	Immediate instruction to executed
32	(20)	ADDRESS	4	DWAPCE	Address of PCE to $POST
36	(24)	ADDRESS	4	DWACALR	Address of $DILBERT caller (for diagnostic purposes)
40	(28)	SIGNED	4	DWASTCK	Time of $DILBERT call (for diagnostic purposes)
44	(2C)	ADDRESS	4	DWANXTEL	Next DWA for element (side queue pointer)
48	(30)	ADDRESS	4	DWAPRVEL	Previous DWA for element (side queue pointer)
52	(34)	SIGNED	4	DWAORG (0)	Common origin
				Comment	

				Parameters common to TYPE=JQE and TYPE=JOE	

				End of Comment	
52	(34)	SIGNED	4	DWAOFF	JQE/JOE Offset
56	(38)	ADDRESS	4	DWAART	Address of JQA/JOA
60	(3C)	SIGNED	4	DWABERTS	BERTs required to process
64	(40)	SIGNED	4	DWABSTCK	TOD last time we tried
68	(44)	ADDRESS	4	DWAPCEJQ	Save caller's PCEJQE
72	(48)	ADDRESS	3	DWAJOJQO	Associated JQE index for the DWA.
				Comment	

				Parameters specific to TYPE=JQE	

				End of Comment	
75	(4B)	ADDRESS	1	DWADOGJ	ACTION
76	(4C)	ADDRESS	1	(5)	
81	(51)	ADDRESS	2		
83	(53)	BITSTRING	4	DWAJBKEY	Job Key for JQE DWAs.
				Comment	

				Parameters specific to TYPE=JOE	

				End of Comment	
75	(4B)	ADDRESS	1	(2)	
77	(4D)	ADDRESS	1	(4)	
81	(51)	ADDRESS	4		
85	(55)	CHARACTER	12	DWAJOEID	JOE ID block (JOENAME, JOEID1, JOEID2) for JOE DWAs.
				Comment	

				End of DWA	

				End of Comment	
104	(68)	DBL WORD	8	(0)	Ensure doubleword size
104	(68)	X'68'	0	DWASIZE	"*-DWA" Length of DWA

$DWA Cross Reference

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

$ENFPARM Information

$ENFPARM Heading Information

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

$ENFPARM Map

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	0	ENFPARM	DSECT for ENF parms
0	(0)	SIGNED	4	ENFPENF (0)	START OF ENF PARAMETER LIST
0	(0)	ADDRESS	2		LENGTH OF ENF PARAMETER LIST
2	(2)	ADDRESS	2		REQUESTED ENF ACTION
4	(4)	ADDRESS	4		EVENT CODE
8	(8)	ADDRESS	1		FLAG FIELD
9	(9)	ADDRESS	1		MASK FOR COMPARING QUALIFIERS
10	(A)	ADDRESS	1		KEY FOR FREEPRM
11	(B)	ADDRESS	1		SUBPOOL FOR FREEPRM
12	(C)	ADDRESS	4		QUALIFIER
16	(10)	ADDRESS	4		EXIT ROUTINE ADDRESS
20	(14)	ADDRESS	4		Address of caller's parameters
24	(18)	ADDRESS	4		TOKEN
28	(1C)	ADDRESS	4		Length of caller's parameters
32	(20)	ADDRESS	2		VERSION OF PARM LIST
34	(22)	ADDRESS	2		RESERVED FIELD
36	(24)	ADDRESS	4		RETURN ADDRESS
40	(28)	CHARACTER	8		ESTABLISHER NAME
48	(30)	CHARACTER	8		LISTEN EXIT NAME
56	(38)	ADDRESS	4		LISTENER NUMBER (RETURNED)
60	(3C)	CHARACTER	4		SPECIAL EXIT RETURN CODE
64	(40)	ADDRESS	4	ENFPPTR	Area for ENFPTR - required by ENFREQ macro
64	(40)	X'44'	0	ENFPSIZE	"*-ENFPARM" Size of parameter area

$ENFPARM Cross Reference

Name	Hex Offset	Hex Value
ENFPARM	0	
ENFPENF	0	
ENFPPTR	40	
ENFPSIZE	40	44

$ENFWORK Information

$ENFWORK Programming Interface information

Programming Interface information

$ENFWORK

End of Programming Interface information

$ENFWORK Heading Information

Common Name: HASP ENF LISTEN Processor
Macro ID: $ENFWORK
DSECT Name: PCE ($ENFWORK is part of the PCE DSECT)
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: 'PCE '
Offset: PCEEYE-PCE
Length: 4
Storage Attributes: Subpool: See $PCE
Key: See $PCE
Residency: See $PCE
Size: See symbol ENNPCEWS for the length of this work area. The overall length of the PCE is stored in field PCELENG.
Created by: See $PCE
Pointed to by: The $ENFPCE field of the $HCT data area points into the $PCEORG/$PCELAST chain to the first ENF LISTEN PCE. Since this chain contains all PCEs, use the PCEID field to determine when you have chained past the last PCE of this type. See $PCE for other pointer fields that apply to all PCE types.
Serialization: Normal PCE dispatch serialization
Function: The fields in this work area are used by a JES2 ENF LISTEN Processor and by its support routines and exits. $ENFWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in $ENFWORK are actually part of the PCE DSECT, but only map PCEs with the value PCEENFID in the second byte of field PCEID.

This PCE is not device related. Field PCEDCT is zero.

$ENFWORK Map

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
312	(138)	SIGNED	4	ENNALET	ALET for EVT data space
320	(140)	DBL WORD	8	(0)	
320	(140)	BITSTRING	16	ENNTQE	TQE for deregistration wait
336	(150)	DBL WORD	8	(0)	
336	(150)	BITSTRING	320	ENNPARMS	EVT parameter data
656	(290)	DBL WORD	8	(0)	Force double-word alignment
656	(290)	X'158'	0	ENNPCEWS	"*-PCEWORK" Length of $ENF PCE

$EOMWORK Information

$EOMWORK Heading Information

Common Name: JES2 End of Memory PCE Work Area
Macro ID: $EOMWORK
DSECT Name: PCE ($EOMWORK is part of the PCE DSECT)
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: 'PCE '
Offset: PCEEYE-PCE
Length: 4
Storage Attributes: Subpool: See $PCE
Key: See $PCE
Residency: See $PCE
Size: See symbol EOMPCEWL for the length of this work area. The overall length of the PCE is stored in field PCELENG.
Created by: See $PCE
Pointed to by: The $EOMPCE field of the $HCT data area
The EMSPCE field of the $DTEEOM data area
See $PCE for other pointer fields that apply to all PCE types.
Serialization: Normal PCE dispatch serialization
Function: The fields in this work area are used by the JES2 End of Memory Processor. $EOMWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in $EOMWORK are actually part of the PCE DSECT, but only map PCEs with the value PCEEOMID in the second byte of field PCEID.

This PCE is not device related. Field PCEDCT is zero.

$EOMWORK Map

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
312	(138)	ADDRESS	4	EOMDTE	Address of our EOMDTE
316	(13C)	BITSTRING	4		Reserved for future use
320	(140)	DBL WORD	8	(0)	Alignment
320	(140)	X'8'	0	EOMPCEWL	"*-PCEWORK" Length of misc PCE work area

$ERA Information

$ERA Programming Interface information

Programming Interface information

$ERA

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

- ERAPRE

End of Programming Interface information

$ERA Heading Information

Common Name: JES2 Error Recovery Area
Macro ID: $ERA
DSECT Name: ERA
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: ERA
Offset: ERAERAID-ERA
Length: L'ERAERAID
Storage Attributes: Subpool: 0, Also refer to $DTE and $TRCA
Key: 1, Also refer to $DTE and $TRCA
Residency: Anywhere. Also refer to the $DTE and $TRCA in which an $ERA is imbedded.
Size: See ERALENG
Created by: $ANALYZE routine in HASPTERM getmains an $ERA.
An emergency $ERA exists as part of the $TRCA.
An $ERA is also created as part of the $DTE.
Pointed to by: ERAPREV field of the $ERA data area
PCEERA field of the $PCE data area
PREERA field of the $PRE data area
SPNERA field of the $SPNWORK data area
TRCAERA field of the $TRCA data area
Serialization: Fields are serialized implicity, by being changeable by only one task, either the JES2 main task or a JES2 subtask.
Function: Provides work areas and communication fields required for processing abends in the JES2 address space and possible later recovery.

The $ERA is imbedded in the $DTE at field DTEERA for use in a subtask. An emergency $ERA is imbedded in the $TRCA at field TRCAEERA. The $ERA is also getmained separately from other control blocks.

$ERA Map

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	0	ERA	HASP ERROR RECOVERY AREA
0	(0)	CHARACTER	4	ERAERAID	EBCDIC ID - 'ERA '
0	(0)	X'0'	0	ERAVN	"0" VERSION NUMBER CURRENTLY 0
4	(4)	ADDRESS	1	ERAERAVN	CONTROL BLOCK VERSION NUMBER
5	(5)	BITSTRING	1	ERAFLAGS	FLAGS - SEE BELOW
6	(6)	BITSTRING	2		RESERVED FOR FUTURE USE
8	(8)	ADDRESS	4	ERADOMID	DOM ID OF HASP095
12	(C)	ADDRESS	4	ERAERPL	IF HASP CAT. ERROR ERPL ADDRESS - OTHERWISE 0
16	(10)	SIGNED	4	ERACODE	CATASTROPHIC ERROR REASON CODE
Comment					
ERROR LOCATION AND ENVIRONMENT INFORMATION SECTION					
End of Comment					
20	(14)	ADDRESS	4	ERAFADDR	FAILING ADDR FOR ERROR
24	(18)	SIGNED	4	ERAJLMOD (0)	MODMAP-STYLE ENTRY, JES2 LMOD
40	(28)	SIGNED	4	ERAELMOD (0)	MODMAP-STYLE ENTRY, ERROR LMOD
56	(38)	SIGNED	4	ERAESECT (0)	MODMAP-STYLE ENTRY, ERROR CSECT
72	(48)	SIGNED	4	ERAESRGS (3)	REGS 0,1,2 ON ENTRY TO $ABEND
72	(48)	X'48'	0	ERAESRG0	"ERAESRGS,4" REG 0 ON ENTRY TO ESTAE ROUTINE

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
72	(48)	X'4C'	0	ERAESRG1	"ERAESRGS+4,4" REG 1 ON ENTRY TO ESTAE ROUTINE
72	(48)	X'4C'	0	ERASDWA	"ERAESRG1,4,C'A'" ADDRESS OF SDWA
72	(48)	X'50'	0	ERAESRG2	"ERAESRGS+8,4" REG 2 ON ENTRY TO ESTAE ROUTINE
84	(54)	CHARACTER	8	ERAMODN	Mod name for event record
92	(5C)	CHARACTER	8	ERAMODO	Mod offset for event record
100	(64)	ADDRESS	4	ERAPRE	A(ASSOCIATED PRE)
104	(68)	ADDRESS	4	ERAPREV	ACTIVE ERA, IF ANY, WHEN ERROR OCCURRED-OTHERWISE 0
108	(6C)	ADDRESS	4	ERAPSVAD	SAVE AREA LEVEL ASSOCIATED WITH ERR
112	(70)	ADDRESS	4	ERACPCE	VALUE OF $CURPCE AT TIME OF ERR
116	(74)	SIGNED	2	ERAPRECT	NUMBER OF PRES POINTING TO ERA
		Comment			
		$SETRP SECTION - FOLLOWING FIELDS SET BY $SETRP - DEFAULT VALUES ESTABLISHED IN $RETRY FRONTEND			
		End of Comment			
118	(76)	BITSTRING	1	ERASETRP	OPTION - I.E. RESUME, TERMINATE, OR PERCOLATE
119	(77)	BITSTRING	1	ERADTEF1	Subtask recovery flag 1 (can be modified in $STABEND VRA exit)
		1...		ERADF1MG	"B'10000000'" Suppress messages for error (HASP078/HASP088)
		.1..		ERADF1DU	"B'01000000'" Suppress SDUMP for error
		..1.		ERADF1QU	"B'00100000'" Quiet SETRP for recovery (RECORD=NO)
		...1		ERADF1NC	"B'00010000'" Do not count as an error for threshold processing
120	(78)	ADDRESS	4	ERARZOOM	ADDRESS OF POINT OF RESUMPTION (FROM RESUME=)
		Comment			
		END OF $SETRP SECTION END OF $SETRP SECTION REGISTER SECTION - - ON ENTRY TO PROCESSOR RECOVERY ROUTINE ERAREGS REGISTERS ARE AS THEY WERE AT TIME OF ERROR. IF $ERROR, ANY REGISTERS WIPED OUT BY $ERROR HAVE BEEN RESET TO VALUES PRIOR TO EXECUTION OF THE $ERROR MACRO. (NOTE THAT THESE REGISTER VALUES ARE FROM SDWASRSV AS OPPOSED TO SDWAGRSV) - ON RETURN TO $RETRY FROM PROCESSOR RECOVERY ROUTINE, IF $SETRP RESUME= IS SPECIFIED, THESE VALUES (ERAREGS) DETERMINE THE REGISTER CONTENTS AT POINT OF RESUMPTION, WITH THE EXECPTION OF R11 (ALWAYS R11), R13 (ALWAYS PCE ADDRESS) AND R15 (ADDRESS OF POINT OF RESUMPTION)				
		End of Comment			
124	(7C)	BITSTRING	64	ERACREGS	COPY OF REGISTER VALUES PLACED IN ERAREGS IN $ABEND, REGARDLESS OF CHANGES TO ERAREGS BY RTNS
188	(BC)	BITSTRING	64	ERACHRGS	High halves of ERACREGS
252	(FC)	BITSTRING	64	ERAREGS	Register save area
252	(FC)	SIGNED	4	ERAREG0	REGISTER 0
256	(100)	SIGNED	4	ERAREG1	REGISTER 1
260	(104)	SIGNED	4	ERAREG2	REGISTER 2
264	(108)	SIGNED	4	ERAREG3	REGISTER 3
268	(10C)	SIGNED	4	ERAREG4	REGISTER 4
272	(110)	SIGNED	4	ERAREG5	REGISTER 5
276	(114)	SIGNED	4	ERAREG6	REGISTER 6
280	(118)	SIGNED	4	ERAREG7	REGISTER 7
284	(11C)	SIGNED	4	ERAREG8	REGISTER 8
288	(120)	SIGNED	4	ERAREG9	REGISTER 9
292	(124)	SIGNED	4	ERAREG10	REGISTER 10
296	(128)	SIGNED	4	ERAREG11	REGISTER 11
300	(12C)	SIGNED	4	ERAREG12	REGISTER 12

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
304	(130)	SIGNED	4	ERAREG13	REGISTER 13
308	(134)	SIGNED	4	ERAREG14	REGISTER 14
312	(138)	SIGNED	4	ERAREG15	REGISTER 15
316	(13C)	BITSTRING	64	ERAHRGS	High half reg save area
316	(13C)	SIGNED	4	ERAHRG0	High half register 0
320	(140)	SIGNED	4	ERAHRG1	High half register 1
324	(144)	SIGNED	4	ERAHRG2	High half register 2
328	(148)	SIGNED	4	ERAHRG3	High half register 3
332	(14C)	SIGNED	4	ERAHRG4	High half register 4
336	(150)	SIGNED	4	ERAHRG5	High half register 5
340	(154)	SIGNED	4	ERAHRG6	High half register 6
344	(158)	SIGNED	4	ERAHRG7	High half register 7
348	(15C)	SIGNED	4	ERAHRG8	High half register 8
352	(160)	SIGNED	4	ERAHRG9	High half register 9
356	(164)	SIGNED	4	ERAHRG10	High half register 10
360	(168)	SIGNED	4	ERAHRG11	High half register 11
364	(16C)	SIGNED	4	ERAHRG12	High half register 12
368	(170)	SIGNED	4	ERAHRG13	High half register 13
372	(174)	SIGNED	4	ERAHRG14	High half register 14
376	(178)	SIGNED	4	ERAHRG15	High half register 15
380	(17C)	BITSTRING	64	ERAAREGS	Access register save area
380	(17C)	SIGNED	4	ERAAR0	Access Register 0
384	(180)	SIGNED	4	ERAAR1	Access Register 1
388	(184)	SIGNED	4	ERAAR2	Access Register 2
392	(188)	SIGNED	4	ERAAR3	Access Register 3
396	(18C)	SIGNED	4	ERAAR4	Access Register 4
400	(190)	SIGNED	4	ERAAR5	Access Register 5
404	(194)	SIGNED	4	ERAAR6	Access Register 6
408	(198)	SIGNED	4	ERAAR7	Access Register 7
412	(19C)	SIGNED	4	ERAAR8	Access Register 8
416	(1A0)	SIGNED	4	ERAAR9	Access Register 9
420	(1A4)	SIGNED	4	ERAAR10	Access Register 10
424	(1A8)	SIGNED	4	ERAAR11	Access Register 11
428	(1AC)	SIGNED	4	ERAAR12	Access Register 12
432	(1B0)	SIGNED	4	ERAAR13	Access Register 13
436	(1B4)	SIGNED	4	ERAAR14	Access Register 14
440	(1B8)	SIGNED	4	ERAAR15	Access Register 15
444	(1BC)	BITSTRING	8	ERAPSW	Last JES2 related PSW
452	(1C4)	BITSTRING	1	ERAINCD	Interupt code (second byte)
453	(1C5)	BITSTRING	1	ERAILC	Instruction length count
454	(1C6)	BITSTRING	2		Reserved
456	(1C8)	ADDRESS	8	ERATEA	Translation exception addr
464	(1D0)	ADDRESS	8	ERABEA	Breaking event address
472	(1D8)	ADDRESS	4	ERAREGRB	RB that contains JES2 regs (points to RB prefix)
476	(1DC)	ADDRESS	4	ERAJQE	Related JQE address
480	(1E0)	BITSTRING	12		Reserved for future use
492	(1EC)	SIGNED	4	(0)	ROUND TO FULLWORD
492	(1EC)	X'1EC'	0	ERALENG	"*-ERA" LENGTH (ROUNDED TO FULLWORD)

Comment

ERAFLAGS BIT DEFINITIONS

End of Comment

1...	ERAEMERG	"X'80'" EMERGENCY ERA, DONT'T FREEMAIN
.1..	ERAXMS	"X'40'" HOME ASID NOT PRIMARY AT ERROR
..1.	ERAFRBLC	"X'20'" ERAFADDR CAME FROM $RBFADDR
...1	ERACSAM	"X'10'" LOAD MODULE WITH ERROR IN CSA
.... 1...	ERAARMOD	"X'08'" ASC=ARMODE at time of ABEND
.... .1..	ERAS1J2M	"X'04'" 1st JES2 modules found in HASP088 message traceback
.... ..1.	ERARSVF6	"X'02'" RESERVED FOR FUTURE USE
....1	ERARSVF7	"X'01'" RESERVED FOR FUTURE USE

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
ERASETRP BIT DEFINITIONS					
End of Comment					
		1...		ERATRPTM	"X'80'" TERMINATE
		.1..		ERATRPPC	"X'40'" PERCOLATE
		..1.		ERATRPRE	"X'20'" RESUME
		...1		ERAHVRGS	"X'10'" ERA HAS REGS (ON IF SDWA EXISTS)
		.... 1...		ERATRPR0	"X'08'" RESERVED FOR FUTURE USE
		.... .1..		ERATRPR1	"X'04'" RESERVED FOR FUTURE USE
		.... ..1.		ERATRPR2	"X'02'" RESERVED FOR FUTURE USE
		1		ERATRPR3	"X'01'" RESERVED FOR FUTURE USE

$ERA Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
ERA	0		ERAHRG0	13C	
ERAAREGS	17C		ERAHRG1	140	
ERAARMOD	1EC	8	ERAHRG10	164	
ERAAR0	17C		ERAHRG11	168	
ERAAR1	180		ERAHRG12	16C	
ERAAR10	1A4		ERAHRG13	170	
ERAAR11	1A8		ERAHRG14	174	
ERAAR12	1AC		ERAHRG15	178	
ERAAR13	1B0		ERAHRG2	144	
ERAAR14	1B4		ERAHRG3	148	
ERAAR15	1B8		ERAHRG4	14C	
ERAAR2	184		ERAHRG5	150	
ERAAR3	188		ERAHRG6	154	
ERAAR4	18C		ERAHRG7	158	
ERAAR5	190		ERAHRG8	15C	
ERAAR6	194		ERAHRG9	160	
ERAAR7	198		ERAHVRGS	1EC	10
ERAAR8	19C		ERAILC	1C5	
ERAAR9	1A0		ERAINCD	1C4	
ERABEA	1D0		ERAJLMOD	18	
ERACHRGS	BC		ERAJQE	1DC	
ERACODE	10		ERALENG	1EC	1EC
ERACPCE	70		ERAMODN	54	
ERACREGS	7C		ERAMODO	5C	
ERACSAM	1EC	10	ERAPRE	64	
ERADF1DU	77	40	ERAPRECT	74	
ERADF1MG	77	80	ERAPREV	68	
ERADF1NC	77	10	ERAPSVAD	6C	
ERADF1QU	77	20	ERAPSW	1BC	
ERADOMID	8		ERAREGRB	1D8	
ERADTEF1	77		ERAREGS	FC	
ERAELMOD	28		ERAREG0	FC	
ERAEMERG	1EC	80	ERAREG1	100	
ERAERAID	0	C5D9C140	ERAREG10	124	
ERAERAVN	4		ERAREG11	128	
ERAERPL	C		ERAREG12	12C	
ERAESECT	38		ERAREG13	130	
ERAESRGS	48		ERAREG14	134	
ERAESRG0	48	48	ERAREG15	138	
ERAESRG1	48	4C	ERAREG2	104	
ERAESRG2	48	50	ERAREG3	108	
ERAFADDR	14		ERAREG4	10C	
ERAFLAGS	5		ERAREG5	110	
ERAFRBLC	1EC	20	ERAREG6	114	
ERAHRGS	13C		ERAREG7	118	

$ERA Cross Reference

Name	Hex Offset	Hex Value
ERAREG8	11C	
ERAREG9	120	
ERARSVF6	1EC	2
ERARSVF7	1EC	1
ERARZOOM	78	
ERASDWA	48	4C
ERASETRP	76	
ERAS1J2M	1EC	4
ERATEA	1C8	
ERATRPPC	1EC	40
ERATRPRE	1EC	20
ERATRPR0	1EC	8
ERATRPR1	1EC	4
ERATRPR2	1EC	2
ERATRPR3	1EC	1
ERATRPTM	1EC	80
ERAVN	0	0
ERAXMS	1EC	40

$ERPL Information

$ERPL Heading Information

Common Name: $ERROR parameter list
Macro ID: $ERPL
DSECT Name: ERPL
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: none
Storage Attributes: Subpool: The subpool of the assocated code module
Key: The key of the associated code module
Residency: The residency is that of the associated code module. Virtual and real storage may be above or below 16M, in the private storage of a JES2 or FSS address space, or in common storage.
Size: See the ERPLLENG equate.
Created by: ERPLs are created during an assembly of a module, in the expansion of a $ERROR macro. A table of fixed ERPLs is also defined in the JES2 main task's ABEND routine, representing system ABENDs (e.g SOCx).
Pointed to by: The way that ERPL is pointed to depends on the environment (JES2, USER, SUBTASK or FSS).
- During an ABEND initiated by a $ERROR macro in the JES2 assembly environment, the $ERRERPL field of the HCT control block points to the associated ERPL.
- During an ABEND initiated by a $ERROR macro in the USER or SUBTASK environment, the ERPL is expanded immediately after the ABEND macro expansion. Its address is therefore located from the ABEND SDWA control block's SDWANXT2 field.
- While processing an error in a $ERROR macro in the FSS assembly environment, $ERROR expands to a call of the error processing routine instead of an ABEND.
The ERPL is the call parameter list, in register 14.
Serialization: ERPLs are assembled into modules, and are read-only,
Function: Two types of ERPLs exist: those generated by the $ERROR macro in the JES2, USER, SUBTASK and FSS assembly environments and those that are fixed.

The first type of ERPL is a parameter list generated by the $ERROR macro that describes an error situation in which JES2 code recognizes the error and chooses to issue an ABNED. Recovery of the task may or may not be attempted, depending on the situation. The ERPL defines the JES2 error code, message text describing the error, and flags.

The second type of ERPL is a fixed ERPL defined to the JES2 main task ESTAE routine that maps certain well known system errors, such as SOCx ABENDs.

$ERPL Map

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	0	ERPL	HASP $ERROR PARM LIST DSECT
0	(0)	CHARACTER	4	ERPLCODE	$ERROR CODE, W/O '$', LEFT JUSTIFIED
4	(4)	CHARACTER	8	ERPLMOD	Module with $ERROR

$ERPL Cross Reference

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

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

$ERPL Cross Reference

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

$ERRTAB Information

$ERRTAB Heading Information

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

$ERRTAB Map

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

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

$ERRTAB Cross Reference

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

$EVT Information

$EVT Programming Interface information

Programming Interface information

$EVT

End of Programming Interface information

$EVT Heading Information

Common Name: HASP ENF LISTEN Event DSECT
Macro ID: $EVT
DSECT Name: EVT
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: 'EVT '
Offset: EVTID-EVT
Length: L'EVTID
Storage Attributes: Subpool: n/a
Key: 1
Residency: jesxEVT data space
Size: See EVTLEN
Created by: HASCENF
Pointed to by: CCTENFQH field of the $HCCT data area
CCTENFQT field of the $HCCT data area
EVTNEXT field of the $EVT data area
EVTPREV field of the $EVT data area
Serialization: -The EVTs chained from the HCCT are serialized using the $FIFOENQ and $FIFODEQ services.
Function: The EVT defines ENF LISTEN events which have been queued, by the ENF LISTEN exits in HASCENF, for processing by the JES2 main task.

$EVT Map

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	0	EVT	
0	(0)	CHARACTER	4	EVTID	EVT identifier
4	(4)	ADDRESS	1	EVTVRSN	Current version in storage
4	(4)	X'1'	0	EVTCURVN	"1" Current version number
5	(5)	BITSTRING	1	EVTFLAG1	EVT flags
		1...		EVT1GETM	"B'10000000'" EVTPARMS contains a pointer to CSA containing EVT data
6	(6)	SIGNED	2	EVTTYPE	Type - for a branch table
6	(6)	X'0'	0	EVT41GL	"0" Event type 41 - WLMENF12
6	(6)	X'4'	0	EVT41CP	"4" Event type 41 - WLMENF22
6	(6)	X'8'	0	EVT42	"8" Event type 42 - SRMENF15
6	(6)	X'C'	0	EVT46	"12" Event type 46 - OMVS active
6	(6)	X'10'	0	EVT56	"16" Event type 56 - reset job
6	(6)	X'14'	0	EVT57CM	"20" Event type 57 - command
6	(6)	X'18'	0	EVT57RV	"24" Event type 57 - recovery
6	(6)	X'1C'	0	EVT62	"28" Event type 62 - RACF SETR
6	(6)	X'20'	0	EVT58JU	"32" Event type 58 - JOE update
6	(6)	X'24'	0	EVT58	"36" Event type 58 - Data set
6	(6)	X'28'	0	EVT70	"40" Event type 70 - Job status
8	(8)	ADDRESS	4	EVTNEXT	Next EVT on queue
12	(C)	ADDRESS	4	EVTPREV	Previous EVT on Q
Comment					
Event parameters as passed to LISTEN exit					
End of Comment					
16	(10)	DBL WORD	8	EVTPARMS (0)	Event Parameters
16	(10)	ADDRESS	4	EVTCDATA	Address when data is in CSA
16	(10)	CHARACTER	4		Event 41 parameters
16	(10)	CHARACTER	4		Event 42 parameters
16	(10)	CHARACTER	84		Event 56 parameters
16	(10)	CHARACTER	48		Event 57 parameters

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
16	(10)	CHARACTER	24		Event 62 parameters
16	(10)	CHARACTER	320		Event 58
16	(10)	CHARACTER	216		70
336	(150)	X'140'	0	EVTPARML	"*-EVTPARMS" Length of largest parms
336	(150)	DBL WORD	8	(0)	Round length to double word
336	(150)	X'150'	0	EVTLENG	"*-EVT" EVT Length

$EVT Cross Reference

Name	Hex Offset	Hex Value
EVT	0	
EVTCDATA	10	
EVTCURVN	4	1
EVTFLAG1	5	
EVTID	0	
EVTLENG	150	150
EVTNEXT	8	
EVTPARML	150	140
EVTPARMS	10	
EVTPREV	C	
EVTTYPE	6	
EVTVRSN	4	
EVT1GETM	5	80
EVT41CP	6	4
EVT41GL	6	0
EVT42	6	8
EVT46	6	C
EVT56	6	10
EVT57CM	6	14
EVT57RV	6	18
EVT58	6	24
EVT58JU	6	20
EVT62	6	1C
EVT70	6	28

$EZA Information

$EZA Programming Interface information

Programming Interface information

$EZA

End of Programming Interface information

$EZA Heading Information

Common Name: EZASMI work areas
Macro ID: $EZA
DSECT Name: EZA
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: EZA
Offset: EZAID
Length: 4
Storage Attributes: Subpool: 0
Key: 1
Residency: VIRTUAL - anywhere REAL - anywhere
Size: See SCKLEN
Created by: Jes2 initialization
Pointed to by: $EZAADDR field of the HCT data area
Serialization: JES2 main task
Function: Work areas for TCP/IP functions from JES2 main task

$EZA Map

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	0	EZA	EZASMI work area DSECT
0	(0)	CHARACTER	4	EZAID	Control block identifier
0	(0)	X'1'	0	EZAVRNUM	"1" Control block version equate
4	(4)	ADDRESS	1	EZAVRSN	Control block version
5	(5)	ADDRESS	3		Reserved for future use
8	(8)	DBL WORD	8	(0)	
8	(8)	BITSTRING	8	EZAGBL	Global work area for the JES2 address space
16	(10)	DBL WORD	8	(0)	
16	(10)	BITSTRING	176	EZATASK	Task work area for the JES2 Main Task
192	(C0)	DBL WORD	8	(0)	
192	(C0)	SIGNED	2	EZAMXSOC	Max sockets value
194	(C2)	SIGNED	2		Reserved
196	(C4)	SIGNED	4	EZAMXSNO	Max socket number
200	(C8)	SIGNED	4	EZAERRNO	ERRNO value
204	(CC)	SIGNED	4	EZARETCD	RETCD value
208	(D0)	SIGNED	4	EZADUBER	ERRNO value for DUBJOBPERM
212	(D4)	SIGNED	4	EZADUBRT	RETCD value for DUBJOBPERM
216	(D8)	SIGNED	2	EZAIPLNG	Length value
218	(DA)	BITSTRING	1	EZAFLAG1	Flags
		1...		EZA1RCOV	"B'10000000'" Recovery recursion flag
		.1..		EZA1DUBP	"B'01000000'" JES2 dubbed permanent process
		..1.		EZA1ENF	"B'00100000'" ENF 46 received
219	(DB)	BITSTRING	133	EZAWIPAD	Work area for IP address
352	(160)	DBL WORD	8	(0)	
352	(160)	BITSTRING	256	EZAWORK	Working storage
608	(260)	DBL WORD	8	(0)	
608	(260)	X'260'	0	EZALENTH	"*-EZA" IP address for socket

$EZA Cross Reference

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

$FCLWORK Information

$FCLWORK Heading Information

Common Name: JES2 FSS Cleanup on EOM PCE Work Area
Macro ID: $FCLWORK
DSECT Name: PCE ($FCLWORK is part of the PCE DSECT)
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: 'PCE '
Offset: PCEEYE-PCE
Length: 4
Storage Attributes: Subpool: See $PCE
Key: See $PCE
Residency: See $PCE
Size: See symbol FCLPCEWS for the length of this work area. The overall length of the PCE is stored in field PCELENG.
Created by: See $PCE
Pointed to by: The $FCLPCE field of the $HCT data area
See $PCE for other pointer fields that apply to all PCE types.
Serialization: Normal PCE dispatch serialization
Function: The fields in this area are used by a JES2 FSS Cleanup on EOM Processor and by its support routines and exits. $FCLWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in $FCLWORK are actually part of the PCE DSECT, but only map PCEs with the value PCEFCLID in the second byte of field PCEID.

This PCE is not device related. Field PCEDCT is zero.

$FCLWORK Map

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

$FSACB Information

$FSACB Programming Interface information

Programming Interface information

$FSACB

End of Programming Interface information

$FSACB Heading Information

Common Name: JES2 FSA Control Block
Macro ID: $FSACB
DSECT Name: FSACB
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: FSA
Offset: FSACBID-FSACB
Length: 4
Storage Attributes: Subpool: 241
Key: 1
Residency: Virtual and real storage is anywhere in CSA.
Size: See FSACBLEN
Created by: HASPFSSP
Pointed to by: FSSFSACH field of the $FSSCB data area
Serialization: The FSACB chain is serialized via the local and CMS locks.
Function: The FSACB is the function subsystem application level control block.

$FSACB Map

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

Comment

These four fields must remain together

End of Comment

64	(40)	ADDRESS	4	FSAREQQS	A(REQUEST JIB STACK)
68	(44)	ADDRESS	4	FSAACTQS	A(ACTIVE JIB PSEUDO-STACK)
72	(48)	ADDRESS	4	FSARETQS	A(RETURN JIB STACK)

Comment

For a return request, while the FSS PCE is waiting for a CKPT write, the JIB address is saved here.

End of Comment

76	(4C)	ADDRESS	4	FSAJIBSV	JIB save area
76	(4C)	X'10'	0	FSALENQS	"*-FSAREQQS" LGTH OF JIB QUEUE POINTER FLDS
80	(50)	SIGNED	2	FSAJQECP	JOBNO OF PREV CANCELLED JOB
82	(52)	SIGNED	2	FSAJOECT	COUNT OF JOES ASSIGNED TO FSA

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
				Comment	
		PARAMETER LIST FOR PRTAUTH ROUTINE CALLED FROM HASPFSSM. THIS MATCHES THE ONE DEFINED IN $PPPWORK.			
				End of Comment	
84	(54)	SIGNED	4	FSAAPARM (0)	PARM LIST FOR PRTAUTH
84	(54)	ADDRESS	4	FSAJCTAD	JCT ADDRESS
88	(58)	ADDRESS	4	FSAPDDBA	PDDB ADDRESS
92	(5C)	ADDRESS	4	FSAANEWS	JESNEWS ADDRESS
96	(60)	CHARACTER	40	FSALOGST	LOG STRING (ENTITY NAME WITH LENGTH IN THE FIRST BYTE)
136	(88)	ADDRESS	4		RESERVED FOR FUTURE USE END OF PRTAUTH PARM LIST
140	(8C)	SIGNED	4	FSAFLAGS (0)	FSA FLAGS
140	(8C)	BITSTRING	1	FSAFLAG1	FLAG BYTE - GENERAL USAGE Note: Update with NIL/OIL
141	(8D)	BITSTRING	1	FSAFLAG2	FLAG BYTE - GENERAL USAGE
142	(8E)	BITSTRING	1	FSAFLAG3	FLAG BYTE - GENERAL USAGE Note: Update with NIL/OIL
143	(8F)	BITSTRING	1	FSAFLAG4	FLAG BYTE - GENERAL USAGE Note: Update with NIL/OIL
144	(90)	SIGNED	4	FSAFLAG (0)	MORE FSA FLAGS
144	(90)	BITSTRING	1	FSAFLAGO	FLAG BYTE - FSI ORDER USAGE
145	(91)	BITSTRING	1	FSAFLAGI	FLAG BYTE - SETUP FOR FSA REQUIRES OPERATOR INTVNTN, SEE ORDIVFI IN IAZFSIP FOR BIT DEFINITIONS
146	(92)	BITSTRING	1	FSAFLAGR	FLAG BYTE - RAS, TRACING Note: Update with NIL/OIL
147	(93)	BITSTRING	1	FSAFLAG5	FLAG BYTE - ESTAE INDICATOR Note: Update with NIL/OIL
				Comment	
		FSAFLAG5 FLAG5 BYTE - BIT DEFINITIONS Note: Use NIL/OIL to update.			
				End of Comment	
		1...		FSA5PCAB	"B'10000000'" ABEND OF PC'D ORDER/POST FSSM
		.1..		FSA5PINT	"B'01000000'" DEVICE INTERVENTION- REQUIRED CONDITION
		..1.		FSA5OINT	"B'00100000'" OPERATOR INTERVENTION ORDER REQUIRED
		...1		FSA5DONE	"B'00010000'" FSSP MAY NOW FREE FSACB
		.... 1...		FSA5DNRC	"B'00001000'" Device not responding condition
		.... .1..		FSA5DSRP	"B'00000100'" FSA repositioning within DS
		.... ..1.		FSA5BIT6	"B'00000010'" RESERVED FOR FUTURE USE
		1		FSA5BIT7	"B'00000001'" RESERVED FOR FUTURE USE
148	(94)	ADDRESS	4	FSAPCE	ADDRESS OF ASSOCIATED PCE
152	(98)	SIGNED	4	FSAFLAGA (0)	Additional FSA flags
152	(98)	BITSTRING	1	FSAFLAG6	Flag byte - to be used in FSS address space only
				Comment	
		FSAFLAG6 FLAG6 byte - bit def.			
				End of Comment	
		1...		FSA6DSNA	"B'10000000'" Data set was not allocated in previous GETDS
153	(99)	BITSTRING	1	FSAFLAG7	Flag byte - modified only from JES address space
				Comment	
		FSAFLAG7 FLAG7 byte - bit def.			
				End of Comment	
		1...		FSA7JISF	"B'10000000'" JES initiated Stop FSA - order is not being simulated
		.1..		FSA701IS	"B'01000000'" For this FSA HASP701 - FSA FAILED TO DISCONNECT issued during response processing

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
154	(9A)	BITSTRING	2		Reserved for future use
156	(9C)	SIGNED	4		Reserved for future use
160	(A0)	SIGNED	4	(0)	END OF FSA DSECT
160	(A0)	X'A0'	0	FSACBLEN	"*-FSACB" LENGTH OF THE FSA CONTROL BLOCK

Comment

FSAFLAG1 Note: Use NIL/OIL to update.

End of Comment

		1...	FSAOROUT	"B'10000000'" FSA ORDER OUTSTANDING
		.1..	FSARSOUT	"B'01000000'" FSA RESPONSE OUTSTANDING
		..1.	FSAQUIES	"B'00100000'" QUIESCE THE DEVICE
		...1	FSASTPDV	"B'00010000'" STOP THE DEVICE (DEV QUIESCED)
		.... 1...	FSADRAIN	"B'00001000'" STOP THE FSA (DEV DRAINED)
		.... .1..	FSAHALT	"B'00000100'" HALT THE DEVICE
		.... ..1.	FSAZDEV	"B'00000010'" SYNCH ORDER REQUIRED TO $Z DEV
		1	FSADVCST	"B'00000001'" DEVICE HAS BEEN STARTED

Comment

FSAFLAG2

End of Comment

		1...	FSACTIVE	"B'10000000'" FSA IS ACTIVE
		.1..	FSAHSERR	"B'01000000'" NO MATCHING DCT, JES2 HOT START
		..1.	FSAFJSPG	"B'00100000'" JOB SEPARATOR PRINTING ON
		...1	FSAFDSPG	"B'00010000'" DS SEPARATOR PRINTING ON
		.... 1...	FSAEDGMK	"B'00001000'" MARK FORMS ON
		.... .1..	FSABEND	"B'00000100'" ABNORMAL TERMINATION REQUESTED
		.... ..1.	FSADUMP	"B'00000010'" DUMP REQUESTED ON STOP DEVICE
		1	FSAOPIR	"B'00000001'" OPERATOR INTERVENTION REQUESTED

Comment

FSAFLAG3 Note: Use NIL/OIL to update.

End of Comment

		1...		FSAGTDSP	"B'10000000'" POST FSA FOR GETDS COMPLETION
		.1..		FSAOINIT	"B'01000000'" INITIAL OP. INTERVENTION NEEDED
		..1.		FSAFRMSC	"B'00100000'" SETUP REQUIRED FOR FORMS
		...1		FSAFLSHC	"B'00010000'" SETUP REQUIRED FOR FLASH
		.... 1...		FSABRSTC	"B'00001000'" SETUP REQUIRED FOR BURSTER
160	(A0)	X'38'	0	FSASETUP	"FSAFRMSC+FSAFLSHC+FSABRSTC" SETUP REQUIRED MASK
		.... .1..		FSAUPDTK	"B'00000100'" OPERATOR INTERVENTION ORDER REQ'D TO UPDATE INTERVENTION TOKENS
		.... ..1.		FSASTCHG	"B'00000010'" OPERATOR ISSUED $T DURING SETUP REQUEST - FORCE GETDS
		1		FSA3JREQ	"B'00000001'" JIB REQUEST NEEDED BY GETDS

Comment

FSAFLAG4 Note: Use NIL/OIL to update.
THE BIT DEFINITIONS FOR COPYMARKS IN THE FSAFLAG4
BYTE HAVE TO MATCH THE BIT DEFINITIONS FOR COPYMARKS
IN THE DCTPPSW3 BYTE FOR HASPCOMM PROCESSING

End of Comment

		1...	FSA4TCEL	"B'10000000'" DEV SET TO TRK-CELL DESPOOL
		.1..	FSA4NPSL	"B'01000000'" NO DATA SET PRESELECTION
		..1.	FSA4FIT	"B'00100000'" FSA INITIATED TERM REQUEST
		...1	FSA4NHLT	"B'00010000'" DEV IS 'SETUP=NOHALT'
		.... 1...	FSA4CMNO	"B'00001000'" COPYMARKS NONE

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
		.... .1..		FSA4CMDS	"B'00000100'" INCREMENT COPYMARKS FOR DS
		.... ..1.		FSA4CMJB	"B'00000010'" INCREMENT COPYMARKS FOR JOB
		1		FSA4CNST	"B'00000001'" COPYMARKS REMAIN CONSTANT
160	(A0)	X'F'	0	FSA4CPYM	"FSA4CMDS+FSA4CMJB+FSA4CNST+FSA4CMNO" COPYMARKS RESET
		Comment			
		FSAFLAGO			
		End of Comment			
		1...		FSABKWDO	"B'10000000'" SYNCH OUTSTANDING FOR $B
		.1..		FSAFWRDO	"B'01000000'" SYNCH OUTSTANDING FOR $F
		..1.		FSARSRTO	"B'00100000'" SYNCH OUTSTANDING FOR $E
		...1		FSACNCLO	"B'00010000'" SYNCH OUTSTANDING FOR $C
		.... 1...		FSAINRTO	"B'00001000'" SYNCH OUTSTANDING FOR $I
		.... .1..		FSAHALTO	"B'00000100'" SYNCH OUTSTANDING FOR $Z
		.... ..1.		FSACJPO	"B'00000010'" SYNCH OUTSTANDING FOR $CJ,P
		1		FSAQRYO	"B'00000001'" QUERY OUTSTANDING FOR $DU
		Comment			
		FSAFLAGR Note: Use NIL/OIL to update.			
		End of Comment			
		1...		FSATRACE	"B'10000000'" PROCESSOR TRACING IS ON
		.1..		FSACNECT	"B'01000000'" FSA IS FULLY CONNECTED
		..1.		FSADCON	"B'00100000'" FSA IS(WILL) DISCONNECT
		...1		FSADCONX	"B'00010000'" JES2 IS EXPECTING DISCONNECT
		.... 1...		FSAEOT	"B'00001000'" FSA IS IN (THROUGH) EOT
		.... .1..		FSAFDRAN	"B'00000100'" FORCE DRAIN THE FSA
		.... ..1.		FSACMDA	"B'00000010'" FSS DEVICE COMMAND ACTIVE
		1		FSAROLTR	"B'00000001'" FSA rolling trace on

$FSACB Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
FSAACTQS	44		FSAFDSPG	A0	10
FSAANEWS	5C		FSAFJSPG	A0	20
FSAAPARM	54		FSAFLAG	90	
FSABEND	A0	4	FSAFLAGA	98	
FSABKWDO	A0	80	FSAFLAGI	91	
FSABRSTC	A0	8	FSAFLAGO	90	
FSACB	0		FSAFLAGR	92	
FSACBID	0		FSAFLAGS	8C	
FSACBLEN	A0	A0	FSAFLAG1	8C	
FSACHAIN	C		FSAFLAG2	8D	
FSACJPO	A0	2	FSAFLAG3	8E	
FSACMDA	A0	2	FSAFLAG4	8F	
FSACNCLO	A0	10	FSAFLAG5	93	
FSACNECT	A0	40	FSAFLAG6	98	
FSACTIVE	A0	80	FSAFLAG7	99	
FSADCON	A0	20	FSAFLSHC	A0	10
FSADCONX	A0	10	FSAFRMSC	A0	20
FSADEVN	38		FSAFSID	4	
FSADRAIN	A0	8	FSAFSSA	8	
FSADUMP	A0	2	FSAFWRDO	A0	40
FSADVCST	A0	1	FSAGTDSP	A0	80
FSAEDECB	18		FSAHALT	A0	4
FSAEDGMK	A0	8	FSAHALTO	A0	4
FSAEOT	A0	8	FSAHSERR	A0	40
FSAEXTN	10		FSAID	4	6
FSAFDRAN	A0	4	FSAINRTO	A0	8

$FSACB Cross Reference

Name	Hex Offset	Hex Value
FSAJCTAD	54	
FSAJIBSV	4C	
FSAJOECT	52	
FSAJQECP	50	
FSALENQS	4C	10
FSALOGST	60	
FSAOINIT	A0	40
FSAOPIR	A0	1
FSAOROUT	A0	80
FSAPCE	94	
FSAPDDBA	58	
FSAQRYO	A0	1
FSAQUIES	A0	20
FSAREQQS	40	
FSARETQS	48	
FSAROLTR	A0	1
FSARSOUT	A0	40
FSARSRTO	A0	20
FSASETUP	A0	38
FSASTCHG	A0	2
FSASTPDV	A0	10
FSATCB	14	
FSATRACE	A0	80
FSAUNIT	34	
FSAUNIT3	34	35
FSAUPDTK	A0	4
FSAXECB	1C	
FSAZDEV	A0	2
FSA3JREQ	A0	1
FSA4CMDS	A0	4
FSA4CMJB	A0	2
FSA4CMNO	A0	8
FSA4CNST	A0	1
FSA4CPYM	A0	F
FSA4FIT	A0	20
FSA4NHLT	A0	10
FSA4NPSL	A0	40
FSA4TCEL	A0	80
FSA5BIT6	93	2
FSA5BIT7	93	1
FSA5DNRC	93	8
FSA5DONE	93	10
FSA5DSRP	93	4
FSA5OINT	93	20
FSA5PCAB	93	80
FSA5PINT	93	40
FSA6DSNA	98	80
FSA7JISF	99	80
FSA701IS	99	40

$FSAXB Information

$FSAXB Programming Interface information

Programming Interface information

$FSAXB

End of Programming Interface information

$FSAXB Heading Information

Common Name: FSA Control Block Extension
Macro ID: $FSAXB
DSECT Name: FAXB
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: FAXB
Offset: FAXBCBID-FAXB
Length: L'FAXBCBID
Storage Attributes: Subpool: 230
Key: 1
Residency: Virtual and real storage is above the 16M line if the FSS supports running in 31 bit AMODE. Otherwise it is below the 16M line. Storage is located in the private area of the FSS address space.
Size: See FAXBLEN
Created by: HASPFSSM during FSA connect
Pointed to by: FSAEXTN field of the $FSACB data area
Serialization: None required
Function: This area provides private address space working storage for FSA level FSI requests.

$FSAXB Map

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	0	FAXB	FSA CNTL BLOCK EXTENSION DSECT
0	(0)	CHARACTER	4	FAXBCBID	FSA CONTROL BLOCK EXT ID
4	(4)	SIGNED	4	FAXBFSID	FUNCTIONAL SUBSYSTEM APPLICATION ID
8	(8)	ADDRESS	4	FAXBFSAA	A(FSACB) FOR THIS EXTENSION
12	(C)	ADDRESS	4	FAXBRECB	ECB FOR HALT DEVICE ($Z) CMD
16	(10)	SIGNED	4	FAXBFSIP (0)	ORDER FSIREQ PARM LIST
220	(DC)	SIGNED	4	FAXBFSIR (0)	ORDER RESPONSE AREA
280	(118)	SIGNED	4	FAXBPOST (0)	POST FSIREQ PARM LIST
316	(13C)	SIGNED	4	FAXBPSAV (18)	POST SAVE AREA
316	(13C)	X'13C'	0	FAXBOSAV	"FAXBPSAV" ORDER SAVE AREA
388	(184)	ADDRESS	4	FAXBSJIB	ADDR OF JIB REQUIRING SETUP
392	(188)	SIGNED	4	FAXBJCJP	Job number of $CJ,P job

Comment

THE FIELDS THROUGH FAXBBRST MUST REMAIN TOGETHER AND IN THE
SAME ORDER AS THE CORRESPONDING FIELDS STARTING AT FAXBFRMO
THESE FIELDS REPRESENT THE CURRENT DEVICE SETUP.

End of Comment

396	(18C)	BITSTRING	8	FAXBFRMS	CURRENT FORMS ID ON DEVICE
404	(194)	CHARACTER	0	FAXBWFRM (0)	
468	(1D4)	CHARACTER	4	FAXBFLSH	CURRENT FLASH ID ON DEVICE
472	(1D8)	CHARACTER	4	FAXBFCB	CURRENT FCB ID ON DEVICE
476	(1DC)	CHARACTER	4	FAXBUCS	CURRENT UCS ID ON DEVICE
480	(1E0)	CHARACTER	1	FAXBBRST	CURRENT BURST SETTING (Y/N)
480	(1E0)	X'55'	0	FAXBDLEN	"*-FAXBFRMS" LENGTH FOR SETUP PARMS
481	(1E1)	CHARACTER	1	FAXBFLSD	DEFAULT FLASH ID FOR DEVICE

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
				Comment	
				THE FIELDS THROUGH FAXBBSTO MUST REMAIN TOGETHER AND IN THE SAME ORDER AS THE CORRESPONDING FIELDS STARTING AT FAXBFRMS. THESE FIELD REPRESENT THE DEFAULT AT THE TIME OPERATOR INERVENTION WAS ORIGINATED. IF THE DEVICE IS RESTARTED VIA A CANCEL, RESTART OR INTERRUPT COMMAND THE DEFAULTS WILL BE RESET USING THESE FIELDS.	
				End of Comment	
485	(1E5)	BITSTRING	8	FAXBFRMO	ORIGINAL FORMS ID FOR DEVICE
493	(1ED)	CHARACTER	0	FAXBWFRO (0)	
557	(22D)	CHARACTER	4	FAXBFLSO	ORIGINAL FLASH ID FOR DEVICE
561	(231)	CHARACTER	4	FAXBFCBO	ORIGINAL FCB ID ON DEVICE
565	(235)	CHARACTER	4	FAXBUCSO	ORIGINAL UCS ID ON DEVICE
569	(239)	CHARACTER	1	FAXBBSTO	ORIGINAL BURST SETTING (Y/N)
				Comment	
				Work area for ASAXWC macros MACDATE -06/16/09-<0>	
				End of Comment	
0	(0)	X'23C'	0	M00M1147	"FAXLIST" ++ ASAXWC NAME
572	(23C)	SIGNED	4	FAXLIST (0)	++ ASAXWC PARM LIST
572	(23C)	CHARACTER	4	FAXLIST_XPARMAREA1	++ FIELD_LABEL
576	(240)	CHARACTER	24	FAXLIST_XPARMAREA2	++ FIELD_LABEL
576	(240)	X'258'	0	FAXLIST_PL_END	"*" ++ END OF BASE PLIST
572	(23C)	ADDRESS	4	FAXLIST_XPATTERNSTR_ADDR	++ ADDR
576	(240)	SIGNED	4	FAXLIST_XPATTERNSTRLEN	++
580	(244)	ADDRESS	4	FAXLIST_XSTRING_ADDR	++ ADDR
584	(248)	SIGNED	4	FAXLIST_XSTRINGLEN	++
588	(24C)	ADDRESS	4	FAXLIST_XZEROORMORE_ADDR	++ ADDR
592	(250)	ADDRESS	4	FAXLIST_XONECHAR_ADDR	++ ADDR
596	(254)	ADDRESS	4	FAXLIST_XDELIMITER_ADDR	++ ADDR
572	(23C)	ADDRESS	4	FAXLIST_XPPPATTERNINFO_ADDR	++ ADDR
576	(240)	ADDRESS	4	FAXLIST_XPPPATTERNSTR_ADDR	++ ADDR
580	(244)	SIGNED	4	FAXLIST_XPPPATTERNSTRLEN	++
584	(248)	ADDRESS	4	FAXLIST_XPPZEROORMORE_ADDR	++ ADDR
588	(24C)	ADDRESS	4	FAXLIST_XPPONECHAR_ADDR	++ ADDR
592	(250)	ADDRESS	4	FAXLIST_XPPDELIMITER_ADDR	++ ADDR
576	(240)	ADDRESS	4	FAXLIST_XPPSTRING_ADDR	++ ADDR
580	(244)	SIGNED	4	FAXLIST_XPPSTRINGLEN	++
600	(258)	X'1C'	0	FAXLISTL	"*-FAXLIST" ++ LENGTH OF PLIST

$FSAXB Cross Reference

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
Comment					
		ASAXWC-0			
End of Comment					
600	(258)	BITSTRING	256	FAXAREA	Work area passed to ASAXWC
856	(358)	DBL WORD	8	(0)	
856	(358)	X'358'	0	FAXBLEN	"*-FAXB" LENGTH OF THE FSA CNTL BLOCK EXT

$FSAXB Cross Reference

Name	Hex Offset	Hex Value
FAXAREA	258	
FAXB	0	
FAXBBRST	1E0	
FAXBBSTO	239	
FAXBCBID	0	
FAXBDLEN	1E0	55
FAXBFCB	1D8	
FAXBFCBO	231	
FAXBFLSD	1E1	
FAXBFLSH	1D4	
FAXBFLSO	22D	
FAXBFRMO	1E5	
FAXBFRMS	18C	
FAXBFSAA	8	
FAXBFSID	4	
FAXBFSIP	10	
FAXBFSIR	DC	
FAXBJCJP	188	
FAXBLEN	358	358
FAXBOSAV	13C	13C
FAXBPOST	118	
FAXBPSAV	13C	
FAXBRECB	C	
FAXBSJIB	184	
FAXBUCS	1DC	
FAXBUCSO	235	
FAXBWFRM	194	
FAXBWFRO	1ED	
FAXLIST	23C	
FAXLIST_PL_END	240	258
FAXLIST_XDELIMITER_ADDR	254	
FAXLIST_XONECHAR_ADDR	250	
FAXLIST_XPARMAREA1	23C	
FAXLIST_XPARMAREA2	240	
FAXLIST_XPATTERNSTR_ADDR	23C	
FAXLIST_XPATTERNSTRLEN	240	
FAXLIST_XPPDELIMITER_ADDR	250	
FAXLIST_XPPONECHAR_ADDR	24C	
FAXLIST_XPPPATTERNINFO_ADDR	23C	
FAXLIST_XPPPATTERNSTR_ADDR	240	
FAXLIST_XPPPATTERNSTRLEN	244	
FAXLIST_XPPSTRING_ADDR	240	
FAXLIST_XPPSTRINGLEN	244	
FAXLIST_XPPZEROORMORE_ADDR	248	
FAXLIST_XSTRING_ADDR	244	
FAXLIST_XSTRINGLEN	248	
FAXLIST_XZEROORMORE_ADDR	24C	
FAXLISTL	258	1C
M00M1147	0	23C

$FSSCB Information

$FSSCB Programming Interface information

Programming Interface information

$FSSCB

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

- FSSAXL
- FSSETL
- FSSLXL
- FSSLXV

End of Programming Interface information

$FSSCB Heading Information

Common Name: JES2 FSS Control Block
Macro ID: $FSSCB
DSECT Name: FSSCB
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: 'FSS '
Offset: -8 (in the JES2 CSA storage prefix)
Length: 4
Storage Attributes: Subpool: 241
Key: 1
Residency: Virtual and real storage is anywhere.
Size: See FSSCBLEN
Created by: DYNFSS in HASPFSSP
Pointed to by: CCTFSSCB field of the HCCT data area (first FSSCB)
FSSCHAIN field of the previous FSSCB data area
Serialization: The chain can be added to by the JES2 main task. At this time the chain cannot be broken to accomplish a delete.
Function: The FSSCB represents a functional subsystem (FSS) defined to JES2. It points to the FSSXB in the FSS address space, and the chain of FSACB's for applications assigned to the FSS.

$FSSCB Map

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	0	FSSCB	FSS CONTROL BLOCK DSECT
0	(0)	CHARACTER	8	FSSNAME	FUNCTIONAL SUBSYSTEM NAME
8	(8)	CHARACTER	8	FSSPROCN	CATALOGED PROC NAME FOR FSS
16	(10)	CHARACTER	8	FSSFSSMN	FSS SUPPORT MODULE NAME (FSSM)
24	(18)	SIGNED	4	FSSFSSML	FSS SUPPORT MODULE LENGTH
28	(1C)	ADDRESS	4	FSSCHAIN	ADDR OF NEXT FSSCB OFF CCTFSSCB
32	(20)	ADDRESS	2	FSSASID	ASID FOR THE FSS ADDRESS SPACE
34	(22)	ADDRESS	2	FSSFSSID	FSS PORTION OF FSID FOR FSAS
		Comment			
		HASPFSSM CROSS MEMORY SERVICE TABLES			
		End of Comment			
36	(24)	SIGNED	4	FSSLXL (0)	LINKAGE INDEX (LX) LIST
36	(24)	SIGNED	4	FSSLXN	NUMBER OF LXS REQUESTED
40	(28)	SIGNED	4	FSSLXV	VALUE (LX) RETURNED BY LXRES
44	(2C)	SIGNED	4	FSSAXL (0)	AUTHORIZATION INDEX (AX) LIST
44	(2C)	SIGNED	2	FSSAXN	NUMBER OF AXS REQUESTED
46	(2E)	SIGNED	2	FSSAXV	VALUE (AX) RETURNED BY AXRES
48	(30)	SIGNED	2	FSSAXSV	ORIGINAL AX, SAVED AFTER AXSET
50	(32)	ADDRESS	2		RESERVED FOR FUTURE USE
52	(34)	SIGNED	4	FSSETL (0)	ENTRY TABLE (ET) LIST
52	(34)	SIGNED	4	FSSETN	NUMBER OF ETS CREATED
56	(38)	SIGNED	4	FSSETV	VALUE (TOKEN) RETURNED BY ETCRE
		Comment			
		PC NUMBERS FOR CROSS MEMORY SERVICES ROUTINES IN HASPFSSM (MUST BE IN SAME ORDER AS PC ENTRY POINTS IN $HFCT) AND CROSS-MEMORY COMMUNICATION ECBS.			
		End of Comment			

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
60	(3C)	SIGNED	4	FSSPC (0)	
60	(3C)	ADDRESS	4	FSSORDPC	PC # OF XMS FSI-ORDER ROUTINE
64	(40)	ADDRESS	4	FSSPSTPC	PC # OF XMS FSI-POST ROUTINE
68	(44)	SIGNED	4	FSSXECB (0)	XECB TO POST PCE FOR FSS
68	(44)	X'48'	0	FSSDCTCH	"XECBPCE-XECB+FSSXECB" A(DCT CHAIN DURING JES2 INIT OR RE-INIT (HOT START)
92	(5C)	SIGNED	4	FSSEDECB	ECB FOR DISCONNECT COORDINATION
				Comment	
				MISCELLANEOUS CONTROL FIELDS AND FLAG BYTES	
				End of Comment	
96	(60)	ADDRESS	4	FSSQCTS	Address of QCT area
100	(64)	ADDRESS	4	FSSHFCT	A(HFCT IN FSSM FOR THIS FSS)
104	(68)	ADDRESS	4	FSSRCRTN	A(FSMRCRTN SRB RECONNECT RTN)
108	(6C)	ADDRESS	4	FSSFSACH	A(FSACB CHAIN FOR THIS FSS)
112	(70)	ADDRESS	4	FSSEXTN	A(FSS EXTENSION-FSS ADDR SPACE)
116	(74)	ADDRESS	4	FSSTCB	ADDRESS OF TCB CONNECTING FSS
120	(78)	SIGNED	2	FSSFSAMI	MAX FSA ID IN FSIDS WITHIN FSS
122	(7A)	SIGNED	2	FSSDIFM	COUNT OF DCTS IN FSS MODE
124	(7C)	SIGNED	2	FSSFSVTE	NUMBER OF ENTRIES IN THE FSVT IF THE FSS IS ACTIVE
126	(7E)	SIGNED	2	(2)	RESERVED FOR FUTURE USE
130	(82)	BITSTRING	1		Reserved for future use
131	(83)	BITSTRING	1	FSSFLAG4	General status flag. This flag is set only by the FSS address space. No serialization is required
				Comment	

				FSSFLAG4 -	
				If neither of the following bits is ON, then this	
				FSS does NOT support IP-format destination routing.	

				End of Comment	
		1...		FSS4IP	"B'10000000'" FSS supports ONLY IP-format
		.1..		FSS4BOTH	"B'01000000'" FSS supports BOTH IP&non-IP
132	(84)	SIGNED	4	FSSLWORD (0)	FSS 'LOCK' WORD WITH RAS FLAGS
132	(84)	BITSTRING	1	FSSFLAGA	FLAG BYTE
				Comment	
				FSSFLAGA	
				End of Comment	
		1...		FSSABORD	"B'10000000'" ABEND IN PC'D TO FSMORDER FSSM
		.1..		FSSA$ACT	"B'01000000'" FSS included in $ACTVFSS
		..1.		FSSASTPI	"B'00100000'" FSS STOP order issued
		...1		FSSABIT3	"B'00010000'" RESERVED FOR FUTURE USE
		.... 1...		FSSABIT4	"B'00001000'" RESERVED FOR FUTURE USE
		.... .1..		FSSABIT5	"B'00000100'" RESERVED FOR FUTURE USE
		.... ..1.		FSSABIT6	"B'00000010'" RESERVED FOR FUTURE USE
		1		FSSABIT7	"B'00000001'" RESERVED FOR FUTURE USE
133	(85)	BITSTRING	1	FSSFLAG1	FLAG BYTE - GENERAL USAGE
134	(86)	BITSTRING	1	FSSFLAG2	FLAG BYTE - GENERAL USAGE
135	(87)	BITSTRING	1	FSSFLAG3	FLAG BYTE - RAS USE
		1		FSSLMASK	"B'0001'" MASK FOR FSSFLAG3 IN FSSLWORD
136	(88)	SIGNED	4	FSSWORK	Work area
140	(8C)	SIGNED	4	FSSDOMID	DOMID FOR HASP706 MESSAGE
144	(90)	BITSTRING	8		RESERVED FOR FUTURE IBM USE
152	(98)	DBL WORD	8	FSSASTKN	FSS address space STKN
160	(A0)	CHARACTER	8	FSSAPARN	HASPFSSM APARNUM value
168	(A8)	CHARACTER	8	FSSPTFN	HASPFSSM PTFNUM value

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
176	(B0)	CHARACTER	8	FSSJOBID	Job id of the FSS
				Comment	

					FSSORINF will contain FSS level order information:
					$FSACB address for START FSA (ORDID=8) order.
					$FSACB address for STOP FSA (ORDID=12) order.
					PRT PCE address for START FSS (ORDID=0) order.
					PRT PCE address for STOP FSS (ORDID=4) order.

				End of Comment	
184	(B8)	ADDRESS	4	FSSORINF	Who is doing FSS activity
188	(BC)	SIGNED	2	FSSORDID	FSS activity - order id
190	(BE)	SIGNED	2		RESERVED FOR FUTURE IBM USE
192	(C0)	SIGNED	4	(0)	END OF FSSCB DSECT
192	(C0)	X'C0'	0	FSSCBLEN	"*-FSSCB" LENGTH OF THE FSS CONTROL BLOCK
				Comment	
					FLAG DEFINITIONS
					FSSFLAG1
				End of Comment	
		1...		FSSOROUT	"B'10000000'" FSS ORDER OUTSTANDING
		.1..		FSSRSOUT	"B'01000000'" FSS RESPONSE OUTSTANDING
		..1.		FSSTART	"B'00100000'" FSS START OUTSTANDING
		...1		FSSTOP	"B'00010000'" About to issue STOP FSS ord
		.... 1...		FSSDRAIN	"B'00001000'" ISSUE STOP FSS ORDER
		.... .1..		FSSABEND	"B'00000100'" ABNORMAL TERMINATION REQUESTED
		.... ..1.		FSSDUMP	"B'00000010'" DUMP REQUESTED ON STOP
		1		FSSFDRAN	"B'00000001'" FORCE FSS STOP PROCESSING
				Comment	
					FSSFLAG2
				End of Comment	
		1...		FSSACTIV	"B'10000000'" FSS ADDRESS SPACE IS ACTIVE
		.1..		FSS2BIT2	"B'01000000'" RESERVED FOR FUTURE USE
		..1.		FSS2ASD0	"B'00100000'" AUTOMATICALLY SHUT DOWN THE FSS IF THE FSA COUNT GOES TO ZERO
		...1		FSS2PAF	"B'00010000'" If the FSS-Cleanup PCE finds an FSSCB with FSSEOM on, it posts the PCE for each FSA. It then sets this flag so that all the PCEs are post only once
		.... 1...		FSSSTPE	"B'00001000'" PREVIOUS FSS STOP ERROR
		.... .1..		FSS24DG	"B'00000100'" FSS supports 4-digit devs
		.... ..1.		FSS2BIT6	"B'00000010'" RESERVED FOR FUTURE USE
		1		FSS2AM31	"B'00000001'" FSS supports AMODE 31
				Comment	
					FSSFLAG3
				End of Comment	
		1...		FSSCNCT1	"B'10000000'" FSS CONNECTING (LOCKS FSS CONNECT AND STAYS ON WHEN CONNECTED)
		.1..		FSSCNCT2	"B'01000000'" FSS HAS COMPLETED CONNECT
		..1.		FSSDCON	"B'00100000'" FSS IS(WILL) DISCONNECTING
		...1		FSSDCONX	"B'00010000'" JES2 IS READY FOR DISCONNECT
		.... 1...		FSSEOM	"B'00001000'" FSS MEMORY HAS ENDED
		.... .1..		FSSEOT	"B'00000100'" FSS CONNECTING TCB HAS ENDED
		.... ..1.		FSSRCOK	"B'00000010'" FSS RECONNECT SRB SUCCESSFUL

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
		1		FSSRCERR	"B'00000001'" FSS ERROR IN RECONNECT SRB RTN

$FSSCB Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
FSSA$ACT	84	40	FSSORINF	B8	
FSSABEND	C0	4	FSSOROUT	C0	80
FSSABIT3	84	10	FSSPC	3C	
FSSABIT4	84	8	FSSPROCN	8	
FSSABIT5	84	4	FSSPSTPC	40	
FSSABIT6	84	2	FSSPTFN	A8	
FSSABIT7	84	1	FSSQCTS	60	
FSSABORD	84	80	FSSRCERR	C0	1
FSSACTIV	C0	80	FSSRCOK	C0	2
FSSAPARN	A0		FSSRCRTN	68	
FSSASID	20		FSSRSOUT	C0	40
FSSASTKN	98		FSSSTPE	C0	8
FSSASTPI	84	20	FSSTART	C0	20
FSSAXL	2C		FSSTCB	74	
FSSAXN	2C		FSSTOP	C0	10
FSSAXSV	30		FSSWORK	88	
FSSAXV	2E		FSSXECB	44	
FSSCB	0		FSS2AM31	C0	1
FSSCBLEN	C0	C0	FSS2ASD0	C0	20
FSSCHAIN	1C		FSS2BIT2	C0	40
FSSCNCT1	C0	80	FSS2BIT6	C0	2
FSSCNCT2	C0	40	FSS2PAF	C0	10
FSSDCON	C0	20	FSS24DG	C0	4
FSSDCONX	C0	10	FSS4BOTH	83	40
FSSDCTCH	44	48	FSS4IP	83	80
FSSDIFM	7A				
FSSDOMID	8C				
FSSDRAIN	C0	8			
FSSDUMP	C0	2			
FSSEDECB	5C				
FSSEOM	C0	8			
FSSEOT	C0	4			
FSSETL	34				
FSSETN	34				
FSSETV	38				
FSSEXTN	70				
FSSFDRAN	C0	1			
FSSFLAGA	84				
FSSFLAG1	85				
FSSFLAG2	86				
FSSFLAG3	87				
FSSFLAG4	83				
FSSFSACH	6C				
FSSFSAMI	78				
FSSFSSID	22				
FSSFSSML	18				
FSSFSSMN	10				
FSSFSVTE	7C				
FSSHFCT	64				
FSSJOBID	B0				
FSSLMASK	87	1			
FSSLWORD	84				
FSSLXL	24				
FSSLXN	24				
FSSLXV	28				
FSSNAME	0				
FSSORDID	BC				
FSSORDPC	3C				

$FSSWORK Information

$FSSWORK Programming Interface information

Programming Interface information

$FSSWORK

End of Programming Interface information

$FSSWORK Heading Information

Common Name: HASP FSS-Support processor work area DSECT.
Macro ID: $FSSWORK
DSECT Name: PCE ($FSSWORK is part of the PCE DSECT)
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: 'PCE '
Offset: PCEEYE-PCE
Length: 4
Storage Attributes: Subpool: See $PCE
Key: See $PCE
Residency: See $PCE
Size: See symbol FSWLNGTH for the length of this work area. The overall length of the PCE is stored in field PCELENG.
Created by: See $PCE
Pointed to by: $PRTPCE field of the $HCT data area
Serialization: Normal PCE dispatch serialization
Function: This DSECT provides the work area required by a JES2 processor in support of a functional subsystem application. There are no PCEs of a type called 'FSS', but instead a PCE of another type (e.g. printer) is defined to ensure it is large enough to be changed into a PCE mapped by $FSSWORK if that processor type is allowed to run in FSS mode.

See the $PCETAB FSS=YES description for more details.

$FSSWORK Map

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	0	PCE	HASP FSS PROCESSOR
312	(138)	BITSTRING	1	FSWFLAG	PRINT/PUNCH FLAG BYTE
		1...		FSWFORDI	"B'10000000'" CURRENT ORDER WAS ISSUED UNDER CONTROL OF THIS PCE AND A TIMER IS OUTSTANDING (FSWTQE)
		.1..		FSWFMODE	"B'01000000'" THIS PCE PROCESSING MODE SWITCH
		..1.		FSWFACTV	"B'00100000'" THIS PCE HAS ISSUED $ACTIVE
		...1		FSWFNONE	"B'00010000'" FLASH=NONE INDICATOR
		.... 1...		FSWFARET	"B'00001000'" FSSP tried recovery from abend once
313	(139)	BITSTRING	1		RESERVED FOR FUTURE USE
314	(13A)	ADDRESS	2	FSWORDID	ORDID FOR ORDER ISSUED BY PCE
316	(13C)	SIGNED	4	FSWFWORK	FULL WORD WORK AREA
320	(140)	DBL WORD	8	FSWDWORK	DOUBLE WORD WORK AREA
328	(148)	SIGNED	4	FSWCMBAD	ADDRESS OF CMB FOR $DOM
332	(14C)	SIGNED	4	FSWFBPCT	$F/$B PAGE COUNT
336	(150)	BITSTRING	12	FSWTQE	FSS TIME QUEUE ELEMENT
348	(15C)	SIGNED	4	(0)	Insure fullword boundary
348	(15C)	BITSTRING	12	FSWPELMT (0)	$XMPOST POST element
348	(15C)	ADDRESS	4	FSWPERET	$XMPOST POST element ERRET
352	(160)	ADDRESS	4	FSWPECB	$XMPOST POST ELEMENT ECB ADDR
356	(164)	ADDRESS	4	FSWPASCB	$XMPOST POST ELEMENT ASCB ADDR
360	(168)	ADDRESS	2	FSWNRCNT	WAITING FOR RESPONSE COUNT
360	(168)	X'12C'	0	FSWTIME	"300" TIME INTERVAL FOR CONNECT
364	(16C)	ADDRESS	4	FSWFSSCB	ADDRESS OF FSSCB
368	(170)	SIGNED	4	FSWJ2TRP	Pointer to FSA level rolling trace storage
372	(174)	SIGNED	4	FSWFSACT	Trace counter for FSA trace
376	(178)	SIGNED	4	(0)	
376	(178)	X'40'	0	FSWHLGTH	"*-PCEWORK" FSS PCE WORK AREA HEADER LENGTH

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
			Comment		
		THE FSS PCE WORK AREA IS COMPRISED OF A HEADER AREA AND 3 VARIABLE LENGTH EXTENSIONS WHICH ARE ORGED OVER EACH OTHER. THESE 3 EXTENSIONS ARE the message, RELDS, and GETDS work areas. The length of the FSS PCE work area is determined by adding the length of the header area to that of the GETDS work area (276 bytes), since it is the largest of the 3 extensions.			
			End of Comment		
376	(178)	SIGNED	4	FSWJIBWK (0)	JIB Work area
376	(178)	CHARACTER	256	FSWRK	Message work area
376	(178)	CHARACTER	24		JIB RELDS MVCP Wk area
376	(178)	CHARACTER	212		JIB GETDS MVCS work area part 1
588	(24C)	CHARACTER	64		JIB GETDS MVCS work area part 2
652	(28C)	SIGNED	4	(0)	INSURE FULLWORD ALIGNMENT
652	(28C)	X'154'	0	FSWLNGTH	"FSWHLGTH+*-FSWJIBWK" FSS PCE WORK AREA LENGTH

$FSSWORK Cross Reference

Name	Hex Offset	Hex Value
FSWCMBAD	148	
FSWDWORK	140	
FSWFACTV	138	20
FSWFARET	138	8
FSWFBPCT	14C	
FSWFLAG	138	
FSWFMODE	138	40
FSWFNONE	138	10
FSWFORDI	138	80
FSWFSACT	174	
FSWFSSCB	16C	
FSWFWORK	13C	
FSWHLGTH	178	40
FSWJIBWK	178	
FSWJ2TRP	170	
FSWLNGTH	28C	154
FSWNRCNT	168	
FSWORDID	13A	
FSWPASCB	164	
FSWPECB	160	
FSWPELMT	15C	
FSWPERET	15C	
FSWRK	178	
FSWTIME	168	12C
FSWTQE	150	
PCE	0	

$FSSXB Information

$FSSXB Programming Interface information

Programming Interface information

$FSSXB

End of Programming Interface information

$FSSXB Heading Information

Common Name: FSS Control Block Extension DSECT
Macro ID: $FSSXB
DSECT Name: FSXB
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: FSXB
Offset: FSXBCBID-FSXB
Length: L'FSXBCBID
Storage Attributes: Subpool: 230
Key: 1
Residency: Virtual and real storage is based on the addressing mode of the FSS. If restricted to 24 bit storage, then the FSSXB must be in 24 bit storage. Otherwise it can be anywhere in 31 bit storage.
Size: See FSXBLEN
Created by: HASPFSSM during FSS connect processing
Pointed to by: FSSEXTN field of the FSSCB data area
Serialization: None required
Function: The FSSXB is the private area extension to the FSSCB.

$FSSXB Map

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	0	FSXB	FSS CNTL BLOCK EXTENSION DSECT
0	(0)	CHARACTER	4	FSXBCBID	FSS CONTROL BLOCK EXT ID
4	(4)	CHARACTER	8	FSXBNAME	FUNCTIONAL SUBSYSTEM NAME
12	(C)	ADDRESS	4	FSXBFSSA	A(FSSCB) FOR THIS EXTENSION
16	(10)	SIGNED	4	FSXBFSIP (0)	ORDER FSIREQ PARM LIST
124	(7C)	SIGNED	4	FSXBFSIR (0)	ORDER RESPONSE AREA
184	(B8)	SIGNED	4	FSXBOSAV (18)	ORDER SAVE AREA
256	(100)	ADDRESS	4	FSXBXETA	ADDR OF ENTRY TABLE DESC (ETD)
256	(100)	X'104'	0	FSXBLEN	"*-FSXB" LENGTH OF THE FSS CNTL BLOCK EXT

$GGEQU Information

$GGEQU Programming Interface information

Programming Interface information

$GGEQU

End of Programming Interface information

$GGEQU Heading Information

Common Name: Generic grouping equates
Macro ID: $GGEQU
DSECT Name: n/a
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: None
Storage Attributes: Subpool: N/A
Key: N/A
Residency: N/A
Size: N/A
Created by: N/A
Pointed to by: N/A
Serialization: N/A
Function: Defines equates related to the generic grouping services ($GASSIGN, $GKGET, $GKINIT, $GKTERM, $GSINIT, $GSTERM).

$GGEQU Map

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

Comment

```
,$MODULE - $CADDR WILL BE GENERATED, IT IS REQUIRED BY
,$MODULE - $HASPEQU WILL BE GENERATED, IT IS REQUIRED BY
,$MODULE - $MIT WILL BE GENERATED, IT IS REQUIRED BY
,$MODULE - $MITETBL WILL BE GENERATED, IT IS REQUIRED BY
,$MODULE - $PADDR WILL BE GENERATED, IT IS REQUIRED BY
,$MODULE - $PARMLST WILL BE GENERATED, IT IS REQUIRED BY
,$MODULE - $PSV WILL BE GENERATED, IT IS REQUIRED BY
,$MODULE - $USERCBS WILL BE GENERATED, IT IS REQUIRED BY
```

End of Comment

Comment

```
     START OF SPECIFICATIONS
01 DESCRIPTIVE NAME: Generic grouping equates
02 ACRONYM: $GGEQU
01 MACRO NAME: $GGEQU
01 DSECT NAME: n/a
01 LABEL PREFIX: GG
01 COMPONENT ID: JES2 (SC1BH)
01 EXTERNAL CLASSIFICATION: PSPI
01 END OF EXTERNAL CLASSIFICATION:
01 EYE-CATCHER: None
02 OFFSET: N/A
02 LENGTH: N/A
01 STORAGE ATTRIBUTES:
02 SUBPOOL: N/A
02 KEY: N/A
02 RESIDENCY: N/A
01 SIZE: N/A
01 CREATED BY: N/A
```

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

01 POINTED TO BY: N/A
01 SERIALIZATION: N/A
01 FUNCTION:
Defines equates related to the generic grouping services ($GASSIGN, $GKGET, $GKINIT, $GKTERM, $GSINIT, $GSTERM).
01 METHOD OF ACCESS:
02 ASM:
Specify $GGEQU as a positional operand on a $MODULE macro instruction to cause this mapping to be generated.
02 PL/X:
This mapping is not available for compilations.
01 USED BY:
Callers of the generic grouping services.
01 DELETED BY: N/A
01 FREQUENCY: N/A
01 RESTRICTIONS:
None
END OF SPECIFICATIONS
01 CHANGE ACTIVITY:
A000000-999999 Created for JES2 4.1.0
Return codes
Note: Return code 4 is reserved for future use for less severe (warning) conditions.

End of Comment

0	(0)	X'0'	0	GGRCOK	"0" Processing successful
0	(0)	X'8'	0	GGRCERR	"8" Error detected

Comment

Reason codes
Each service returns a subset of these reason codes.
Each service macro's prolog lists the reason codes that the service returns.

End of Comment

0	(0)	X'0'	0	GGRSOK	"0" Processing successful
0	(0)	X'4'	0	GGRSJDVT	"4" JDVT name is undefined
0	(0)	X'8'	0	GGRSPVST	"8" Private storage is unavailable
0	(0)	X'C'	0	GGRSCMST	"12" Common storage is unavailable
0	(0)	X'10'	0	GGRSIPCE	"16" Caller is not the initialization PCE

Comment

Miscellaneous constants

End of Comment

0	(0)	X'20'	0	GGMAXFPL	"32" Maximum footprint length
0	(0)	X'20'	0	GGMAXMSL	"32" Maximum message length

$GGEQU Cross Reference

Name	Hex Offset	Hex Value
GGMAXFPL	0	20
GGMAXMSL	0	20
GGRCERR	0	8
GGRCOK	0	0
GGRSCMST	0	C
GGRSIPCE	0	10
GGRSJDVT	0	4
GGRSOK	0	0
GGRSPVST	0	8

$GPQE Information

$GPQE Heading Information

Common Name: General purpose subtask queue element
Macro ID: $GPQE
DSECT Name: GPQE
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: 'GPQE'
Offset: 0
Length: 4
Storage Attributes: Subpool: see GPQPOOL
Key: 1
Residency: Virtual storage belw 2Gb, real storage anywhwere, in the private storage of a JES@ NETSRV address space
Size: See CIDSIZE
Created by: $SUBIT service in HASCNJGP
Pointed to by: GPQNEXT field of the $GPQE data area
GPQPREV field of the $GPQE data area
NSCGPQEH field of the $NSCT data area
NSCGPQET field of the $NSCT data area
SQDGPQ field of the $SQD data area
Serialization: Queue managed by $FIFOENQ and $FIFODEQ
Function: General purpose subtask queue element .

$GPQE Map

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	0	GPQE	Work area
0	(0)	CHARACTER	4	GPQEYE	Eyecatcher
4	(4)	ADDRESS	4	GPQNEXT	Next subtask area
8	(8)	ADDRESS	4	GPQPREV	Previous subtask area
12	(C)	SIGNED	4	GPQSQD	SQD address
16	(10)	BITSTRING	16	GPQTTOK	TCB token of requesting task
16	(10)	X'20'	0	GPQLEN	"*-GPQE" LENGTH OF AREA

$GTW Information

$GTW Heading Information

Common Name: HASP $#GET trace work area dsect
Macro ID: $GTW
DSECT Name: GTW
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: 'GTW '
Offset: GTWID-GTW
Length: 4
Storage Attributes: Subpool: 1
Key: 1
Residency: Anywhere (above or below 16M) in the private storage of the JES2 address space.
Size: See GTWLEN
Created by: $#GET and $#POST service routines
Pointed to by: WSPGTW field of the $WSP data area ($#GET)
WSAPSGTW field of the $WSA data area ($#POST)
Serialization: No special serialization other than that currently implied by the $#GET service routine is required.
Function: This dsect maps a work area used by $#GET, $#POST, and $QGET services to save information to be included in the JES2 $TRACE id 20, 30, and 31 records.

$GTW Map

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	0	GTW	
0	(0)	CHARACTER	4	GTWID	GTW IDENTIFIER
4	(4)	BITSTRING	1	GTWVERS	GTW VERSION
5	(5)	BITSTRING	1	GTWFLAGP	Processing flag byte
		1...		GTWPTIME	"B'10000000'" CPU time has been set
6	(6)	BITSTRING	2		Reserved
8	(8)	SIGNED	4	GTWSTART (0)	START OF $TRACE DATA
		Comment			

		Fields used by more than one routine			

		End of Comment			
8	(8)	DBL WORD	8	GTWTIME	CPU Time used by this call in TOD format
16	(10)	SIGNED	4	GTWJSCR	NUMBER OF WS CALLS MADE
20	(14)	SIGNED	4	GTWJNUM	NUMBER OF JOES LOOKED AT
24	(18)	SIGNED	4	GTWJOACT	NUMBER OF $DOGJOE CALLS
28	(1C)	SIGNED	4	GTWBEST	Which JOE was selected out of the ones looked at
32	(20)	ADDRESS	4	GTWCALER	Address of caller
36	(24)	SIGNED	4	GTWWSTAB	WS TABLE ADDRESS
40	(28)	CHARACTER	18	GTWDCTN	Dev name in one of 2 forms For non-SAPI: WSPDEVN2 For SAPI: jobname.sss2appl
40	(28)	X'28'	0	GTWPITN	"GTWDCTN,4" For initiators: PITPATID
58	(3A)	ADDRESS	2	(0)	Ensure big enough
58	(3A)	ADDRESS	2	(0)	
58	(3A)	BITSTRING	1	GTWTFLG1	Caller type
		1...		GTWT1GET	"B'10000000'" $#GET
		.1..		GTWT1PST	"B'01000000'" $#POST

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
		..1.		GTWT1QGT	"B'00100000'" $QGET
		...1		GTWT1PSO	"B'00010000'" PSO
59	(3B)	BITSTRING	100	GTWWS	Device work selection list
159	(9F)	BITSTRING	25	GTWMASK	Criteria value mask
184	(B8)	DBL WORD	8	GTWORG (0)	Start caller specific data
		Comment			

		Fields used by $#GET/PSO only ($TRACE 20)			

		End of Comment			
		Comment			
		KEEP THE NEXT 4 BYTES TOGETHER FOR $TRACE FORMATTING			
		End of Comment			
184	(B8)	BITSTRING	1	GTWDCT	DCT DEVICE TYPE
185	(B9)	BITSTRING	1	GTWFLAG1	1ST FLAG BYTE
		1...		GTW1WS	"B'10000000'" TYPE=WS REQUEST
		.1..		GTW1NET	"B'01000000'" TYPE=NET REQUEST
		..1.		GTW1HYES	"B'00100000'" HAVE=YES REQUEST
		...1		GTW1CNT	"B'00010000'" COUNT=YES request
		.... 1...		GTW1CYES	"B'00001000'" CHAIN=YES REQUEST
		.... .1..		GTW1NSAF	"B'00000100'" SAF=NO request
		.... ..1.		GTW1ALM	"B'00000010'" LINE MGR REQ, AUTOLOGN SCAN
186	(BA)	BITSTRING	1	GTWFLAG2	2ND FLAG BYTE
		1...		GTW2FAST	"B'10000000'" Fast exit from $#GET due to value in DCTPJOE/WSPPJOE
		..1.		GTW2NO	"B'00100000'" NO WORK FOUND
		.... .1..		GTW2JOEX	"B'00000100'" JOE index was used
		.... ..1.		GTW2JXOV	"B'00000010'" JOE index priority array overflow detected
		1		GTW2SAFF	"B'00000001'" GET FAILURE DUE TO SAF CALL
187	(BB)	BITSTRING	1	GTWFLAG3	PSO selection flags
188	(BC)	SIGNED	4	GTWJOES	NUMBER OF JOES DEFINED
192	(C0)	SIGNED	4	GTWQNUM	NUMBER OF JOES IN USE
		Comment			
		THE FOLLOWING TWO COUNTS APPLY ONLY TO CHAIN=YES REQUESTS			
		End of Comment			
196	(C4)	SIGNED	4	GTWCHCNT	NUMBER OF JOES ON JOB CHAIN
200	(C8)	SIGNED	4	GTWCHSEL	NUMBER SELECTED FROM JQE/JOE CHAIN
204	(CC)	SIGNED	4	GTWROUTE (0)	REMOTE ID OF DATA SELECTED
204	(CC)	SIGNED	2	GTWNODE	NODE ID
206	(CE)	SIGNED	2	GTWRMT	REMOTE ID
208	(D0)	CHARACTER	8	GTWUSER	USERID
216	(D8)	BITSTRING	1	GTWCLASS	CLASS VALUE OF DATA
217	(D9)	BITSTRING	1		Reserved
218	(DA)	BITSTRING	2	GTWVORD	View used when GTW2JOEX
220	(DC)	SIGNED	4		Reserved
		Comment			

		Fields used by $#POST only ($TRACE 30)			

		End of Comment			
184	(B8)	CHARACTER	8	GTWJONAM	JOE OUTGRP name
192	(C0)	SIGNED	2	GTWJOID1	qualifier 1

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
194	(C2)	SIGNED	2	GTWJOID2	qualifier 2
196	(C4)	CHARACTER	8	GTWJQNAM	Job name
204	(CC)	SIGNED	4	GTWJBNUM	Job number
208	(D0)	BITSTRING	1	GTWJQTYP	Job type flags
209	(D1)	BITSTRING	3		Reserved
212	(D4)	SIGNED	4	GTWWSPCT	Number of WSPs scanned
216	(D8)	SIGNED	4	GTWPSTCT	Number of WSPs $POSTed
220	(DC)	SIGNED	4	GTWWTRCT	Number of XWTRs scanned
224	(E0)	SIGNED	4	GTWPSTWR	Number of XWTRs $POSTed
228	(E4)	SIGNED	4	GTWSPICT	Number of SAPIDs scanned (full screening)
232	(E8)	SIGNED	4	GTWSPIRT	Number of SAPIDs scanned (abbreviated screening)
236	(EC)	SIGNED	4	GTWPSTSP	Number of SAPIDs $POSTed
				Comment	

				Fields used by $QGET only ($TRACE 31)	

				End of Comment	
184	(B8)	SIGNED	4	GTWX14RC	Exit 14 return code
188	(BC)	BITSTRING	8	GTWX14TM	Time spent in exit 14
196	(C4)	BITSTRING	8	GTWX49TM	Time spent in exit 49
204	(CC)	SIGNED	4	GTWX49SK	# JOBS vetoed by exit 49
208	(D0)	BITSTRING	1	GTWQFLG1	Flags
		1...		GTWQ1X14	"B'10000000'" Exit 14 was entered
		.1..		GTWQ1X49	"B'01000000'" Exit 49 was entered
		..1.		GTWQ1W49	"B'00100000'" Exit 49 $WAITed
		...1		GTWQ1WLM	"B'00010000'" QGET reject because WLM goals exceeded
209	(D1)	BITSTRING	1	GTWQUEUE	Queue scanned by type
210	(D2)	BITSTRING	2		Reserved for future use
212	(D4)	SIGNED	4	GTWQJQAN	Number of JQAs obtained
216	(D8)	SIGNED	4	GTWJQMAX	Number of JQEs defined
220	(DC)	SIGNED	4	GTWJQFRE	Number of free JQEs
				Comment	
				------ $QGET MF=L $QGET parameter list	
				End of Comment	
224	(E0)	ADDRESS	4	GTWQGT	NODE TABLE ADDRESS
228	(E4)	ADDRESS	4		CONTROL BLOCK ADDRESS
232	(E8)	ADDRESS	4		ADDRESS OF JQE
236	(EC)	ADDRESS	1		QUEUE TYPE SPECIFIED
237	(ED)	ADDRESS	1		WORK SELECTION TYPE FLAG
238	(EE)	ADDRESS	1		RESERVED FOR FUTURE USE
238	(EE)	X'F'	0	GTWQGTL	"*-GTWQGT" Length of $QGET parm list
240	(F0)	SIGNED	4	(0)	Ensure WORD boundary
240	(F0)	CHARACTER	1	GTWCLST	Class list.
240	(F0)	X'F0'	0	GTWWSCN	"GTWCLST,8" Service class for WLM inits
304	(130)	SIGNED	4	GTWQGTRC	$QGET return code
				Comment	

				End of GTW	

				End of Comment	
308	(134)	X'12C'	0	GTWSIZE	"*-GTWSTART" SIZE OF $#GET TRACE RECORD
308	(134)	X'4'	0	GTWVERSN	"4" Version number
308	(134)	X'134'	0	GTWLEN	"*-GTW" LEN OF GTW WORK AREA

$GTW Cross Reference

Name	Hex Offset	Hex Value
GTW	0	
GTWBEST	1C	
GTWCALER	20	
GTWCHCNT	C4	
GTWCHSEL	C8	
GTWCLASS	D8	
GTWCLST	F0	
GTWDCT	B8	
GTWDCTN	28	
GTWFLAGP	5	
GTWFLAG1	B9	
GTWFLAG2	BA	
GTWFLAG3	BB	
GTWID	0	
GTWJBNUM	CC	
GTWJNUM	14	
GTWJOACT	18	
GTWJOES	BC	
GTWJOID1	C0	
GTWJOID2	C2	
GTWJONAM	B8	
GTWJQFRE	DC	
GTWJQMAX	D8	
GTWJQNAM	C4	
GTWJQTYP	D0	
GTWJSCR	10	
GTWLEN	134	134
GTWMASK	9F	
GTWNODE	CC	
GTWORG	B8	
GTWPITN	28	28
GTWPSTCT	D8	
GTWPSTSP	EC	
GTWPSTWR	E0	
GTWPTIME	5	80
GTWQFLG1	D0	
GTWQGT	E0	
GTWQGTL	EE	F
GTWQGTRC	130	
GTWQJQAN	D4	
GTWQNUM	C0	
GTWQUEUE	D1	
GTWQ1WLM	D0	10
GTWQ1W49	D0	20
GTWQ1X14	D0	80
GTWQ1X49	D0	40
GTWRMT	CE	
GTWROUTE	CC	
GTWSIZE	134	12C
GTWSPICT	E4	
GTWSPIRT	E8	
GTWSTART	8	
GTWTFLG1	3A	
GTWTIME	8	
GTWT1GET	3A	80
GTWT1PSO	3A	10
GTWT1PST	3A	40
GTWT1QGT	3A	20
GTWUSER	D0	
GTWVERS	4	
GTWVERSN	134	4
GTWVORD	DA	
GTWWS	3B	
GTWWSCN	F0	F0
GTWWSPCT	D4	
GTWWSTAB	24	
GTWWTRCT	DC	
GTWX14RC	B8	
GTWX14TM	BC	
GTWX49SK	CC	
GTWX49TM	C4	
GTW1ALM	B9	2
GTW1CNT	B9	10
GTW1CYES	B9	8
GTW1HYES	B9	20
GTW1NET	B9	40
GTW1NSAF	B9	4
GTW1WS	B9	80
GTW2FAST	BA	80
GTW2JOEX	BA	4
GTW2JXOV	BA	2
GTW2NO	BA	20
GTW2SAFF	BA	1

$HASB Information

$HASB Programming Interface information

Programming Interface information

$HASB

End of Programming Interface information

$HASB Heading Information

Common Name: HASP Address Space Block
Macro ID: $HASB
DSECT Name: HASB
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: HASB
Offset: HSBID
Length: L'HSBID
Storage Attributes: Subpool: 241 (ECSA)
Key: 1
Residency: The HASB resides in ECSA. Virtual and real storage are 31-bit.
Size: See HSBLEN
Created by: $SSIBEGN
Pointed to by: ASID*4 + HAVT (See below)
Serialization: Shared by TCBs in the address space.
One $HASB per address space. Local lock is required to increment use count in $HASXB. This ensures that the HASB/HASXB won't be FREEMAINed if it is considered to be temporary.
After the use count has been incremented in the $HASXB control block to indicate that both the $HASB and $HASXB are in use, compare and swaps may be used to modify fields.
$SSIBEGN increments the use count upon entry. The use count in the $HASXB is for both the $HASB and the $HASXB.
Compare and swap is needed to update the HSBFLAG.
Function: The HASB and HASXB are the main control blocks for an address space that invokes JES2 SSI functions.
Address spaces that are started under JES2 (STCs, TSUs, batch initiators) have a "permanent" HASB and HASXB which exist for the life of the address space. Address spaces that request a job id from JES2 have a "system" HASB and HASXB which exist until the job id is returned.
All other address spaces obtain a temporary HASB and HASXB which exist for the life of a SSI request.

$HASB Map

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	0	HASB	BEGINNING OF $HASB DSECT
0	(0)	CHARACTER	4	HSBID	EYECATCHER OF $HASB
4	(4)	ADDRESS	1	HSBVRSN	VERSION NUMBER FIELD
4	(4)	X'2'	0	HSBVRNUM	"2" THE CURRENT VERSION NUMBER
5	(5)	BITSTRING	1	HSBFLAG	Flag byte, use CS to modify
		1...		HSBDJWEL	"B'10000000'" Dispose JWEL flag
		.1..		HSBSJBE	"B'01000000'" Dump for SJBFIND taken
6	(6)	SIGNED	2	HSBASID	ASID
8	(8)	SIGNED	4	HSBCRSYS	CROSS SYSTEM REQUEST COUNT

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
			Comment		
		This field, HSBCRSYS, must be zero for the HASB to be freed. However, it is not checked in the same way as the fields in the section below, so it is not there.			
			End of Comment		
12	(C)	ADDRESS	4	HSBHASXB	ADDR OF HASP ADDR SP EXT BLOCK
16	(10)	ADDRESS	4	HSBJESCB	Addr of PCL for NETSRV address spaces
			Comment		
		All fields encompassed by HSBCHECK must be zero for the $SSIEND routine to free the HASB at the end of the SSI call. (Unless it's an END-OF-MEMORY call).			
			End of Comment		
20	(14)	ADDRESS	4	HSBSJB	ADDRESS OF FIRST SJB
24	(18)	ADDRESS	4	HSBUSER1	RESERVED FOR USER
28	(1C)	ADDRESS	4	HSBINTRE	Address of 1st INTRDR element (IRE)
28	(1C)	X'14'	0	HSBCHECK	"HSBSJB,*-HSBSJB" BEFORE HASB IS FREED THIS MUST BE 0
			Comment		
		---------- The following byte identifies the type of address space and the contents of HSBJESCB. HSBASNSV - PCL for NETSERV address space HSBASCI - CICB for JES2 C/I address space ----------			
			End of Comment		
32	(20)	BITSTRING	1	HSBASTYP	JES2 address space type
32	(20)	X'1'	0	HSBASNSV	"1" NETSERV address space
32	(20)	X'2'	0	HSBASCI	"2" JES2 C/I address space
33	(21)	BITSTRING	7		Reserved
40	(28)	BITSTRING	8	HSBSTOKN	STOKEN OF ADDRESS SPACE
48	(30)	DBL WORD	8	HSBTRETM	Oldest time TRE made active
48	(30)	X'38'	0	HSBLEN	"*-HASB" LENGTH OF $HASB DSECT

$HASB Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
HASB	0		HSBUSER1	18	
HSBASCI	20	2	HSBVRNUM	4	2
HSBASID	6		HSBVRSN	4	
HSBASNSV	20	1			
HSBASTYP	20				
HSBCHECK	1C	14			
HSBCRSYS	8				
HSBDJWEL	5	80			
HSBFLAG	5				
HSBHASXB	C				
HSBID	0	C8C1E2C2			
HSBINTRE	1C				
HSBJESCB	10				
HSBLEN	30	38			
HSBSJB	14				
HSBSJBE	5	40			
HSBSTOKN	28				
HSBTRETM	30				

$HASPEQU Information

$HASPEQU Programming Interface information

Programming Interface information

$HASPEQU

End of Programming Interface information

$HASPEQU Heading Information

Common Name: Equates for JES2
Macro ID: $HASPEQU
DSECT Name: None
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: None
Storage Attributes: Subpool: N/A
Key: N/A
Residency: N/A
Size: N/A
Created by: N/A
Pointed to by: N/A
Serialization: N/A
Function: The $HASPEQU macro is used to generate the register and other equates required by JES2. It also contains some executable macro in-line parameter list equates.

$HASPEQU 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	$HASPEQU	, HASP equates DSECT
				Comment	
				Absolute register definitions	
				End of Comment	
0	(0)	X'0'	0	R0	"0"
0	(0)	X'1'	0	R1	"1"
0	(0)	X'2'	0	R2	"2"
0	(0)	X'3'	0	R3	"3"
0	(0)	X'4'	0	R4	"4"
0	(0)	X'5'	0	R5	"5"
0	(0)	X'6'	0	R6	"6"
0	(0)	X'7'	0	R7	"7"
0	(0)	X'8'	0	R8	"8"
0	(0)	X'9'	0	R9	"9"
0	(0)	X'A'	0	R10	"10"
0	(0)	X'B'	0	R11	"11"
0	(0)	X'C'	0	R12	"12"
0	(0)	X'D'	0	R13	"13"
0	(0)	X'E'	0	R14	"14"
0	(0)	X'F'	0	R15	"15"
				Comment	
				Access register definitions	
				End of Comment	
0	(0)	X'0'	0	AR0	"0"
0	(0)	X'1'	0	AR1	"1"
0	(0)	X'2'	0	AR2	"2"
0	(0)	X'3'	0	AR3	"3"
0	(0)	X'4'	0	AR4	"4"
0	(0)	X'5'	0	AR5	"5"

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	X'6'	0	AR6	"6"
0	(0)	X'7'	0	AR7	"7"
0	(0)	X'8'	0	AR8	"8"
0	(0)	X'9'	0	AR9	"9"
0	(0)	X'A'	0	AR10	"10"
0	(0)	X'B'	0	AR11	"11"
0	(0)	X'C'	0	AR12	"12"
0	(0)	X'D'	0	AR13	"13"
0	(0)	X'E'	0	AR14	"14"
0	(0)	X'F'	0	AR15	"15"
				Comment	
				Floating point registers	
				End of Comment	
0	(0)	X'0'	0	FP0	"0"
0	(0)	X'2'	0	FP2	"2"
0	(0)	X'4'	0	FP4	"4"
0	(0)	X'6'	0	FP6	"6"
				Comment	
				Values fixed by the hardware	
				End of Comment	
0	(0)	X'1000'	0	$PGESIZE	"4096" PROCESSOR PAGE SIZE -- 4K
				Comment	
				Miscellaneous definitions	
				End of Comment	
0	(0)	X'0'	0	NONE	"0" NO BITS ON, NEVER BRANCH
0	(0)	X'FF'	0	FF	"255" ALL BITS ON, ALWAYS BRANCH
0	(0)	BITSTRING	0	FFFF	"X'FFFF'" All bits on for half word
0	(0)	BITSTRING	0	$MAXFSGN	"X'7FFFFFFF'" Max signed value
				Comment	
				Event control field flag definitions defining JES2 dispatcher events for $WAIT,INHIBIT=YES and $POSTS of specific PCEs for events	
				End of Comment	
		1...		$EWFPOST	"X'80'" INHIBIT SPECIFIC PCE $POST
		.1..		$EWFOPER	"X'40'" PROCESSOR DEACTIVATED
		..1.		$EWFIO	"X'20'" WAITING FOR I/O
		...1		$EWFWORK	"X'10'" WAITING FOR WORK
		.... 1...		$EWFHOLD	"X'08'" WAITING FOR $S COMMAND
				Comment	
				Dispatcher resource definitions JES2 values start at 0 and increase while user values start at 63 and decrease - See documentation in the $WAIT and $POST macros	
				End of Comment	
0	(0)	X'0'	0	$DRMLLM	"0" 'Line manager resource $POSTS'
0	(0)	X'1'	0	$DRABIT	"1" 'Wait for one dispatcher cycle'
0	(0)	X'2'	0	$DRALOC	"2" 'HOSALLOC subtask serialization'
0	(0)	X'3'	0	$DRIMAGE	"3" 'Requested/executed image load'
0	(0)	X'4'	0	$DRBUF	"4" 'Need/freed JES2 buffer'

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	X'5'	0	$DRJOT	"5" 'Need/added selectable JOEs'
0	(0)	X'6'	0	$DRJOE	"6" 'Need/freed unused JOE'
0	(0)	X'7'	0	$DRTRACK	"7" 'Need/freed spool track group'
0	(0)	X'8'	0	$DRJOB	"8" 'Need job/changed a job's status'
0	(0)	X'9'	0	$DRUNIT	"9" 'Need/set device (DCT) undrained'
0	(0)	X'A'	0	$DRCKPT	"10" 'Need/--- CKPT WRITE cycle'
0	(0)	X'B'	0	$DRCKPTP	"11" '---/completed CKPT WRITE cycle'
0	(0)	X'C'	0	$DRCKPTL	"12" 'Lurking for CKPT READ'
0	(0)	X'D'	0	$DRCKPTW	"13" 'Need/completed CKPT WRITE cycle'
0	(0)	X'E'	0	$DRCMB	"14" 'Need/freed unused CMB'
0	(0)	X'F'	0	$DRSMF	"15" 'Need/freed unused SMF buffer'
0	(0)	X'10'	0	$DRLOCK	"16" 'Need/freed a job lock'
0	(0)	X'11'	0	$DRMAIN	"17" 'Need/freed main storage'
0	(0)	X'12'	0	$DRFSS	"18" 'FSS ORDER serialization'
0	(0)	X'13'	0	$DRPSO	"19" 'Want/added elements to PSO queue'
0	(0)	X'14'	0	$DRPURGE	"20" 'Want/added JQEs to PURGE queue'
0	(0)	X'15'	0	$DRTIPS	"21" 'PCE - update JOE BERT transaction information'
0	(0)	X'16'	0	$DRCNVT	"22" 'Want/added JQEs to CNVT queue'
0	(0)	X'17'	0	$DRHOPE	"23" 'Want/added JQEs to OUTPUT queue'
0	(0)	X'18'	0	$DRPCETM	"24" 'PCE waiting to be detached by resource manager'
0	(0)	X'19'	0	$DRRMWT	"25" 'PCE waiting to be $POSTed by resource manager'
0	(0)	X'1A'	0	$DRSTAC	"26" 'STATUS/CANCEL resource type'
0	(0)	X'1B'	0	$DRNEWS	"27" 'PCE waiting for a JNEW update (part of JESNEWS process)'
0	(0)	X'1C'	0	$DRGENL	"28" 'General resource - used by COMM/RDR for S INIT'
0	(0)	X'1D'	0	$DRSPIN	"29" 'Want/added: spin IOT on CCT or JQE on spin queue'
0	(0)	X'1E'	0	$DRJCMD	"30" 'PCE waiting for a JQE to restart or cancel'
0	(0)	X'1F'	0	$DRWARM	"31" 'PCE waiting for a member to warm start'
0	(0)	X'20'	0	$DRARMS	"32" 'ARM support processor'
0	(0)	X'21'	0	$DRHOMOG	"33" 'PCEs waiting for JESplex version change'
0	(0)	X'22'	0	$DRPROCLIB	"34" 'PCEs waiting PROCLIB allocate/unallocate'
0	(0)	X'23'	0	$DRMFMT	"35" 'PCEs waiting for SPOOL mini-format completion'
0	(0)	X'24'	0	$DRCCAN	"36" 'Cancel JOB/TSU/STC in conversion'
0	(0)	X'25'	0	$DRSPI	"37" 'PCEs waiting for Sysout API requests'
0	(0)	X'26'	0	$DRBERTW	"38" 'Waiting for a free BERT'
0	(0)	X'27'	0	$DRBERTL	"39" 'Waiting for a BERT lock to free'
0	(0)	X'28'	0	$DRBREG	"40" 'PCES waiting for WLM registration requests'
0	(0)	X'29'	0	$DRDILBERT	"41" 'PCES waiting for $DILBERT requests'
0	(0)	X'2A'	0	$DRXMITJOB	"42" 'Waiting for NJE JOB activity'
0	(0)	X'2B'	0	$DRALICE	"43" 'PCEs waiting for incomplete warmstart'
0	(0)	X'2C'	0	$DREOM	"44" 'PCES waiting for an EOM to occur'
0	(0)	X'2D'	0	$DRIRCLEAN	"45" 'Internal Reader Cleanup needed'
0	(0)	X'2E'	0	$DRDAWN	"46" 'PCEs waiting for work notifications'
0	(0)	X'2F'	0	$DRJOEI	"47" 'PCEs waiting for JOEINDEX requests'
0	(0)	X'40'	0	$DRTOTAL	"64" TOTAL NUMBER OF RESOURCES
0	(0)	X'8'	0	$DRQUEL	"8" LENGTH OF A RESOURCE QUEUE ELMT CIRCULAR FORWARD/BACKWARD PTRS, PCEPCEA/PCEPCEB ARE CHAIN FLDS

Comment

$MSG prefix length EQU

End of Comment

0	(0)	X'2'	0	$MSGPFXL	"2" TWO BYTE PACKED DEC. MSG NO.

Comment

DISPER= equates for messages in HASPMSG

End of Comment

	1...	$M064IBE	"B'10000000'" IOBE is present
	.1..	$M064NIB	"B'01000000'" No IOBE is available
	..1.	$M064SNS	"B'00100000'" Sense data is available

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
		...1		$M064DAD	"B'00010000'" DASD I/O was issued
		.... 1...		$M064MIG	"B'00001000'" SPOOL Migration
		.... .1..		$M064RD	"B'00000100'" Read was being requested
		.... ..1.		$M064WRT	"B'00000010'" Write was being requested
		1...		$M068DEV	"B'10000000'" PCE is a device
		.1..		$M068NDV	"B'01000000'" PCE is not a device
		..1.		$M068LDV	"B'00100000'" PCE is a sub-device
		1...		$M120OTH	"B'10000000'" Device is some other type
		.1..		$M120INR	"B'01000000'" Devide is an INTRDR
		1...		$M260CLD	"B'10000000'" Update COLD_START_MODE
		.1..		$M260NCL	"B'01000000'" COLD_START_MODE is OK
		1...		$M281ALL	"B'10000000'" ALL members have I/O errors
		.1..		$M281SOM	"B'01000000'" Some memb have no I/O error
		1...		$M416LNG	"B'10000000'" LONG FORM OF MESSAGE
		.1..		$M416SHR	"B'01000000'" SHORT FORM OF MESSAGE
		1...		$M443ATT	"B'10000000'" ATTACH failure form
		.1..		$M443NUM	"B'01000000'" SPOOLNUM exceeded form
		..1.		$M443LEV	"B'00100000'" DSN not supported at level
		1...		$M458CK1	"B'10000000'" CKPT1 FORM OF MESSAGE
		.1..		$M458CK2	"B'01000000'" CKPT2 FORM OF MESSAGE
		1...		$M478CK1	"B'10000000'" One data set in use
		.1..		$M478CK2	"B'01000000'" Two data sets in use
		1...		$M479IO	"B'10000000'" I/O ERROR
		.1..		$M479SID	"B'01000000'" SID=SYSID
		..1.		$M479INT	"B'00100000'" SID=INITIALIZATION
		...1		$M479VAL	"B'00010000'" Validation error
		1...		$M291CC1	"B'10000000'" CCW 1 address filled in
		.1..		$M291CC2	"B'01000000'" CCW 2 address filled in
		..1.		$M291NCW	"B'00100000'" No CCWs addresses available
		...1		$M291SNS	"B'00010000'" Sense data is available
		1...		$M539GRP	"B'10000000'" Not valid CLASS or GROUP
		.1..		$M539CLS	"B'01000000'" Not valid CLASS
		1...		$M565LNE	"B'10000000'" Line request
		.1..		$M565CON	"B'01000000'" Connect request
		1...		$M568NIT	"B'10000000'" CBADDR is NIT
		.1..		$M568APT	"B'01000000'" CBADDR is APT
		..1.		$M568SCK	"B'00100000'" CBADDR ia SCK
		...1		$M568NSV	"B'00010000'" CBADDR is NETSRV DCT
		.... 1...		$M568LGN	"B'00001000'" CBADDR is LOGON DCT
		.... .1..		$M568LIN	"B'00000100'" CBADDR is Line DCT
		1...		$M867NOR	"B'10000000'" Normal volume
		.1..		$M867GOO	"B'01000000'" Go is a valid option
		..1.		$M867MON	"B'00100000'" Mapped on volume
		...1		$M867MTR	"B'00010000'" Active migration target
		.... 1...		$M867MSR	"B'00001000'" Active migration source

Comment

Other equates for messages in HASPMSG
M445DON EQU 4 Already unactivated (obs)

End of Comment

0	(0)	X'8'	0	$M445OTH	"8" Other MAS members active
0	(0)	X'C'	0	$M445CKP	"12" All CKPTs not allocated
0	(0)	X'10'	0	$M445MIG	"16" SPOOL Migration active
0	(0)	X'14'	0	$M445DSN	"20" Non-default SPOOL DSN
0	(0)	X'18'	0	$M445CL8	"24" 8 character job class

Comment

HASP status bit definitions

End of Comment

		1...		$QSONDA	"X'80'" SHARED QUEUES ARE ON DA

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
		.1..		$ALMSGSW	"X'40'" ALL AVAILABLE FUNCTIONS MSG ISSUED
		..1.		$DRAINED	"X'20'" THIS SYSTEM IS DRAINED, FLAG IS ON INITIALIALLY, OFF AFTER 'NOREQ' WARM START, SET BY $S/$P
		...1		$CKPTW	"X'10'" CHECKPOINT WRITE REQUIRED
		.... 1...		$INDMODE	"X'08'" SYSTEM IS IN INDEPENDENT MODE
		.... .1..		$SYSEXIT	"X'04'" HASP SYSTEM IN TERMINATION PROCESS
		.... ..1.		$NPMDOWN	"X'02'" Network path manager has been disabled due to error
		1		$CKPTRSV	"X'01'" CHECKPOINT IS RESERVED
		Comment			
		--- $TKNLEN and $TKNVERN are the length and version of the security token that is defined for RACROUTE calls with RELEASE=1.9. ---			
		End of Comment			
0	(0)	X'50'	0	$TKNLEN	"80" SAF SECURITY TOKEN LENGTH
		1		$TKNVERN	"X'01'" SAF SECURITY TOKEN VERSION
0	(0)	X'27'	0	$ENTYLEN	"39" LENGTH OF SECURITY ENTITY STRING
		Comment			
		--- Equates for the type of JES2 start, used in the $WARMTYP and X024COND flag bytes. ---			
		End of Comment			
		1...		$WARM	"X'80'" SINGLE-SYSTEM WARMSTART
		.1..		$HOT	"X'40'" HOT START INDICATOR
		..1.		$QUICK	"X'20'" QUICK START INDICATOR
		...1		$CONFIG	"X'10'" CONFIGURATION-WIDE WARMSTART
		.... 1...		$ESYS	"X'08'" '$E SYS' RESTART
		.... .1..		$COLD	"X'04'" COLD START
		.... ..1.		$MVSIPL	"X'02'" MVS WAS IPL'D
		1		$COLDFMT	"X'01'" COLD START WITH FORMAT
0	(0)	X'1F4'	0	$WARMHD	"500" Minimum number of hundreths of seconds for minhold during warmstart
		Comment			
		HASP Subtask System Status Flag			
		End of Comment			
		1...		$SUBERR	"B'10000000'" UNRECOVERABLE SUBTASK ERROR
		.1..		$SUBMULT	"B'01000000'" MULTIPLE SUBTASK FAILURES
0	(0)	X'8000'	0	$LRGSMFB	"32*1024" SIZE OF LARGE SMF BUFFER * D/T4245/4248 SETPRT OPTION * BIT DEFINITION * *
		...1		$PPVERIU	"X'10'" UCS VERIFY BIT SPPVERIU
		Comment			
		$RRTWA bit definitions			
		End of Comment			
		1...		$RRTJOB	"B'10000000'" JOB-LEVEL CHECKING REQ'D
		..1.		$RRTSQD	"B'00100000'" SQD passed for SUBIT call

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
				Comment	
		HASPRTAM definitions			
				End of Comment	
0	(0)	X'120'	0	$MWORKSZ	"288" SIZE OF RTAM WORK AREA ADDRESSED VIA $MWORK -- MUST BE MULTIPLE OF 8 BYTES
				Comment	
		$EXTP option and parameter list definitions			
				End of Comment	
0	(0)	X'0'	0	EXTPLCMD	"0,1" (CCW) COMMAND TO BE PERFORMED
0	(0)	X'1'	0	EXTPLLEN	"1,3" LENGTH OF DATA (IF ANY) PASSED
0	(0)	X'4'	0	EXTPLDAT	"4,4" STARTING ADDRESS OF DATA
0	(0)	X'8'	0	EXTPLSIZ	"8" SIZE OF PARAMETER LIST
0	(0)	X'0'	0	$EXTPOPE	"0" ENTRY LIST INDEX FOR OPEN
0	(0)	X'1'	0	$EXTPGET	"1" ENTRY LIST INDEX FOR GET
0	(0)	X'2'	0	$EXTPPUT	"2" ENTRY LIST INDEX FOR PUT
0	(0)	X'3'	0	$EXTPCLO	"3" ENTRY LIST INDEX FOR CLOSE
0	(0)	X'4'	0	$EXTPNCL	"4" ENTRY LIST INDEX FOR NCLOSE
0	(0)	X'5'	0	$EXTPREA	"5" ENTRY LIST INDEX FOR READ
0	(0)	X'6'	0	$EXTPWRI	"6" ENTRY LIST INDEX FOR WRITE
				Comment	
		CSA storage block prefix equates			
				End of Comment	
0	(0)	X'0'	0	$CSBID	"0,4" CSA STOR BLK EYE CATCHER OFFSET
0	(0)	X'4'	0	$CSBSPLN	"4,4" CSA STG BLK SUBP/LNG OFFSET
0	(0)	X'8'	0	$CSBPRFX	"8" CSA STOR BLOCK PREFIX LENGTH
				Comment	
		CSA storage block prefix length for quad word alignment			
				End of Comment	
0	(0)	X'10'	0	$CS2PRFX	"16" CSA STOR BLOCK PREFIX LEN
				Comment	
		HASP initialization limits			
				End of Comment	
0	(0)	X'A'	0	$MINBUF	"10" Minimum # of HASP buffers
0	(0)	X'7'	0	$MAXNJEQ	"7" Maximum member number for NJE tests
0	(0)	X'7D0'	0	$MAXBUF	"2000" MAXIMUM NUMBER OF HASP BUFFERS
0	(0)	X'4'	0	$MINCMB	"4" Minimum # of CMBs
0	(0)	X'270F'	0	$MAXCMB	"9999" Maximum number of CMBs
0	(0)	X'4'	0	$MINCMDB	"4" Minimum # of command CMBs
0	(0)	X'270F'	0	$MAXCMDB	"9999" Maximum # of command CMBs
0	(0)	X'A'	0	$MINBUFX	"10" Minimum # of CB buffers
0	(0)	X'270F'	0	$MAXBUFX	"9999" Maximum # of CB buffers
0	(0)	X'A'	0	$MINBSC	"10" Minimum # of BSC Buffers
0	(0)	X'270F'	0	$MAXBSC	"9999" Maximum # of BSC buffers
0	(0)	X'A'	0	$MINVTAM	"10" Minimum # of VTAM buffers
0	(0)	X'270F'	0	$MAXVTAM	"9999" Maximum # of VTAM buffers
0	(0)	X'A'	0	$MINNHB	"10" Minimum # of NHB buffers
0	(0)	X'270F'	0	$MAXNHB	"9999" Maximum # of NHB buffers
0	(0)	X'1F4'	0	$MAXPPBF	"500" Max # of PP cell in the $CPOOL primary extent
0	(0)	X'7FFF'	0	$MAXICES	"32767" Max number of sessions

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	X'C8'	0	$CPRIMXT	"200" NUMBER OF BUFFERS IN THE $CPOOL PRIMARY EXTENT
0	(0)	X'190'	0	$CPNHBMX	"400" Max number of NHB cells in the $CPOOL primary extent
0	(0)	X'FD'	0	$MAXDA	"253" MAXIMUM NUMBER OF SPOOL VOLUMES (($MAXDA+31)/32*4) IS USED TO DE- FINE THE NUMBER OF BYTES NEEDED IN DECLARES FOR SPOOL MASKS. EACH 32 VOLS NEEDS ONE WORD, TIMES 4, TO GET THE LENGTH IN BYTES
0	(0)	X'FF'	0	$MAXTGBE	"255" MAX NUMBER OF BLOB ENTRIES
0	(0)	X'1F4'	0	$MAXTINT	"500" MAX TIME (IN 100THS OF A SECOND) TO WAIT TO START A CKPT WRITE
0	(0)	X'F'	0	$MINTINT	"15" Min time (in 100th seconds) below which we will not do an intermediate write
0	(0)	X'20000'	0	$MAXTGV	"(X'0FFFFF'+7)/8" No. of bytes to represent MAXIMUM NO. OF TRK GROUPS per volume (1,048,575)
0	(0)	BITSTRING	0	$MAXLTRV	"X'0FFFFF'" This represents the maximum number of tracks allowed for a spool volume with large data set support enabled - 1,048,575.
0	(0)	X'11111'	0	$MAXLCYL	"($MAXLTRV)/15" Given $MAXLTRV above - this number represents the maximun number of cylinders - this assumes 15 tracks per cylinder.
0	(0)	X'FFFF'	0	$MAXTRV	"65535" This represents the maximum number of tracks allowed for a spool volume with large data set support not enabled. 65,535.
0	(0)	X'1111'	0	$MAXCYL	"($MAXTRV)/15" Given $MAXTRV above - this number represents the maximun number of cylinders - this assumes 15 tracks per cylinder.
0	(0)	X'32'	0	$JMPREDO	"50" Rebuild JIX map after every 50 freed job numbers
0	(0)	X'30D40'	0	$MAXNJQE_Z2	"200000" Maximum number of JQEs for Z2 mode. Also MAX JQXs.
0	(0)	X'61A80'	0	$MAXNJQE	"400000" Maximum number of JQEs for Z11 mode. Also MAX JQXs.
0	(0)	X'F423F'	0	$MAXJNUM	"999999" Maximum number of job nums
0	(0)	X'64'	0	$MINBERT	"100" Minimum number of BERTs
0	(0)	X'F4240'	0	$MAXBERT	"$MAXNJQE*5/2" Maximum number of BERTs for Z11 mode. 1,000,000
0	(0)	X'7A120'	0	$MAXBERT_Z2	"$MAXNJQE_Z2*5/2" Maximum number of BERTs for Z2 mode. 500,000
0	(0)	X'7A120'	0	JOTMXJOE_Z2	"500000" Maximum number of JOEs for Z2 mode
0	(0)	BITSTRING	0	$MAXDSKY	"X'FFFFFFFF'" Max DS key in a job
0	(0)	X'4E20'	0	$MAXESIZ	"20000" Maximum JQE extensions
0	(0)	X'F5E0FF'	0	$MAXJOID	"99999999" MAXIMUM JOE ID NUMBER IN JQE
0	(0)	X'FFFF'	0	$MAXLNES	"65535" MAXIMUM NUMBER OF TP LINES
0	(0)	X'3E7'	0	$MAXLOGS	"999" MAXIMUM VTAM INTERFACES INTERFACES
0	(0)	X'3E7'	0	$MAXSRVS	"999" MAXIMUM NJE SERVERS
0	(0)	X'7FFF'	0	$MAXNODE	"32767" MAXIMUM NUMBER OF NJE NODES
0	(0)	X'8'	0	$MAXPATH	"8" Max nr of paths per node
0	(0)	X'7D0'	0	$MAXRST	"2000" MAXIMUM SPECIFIABLE RESISTANCE
0	(0)	X'63'	0	$MAXCMPT	"99" MAXIMUM NUMBER OF CMPCTION TBLS
0	(0)	X'8'	0	$MAXOFFS	"8" MAXIMUM NUMBER OF OFFLOAD DEV
0	(0)	X'7FFF'	0	$MAXPRTS	"32767" MAX NUMBER OF LOCAL PRTs
0	(0)	X'63'	0	$MAXPUNS	"99" MAXIMUM NUMBER OF LOCAL PUNCHES
0	(0)	X'63'	0	$MAXRDRS	"99" MAXIMUM NUMBER OF LOCAL READERS
0	(0)	X'7FFF'	0	$MAXRJE	"32767" MAX NUMBER OF REMOTES
0	(0)	X'7FFF'	0	$MAXROUT	"32767" MAX ROUTE CODE
0	(0)	X'C8'	0	$MAXNMSG	"200" MAX NUMBER NOTIFY MSG BUFFS
0	(0)	X'1F4'	0	$MAXSJFR	"500" MAX NUM SJF SERVICE REQSTS
0	(0)	X'12'	0	$MAXRCLN	"18" Max symbolic routecde len
0	(0)	X'7F'	0	$MAXIPLN	"127" Max IP-format dest length
0	(0)	X'7FFF'	0	$MAXCPPG	"32767" MAXIMUM VALUE FOR CKPTPAGE
0	(0)	X'7FFF'	0	$MAXCPLN	"32767" MAXIMUM VALUE FOR CKPTLINE
0	(0)	X'7FFF'	0	$MAXCPTM	"32767" MAXIMUM VALUE FOR CKPTSEC
0	(0)	X'E10'	0	$MAXNPRO	"3600" MAXIMUM TIME BEFORE PRT NPRO
0	(0)	X'270F'	0	$MAXINIT	"9999" Maximum number, initiators

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	X'8'	0	$MAXWCLS	"8" Maximum number of class values for work selection
0	(0)	X'8'	0	$MAXFORM	"8" MAXIMUM NUMBER OF PRINTER FORMS FOR WORK SELECTION
0	(0)	X'FF'	0	$MAXPRMD	"255" MAXIMUM NUMBER OF PRMODES DEFINED FOR THIS SYSTEM
0	(0)	X'8'	0	$MAXPRDV	"8" DEFAULT NUMBER OF PROCESS MODES PER DEVICE
0	(0)	X'20'	0	$MAXSYSN	"32" Maximum number of members
0	(0)	X'20'	0	$MAXSYS	"(($MAXSYSN+7)/8)*8" Maximum # of members forced to multiple of 8
0	(0)	X'4'	0	$MXSYSBY	"($MAXSYS)/8" Number of bytes to hold affinity mask
0	(0)	X'4'	0	$MAXSNML	"4" MAX SYSTEM AFFINITY NAME LENGTH
0	(0)	X'80'	0	$MAXSAFL	"$MAXSYS*$MAXSNML" Max affinity list length
0	(0)	X'8'	0	$MAXLCK	"8" NUMBER OF LCK CKPT ELEMENTS
0	(0)	X'32'	0	$MAXVRSN	"50" MAX VERSIONS IN DATA SPACE
0	(0)	X'BB8'	0	$MAXTRC	"3000" Max trace table pages
0	(0)	BITSTRING	0	$MAXTLOG	"X'7FFFFFFF'" MAX TRACE LOG DATASET SIZE
0	(0)	X'1E'	0	$MAXSSZZ	"30" Max rest time for SJFR PCE
0	(0)	X'63'	0	$MXCKPCT	"99" Max allowable warning threshold %age for checkpointed resources
0	(0)	X'98967F'	0	$MAXDISP	"9999999" Max allowable lines in command response
0	(0)	X'14'	0	$MAXJOEP	"20" Max number to JOEs to purge before processing a JQE
0	(0)	X'8'	0	$MAXCLSZ	"8" Maximum number of chars in a job class
				Comment	
				Maximum counts for processes	
				End of Comment	
0	(0)	X'19'	0	$MAXCNVT	"25" Maximun CNVT PCEs
0	(0)	X'19'	0	$MAXPURG	"25" Maximun PURGE PCEs
0	(0)	X'A'	0	$MAXPSO	"10" Maximun PSO PCEs
0	(0)	X'19'	0	$MAXOUT	"25" Maximun OUTPUT PCEs
0	(0)	X'A'	0	$MAXSTAC	"10" Maximun STATUS/CANCEL PCEs
0	(0)	X'A'	0	$MAXSPIN	"10" Maximun SPIN PCEs
				Comment	
				Rolling Trace Equates	
				End of Comment	
0	(0)	X'7D0'	0	$ROTQNUM	"2000" Nr of elements in JQE tbl
0	(0)	X'7D0'	0	$ROTONUM	"2000" Nr of elements in JOE tbl
0	(0)	X'7D0'	0	$ROTDNUM	"2000" Elements in dispatcher tbl
				Comment	
				SRVSETUP routine equates	
				End of Comment	
0	(0)	X'4'	0	$VOLMAX	"4" MAXIMUM NUMBER OF VOLUMES
0	(0)	X'6'	0	$VOLLEN	"6" LENGTH OF VOLUME NAME
0	(0)	X'18'	0	$VOLFLDL	"$VOLMAX*$VOLLEN" VOLUME FIELD LENGTH
0	(0)	X'20'	0	$VOLMSKL	"(($MAXDA+31)/32*4)" VOLUME MASK SIZE
				Comment	
				KCPYMSTR "Direction" Equates	
				End of Comment	
0	(0)	X'0'	0	$KCPMI2M	"0" Copy $MASTERI to $MASTER
0	(0)	X'1'	0	$KCPM2MI	"1" Copy $MASTER to $MASTERI

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
				Comment	
		HASP initialization defaults			
				End of Comment	
0	(0)	X'3E8'	0	$JQEDEF	"1000" DEFAULT NUMBER OF JQE'S
0	(0)	X'64'	0	$CMBDEF	"100" DEFAULT NUMBER OF CMB'S
0	(0)	X'270F'	0	$MAXJDEF	"9999" DEFAULT VALUE FOR MAX JOB#
0	(0)	X'1'	0	$MINJDEF	"1" DEFAULT VALUE FOR MIN JOB#
0	(0)	X'5'	0	$SMFDEF	"5" DEFAULT NUMBER OF SMF BUFFERS
0	(0)	X'12C'	0	$NPRODEF	"300" DEFAULT NPRO TIME
0	(0)	X'64'	0	$CKPGDEF	"100" DEFAULT CKPTPAGE VALUE
0	(0)	X'1'	0	$SSIRCVR	"1" NUMBER OF RECOVERABLE $ERRORS ALLOWED IN AN SSI FUNCTION
0	(0)	X'3E8'	0	$IOTRBGN	"1000" SPIN IOTS CREATED BEFORE REUSE
0	(0)	X'5'	0	$IOTRLMT	"5" MAX ATTEMPTS AT REUSE/ALLOC
0	(0)	X'3E8'	0	$PBUFLIM	"1000" MAX ADDITIONAL PBUFS/ASID
0	(0)	X'64'	0	$SEGLMDF	"100" DEFAULT SEGMENT LIMIT
0	(0)	X'100'	0	$QINDXL	"256" Length of QINDEX table
0	(0)	X'100'	0	$SQINDXL	"63+C'A'" LENGTH OF $#INDEX TABLE
				Comment	
		HASP track group map rounding and max size values: $TGDEF=((4096-HDPLNGTH)/2) 8 $MAXTGS=(10000000/$TGDEF) $TGDEF Be sure to update the routines JCMDHIST and JCMDTAIL and the message structures for HASP9104 and HASP9131, all defined in HASJCMDS, if the number of digits in $MAXTGS increases.			
				End of Comment	
0	(0)	X'3FA0'	0	$TGDEF	"16288" DEFAULT NUMBER OF TRACK GROUPS AND RESULTS IN 2 TRACK GROUP MAPS IN PAGE OF CKPT STORAGE
0	(0)	X'E81200'	0	$MAXTGS	"132649472" Max number of track groups
0	(0)	X'FD0240'	0	$MAXTGS_Z2	"16581184" Max value in z2 mode
				Comment	
		$CTENT version number values			
				End of Comment	
0	(0)	X'1'	0	TGMVRSN	"1" TGM CKPT VERSION NUMBER
0	(0)	X'1'	0	SCQVRSN	"1" SCQ CKPT version number
0	(0)	X'2'	0	JIXVRSN	"2" JIX CKPT version number
0	(0)	X'2'	0	PSTVRSN	"2" PST CKPT VERSION NUMBER
0	(0)	X'1'	0	RSOVRSN	"1" RSO CKPT VERSION NUMBER
				Comment	
		Establish MVS EQUs and globals			
				End of Comment	
		...1 1...		IECITMOD	"X'18'" HASP ATTENTION INDEX

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
				Comment	
		$MAXACCT represents the maximum number of characters allowed on an MVS JOB statement accounting string. In internal format, $MAXACCT+2 bytes are required to hold the string (a one byte counter of the number of subfields, and the one byte length of the first subfield. the length fields for the second and subsequent subfields do not require an extra byte as there was previously a one byte comma separating the subfields).			
				End of Comment	
0	(0)	X'8F'	0	$MAXACCT	"143" Max number of characters allowed for accounting on an MVS JOB statement
				Comment	
		$TRACE record formatting keys			
				End of Comment	
0	(0)	X'0'	0	$TRK000D	"0" UNLABELED DUMP FORMAT
				Comment	
		Checkpoint disposition			
				End of Comment	
		1...		$CKPAMWS	"X'80'" All member warm start in progress
		.1..		$CKPSPVL	"X'40'" Track group map rebuild in progress
		..1.		$CKPLOKB	"X'20'" OPERATOR BYPASSED LOCK
				Comment	
		EQU X'10' RESERVED FOR FUTURE USE			
				End of Comment	
		.... 1...		$CKPDAMG	"X'08'" CHECKPOINT READ WAS DAMAGED
				Comment	
		$CKPERRQ X'04' This bit used in 5.1 (cannot use in 5.2)			
				End of Comment	
		.... ..1.		$CKPBLDQ	"X'02'" JOB QUEUE REBUILT
				Comment	
		$CKPERRJ X'01' This bit used in 5.1 (cannot use in 5.2) Checkpoint recovery dialog flags			
				End of Comment	
		1...		$CKRTOP	"B'10000000'" THIS SYSTEM HAS HIGHEST CKP
		.1..		$CKRNTOP	"B'01000000'" THIS SYSTEM DOES NOT HAVE HIGHEST CHECKPOINT
		..1.		$CKRCKP1	"B'00100000'" CKPT1 FILE IS ACTIVE
		...1		$CKRNKP1	"B'00010000'" CKPT1 FILE IS NOT ACTIVE
		.... 1...		$CKRCKP2	"B'00001000'" CKPT2 FILE IS ACTIVE
		.... .1..		$CKRNKP2	"B'00000100'" CKPT2 FILE IS NOT ACTIVE
		.... ..1.		$CKRIOE	"B'00000010'" PROCESSING I/O ERROR
		1		$CKRNIOE	"B'00000001'" NOT PROCESSING I/O ERROR

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
				Comment	
				THESE NEXT TWO BIT DEFINITIONS MUST NOT BE THE SAME AS $CKRIOE OR $CKRNIOE. (MAPPED OVER $CKRTOP AND $CKRNTOP FOR THE HASP273 MESSAGE)	
				End of Comment	
		1...		$CKRSTRT	"B'10000000'" CHECKPOINT FILE BEING PLACED BACK INTO SERVICE (OPTION 7 OR 8) RESPONSE TO HASP271/272
		.1..		$CKRNSTR	"B'01000000'" CHECKPOINT FILE BEING ASSIGNED TO NEWCKPTN
				Comment	
				THESE NEXT TWO BIT DEFINITIONS MUST BE MAPPED OVER $CKRTOP AND $CKRNTOP FOR THE HASP282 AND HASP278 MESSAGES	
				End of Comment	
		1...		$CKRDEL	"B'10000000'" DELETE OPTION VALID
		.1..		$CKRNDEL	"B'01000000'" DELETE OPTION IS NOT VALID
				Comment	
				Extension area mapping	
				End of Comment	
0	(0)	X'0'	0	$JEXTTGN	"0,2,C'H'" TRACK GROUP NUMBER, MUST BE 1ST
0	(0)	X'2'	0	$JEXTLEN	"L'$JEXTTGN" LENGTH OF EXTENSION AREA
		1...		$JEXTFRE	"X'80'" Extension area is free if high order bit is on
0	(0)	BITSTRING	0	$JEXTMAX	"X'7FFF'" Maximum TG count in JQT or in JQETGNUM
				Comment	
				Equates used to mark the extra control bytes to reflect how the page was last updated. Algorithms in JES2 depend on the first four equates residing in the low nibble of the control byte	
				End of Comment	
		1		CKPCLCKP	"B'00000001'" $CKPT ROUTINE MARKED PAGE
		.... ..1.		CKPCLRDC	"B'00000010'" IN KAFTRD2, CHLOG ON OTHER
		.... .1..		CKPCLRDP	"B'00000100'" IN KAFTRD2, 4K PG ON OTHER
		.... 1...		CKPCLBCL	"B'00001000'" IN KBLDCHLG, IN OUR CHLOG
		 1111		CKPCLMRK	"B'00001111'" MARKED BY HASPCKAP SUBTASK (ALSO USED TO TEST LOW NIBBLE)
		1...		CKPCLCRW	"B'10000000'" PAGE UPDATED FOR CURRENT I/O
		.1..		CKPCLCMW	"B'01000000'" PAGE UPDATED SINCE LAST PRIMARY WRITE IN THIS CYCLE
				Comment	
				Requests types for the CKPT on CF subtask (must be the same as those in $CFCON)	
				End of Comment	
0	(0)	X'1'	0	CFREQ_T1IO	"1" ID for track 1 I/O
0	(0)	X'2'	0	CFREQ_READ2	"2" ID for READ2 request
0	(0)	X'3'	0	CFREQ_WRITE	"3" ID for WRITE request
0	(0)	X'4'	0	CFREQ_LOCK	"4" ID for lock request
0	(0)	X'5'	0	CFREQ_UNLCK	"5" ID for unlock request
0	(0)	X'6'	0	CFREQ_FMT	"6" ID for FORMAT request

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
			Comment		
	JES processing subpools				
			End of Comment		
0	(0)	X'0'	0	$SP0	"0" General purpose subpool
0	(0)	X'4'	0	CKPTPOOL	"4" Subpool for CKC/CKB
0	(0)	X'5'	0	BATPOOL	"5" Subpool for BAT
0	(0)	X'6'	0	BSCPOOL	"6" Subpool for BSC
0	(0)	X'7'	0	CBPOOL	"7" Subpool for Control Blocks
0	(0)	X'8'	0	HASPPOOL	"8" Subpool for HASP Buffers
0	(0)	X'9'	0	NATPOOL	"9" Subpool for NAT
0	(0)	X'A'	0	B32KPOOL	"10" Subpool for 32K buffers
0	(0)	X'B'	0	NMAPPOOL	"11" Subpool for NMAP
0	(0)	X'C'	0	NSAPOOL	"12" Subpool for NSA
0	(0)	X'D'	0	NTQPOOL	"13" Subpool for NTQ
0	(0)	X'E'	0	PAGEPOOL	"14" Subpool for PAGE Buffers
0	(0)	X'F'	0	PPPOOL	"15" Subpool for PP Buffers
0	(0)	X'10'	0	VTAMPOOL	"16" Subpool for VTAM Buffers
0	(0)	X'11'	0	XRQPOOL	"17" Subpool for XCF requests
0	(0)	X'12'	0	SMFPOOL	"18" Subpool for SMF requests
0	(0)	X'13'	0	CFPOOL	"19" Subpool for CF data
0	(0)	X'14'	0	CMBPOOL	"20" Subpool for CMBs
0	(0)	X'15'	0	PLXPOOL	"21" Subpool for PLX dyn areas
0	(0)	X'16'	0	HEDRPOOL	"22" Subpool for NJE hdr/trlr buffers
0	(0)	X'17'	0	TINTPOOL	"23" Subpool for temporary CBs used during initialization
0	(0)	X'18'	0	PERFPOOL	"24" Subpool for performance tracking related storage
0	(0)	X'19'	0	PCEPOOL	"25" Subpool for PCEs
0	(0)	X'1A'	0	ICEPOOL	"26" Subpool for ICEs
0	(0)	X'1B'	0	PSOPOOL	"27" Subpool for PSOs
0	(0)	X'1C'	0	RNTPOOL	"28" Subpool for RNTs
0	(0)	X'1D'	0	CIDPOOL	"29" Subpool for CIDs
0	(0)	X'1E'	0	SQDPOOL	"30" Subpool for SQDs
0	(0)	X'1F'	0	GPQPOOL	"31" Subpool for GPQs
0	(0)	X'20'	0	SCWAPOOL	"32" Subpool for Normal SCWAs
0	(0)	X'21'	0	SCWDPOOL	"33" Subpool for Display SCWAs
0	(0)	X'22'	0	WAVEPOOL	"34" Subpool for WAVE/Entity
0	(0)	X'84'	0	$SP132	"132" Non-fetch protected private
0	(0)	X'E5'	0	$STSUBP	"229" SUBPOOL FOR SECURITY TOKENS FETCH PROTECTED, USER KEY
0	(0)	X'E7'	0	$SPCSAF	"231" CSA, fetch protected, user key
0	(0)	X'E9'	0	$SP233	"233" Fixed non-fetch protected private
0	(0)	X'F1'	0	$ENFPPOL	"241" Subpool for ENF parm lists; ENF parm lists must be in CSA
			Comment		
	Event trace formatting EQUs				
			End of Comment		
		.... 1..1		TRCCWSP1	"X'09'" WRITE-THEN-SPACE-1 CC
		...1 ...1		TRCCWSP2	"X'11'" WRITE-THEN-SPACE-2 CC
		...1 1..1		TRCCWSP3	"X'19'" WRITE-THEN-SPACE-3 CC
0	(0)	X'79'	0	TRCLRECL	"121" MAX LOGICAL RECORD LENGTH
			Comment		
	Printer log area lengths				
			End of Comment		
0	(0)	X'23A'	0	DYNL3211	"570" SIZE OF 3211 LOG AREA
0	(0)	X'10E'	0	DYNL3800	"270" SIZE OF 3800 MDR AREA
0	(0)	X'250'	0	DYNL3203	"592" SIZE OF 3203 LOG AREA

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	X'250'	0	DYNL4245	"592" SIZE OF 4245 LOG AREA
0	(0)	X'100'	0	DYNL4248	"256" SIZE OF 4248 LOG AREA
		Comment			

		OUTPUT GROUP DISPOSITION COMMON EQUATES			

		End of Comment			
		...1		$ODPURGE	"B'00010000'" OUTDISP=PURGE
		.... 1...		$ODWRITE	"B'00001000'" OUTDISP=WRITE
		.... .1..		$ODHOLD	"B'00000100'" OUTDISP=HOLD
		.... ..1.		$ODKEEP	"B'00000010'" OUTDISP=KEEP
		1		$ODLEAVE	"B'00000001'" OUTDISP=LEAVE
0	(0)	X'F'	0	$ODANY	"$ODWRITE+$ODHOLD+$ODKEEP+$ODLEAVE" TEST FOR OUTDISP W/O PURGE
0	(0)	X'1F'	0	$ODANYWP	"$ODWRITE+$ODHOLD+$ODKEEP+$ODLEAVE+$ODPURGE" TEST FOR OUTDISP WITH PURGE
		Comment			
		Mapping of catastrophic error user entry			
		End of Comment			
0	(0)	X'0'	0	$ERRCDE	"0,4" POSITION/LENGTH OF CATA ERR CODE IN TABLE
0	(0)	X'4'	0	$ERRTEXT	"4,42" POSITION/LENGTH OF CATA ERR TEXT IN TABLE
0	(0)	X'2E'	0	$ERRENTY	"L'$ERRCDE+L'$ERRTEXT" LENGTH OF AN ENTRY IN TABLE
		Comment			
		HASP $SCAN caller id flags Users should use ids from 255 down, if needed			
		End of Comment			
0	(0)	X'1'	0	$SCOPTS	"1" IROPTS HASP OPTIONS
0	(0)	X'2'	0	$SCIRPL	"2" IRPL NONE-CONSOLE STMTS
0	(0)	X'3'	0	$SCIRPLC	"3" IRPL CONSOLE STMTS
0	(0)	X'4'	0	$SCDCMDS	"4" DISPLAY COMMANDS
0	(0)	X'5'	0	$SCSCMDS	"5" SET COMMANDS
0	(0)	X'6'	0	$SCDOCMD	"6" SHORT DISPLAY FORM
0	(0)	X'7'	0	$SCSTCMD	"7" START COMMANDS
0	(0)	X'8'	0	$SCPCMDS	"8" STOP COMMANDS
0	(0)	X'9'	0	$SCDDIAL	"9" DIALOG DISPLAY FORM
0	(0)	X'A'	0	$SCSDIAL	"10" DIALOG SET FORM
0	(0)	X'B'	0	$SCECMDS	"11" RESET COMMANDS (list)
0	(0)	X'C'	0	$SCACMDS	"12" ADD COMMANDS
0	(0)	X'D'	0	$SCRCMDS	"13" DELETE COMMANDS
0	(0)	X'E'	0	$SCIDIAL	"14" DIALOG (INITIALIZATION)
0	(0)	X'F'	0	$SCLTCMD	"15" Output long display
0	(0)	X'10'	0	$SCECMDA	"16" RESET COMMANDS (single)
0	(0)	X'11'	0	$SCZCMDS	"17" HALT commands
0	(0)	X'12'	0	$SCHCMDS	"18" HOLD commands
0	(0)	X'13'	0	$SCRLCMD	"19" RELEASE commands
0	(0)	X'14'	0	$SCCCMDS	"20" CANCEL commands
0	(0)	X'15'	0	$SCTOCMD	"21" $TO commands
0	(0)	X'16'	0	$SCCOCMD	"22" $CO commands
0	(0)	X'17'	0	$SCPOCMD	"23" $PO commands
0	(0)	X'18'	0	$SCOCMDS	"24" $O command
0	(0)	X'19'	0	$SCLOCMD	"25" Output short display
0	(0)	X'1A'	0	$SCLCMDS	"26" $L command
0	(0)	X'1B'	0	$SCACTCM	"27" $ACTIVATE command
0	(0)	X'1C'	0	$SCZAPCM	"28" $ZAP command

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	X'1D'	0	$SCMGCMD	"29" $MIGRATE command
				Comment	
				HASP $SCAN PRE/POST scan call types Passed into PRE/POST scans in R2	
				End of Comment	
0	(0)	X'0'	0	$SCNPRE	"0" PRE-SCAN routine call
0	(0)	X'4'	0	$SCNPOST	"4" Post SCAN routine call
0	(0)	X'8'	0	$SCNCLN	"8" Cleanup routine call
				Comment	
				HASP $SCAN warning mask equates	
				End of Comment	
		1...		$SCWOBS	"B'10000000'" WARN FOR OBSOLETE PARAMETERS
		.1..		$SCWHOTS	"B'01000000'" WARN FOR HOT START
		..11 11..		$SCWIBM	"B'00111100'" RESERVED FOR FUTURE USE
		11		$SCWINST	"B'00000011'" RESERVED FOR INSTALLATION
				Comment	
				HASP command PCE id/seq equates	
				End of Comment	
0	(0)	X'0'	0	$CMDNORM	"0" Normal command processor
0	(0)	X'1'	0	$CMDDYNA	"1" Dynamic LOADMOD/exit PCE
0	(0)	X'2'	0	$CMDNUM	"2" Number of command PCEs
				Comment	
				HASP $SCAN diagnostic level table equate values	
				End of Comment	
0	(0)	X'0'	0	SDLTBADD	"0,4,C'A'" ADDR OF THE KEYWORD BACKUP AREA
0	(0)	X'4'	0	SDLTLEN	"4" LEN OF DIAG LVL TABLE ENTRY
0	(0)	X'A'	0	SDLTNUM	"10" Number of SDLT entries (one is reserved to end the table and will never point to a backup area
				Comment	
				Equates for $GETABLE/$RETABLE/$PUTABLE to process table type tables in HTABTAB	
				End of Comment	
0	(0)	X'0'	0	HTABTEL	"0,2" TABLE ENTRY LENGTH
0	(0)	X'2'	0	HTABTMCT	"2,2" OFFSET OF MCT ADDR PAIR
0	(0)	X'4'	0	HTABTUFB	"4,2" OFFSET OF ENTRY FLAG BYTE IN WHICH X'80' INDICATES USER ENTRY
0	(0)	X'6'	0	HTABTIDF	"6,2" OFFSET OF ENTRY ID FIELD
0	(0)	X'8'	0	HTABTIDL	"8,1" ENTRY ID LENGTH INDICATION (ID LENGTH in bytes)
0	(0)	X'9'	0	HTABFLGB	"9,1" Flag byte
		1...		HTABFTRQ	"B'10000000'" Table pair offset must be passed in
		.1..		HTABFOFF	"B'01000000'" HTABTEL contains offset of halfword field containing length of the entry (aka offset to next entry)
		..1.		HTABFADD	"B'00100000'" HTABTEL contains offset of field containing address of next entry in the table
		...1		HTABF0TB	"B'00010000'" Load next pointer from 1st table entry in table
		.... 1...		HTABFNCK	"B'00001000'" Don't check for zeroes in last table=end entry
0	(0)	X'A'	0	HTABTABL	"10" LENGTH OF HTABTAB ENTRY

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
				Comment	
		HASP $SCAN equates for indexing into the dynamic diagnostic error messages			
				End of Comment	
0	(0)	X'0'	0	DIAGADDR	"0,4" ADDRESS OF THE DIAGNOSTIC TEMPLATE
0	(0)	X'4'	0	DIAGKLOC	"4,1" LEN INTO THE PHRASE WHERE OPERAND IS TO BE PLACED
0	(0)	X'5'	0	DIAGKLEN	"5,1" MAX LEN OF OPERAND TO BE PLACED
				Comment	
		Equates for dynamic tables			
				End of Comment	
0	(0)	X'0'	0	PAIRUSER	"0,4" User table
0	(0)	X'4'	0	PAIRHASP	"4,4" HASP table
0	(0)	X'8'	0	PAIRDYN	"8,4" Dynamic table (pointer to cell)
0	(0)	X'C'	0	PAIRLEN	"12" Table pair length
				Comment	
		Dynamic cell mapping			
				End of Comment	
0	(0)	X'0'	0	DYNTEYE	"0,4,C'C'" Eyecatcher
0	(0)	X'4'	0	DYNTNEXT	"4,4" Pointer to next cell
0	(0)	X'8'	0	DYNTTAB	"8,4" Pointer to table
0	(0)	X'C'	0	DYNTLMT	"12,4" Pointer to containing LMT
0	(0)	X'10'	0	DYNTTYPE	"16,1" Table type (see MTETBTYP)
0	(0)	X'18'	0	DYNTLEN	"24" Length of dynamic table cell
				Comment	
		HASP $SCAN equates for index into the diagnostic msg table base on the reason codes			
				End of Comment	
0	(0)	X'4'	0	SCNDR01	"4,4" PTR TO DIAGINV MESSAGE ADDR
0	(0)	X'8'	0	SCNDR03	"SCNDR01+4,4" PTR TO DIAGNSP MESSAGE ADDR
0	(0)	X'C'	0	SCNDR04	"SCNDR03+4,4" PTR TO DIAGSSER MESSAGE ADDR
0	(0)	X'10'	0	SCNDR05	"SCNDR04+4,4" PTR TO DIAGVERR MESSAGE ADDR
0	(0)	X'14'	0	SCNDR06	"SCNDR05+4,4" PTR TO DIAGIVAL MESSAGE ADDR
0	(0)	X'18'	0	SCNDR07	"SCNDR06+4,4" PTR TO DIAGRTYP MESSAGE ADDR
0	(0)	X'1C'	0	SCNDR08	"SCNDR07+4,4" PTR TO DIAGBRAN MSG ADDR
0	(0)	X'20'	0	SCNDR09	"SCNDR08+4,4" PTR TO DIAGSRNG MESSAGE ADDR
0	(0)	X'24'	0	SCNDR10	"SCNDR09+4,4" PTR TO DIAGLRNG MESSAGE ADDR
0	(0)	X'28'	0	SCNDR11	"SCNDR10+4,4" PTR TO DIAGDCOR MESSAGE ADDR
0	(0)	X'2C'	0	SCNDR12	"SCNDR11+4,4" PTR TO DIAGROM MESSAGE ADDR
0	(0)	X'30'	0	SCNDR13	"SCNDR12+4,4" PTR TO DIAGVND MESSAGE ADDR
0	(0)	X'34'	0	SCNDR14	"SCNDR13+4,4" PTR TO DIAGMLDX MESSAGE ADDR
0	(0)	X'38'	0	SCNDR17	"SCNDR14+4,4" PTR TO DIAGIRTE MESSAGE ADDR
0	(0)	X'3C'	0	SCNDR18	"SCNDR17+4,4" PTR TO DIAGIRC MESSAGE ADDR
0	(0)	X'40'	0	SCNDR19	"SCNDR18+4,4" PTR TO DIAGIACT MESSAGE ADDR
0	(0)	X'44'	0	SCNDR21	"SCNDR19+4,4" PTR TO DIAGIRDV MESSAGE ADDR
0	(0)	X'48'	0	SCNDR22	"SCNDR21+4,4" PTR TO DIAGNULI MESSAGE ADDR
0	(0)	X'4C'	0	SCNDR23	"SCNDR22+4,4" PTR TO DIAGCMT MESSAGE ADDR
0	(0)	X'50'	0	SCNDR24	"SCNDR23+4,4" PTR TO DIAGGMER MESSAGE ADDR
0	(0)	X'54'	0	SCNDR25	"SCNDR24+4,4" PTR TO DIAGDERR MESSAGE ADDR
0	(0)	X'58'	0	SCNDR26	"SCNDR25+4,4" PTR TO DIAGABND MESSAGE ADDR
0	(0)	X'5C'	0	SCNDR27	"SCNDR26+4,4" PTR TO DIAGINTR MESSAGE ADDR
0	(0)	X'60'	0	SCNDR28	"SCNDR27+4,4" PTR TO DIAGCBRD MESSAGE ADDR

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
				Comment	
IDS 31 - 38, 42, 47 - 51 AND 60 - 61 RESERVED FOR $MODCHK					
				End of Comment	
0	(0)	X'64'	0	SCNDR39	"SCNDR28+4,4" PTR TO DIAGINCM MESSAGE ADDR
0	(0)	X'68'	0	SCNDR40	"SCNDR39+4,4" PTR TO DIAGMWTO MESSAGE ADDR
0	(0)	X'6C'	0	SCNDR41	"SCNDR40+4,4" PTR TO DIAGSPIN MESSAGE ADDR
				Comment	
THIS SPACE IS RESERVED FOR REASON CODE 42 FOR $MODCHK					
				End of Comment	
0	(0)	X'70'	0	SCNDR43	"SCNDR41+4,4" PTR TO DIAGMTTB MESSAGE ADDR
0	(0)	X'74'	0	SCNDR44	"SCNDR43+4,4" PTR TO DIAGOBS MESSAGE ADDR
0	(0)	X'78'	0	SCNDR45	"SCNDR44+4,4" PTR TO DIAGHOT MESSAGE ADDR
0	(0)	X'7C'	0	SCNDR46	"SCNDR45+4,4" PTR TO DIAGWARN MESSAGE ADDR
0	(0)	X'80'	0	SCNDR52	"SCNDR46+4,4" PTR TO DIAGNFL MESSAGE ADDR
0	(0)	X'84'	0	SCNDR54	"SCNDR52+4,4" PTR TO DIAGINOD MESSAGE ADDR
0	(0)	X'88'	0	SCNDR55	"SCNDR54+4,4" PTR TO DIAGACTE MESSAGE ADDR
0	(0)	X'8C'	0	SCNDR56	"SCNDR55+4,4" PTR TO DIAGNFLC MESSAGE ADDR
0	(0)	X'90'	0	SCNDR57	"SCNDR56+4,4" PTR TO DIAGTMO MESSAGE ADDR
0	(0)	X'94'	0	SCNDR58	"SCNDR57+4,4" PTR TO DIAGGENE MESSAGE ADDR
0	(0)	X'98'	0	SCNDR59	"SCNDR58+4,4" PTR TO DIAGIAER MESSAGE ADDR
				Comment	
THIS SPACE IS RESERVED FOR REASON CODE 60 FOR $MODCHK THIS SPACE IS RESERVED FOR REASON CODE 61 FOR $MODCHK					
				End of Comment	
0	(0)	X'9C'	0	SCNDR62	"SCNDR59+4,4" PTR TO DIAGCONV MSG ADDR
0	(0)	X'A0'	0	SCNDR63	"SCNDR62+4,4" PTR TO DIAGFCST MSG ADDR
0	(0)	X'A4'	0	SCNDR64	"SCNDR63+4,4" PTR TO DIAGNOPM MSG ADDR
0	(0)	X'A8'	0	SCNDR65	"SCNDR64+4,4" PTR TO DIAGUNSD MSG ADDR
0	(0)	X'AC'	0	SCNDR66	"SCNDR65+4,4" PTR TO DIAGNXST MSG ADDR
0	(0)	X'B0'	0	SCNDR67	"SCNDR66+4,4" PTR TO DIAGFUDF MSG ADDR
0	(0)	X'B4'	0	SCNDR68	"SCNDR67+4,4" PTR TO DIAGSSEL MSG ADDR
0	(0)	X'B8'	0	SCNDR69	"SCNDR68+4,4" PTR TO DIAGDUAL MSG ADDR
0	(0)	X'BC'	0	SCNDR70	"SCNDR69+4,4" PTR TO DIAGVVAL MSG ADDR
0	(0)	X'C0'	0	SCNDR71	"SCNDR70+4,4" PTR TO DIAGLNSH MSG ADDR
0	(0)	X'C4'	0	SCNDR72	"SCNDR71+4,4" PTR TO DIAGRJER MSG ADDR
0	(0)	X'C8'	0	SCNDR73	"SCNDR72+4,4" PTR TO DIAGLVL MSG ADDR
0	(0)	X'CC'	0	SCNDR74	"SCNDR73+4,4" Ptr to DIAGCKPT msg addr
0	(0)	X'D0'	0	SCNDR75	"SCNDR74+4,4" Ptr to DIAGDPLX msg addr
0	(0)	X'D4'	0	SCNDR76	"SCNDR75+4,4" PTR TO DIAGFLST MSG ADDR
0	(0)	X'D8'	0	SCNDR77	"SCNDR76+4,4" PTR TO DIAGFLRQ MSG ADDR
0	(0)	X'DC'	0	SCNDR78	"SCNDR77+4,4" PTR TO DIAGMULJ MSG ADDR
0	(0)	X'E0'	0	SCNDR79	"SCNDR78+4,4" PTR TO DIAGPSCN MSG ADDR
0	(0)	X'E4'	0	SCNDR80	"SCNDR79+4,4" PTR TO DIAGPSC2 MSG ADDR
0	(0)	X'E8'	0	SCNDR81	"SCNDR80+4,4" PTR TO DIAGCAUT MSG ADDR
0	(0)	X'EC'	0	SCNDR82	"SCNDR81+4,4" PTR TO DIAGFIKY MSG ADDR
0	(0)	X'F0'	0	SCNDR83	"SCNDR82+4,4" PTR TO DIAGFIDL MSG ADDR
0	(0)	X'F4'	0	SCNDR84	"SCNDR83+4,4" PTR TO DIAGBUSY MSG ADDR
0	(0)	X'F8'	0	SCNDR85	"SCNDR84+4,4" PTR TO DIAGPROT MSG ADDR
0	(0)	X'FC'	0	SCNDR86	"SCNDR85+4,4" PTR TO DIAGNOSP MSG ADDR
0	(0)	X'100'	0	SCNDR87	"SCNDR86+4,4" PTR TO DIAGGTLT MSG ADDR
0	(0)	X'104'	0	SCNDR88	"SCNDR87+4,4" PTR TO DIAGRCRG MSG ADDR
0	(0)	X'108'	0	SCNDR89	"SCNDR88+4,4" PTR TO DIAGNOCN MSG ADDR
0	(0)	X'10C'	0	SCNDR90	"SCNDR89+4,4" PTR TO DIAGSCH MSG ADDR
0	(0)	X'110'	0	SCNDR91	"SCNDR90+4,4" PTR TO DIAGSERV MSG ADDR
0	(0)	X'114'	0	SCNDR92	"SCNDR91+4,4" PTR TO DIAGDMND MSG ADDR

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	X'118'	0	SCNDR93	"SCNDR92+4,4" PTR TO DIAGNXEQ MSG ADDR
0	(0)	X'11C'	0	SCNDR94	"SCNDR93+4,4" Ptr to DIAGQERR msg addr
0	(0)	X'120'	0	SCNDR95	"SCNDR94+4,4" Ptr to DIAGNBRT msg addr
0	(0)	X'124'	0	SCNDR96	"SCNDR95+4,4" Ptr to DIAGNTSN msg addr
0	(0)	X'128'	0	SCNDR97	"SCNDR96+4,4" Ptr to DIAGLPRM msg addr
0	(0)	X'12C'	0	SCNDR98	"SCNDR97+4,4" Ptr to DIAGINCL msg addr
0	(0)	X'130'	0	SCNDR99	"SCNDR98+4,4" Ptr to DIAGPSTX msg addr
0	(0)	X'134'	0	SCNDR100	"SCNDR99+4,4" Ptr to DIAGDPRL msg addr
0	(0)	X'138'	0	SCNDR101	"SCNDR100+4,4" Ptr to DIAGSSIN msg addr
0	(0)	X'13C'	0	SCNDR102	"SCNDR101+4,4" Ptr to DIAGFXCL msg addr
0	(0)	X'140'	0	SCNDR103	"SCNDR102+4,4" Ptr to DIAGPS11 msg addr
0	(0)	X'144'	0	SCNDR104	"SCNDR103+4,4" Ptr to DIAGISCK msg addr
0	(0)	X'148'	0	SCNDR105	"SCNDR104+4,4" Ptr to DIAGDEDR msg addr
0	(0)	X'14C'	0	SCNDR106	"SCNDR105+4,4" Ptr to DIAGSRTY msg addr
0	(0)	X'150'	0	SCNDR107	"SCNDR106+4,4" Ptr to DIAGWLMY msg addr
0	(0)	X'154'	0	SCNDR108	"SCNDR107+4,4" Ptr to DIAGOQFL msg addr
0	(0)	X'158'	0	SCNDR109	"SCNDR108+4,4" Ptr to DIAGNFLS msg addr
0	(0)	X'15C'	0	SCNDR110	"SCNDR109+4,4" Ptr to DIAGNSLF msg addr
0	(0)	X'160'	0	SCNDR111	"SCNDR110+4,4" Ptr to DIAGNXIT msg addr
0	(0)	X'164'	0	SCNDR112	"SCNDR111+4,4" Ptr to DIAGNXCR msg addr
0	(0)	X'168'	0	SCNDR113	"SCNDR112+4,4" Ptr to DIAGINSP msg addr
0	(0)	X'16C'	0	SCNDR114	"SCNDR113+4,4" Ptr to DIAGINTC msg addr
0	(0)	X'170'	0	SCNDR115	"SCNDR114+4,4" Ptr to DIAGCYTR msg addr
0	(0)	X'174'	0	SCNDR116	"SCNDR115+4,4" Ptr to DIAGCKLN msg addr
0	(0)	X'178'	0	SCNDR117	"SCNDR116+4,4" Ptr to DIAGBRNM msg addr
0	(0)	X'17C'	0	SCNDR118	"SCNDR117+4,4" Ptr to DIAGLGAC msg addr
0	(0)	X'180'	0	SCNDR119	"SCNDR118+4,4" Ptr to DIAGLGCY msg addr
0	(0)	X'184'	0	SCNDR120	"SCNDR119+4,4" Ptr to DIAGLGTR msg addr
0	(0)	X'188'	0	SCNDR121	"SCNDR120+4,4" Ptr to DIAGSMCY msg addr
0	(0)	X'18C'	0	SCNDR122	"SCNDR121+4,4" Ptr to DIAGSMTR msg addr
0	(0)	X'190'	0	SCNDR123	"SCNDR122+4,4" Ptr to DIAGBRTR msg addr
0	(0)	X'194'	0	SCNDR124	"SCNDR123+4,4" Ptr to DIAGNOFR msg addr
0	(0)	X'198'	0	SCNDR125	"SCNDR124+4,4" Ptr to DIAGCYLG msg addr
0	(0)	X'19C'	0	SCNDR126	"SCNDR125+4,4" Ptr to DIAGCYPA msg addr
0	(0)	X'1A0'	0	SCNDR127	"SCNDR126+4,4" Ptr to DIAGSPLR msg addr
0	(0)	X'1A4'	0	SCNDR128	"SCNDR127+4,4" Ptr to DIAGMMOA msg addr
0	(0)	X'1A8'	0	SCNDR130	"SCNDR128+4,4" Ptr to DIAGMMIA msg addr
0	(0)	X'1AC'	0	SCNDR131	"SCNDR130+4,4" Ptr to DIAGM22A msg addr
0	(0)	X'1B0'	0	SCNDR132	"SCNDR131+4,4" Ptr to DIAGDMIA msg addr
0	(0)	X'1B4'	0	SCNDR133	"SCNDR132+4,4" Ptr to DIAGDMIA msg addr
0	(0)	X'1B8'	0	SCNDR134	"SCNDR133+4,4" Ptr to DIAGMGEA msg addr
0	(0)	X'1BC'	0	SCNDR135	"SCNDR134+4,4" Ptr to DIAGNOCA msg addr
0	(0)	X'1C0'	0	SCNDR136	"SCNDR135+4,4" Ptr to DIAGNOCC msg addr
0	(0)	X'1C4'	0	SCNDR137	"SCNDR136+4,4" Ptr to DIAGSTUC msg addr
0	(0)	X'1C8'	0	SCNDR138	"SCNDR137+4,4" Ptr to DIAGVOLA msg addr
0	(0)	X'1CC'	0	SCNDR139	"SCNDR138+4,4" Ptr to DIAGRECC msg addr
0	(0)	X'1D0'	0	SCNDR140	"SCNDR139+4,4" Ptr to DIAGINAC msg addr
0	(0)	X'1D4'	0	SCNDR141	"SCNDR140+4,4" Ptr to DIAGABSC msg addr
0	(0)	X'1D8'	0	SCNDR142	"SCNDR141+4,4" Ptr to DIAGREST msg addr
0	(0)	X'1DC'	0	SCNDR143	"SCNDR142+4,4" Ptr to DIAGXTNC msg addr
0	(0)	X'1E0'	0	SCNDR144	"SCNDR143+4,4" Ptr to DIAGACMC msg addr
0	(0)	X'1E4'	0	SCNDR145	"SCNDR144+4,4" Ptr to DIAGCMDC msg addr
0	(0)	X'1E8'	0	SCNDR146	"SCNDR145+4,4" Ptr to DIAGABAC msg addr
0	(0)	X'1EC'	0	SCNDR147	"SCNDR146+4,4" Ptr to DIAGSPAC msg addr
0	(0)	X'1F0'	0	SCNDR148	"SCNDR147+4,4" Ptr to DIAGJAUT msg addr
0	(0)	X'1F4'	0	SCNDR149	"SCNDR148+4,4" Ptr to DIAGPREC msg addr
0	(0)	X'1F8'	0	SCNDR150	"SCNDR149+4,4" Ptr to DIAGNDEF msg addr
0	(0)	X'1FC'	0	SCNDR151	"SCNDR150+4,4" Ptr to DIAGNVJC msg addr
0	(0)	X'200'	0	SCNDR152	"SCNDR151+4,4" Ptr to DIAGACTI msg addr
0	(0)	X'204'	0	SCNDR153	"SCNDR152+4,4" Ptr to DIAGALR msg addr
0	(0)	X'208'	0	SCNDR154	"SCNDR153+4,4" Ptr to DIAGINT msg addr
0	(0)	X'20C'	0	SCNDR155	"SCNDR154+4,4" Ptr to DIAGTMF msg addr
0	(0)	X'210'	0	SCNDR156	"SCNDR155+4,4" Ptr to DIAGTMV msg addr
0	(0)	X'214'	0	SCNDR157	"SCNDR156+4,4" Ptr to DIAGNVD msg addr

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	X'218'	0	SCNDR158	"SCNDR157+4,4" Ptr to DIAGNFP msg addr
0	(0)	X'21C'	0	SCNDR159	"SCNDR158+4,4" Ptr to DIAGUNF msg addr
0	(0)	X'220'	0	SCNDR160	"SCNDR159+4,4" Ptr to DIAGFDM msg addr
0	(0)	X'224'	0	SCNDR161	"SCNDR160+4,4" Ptr to DIAGVTL msg addr
0	(0)	X'228'	0	SCNDR162	"SCNDR161+4,4" Ptr to DIAGKTL msg addr
0	(0)	X'22C'	0	SCNDR163	"SCNDR162+4,4" Ptr to DIAGVDT msg addr
0	(0)	X'230'	0	SCNDR164	"SCNDR163+4,4" Ptr to DIAGBTE msg addr
0	(0)	X'234'	0	SCNDR165	"SCNDR164+4,4" Ptr to DIAGJSH msg addr
0	(0)	X'238'	0	SCNDR166	"SCNDR165+4,4" Ptr to DIAGJXP msg addr
0	(0)	X'23C'	0	SCNDR167	"SCNDR166+4,4" Ptr to DIAGCLA msg addr

Comment

Parameter list for call to $HNOTIFY and OPMAILMG
Output from $HNOTIFY and input to OPMAILMG

End of Comment

0	(0)	X'0'	0	$NTPARML	"0,32" Length of entire parm list
0	(0)	X'0'	0	$NTNNODE	"0,8" Notify Node from JCT
0	(0)	X'8'	0	$NTNOTUS	"8,8" Notify Userid from JCT
0	(0)	X'10'	0	$NTNONDE	"16,8" Xmitting Node from JCT
0	(0)	X'18'	0	$NTNOUSR	"24,8" Xmitting userid from JCT
0	(0)	X'9'	0	$446MVER	"9,1" Checkpoint master version
0	(0)	X'A'	0	$446CVER	"10,8" Checkpoint cold start vsn.

Comment

JOE/Writer Exclude List mapping.
Be sure to update HASMJWEL if this mapping changes.

End of Comment

0	(0)	X'0'	0	$JWEPTR	"0,4,C'A'" ADDRESS OF NEXT ELEMENT
0	(0)	X'4'	0	$JWENUM	"4,8,C'F'" NUMBER OF WRITER EXCLUDED
0	(0)	X'C'	0	$JWEDVID	"12,3,C'C'" DEVICE ID VALUE
0	(0)	X'F'	0	$JWEFLAG	"15,1,C'B'" Flag byte
		1...		$JWELONG	"B'10000000'" $JWENUM 8 bytes (only first 4 bytes valid if $JWELONG is off)
		.1..		$JWEBULK	"B'01000000'" JOE has been processed by current SAPI bulk modify request
0	(0)	X'10'	0	$JWELEN	"16" LEN OF JWEL TABLE ELEMENT

Comment

JWELTBL Anchor Equates
Offset 0 ($JWEPTR) is the address of the first JWEL
for the corresponding JOE
Offset 4 ($JWECRTM) is the time stamp of the JOE
creation. If this time stamp and the
JOECRTME do not match, then it is known
that the JWEL chain is obsolete.

EQU 0,4,C'A' ADDRESS OF THE FIRST ELEMENT

End of Comment

0	(0)	X'0'	0	$JWEFLG1	"0,1,C'B'" Flag bit in JWELTBL
0	(0)	X'4'	0	$JWECRTM	"4,4,C'X'" JOE creation time
0	(0)	X'8'	0	$JWETBLL	"8" Length of JWEL table anchor $JWEFLG1 EQUATES
		1...		$JW1NCLR	"B'10000000'" DO NOT CLEAR JWEL ELEMENTS

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
				Comment	
		EQU B'01111111' Do not attempt to use other			
				End of Comment	
				Comment	

		Constants used to process the performace data table in HASPTABS (used for the $D PERFDATA command)			

				End of Comment	
0	(0)	X'0'	0	PRFDNAME	"0,8,C'C'" Subscript type name
0	(0)	X'8'	0	PRFDIND	"8,1,C'X'" Indicator for subscript
0	(0)	X'1'	0	PRFDINTS	"1" INITSTAT subscript
0	(0)	X'2'	0	PRFDQSUS	"2" QSUSE subscript
0	(0)	X'3'	0	PRFDPCES	"3" PCESTAT subscript
0	(0)	X'4'	0	PRFDSAMP	"4" SAMPDATA subscript
0	(0)	X'5'	0	PRFDCPUS	"5" CPUSTAT subscript
0	(0)	X'6'	0	PRFDEVNT	"6" EVENTS subscript
0	(0)	X'7'	0	PRFDCKPT	"7" CKPTSTAT subscript
0	(0)	X'8'	0	PRFDSUBT	"8" SUBTSTAT subscript
0	(0)	X'9'	0	PRFDDEVG	"9" DEVGSTAT subscript
0	(0)	X'A'	0	PRFDMIGR	"10" MIGRSTAT subscript
0	(0)	X'B'	0	PRFDWS	"11" WSSTAT subscript
0	(0)	X'C'	0	PRFDLEN	"12" Length of table entry
				Comment	

		The following fields define the data area returned from XCFMSTAT. This data area is always 4096 in size. The first 2 words are the count of active 'NOT OUR MAS' members and the second is the number of active 'IN OUR MAS' members. For the 'NOT OUR MAS' members, an array of member names and reason they are not thought to be our MAS is provided.			

				End of Comment	
0	(0)	X'1000'	0	XCFMSIZE	"4096" Size of the data area
0	(0)	X'0'	0	XCFMTHEM	"0,4,C'F'" Number of active members in our group and not in our MAS
0	(0)	X'4'	0	XCFMUS	"4,4,C'F'" Number of active members in our group and our MAS
0	(0)	X'8'	0	XCFMLIST	"8,19,C'X'" First 'NOT US' member data
0	(0)	X'0'	0	XCFMMEMN	"0,16,C'C'" XCF member name
0	(0)	X'10'	0	XCFMMEMR	"16,1,C'X'" Reason 'NOT US'
0	(0)	X'11'	0	XCFMMEMF	"17,1,C'X'" Copy of XMAUSFLG
0	(0)	X'12'	0	XCFMMEMC	"18,1,C'X'" Copy of XMAUCRF1
0	(0)	X'4'	0	XCFMRSJ2	"4" Not JES2
0	(0)	X'8'	0	XCFMRSNM	"8" Incorrect member name
0	(0)	X'C'	0	XCFMRSCS	"12" Different cold start
				Comment	

		The following fields define the data area passed to $BLDMSG to build the HASP565 message.			

				End of Comment	

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	X'0'	0	M565RSN	"0,1,C'X'" Reason code
0	(0)	X'1'	0	M565RND1	"1" No dedicated line (1)
0	(0)	X'2'	0	M565RND2	"2" No dedicated line (2)
0	(0)	X'3'	0	M565RNIL	"3" No idle line
0	(0)	X'4'	0	M565RNSK	"4" No socket
0	(0)	X'5'	0	M565RNDE	"5" Node name unrecognized
0	(0)	X'6'	0	M565RNPM	"6" NPM not available
0	(0)	X'7'	0	M565RBUF	"7" Buffer shortage
0	(0)	X'8'	0	M565RBUS	"8" Line busy
0	(0)	X'9'	0	M565RNET	"9" NETLNES shortage
0	(0)	X'A'	0	M565RINT	"10" Internal error
0	(0)	X'B'	0	M565RAPP	"11" APPCLU class inactive
0	(0)	X'1'	0	M565NDEN	"1,8,C'C'" Node name
0	(0)	X'9'	0	M565NSVN	"9,8,C'C'" NETSRV name
0	(0)	X'11'	0	M565LNEN	"17,8,C'C'" LINE name (optional)

Comment

The following fields define the data area passed to $BLDMSG to build the HASP599 message.

End of Comment

0	(0)	X'0'	0	$599PIT	"0,4" PIT address
0	(0)	X'4'	0	$599SQD	"4,4" SQD Return Code
0	(0)	X'8'	0	$599XINI	"8,4" XINITST return code
0	(0)	X'C'	0	$599LEN	"12" Length of work area

Comment

The following fields define the data area passed to $BLDMSG to build the HASP791 message.

End of Comment

0	(0)	X'0'	0	M791NAME	"0,4" Member name
0	(0)	X'4'	0	M791GRP	"4,8" XCF GROUP name
0	(0)	X'C'	0	M791PLX	"12,8" XCF SYSPLEX name
0	(0)	X'14'	0	M791PXID	"20,8" XCF SYSPLEX id
0	(0)	X'1C'	0	M791LEN	"28" Entry length

Comment

The following fields define the data area passed to $BLDMSG to build the HASP710 message.

End of Comment

0	(0)	X'0'	0	M710ENT	"0,5,C'X'" Table entry (1 per member)
0	(0)	X'0'	0	M710MEM	"0,4,C'C'" Member name
0	(0)	X'4'	0	M710RSN	"4,1,C'X'" Reason code
0	(0)	X'1'	0	M710UP	"1" Member is up level
0	(0)	X'2'	0	M710DOWN	"2" Member is down level

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dec)**	**Description**
			Comment		
		The following fields define the data area passed to $BLDMSG to build the HASP474 message.			
			End of Comment		
0	(0)	X'0'	0	M474ENT1	"0,12" Data area 1
0	(0)	X'C'	0	M474ENT2	"M474ENT1+L'M474ENT1,12" Data area 2
0	(0)	X'18'	0	M474BTRN	"M474ENT2+L'M474ENT2,4" CBTYPE BRTRANS
0	(0)	X'1C'	0	M474PRML	"M474BTRN+L'M474BTRN" Total length
			Comment		
		Each of the 12-byte areas above is further mapped as follows:			
			End of Comment		
0	(0)	X'0'	0	M474ENBT	"0,4" BRTRANS address
0	(0)	X'4'	0	M474ENLO	"4,4" Low offset
0	(0)	X'8'	0	M474ENHI	"8,4" High offset
			Comment		
		Define individual fields in each of the 2 areas			
			End of Comment		
0	(0)	X'0'	0	M474E1BT	"M474ENT1+M474ENBT,L'M474ENBT" BRTRANS addr 1
0	(0)	X'4'	0	M474E1LO	"M474ENT1+M474ENLO,L'M474ENLO" Low offset 1
0	(0)	X'8'	0	M474E1HI	"M474ENT1+M474ENHI,L'M474ENHI" High offset 1
0	(0)	X'C'	0	M474E2BT	"M474ENT2+M474ENBT,L'M474ENBT" BRTRANS addr 2
0	(0)	X'10'	0	M474E2LO	"M474ENT2+M474ENLO,L'M474ENLO" Low offset 2
0	(0)	X'14'	0	M474E2HI	"M474ENT2+M474ENHI,L'M474ENHI" High offset 2
			Comment		
		HASP module directory entry			
			End of Comment		
0	(0)	X'0'	0	MAPNAME	"0,8" MODULE NAME
0	(0)	X'8'	0	MAPADDR	"8,4" MODULE ADDRESS
0	(0)	X'8'	0	MAPMITA	"8,4" MIT ADDRESS
0	(0)	X'C'	0	MAPBASE	"12,4" ALT MOD BASE FOR REP FACILITY
0	(0)	X'10'	0	MAPENTL	"16" MODMAP ENTRY LENGTH
0	(0)	X'10'	0	TMAPLMOD	"16,8" Load module name, in $SCAN temporary MODMAP only
0	(0)	X'18'	0	TMAPADDC	"24,4" Address check value for dup name/addr in temp MODMAP
0	(0)	X'1C'	0	TMAPENTL	"28" Temporary MODMAP entry len
			Comment		
		Tape label equates for offloads			
			End of Comment		
		1		$LABNL	"X'01'" NL - NON-LABELED
		.... ..1.		$LABSL	"X'02'" SL - STANDARD LABEL
		.... .1..		$LABNSL	"X'04'" NSL - NON-STANDARD LABEL
		.... 1.1.		$LABSUL	"X'0A'" SUL - STANDARD USER LABEL
		...1		$LABBLP	"X'10'" BLP - BYPASS LABEL PROCESS
		.1..		$LABAL	"X'40'" AL - AMERICAN NATIONAL STD
		.1.. 1...		$LABAUL	"X'48'" AUL - AMERICAL NATIONAL STD USER LABEL

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
			Comment		
		Miscellaneous DYNALLOC equates			
			End of Comment		
0	(0)	BITSTRING	0	$DYNLOCF	"X'1708'" LOCATE FAILURE REASON CODE
		.... .1..		$DYNNEW	"X'04'" DISP=NEW TEXT VALUE
			Comment		
		Miscellaneous WLM Equates			
			End of Comment		
0	(0)	X'E4C'	0	$HOURPLUS	"61*60" One hour plus (61 minutes)
			Comment		

		Equates for $XMPOST parameter list mapping.			

			End of Comment		
0	(0)	X'0'	0	$XMPERET	"0,4" ERRET address
0	(0)	X'4'	0	$XMPECBP	"4,4" Address of ECB to POST
0	(0)	X'8'	0	$XMPASCB	"8,4" Address of associated ASCB
0	(0)	X'C'	0	$XMPECB	"12,4" ECB to POST
		1...		$XMLOSTP	"X'80'" JES2 main task has finished processing the request. This is turned on in the high order byte of the ASCB address.
			Comment		
		HAVT high bit definition.			
			End of Comment		
		1...		HAVTNLOG	"B'10000000'" High bit on in HAVT entry ==> no job log
			Comment		
		$GETWORK table element mapping			
			End of Comment		
0	(0)	X'0'	0	GTWKTSIZ	"0,2,C'H'" Size of work area
0	(0)	X'2'	0	GTWKTMSZ	"2,2,C'H'" Minimum pool user size
0	(0)	X'4'	0	GTWKTPID	"4,1,C'X'" Pool id
0	(0)	X'5'	0	GTWKTFLG	"5,1,C'B'" Storage location flag
0	(0)	X'20'	0	GTWKTANY	"$GTWKLOC" Pool LOC=ANY
0	(0)	X'10'	0	GTWKRO	"$GTWKRO" Pool is read only
0	(0)	X'30'	0	GTWKDIS	"GTWKTANY+GTWKRO" Pool discriminates
			Comment		
		EQU 6,2 Reserved			
			End of Comment		
0	(0)	X'8'	0	GTWKTNAM	"8,4,C'C'" Normal use for pool
0	(0)	X'C'	0	GTWKTNXT	"12,4,C'A'" Address of next available work area
0	(0)	X'10'	0	GTWKTCEL	"16,4,C'F'" Number of cells obtained
0	(0)	X'14'	0	GTWKTUSE	"20,4,C'F'" Number of cells in use
0	(0)	X'18'	0	GTWKTESZ	"24" Size of table entry
0	(0)	X'2000'	0	GTWKMAX	"8192" Max size of GETWORKed area

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
				Comment	
		INLINE PARMLIST EQUATES Generalized inline parameter list EQUs			
				End of Comment	
0	(0)	X'0'	0	$ILPSIZE	"0,1" OFFSET TO SIZE OF INLINE PARAMETER LIST (1 BYTE)
0	(0)	X'1'	0	$ILPFLG1	"1,1" OFFSET TO GENERAL FLAG BYTE 1
0	(0)	X'2'	0	$ILPFLG2	"2,1" OFFSET TO GENERAL FLAG BYTE 2
0	(0)	X'3'	0	$ILPFLG3	"3,1" OFFSET TO GENERAL FLAG BYTE 3
				Comment	
		SPECIFIC INLINE PARMLIST EQUATES $#GET macro option flags			
				End of Comment	
		1...		$GTHAVNO	"B'10000000'" NO JOE RETURNED
		.1..		$GTCHNNO	"B'01000000'" NO CHAINING REQUIRED
		..1.		$GTIOTYS	"B'00100000'" RETURN THE IOT TO CALLER
		...1		$GTNET	"B'00010000'" NETWORK QUEUE
		.... 1...		$GTWRKSL	"B'00001000'" USE WORK SELECTION
		.... .1..		$GTWSP	"B'00000100'" WSP in R1, not DCT
		.... ..1.		$GTNOSAF	"B'00000010'" No SAF call
		1		$GTCOUNT	"B'00000001'" Count lines/pages/bytes
				Comment	
		$#GET macro more option flags (flag2)			
				End of Comment	
		1...		$GTOPTIM	"B'10000000'" Optimized $#GET
0	(0)	X'4'	0	$GTPARML	"4" $#GET Parameter list length
				Comment	
		GTSCREEN work selection options (hi-R1 on entry to GTSCREEN)			
				End of Comment	
		1		$GTSKWSR	"B'00000001'" Skip a call to WSSERV
		.... ..1.		$GTSKJPS	"B'00000010'" Skip JOE prescreening
		.... .1..		$GTSKJPP	"B'00000100'" Skip JOE postscreening
				Comment	
		$#POST macro option flags			
				End of Comment	
		1...		$PSTMASP	"B'10000000'" RESET JOE'S JOTPOST FLAG
		.1..		$PSTKEPJ	"B'01000000'" Keep JWELs
		..1.		$PSTNSPN	"B'00100000'" Do not post spin JOEs
0	(0)	X'0'	0	$PSTJOE	"0" TYPE=JOE $#POST CALL
0	(0)	X'4'	0	$PSTJQE	"4" TYPE=JQE $#POST CALL
0	(0)	X'8'	0	$PSTXMIT	"8" TYPE=XMIT $#POST CALL
0	(0)	X'C'	0	$PSTMSG	"12" TYPE=MSG $#POST CALL
				Comment	
		$#REM MACRO OPTION FLAGS			
				End of Comment	

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
		1...		$REMPURG	"B'10000000'" PURGE THE SPIN IOT TRACKS
				Comment	
		REMWAIT EQU B'01000000' Not available for use due to coexistence with SP510			
				End of Comment	
		..1.		$REMLOCK	"B'00100000'" Caller has job lock
		...1		$REMKPJQ	"B'00010000'" JQE must not be purged even if last JOE is being REMed
				Comment	
		$SJIOBIT macro option flags			
				End of Comment	
		1...		$SJITEMP	"B'10000000'" TEMPORARY SJIOB REQUESTED
		.1..		$SJIFREE	"B'01000000'" FREE SJIOB REQUESTED
		..1.		$SJINSJB	"B'00100000'" NO SJB REQUIRED
		...1		$SJIINIT	"B'00010000'" INIT SJIOB REQUESTED
		.... 1...		$SJIGNYC	"B'00001000'" UNCONDITIONAL GET SJIOB
				Comment	
		$QJIX macro action flags			
				End of Comment	
		1...		$JIXGET	"B'10000000'" FLAG FOR ALLOCATE JOB#
		.1..		$JIXFREE	"B'01000000'" FLAG FOR DEALLOCATE JOB#
		..1.		$JIXSWAP	"B'00100000'" FLAG FOR SWAP JOB NUMBER
		...1		$JIXFOMT	"B'00010000'" FLAG FOR INITIALIZE JIX
		.... 1...		$JIXVERI	"B'00001000'" FLAG FOR VERIFY JIX
		1		$JIXWYES	"B'00000001'" $WAIT IS REQUESTED FOR NEW JOB#
		....		$JIXWNO	"B'00000000'" NO $WAIT REQUESTED FOR NEW JOB#
				Comment	
		$CHECK macro option flags			
				End of Comment	
		1...		$CHECINH	"B'10000000'" INHIBIT=YES WAS SPECIFIED
		.1..		$CHECNWA	"B'01000000'" WAIT=NO was specified
		..1.		$CHECPST	"B'00100000'" POST=YES was specified
				Comment	
		$CKPALOC macro option flags			
				End of Comment	
		1...		$CKAOLD	"B'10000000'" OLD=YES WAS SPECIFIED
		.1..		$CKANEW	"B'01000000'" NEW=YES WAS SPECIFIED
		..1.		$CKADEF	"B'00100000'" NEW=DEFER was specified
				Comment	
		$CKPT macro option flags			
				End of Comment	
		1...		$CKPPOST	"B'10000000'" $POST CKPT
		.1..		$CKPUNK	"B'01000000'" Unknown ID

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
			Comment		
		$DCBDYN macro option flags			
			End of Comment		
		1...		$BDYNATT	"B'10000000'" DCB ATTACH REQUEST
		.1..		$BDYNDET	"B'01000000'" DCB DETACH REQUEST
			Comment		
		$DCTDYN macro option flags			
			End of Comment		
		1...		$DDYNATT	"B'10000000'" DCT ATTACH REQUEST
		.1..		$DDYNFND	"B'01000000'" DCT FIND REQUEST
			Comment		
		$DTEDYN macro option flags			
			End of Comment		
		1...		$DTEPARM	"B'10000000'" PARM PARMETER SPECIFIED
		.1..		$DTEPECB	"B'01000000'" ECB TYPE WAIT SPECIFIED
		..1.		$DTEPXCB	"B'00100000'" XECB TYPE WAIT SPECIFIED
			Comment		
		$ENTRY macro eyecatcher fields Normal $ENTRY work area EQU 0,4 Initial jump instruction EQU 4,4 Fill characters ($$$$)			
			End of Comment		
0	(0)	X'8'	0	$ENTNAME	"8,8,C'C'" Routine name
0	(0)	X'10'	0	$ENTCADR	"16,4,C'X'" Offset into $xADDR
			Comment		
		SSI $ENTRY work area EQU 0,4 Initial jump instruction EQU 4,4 Secondary jump or ($$$$)			
			End of Comment		
0	(0)	X'8'	0	$ENTSNAM	"8,8,C'C'" Routine name
0	(0)	X'10'	0	$ENTSDSC	"16,40,C'C'" SSI description
0	(0)	X'38'	0	$ENTSNUM	"56,1,C'X'" SSI number
0	(0)	X'39'	0	$ENTSFG1	"57,1,C'B'" SSI option flags
		1...		$ENTS1AU	"B'10000000'" Authorized callers only
0	(0)	X'3A'	0	$ENTSEXL	"58,2,C'H'" SSOB extension len offset
			Comment		
		$EXCP macro option flags			
			End of Comment		
		1...		$EXCPVR	"B'10000000'" I/O VIA EXCPVR INDICATOR
		.1..		$EXCPWT	"B'01000000'" $WAIT FOR I/O TO COMPLETE
		..1.		$EXCPMT	"B'00100000'" Validate MTTR

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
				Comment	
		$FRECMB macro option flags			
				End of Comment	
		1...		$FCMBCNT	"B'10000000'" BUMP CMB COUNT
				Comment	
		$FREEBUF macro option flags			
				End of Comment	
		1...		$FBUFMLT	"B'10000000'" FREE MULTIPLE BUFFERS
				Comment	
		$GETBUF macro option flags			
				End of Comment	
		1...		$GBUFWT	"B'10000000'" INDICATE $WAIT ALLOWED
				Comment	
		$GETHP macro option flags			
				End of Comment	
		1...		$GHPFIX	"B'10000000'" Area should be page fixed
0	(0)	X'8'	0	$GHPPRFX	"8" $GETHP prefix length
				Comment	
		$GETSMFB macro options flags			
				End of Comment	
		1...		$GSMFBWT	"B'10000000'" INDICATE $WAIT ALLOWED
		.1..		$GSMFBLG	"B'01000000'" INDICATE LARGE SMF BUFFER SPECIFIED
				Comment	
		$GETWORK macro option flags			
				End of Comment	
		1...		$GTWKCND	"B'10000000'" ERRET=, CONDITIONAL ENTRY
		.1..		$GTWKWAT	"B'01000000'" WAIT=YES, $WAIT FOR MAIN
				Comment	

		Ensure that chacterizing bits (ones that differentiate otherwise equal pools in the getwork table) are defined in the same way here as they in the GETPOOL equates in the $GETWORK routine.			

				End of Comment	
		..1.		$GTWKLOC	"B'00100000'" LOC=ANY was specified
		...1		$GTWKRO	"B'00010000'" Pool is read only

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

				End of pool discriminates	

				$JCTXnnn Macro option flags	
				End of Comment	
0	(0)	BITSTRING	0	$JCXLOCL	"B'1000000000000000'" LOC=LOCAL specified
				Comment	

				$JQESERV Macro option flags When a flag bit is added, place a '0' in the corresponding bit position in $JSRFLGS EQU.	

				End of Comment	
0	(0)	BITSTRING	0	$JSRBERT	"B'1000000000000000'" BERTLOCK=YES specified
0	(0)	BITSTRING	0	$JSRGSPL	"B'0100000000000000'" GETSPOOL=YES specified
0	(0)	BITSTRING	0	$JSRRWAT	"B'0010000000000000'" RESWAIT=YES specified
0	(0)	BITSTRING	0	$JSRWAIT	"B'0001000000000000'" Post when request completes
0	(0)	BITSTRING	0	$JSRJQA	"B'0000100000000000'" A JQA was passed
0	(0)	BITSTRING	0	$JSRFREE	"B'0000010000000000'" FREE=YES specified
0	(0)	BITSTRING	0	$JSRTSU	"B'0000001000000000'" JQETYPE=TSU specified
0	(0)	BITSTRING	0	$JSRSTC	"B'0000000100000000'" JQETYPE=STC specified
		1...		$JSRMJPL	"B'0000000010000000'" MODJOB parms passed
		.111 1111		$JSRFLGS	"B'0000000001111111'" EQU for all flag bits. Place a '0' in bit positions used as flags. Place a '1' in unused flag bit positions.
		1		$JSRTADD	"B'0000000000000001'" REQUEST=ADD
		.... ..1.		$JSRTCKP	"B'0000000000000010'" REQUEST=CKPT
		11		$JSRTMOD	"B'0000000000000011'" REQUEST=MOD
		.... .1..		$JSRTREM	"B'0000000000000100'" REQUEST=REM
		.... .1.1		$JSRTOBT	"B'0000000000000101'" REQUEST=OBTAIN
		.... .11.		$JSRTFRE	"B'0000000000000110'" REQUEST=FREE
		.... .111		$JSRTCAN	"B'0000000000000111'" REQUEST=CANCEL
		.... 1...		$JSRTQRY	"B'0000000000001000'" REQUEST=QUERY
		.... 1..1		$JSRTMDJ	"B'0000000000001001'" REQUEST=MODJOB
				Comment	
				$MODLOAD macro option flags	
				End of Comment	
		1...		$MLMSGY	"B'10000000'" ISSUE DIAGNOSTIC MESSAGE
		.1..		$MLJ2MOD	"B'01000000'" LOAD A JES2 LOAD MODULE
		..1.		$MLDIRL	"B'00100000'" DIRECTED LOAD REQUEST
		...1		$MLDLPA	"B'00010000'" SEARCH FOR LPA MODULE
		.... 1...		$MLMSGI	"B'00001000'" Issue diagnostic message if the module is found but has other errors
		.... .1..		$MLMSGS	"B'00000100'" Suppress all message processing
		.... ..1.		$MLREPL	"B'00000010'" Replace existing load module
		1		$MLREPLC	"B'00000001'" Replace/load module
				Comment	
				$PBLOCK macro options flags	
				End of Comment	
		1...		$PBLKSLT	"B'10000000'" SLANT WAS SPECIFIED
		.1..		$PBLKCTR	"B'01000000'" CENTER WAS SPECIFIED

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
		Comment			
		$PCEDYN macro option flags			
		End of Comment			
		1...		$PDYNAT	"B'10000000'" PCE ATTACH REQUEST
		.1..		$PDYNDT	"B'01000000'" PCE DETACH REQUEST
		..1.		$PDYNDTT	"B'00100000'" PCE DETACH TEST REQUEST
		...1		$PDYNALT	"B'00010000'" Alter PCEs defined
		.... 1...		$PDYNPCE	"B'00001000'" R1 INPUT IS A PCE ADDR
		.... .1..		$PDYNTAB	"B'00000100'" R1 INPUT IS A PTAB ADDR
		.... ..1.		$PDYNDCT	"B'00000010'" R1 INPUT IS A DCT ADDR
		Comment			
		PSOFRELK Service routine EQUs COMFRELK Service routine EQUs			
		End of Comment			
0	(0)	X'0'	0	LEAVE_JOES_BUSY	"0" Don't unbusy any JOEs
0	(0)	X'1'	0	UNBUSY_JOES	"1" Unbusy JOEs
		Comment			
		$PGSRVC macro option flags			
		End of Comment			
		1...		$PGSRVRL	"B'10000000'" RELEASE SPECIFIED
		.1..		$PGSFIX	"B'01000000'" FIX SPECIFIED
		..1.		$PGSFREE	"B'00100000'" FREE SPECIFIED
		...1		$PGSRPSL	"B'00010000'" PSL (PAGE SERV LIST) PASSED
		.... 1...		$PGSPRO	"B'00001000'" PROTECT specified
		.... .1..		$PGSUPRO	"B'00000100'" UNPROTECT specified
		Comment			
		$QGET macro option flags			
		End of Comment			
		1...		$QGTLSTC	"B'10000000'" $OJTWSC SPECIFIED ON $QGET ... RUN $XEQ AND CLASS LIST QUEUES
		.1..		$QGTLST	"B'01000000'" $OJTWS SPECIFIED ON $QGET RUN CLASS LIST QUEUES
		..1.		$QGTINWS	"B'00100000'" $INWS SPECIFIED ON $QGET RUN CLASS LIST QUEUES
		...1		$QGTWLMQ	"B'00010000'" $INWLM SPECIFIED ON $QGET RUN WLM QUEUES
0	(0)	X'1A4'	0	$QWALEN	"420" Length of the $QGET wrkarea
		Comment			
		$QMOD/$QADD macro option flags			
		End of Comment			
		1...		$LVALONE	"B'10000000'" Don't reset job busy bits
		.1..		$QSNPCHG	"B'01000000'" Disallow phase change
		..1.		$NPRICHG	"B'00100000'" Do not change priority
		...1		$QMDKEEP	"B'00010000'" Keep artificial JQE
		.... 1...		$QADJQA	"B'00001000'" Prototype JQA passed (QADD)
		.... .1..		$QMDNX51	"B'00000100'" Bypass exit 51 call (QMOD)
		.... ..1.		$QMDHJCT	"B'00000010'" JCT address passed (QMOD)

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
		1		$QMDOVAL	"B'00000001'" Old values for class and/or service class passed (QMOD)
				Comment	
		RACROUTE reason codes			
				End of Comment	
		..1. .1..		RACDSECL	"X'24'" SECLABEL NOT ACCESSIBLE
				Comment	
		RJOBONMG options equates			
				End of Comment	
0	(0)	X'0'	0	RJOBNOFF	"0" Msg not allowed for Offload
0	(0)	X'1'	0	RJOBOFFL	"1" Msg allowed for Offload
				Comment	
		$SDUMP macro option flags			
				End of Comment	
		1...		$SDHOME	"B'10000000'" DUMP HOME ADDRESS SPACE
		.1..		$SDAPPND	"B'01000000'" APPEND PASSED TITLE TO DEFAULT
		..1.		$SDDEFT	"B'00100000'" GENERATE ONLY DEFAULT TITLE
		...1		$SDRETRN	"B'00010000'" IF SDUMP FAILS, JUST RETURN
		.... 1...		$SDWAIT	"B'00001000'" IF SDUMP FAILS, WTOR, MVS WAIT
		.... .1..		$SDXSYS	"B'00000100'" Dump other MAS members
				Comment	
		$SEAS macro FUNCODE values SEATABL (HASPNUC) entries			
				End of Comment	
0	(0)	X'0'	0	$SEANJES	"0" NOT VALID FOR CODER=JES2
0	(0)	X'1'	0	$SEAINIT	"$SEANJES+1" INITIALIZE SECURITY ENVIRON
0	(0)	X'2'	0	$SEAVERC	"$SEAINIT+1" SECURITY ENVIRON CREATE
0	(0)	X'3'	0	$SEAVERD	"$SEAVERC+1" SECURITY ENVIRON DELETE
0	(0)	X'4'	0	$SEAXTRT	"$SEAVERD+1" ENVIRON EXTRACT
0	(0)	X'5'	0	$SEASIC	"$SEAXTRT+1" SYSIN DATA SET CREATE
0	(0)	X'6'	0	$SEASOC	"$SEASIC+1" SYSOUT DATA SET CREATE
0	(0)	X'7'	0	$SEASIP	"$SEASOC+1" SYSIN DATA SET OPEN
0	(0)	X'8'	0	$SEASOP	"$SEASIP+1" SYSOUT DATA SET OPEN
0	(0)	X'9'	0	$SEAPSO	"$SEASOP+1" PSO DATA SET OPEN
0	(0)	X'A'	0	$SEAPSS	"$SEAPSO+1" PSO DATA SET SELECT
0	(0)	X'B'	0	$SEATCAN	"$SEAPSS+1" TSO CANCEL
0	(0)	X'C'	0	$SEACMD	"$SEATCAN+1" COMMAND AUTHORIZATION
0	(0)	X'D'	0	$SEAPRT	"$SEACMD+1" PRINTER DATA SET SELECT
0	(0)	X'E'	0	$SEADEL	"$SEAPRT+1" DATA SET PURGE
0	(0)	X'F'	0	$SEANUSE	"$SEADEL+1" NOTIFY USER TOKEN EXTRACT
0	(0)	X'10'	0	$SEATBLD	"$SEANUSE+1" TOKEN BUILD
0	(0)	X'11'	0	$SEARJES	"$SEATBLD+1" RJE SIGNON
0	(0)	X'12'	0	$SEADEVA	"$SEARJES+1" DEVICE AUTHORIZATION
0	(0)	X'13'	0	$SEANJEA	"$SEADEVA+1" NJE SYSOUT DS AUTHORIZATION
0	(0)	X'14'	0	$SEAREXT	"$SEANJEA+1" REVERIFY TOKEN EXTRACT
0	(0)	X'15'	0	$SEARRT	"$SEAREXT+1" RESERVED
0	(0)	X'16'	0	$SEANEWS	"$SEARRT+1" JESNEWS UPDATE AUTH CALL
0	(0)	X'17'	0	$SEANWBL	"$SEANEWS+1" JESNEWS TOKEN BUILD CALL
0	(0)	X'18'	0	$SEAVERS	"$SEANWBL+1" Subtask VERIFY (build ACEE)
0	(0)	X'19'	0	$SEAAUD	"$SEAVERS+1" Audit for job in error
0	(0)	X'1A'	0	$SEADCHK	"$SEAAUD+1" $DESTCHK AUTH call
0	(0)	X'1B'	0	$SEATSOC	"$SEADCHK+1" TRACE SYSOUT DS CREATE

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	X'1C'	0	$SEASSOC	"$SEATSOC+1" SYSTEM SYSOUT DS CREATE
0	(0)	X'1D'	0	$SEANSOC	"$SEASSOC+1" NEWS SYSOUT DS CREATE
0	(0)	X'1E'	0	$SEASOX	"$SEANSOC+1" SYSOUT XMIT/OFFLOAD
0	(0)	X'1F'	0	$SEANJEV	"$SEASOX+1" NJE/OFFLOAD SYSOUT VERIFYX
0	(0)	X'20'	0	$SEAJOX	"$SEANJEV+1" JOB XMIT/OFFLOAD
0	(0)	X'21'	0	$SEASPBC	"$SEAJOX+1" RESERVED
0	(0)	X'22'	0	$SEASPBO	"$SEASPBC+1" SPOOL BROWSE DATA SET OPEN
0	(0)	X'23'	0	$SEASFS	"$SEASPBO+1" Scheduler Service TOKNXTR
0	(0)	X'24'	0	$SEASSWM	"$SEASFS+1" SWM Modify ALTER AUTH
0	(0)	X'25'	0	$SEASAPI	"$SEASSWM+1" Sysout API
0	(0)	X'26'	0	$SEASCLA	"$SEASAPI+1" SECLABEL affinity extract
0	(0)	X'27'	0	$SEASCLE	"$SEASCLA+1" DCT SECLABEL extract
0	(0)	X'28'	0	$SEANSON	"$SEASCLE+1" NJE signon pw extract
0	(0)	X'29'	0	$SEADIRA	"$SEANSON+1" Seclabel dominance
0	(0)	X'2A'	0	$SEASPLR	"$SEADIRA+1" SPOOL I/O AUTH check
0	(0)	X'2B'	0	$SEAJCLS	"$SEASPLR+1" Job class AUTH check

Comment

If you add a new FUNCODE here then be sure to
update the following line accordingly.
(and also update the SEATABL in HASPNUC and
the 'Security Function Table' documentation
for exits 36 and 37 in the JES2 Exits book)

End of Comment

0	(0)	X'2B'	0	$SEAUSED	"$SEAJCLS" Highest FUNCODE used
0	(0)	X'FF'	0	$SEAMAX	"255" MAXIMUM SEAS FUNCODE

Comment

$SEAS return code values

End of Comment

0	(0)	X'0'	0	$SEAOK	"0" $SEAS RC=0
0	(0)	X'4'	0	$SEAND	"4" $SEAS RC=4
0	(0)	X'8'	0	$SEAFAIL	"8" $SEAS RC=8
0	(0)	X'C'	0	$SEANSTO	"12" $SEAS RC=12

Comment

$STMTLOG macro option flags

End of Comment

1...		$STMT	"B'10000000'" STATEMENT SHOULD BE LOGGED
.1..		$STMTCOM	"B'01000000'" DIAGNOSTIC IS A COMMENT
..1.		$STMTWAR	"B'00100000'" DIAGNOSTIC IS A WARNING
...1		$STMTERR	"B'00010000'" DIAGNOSTIC IS AN ERROR MESSAGE

Comment

$TTIMER macro option flags

End of Comment

1...		$TIMETST	"B'10000000'" TEST TIME INTERVAL

Comment

$WSSCAN device type indicator

End of Comment

1...		$WSFRJE	"B'10000000'" WS PROCESSING FOR REMOTE
.1..		$WSJSREC	"B'01000000'" WS PROCESSING FOR RECEIVERS

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
				Comment	
				High order bit on	
				End of Comment	
		1...		$EQUHBIT	"B'10000000'" TURN ON HIGH ORDER BIT
				Comment	
				AUDSAF LOGST indicator	
				End of Comment	
0	(0)	X'4'	0	$AUDIO	"4" I/O error during purge
0	(0)	X'8'	0	$AUDLOST	"8" Lost output during restart
0	(0)	X'C'	0	$AUDDEL	"12" Job deleted during restart
0	(0)	X'10'	0	$AUDMOVE	"16" Job lost during spool move
0	(0)	X'14'	0	$AUDINER	"20" Job had error in input
0	(0)	X'18'	0	$AUDSUB	"24" Subtask error during purge
				Comment	
				Reason Code Equates for Main Task $ERROR calls	
				End of Comment	
0	(0)	X'4'	0	$L01R004	"4" Message too long for command area.
				Comment	
				Reason code equates for $ERROR (0F7 ABENDs) in the user environment	
				End of Comment	
0	(0)	X'0'	0	$ERRC000	"0" UNABLE TO CANCEL ESTAE
0	(0)	X'4'	0	$ERRC004	"4" ATTEMPT MADE TO LOCK TWO SJBS AT ONCE
0	(0)	X'8'	0	$ERRC008	"8" INVALID/UNCLAIMED CELL ADDRESS
0	(0)	X'C'	0	$ERRC012	"12" DISCONNECT DENIED - GETMAIN FAILURE
0	(0)	X'10'	0	$ERRC016	"16" UNABLE TO WRITE FINAL IOT CHAIN
0	(0)	X'1C'	0	$ERRC028	"28" ASXBJSVT DOES NOT CONTAIN FSVT ADDRES
0	(0)	X'20'	0	$ERRC032	"32" UNABLE TO WRITE JCT
0	(0)	X'24'	0	$ERRC036	"36" $SVJ LOCK REQUEST FAILED
0	(0)	X'28'	0	$ERRC040	"40" UNABLE TO OBTAIN SJB LOCK
0	(0)	X'4C'	0	$ERRC076	"76" HASCTP SELECT/TERMINATE FAILURE
0	(0)	X'50'	0	$ERRC080	"80" CALLER ADDRESS ARRAY FILLED UP
0	(0)	X'54'	0	$ERRC084	"84" NO ENTRY IN CALLER ADDRESS ARRAY
0	(0)	X'58'	0	$ERRC088	"88" $RETURN - SAVE AREA HAS IMPROPER FORM
0	(0)	X'5C'	0	$ERRC092	"92" ENTERED $SSIEND WITH AN OUTSTANDING $SAVE
0	(0)	X'60'	0	$ERRC096	"96" SJF SCANSWB FAILED IN ALLOC
0	(0)	X'64'	0	$ERRC100	"100" INVALID GROUPING STRINGS OBJECT
0	(0)	X'68'	0	$ERRC104	"104" SWBTUREQ RETRIEVE SERVICE FAILED IN $GASSIGN SERVICE
0	(0)	X'6C'	0	$ERRC108	"108" INVALID STORAGE BLOCK POINTER IN GROUPING STRINGS OBJECT
0	(0)	X'70'	0	$ERRC112	"112" SJF KEYLIST SERVICE FAILED IN GROUPING KEYS SERVICE
0	(0)	X'74'	0	$ERRC116	"116" UNEXPECTED NUMBER OF SWBIT BUFFERS PASSED TO GRPASGN ROUTINE
0	(0)	X'78'	0	$ERRC120	"120" ENTERED $SSIEND WITH $ESTAEs OUTSTANDING
0	(0)	X'7C'	0	$ERRC124	"124" SJB UNLOCK NOT BY LOCKHOLDER
0	(0)	X'80'	0	$ERRC128	"128" NOT ALL PROTECTED BUFFERS HAVE BEEN $FREEBUFed
0	(0)	X'84'	0	$ERRC132	"132" ATTEMPTED TO FREE A TRE IN THE $GETHP SERVICE

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	X'88'	0	$ERRC136	"136" LOOP IN THE CPOOL CHAIN IN THE $CRETSAV SERVICE
0	(0)	X'8C'	0	$ERRC140	"140" TRIED TO INITIALIZE TRE WHEN CELL IS NOT A TRE IN GETTRE
0	(0)	X'90'	0	$ERRC144	"144" ERROR RETURN FROM MVS ENQ DURING TRACE PROCESSING
0	(0)	X'94'	0	$ERRC148	"148" Truncate protected buffer failed in HFCLTRNC
0	(0)	X'98'	0	$ERRC152	"152" ERROR DETECTED BY HASCRQUE
0	(0)	X'9C'	0	$ERRC156	"156" INCORRECT $$POST RESOURCE
0	(0)	X'A0'	0	$ERRC160	"160" Reserved
0	(0)	X'A4'	0	$ERRC164	"164" An attempt was made to ENQ on the SVJ lock, but an unexpected RC was received
0	(0)	X'A8'	0	$ERRC168	"168" The SJB queue in the field SJBQUEUE does not point to a valid queue.
0	(0)	X'AC'	0	$ERRC172	"172" The SJB queue in the field SJBQUEUE does not point to a valid queue.
0	(0)	X'B0'	0	$ERRC176	"176" The SJB is not on the queue pointed to by SJBQUEUE.
0	(0)	X'B4'	0	$ERRC180	"180" The SJB is not on the queue
0	(0)	X'B8'	0	$ERRC184	"184" Channel end appendage requested re-drive after an unrecoverable error
0	(0)	X'BC'	0	$ERRC188	"188" An error was found during SJB rebuild processing.
0	(0)	X'C0'	0	$ERRC192	"192" A caller of $SJBRQ did not hold the SVJ lock.
0	(0)	X'C4'	0	$ERRC196	"196" SAPI CPOOL query failed
0	(0)	X'C8'	0	$ERRC200	"200" Fields that should be zeros in the SSS2 SSOB extension are not
0	(0)	X'CC'	0	$ERRC204	"204" SJF Request error on GETDS/SAPI request
0	(0)	X'D4'	0	$ERRC212	"212" $CPOOL ACTION=GET failed to get specified cell
0	(0)	X'D8'	0	$ERRC216	"216" $CPOOL ACTION=FREE failed to free specified cell
0	(0)	X'E0'	0	$ERRC224	"224" $XMPOST parm list not valid
0	(0)	X'E4'	0	$ERRC228	"228" FIFOENQ circular queue
0	(0)	X'E8'	0	$ERRC232	"232" SJB memory not available
0	(0)	X'EC'	0	$ERRC236	"236" $SUBIT called in incorrect address space
0	(0)	X'F0'	0	$ERRC240	"240" Unrecognized buffer type queued to NJE server
0	(0)	X'F4'	0	$ERRC244	"244" CALLRTM of NETSRV main task by JES2 subtask
0	(0)	X'F8'	0	$ERRC248	"248" Incorrect caller of $GETTBUF/$FRETBUF services
0	(0)	X'FC'	0	$ERRC252	"252" $GETABLE Internal error
0	(0)	X'100'	0	$ERRC256	"256" NJEX early init routine entered multiple times
0	(0)	X'104'	0	$ERRC260	"260" Notify message length error
0	(0)	X'108'	0	$ERRC264	"264" Unauthorized ECB detected
0	(0)	X'10C'	0	$ERRC268	"268" JOBVALM Parm list error
0	(0)	X'110'	0	$ERRC272	"272" JOBVALM TOKEN type error
0	(0)	X'114'	0	$ERRC276	"276" CJOBVFY NJE header error
0	(0)	X'118'	0	$ERRC280	"280" SPOOL offload section
0	(0)	X'11C'	0	$ERRC284	"284" TBLOB ENQ error
0	(0)	X'120'	0	$ERRC288	"288" CPOOL ENQ error
0	(0)	X'124'	0	$ERRC292	"292" CPOOL - Storage Debug check failed
0	(0)	X'128'	0	$ERRC296	"296" CPOOL - Storage overlay detected
0	(0)	X'12C'	0	$ERRC300	"300" $NSSTLOK environ error
0	(0)	X'130'	0	$ERRC304	"304" Attempt to free subpool 0
0	(0)	X'134'	0	$ERRC308	"308" Unexpected length of 0
0	(0)	X'13C'	0	$ERRC316	"316" Multi system data retrieval JESXCF failure
0	(0)	X'140'	0	$ERRC320	"320" Recursive call in SSI 80
0	(0)	X'144'	0	$ERRC324	"324" Unexpected Error in Remote Health Checker Task
0	(0)	X'148'	0	$ERRC328	"328" NDH pointer is null
0	(0)	X'14C'	0	$ERRC332	"332" Invalid PDDB size
0	(0)	X'150'	0	$ERRC336	"336" $DSERV bad DSERV pointer
0	(0)	X'154'	0	$ERRC340	"340" $SCAN error detected
0	(0)	X'158'	0	$ERRC344	"344" Invalid CDCT device type
0	(0)	X'15C'	0	$ERRC348	"348" Invalid CDCT line type
0	(0)	X'160'	0	$ERRC352	"352" SJB lock not held for SPIN
0	(0)	X'164'	0	$ERRC356	"356" $MGIOMSG - Incorrect channel command.
0	(0)	X'168'	0	$ERRC360	"360" Bitmap problem during SIGIOU processing.
0	(0)	X'16C'	0	$ERRC364	"364" $BITMAP - boundary error.
0	(0)	X'170'	0	$ERRC368	"368" CATREAD - Expected group CAT not found.

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	X'174'	0	$ERRC372	"372" CATTREE - Rotate right - incorrect balance factor
0	(0)	X'178'	0	$ERRC376	"376" DSNMSRV - bad character in dataset name
0	(0)	X'17C'	0	$ERRC380	"380" $SSIBEGN HASB SJB Q error
0	(0)	X'180'	0	$ERRC384	"384" $SJBFIND HASB SJB Q error
0	(0)	X'184'	0	$ERRC388	"388" CATREAD - unexpected TYPE or CLASS value.
0	(0)	X'188'	0	$ERRC392	"392" CATREAD - Unexpected CAT Cache element.
0	(0)	X'18C'	0	$ERRC396	"396" CATREAD - Group name mismatch.
0	(0)	X'190'	0	$ERRC400	"400" CATREAD - Unexpected Pseudo CAT.
0	(0)	X'194'	0	$ERRC404	"404" CATREAD - Error during CAT cache build.
0	(0)	X'198'	0	$ERRC408	"408" CATREAD - Cache expected but not present.
0	(0)	X'19C'	0	$ERRC412	"412" CATTREE - Rotate DBL right - incorrect balance factor
0	(0)	X'1A0'	0	$ERRC416	"416" CATTREE - Rotate left - incorrect balance factor
0	(0)	X'1A4'	0	$ERRC420	"420" CATTREE - Rotate DBL left - incorrect balance factor
0	(0)	X'1A8'	0	$ERRC424	"424" SJMPRJ2 - $JQESERV request count mismatch

Comment

Reason code equates for S1E0 abends.

End of Comment

0	(0)	X'4'	0	$1E0C004	"4" Unauthorized caller for authorized only SSI
0	(0)	X'8'	0	$1E0C008	"8" Caller cannot access passed data area
0	(0)	X'C'	0	$1E0C012	"12" Improper SSI call setup
0	(0)	X'10'	0	$1E0C016	"16" Invalid input

Comment

Error type equates for S1E0 abends (located in R9)

End of Comment

0	(0)	X'1'	0	$1E0ET01	"1" Invalid SSCT ($1E0C012)
0	(0)	X'2'	0	$1E0ET02	"2" Invalid function code ($1E0C012)
0	(0)	X'3'	0	$1E0ET03	"3" Function code unsupported ($1E0C012)
0	(0)	X'4'	0	$1E0ET04	"4" No routine address ($1E0C012)
0	(0)	X'5'	0	$1E0ET05	"5" Authorized only allowed ($1E0C004)
0	(0)	X'6'	0	$1E0ET06	"6" Authorized subfunction only allowed (SSI 71) ($1E0C004)

Comment

SAPI specific error types.

End of Comment

0	(0)	X'7'	0	$1E0ET07	"7" CPOOL QCELL failed ($1E0C016)
0	(0)	X'8'	0	$1E0ET08	"8" Non-zero MVS CPOOL ret code ($1E0C016)
0	(0)	X'9'	0	$1E0ET09	"9" Cell not allocated ($1E0C016)
0	(0)	X'A'	0	$1E0ET10	"10" SAPID for different address space ($1E0C016)
0	(0)	X'B'	0	$1E0ET11	"11" Terminated SAPID ($1E0C016)
0	(0)	X'C'	0	$1E0ET12	"12" Owning thread not us ($1E0C016)
0	(0)	X'D'	0	$1E0ET13	"13" Owning TCB not us ($1E0C016)

Comment

Equates for Debug option Flags ($DEBGOPS and
$DEBGOP2) in the HCT.
These equates are moved here because of the need
of Storage Debug Flag in CPOOL.

End of Comment

1...	$DBGBERT	"B'10000000'" BERT debug support
.1..	$DBGCKPT	"B'01000000'" CKPT debug support
..1.	$DBGVERS	"B'00100000'" VERSION debug support
...1	$DBGVERB	"B'00010000'" Verbose messaging requested

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
		.... 1...		$DBGSTRG	"B'00001000'" STORAGE debug support
		.... .1..		$DBGMISC	"B'00000100'" MISC debug support (Miscellaneous)
		.... ..1.		$DBGSYMR	"B'00000010'" SYMREC debug option
		1		$DBGSAF	"B'00000001'" SECURITY debug option
				Comment	
		$DEBGOP2 flags (not shadowed in HCCT)			
				End of Comment	
		1...		$DBGXCFS	"B'10000000'" XCF member status debug
				Comment	
		Reason Codes for $CF1 Abends detected by assembler code. Note that the reason codes detected by PLX code are defined in $HASPEQP.			
				End of Comment	
0	(0)	X'4'	0	$CF1R004	"4" Could not read track 1
0	(0)	X'8'	0	$CF1R008	"8" Could not format ckpt
0	(0)	X'C'	0	$CF1R012	"12" Could not release lock
				Comment	
		Reason codes 16-32 are defined in $HASPEQP			
				End of Comment	
0	(0)	X'24'	0	$CF1R036	"36" Could not write track 1
				Comment	
		Reason Code Equates for CONVCON check of out-of-line area			
				End of Comment	
0	(0)	X'0'	0	$AIDOK	"0" Area ID is syntactically valid
0	(0)	X'4'	0	$AIDUSED	"4" Not possible
0	(0)	X'8'	0	$AIDUTRK	"8" Not possible
0	(0)	X'C'	0	$AIDNDEF	"12" Area ID not syntactically valid
0	(0)	X'10'	0	$AIDNVAL	"16" Area ID not specified correctly
				Comment	
		ABEND 02A reason codes			
				End of Comment	
		.... .1..		AB02AR04	"X'04'" Control block error
		.... 1...		AB02AR08	"X'08'" Bad UBF or HAMSVC
		.... 11..		AB02AR0C	"X'0C'" Logic error
		...1		AB02AR10	"X'10'" SETPRT error
		...1 .1..		AB02AR14	"X'14'" Bad BFDLOC value
		...1 1...		AB02AR18	"X'18'" Reserved
		...1 11..		AB02AR1C	"X'1C'" INTRDR CB validation error
		..1.		AB02AR20	"X'20'" Serialization failure for int. reader PUT/ENDREQ
		..1. .1..		AB02AR24	"X'24'" Internal logic error for SVCIRD
		..1. 1...		AB02AR28	"X'28'" Non-valid M detected
		..1. 11..		AB02AR2C	"X'2C'" Invalid SCR passed on PUT
		..11		AB02AR30	"X'30'" Looping condition detected in HPUTFULL
		..11 .1..		AB02AR34	"X'34'" Looping condition detected in HAMFIX
		..11 1...		AB02AR38	"X'38'" Loop detected in HAMSIO
		..11 11..		AB02AR3C	"X'3C'" HCPBUFND detected error condition
		.1..		AB02AR40	"X'40'" Unauthorized use of authorized RPL option
		.1.. .1..		AB02AR44	"X'44'" Internal error in HAMFIX
		.1.. 1...		AB02AR48	"X'48'" Internal error in HCEPUT

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
		.1.. 11..		AB02AR4C	"X'4C'" Reserved
		.1.1		AB02AR50	"X'50'" Active I/O after cleanup
		.1.1 .1..		AB02AR54	"X'54'" BAT chain corrupted
		.1.1 1...		AB02AR58	"X'58'" Reserved
		.1.1 11..		AB02AR5C	"X'5C'" Corrupted Job Symbol Table
		.11.		AB02AR60	"X'60'" Symbol substitution error
		.11. .1..		AB02AR64	"X'64'" Substitution logging error
		.11. 1...		AB02AR68	"X'68'" No storage for BATs

Comment

Reason code equates for $ERROR $MG0 abends.
Migration specific - Migrator DTE was not found.

End of Comment

0	(0)	X'1'	0	$MG0C001	"1" DADMSET2 subroutine
0	(0)	X'2'	0	$MG0C002	"2" DADMCLU2 subroutine
0	(0)	X'3'	0	$MG0C003	"3" DADMSET3 subroutine
0	(0)	X'4'	0	$MG0C004	"4" DADMCLU3 subroutine
0	(0)	X'5'	0	$MG0C005	"5" DADMPHA1 subroutine
0	(0)	X'6'	0	$MG0C006	"6" DADMPHA2 subroutine
0	(0)	X'7'	0	$MG0C007	"7" DADMCLUM subroutine
0	(0)	X'8'	0	$MG0C008	"8" SETEINFO subroutine
0	(0)	X'9'	0	$MG0C009	"9" DADMCLU1 subroutine
0	(0)	X'A'	0	$MG0C010	"10" DADDEB subroutine

Comment

Reason code equates for $ERROR $MG1 abends.
Migration specific - Migrator assistant DTE not found.

End of Comment

0	(0)	X'B'	0	$MG1C011	"11" DADMSET3 subroutine
0	(0)	X'C'	0	$MG1C012	"12" DADDEB subr - location #1

Comment

JOB TRANSMITTER MISCELLANEOUS EQUATES

End of Comment

		11..		SRCBJH	"X'C0'" JOB HEADER SRCB
		111.		SRCBDSH	"X'E0'" DATA SET HEADER SRCB
		11.1		SRCBJT	"X'D0'" JOB TRAILER SRCB

Comment

Reason code equates for HASP896 message issued on failures during DAS verification in NGVWORKQ routine.

End of Comment

		1		WORKQ01	"X'01'" DASVOLID zero
		.... ..1.		WORKQ02	"X'02'" DASVOLID, RCDVOLID mismatch
		11		WORKQ03	"X'03'" Volume wrongly on workq?
		.... .1..		WORKQ04	"X'04'" DASFLAG, transltd. mismatch
		.... .1.1		WORKQ05	"X'05'" TRT ok, DASFLAG2 drn/hlt
		...1 ...1		WORKQ11	"X'11'" DAS, RECY flag1 mismatch
		...1 ..1.		WORKQ12	"X'12'" DAS, RECY flag2 mismatch
		...1 ..11		WORKQ13	"X'13'" DAS, RECY flag3 mismatch
		...1 .1..		WORKQ14	"X'14'" DAS, RECY flag4 mismatch
		...1 .1.1		WORKQ15	"X'15'" DAS, RECY flag5 mismatch
		...1 .11.		WORKQ16	"X'16'" DAS, RECY flag6 mismatch
		...1 .111		WORKQ17	"X'17'" DAS, RECY flag7 mismatch

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
		...1 1...		WORKQ18	"X'18'" DAS, RECY flag8 mismatch
		...1 1.1.		WORKQ1A	"X'1A'" DAS, RECY flagA mismatch
		..1. ...1		WORKQ21	"X'21'" DASALOCS, RCDALOCS not equ
		..1. ..1.		WORKQ22	"X'22'" DONE mask not correct on a starting volume
		..1. ..11		WORKQ23	"X'23'" DONE mask not correct on a draining/halting volume
		..1. .1..		WORKQ24	"X'24'" DASERCDE>0,DASERROR=0 mismt
		..1. .1.1		WORKQ25	"X'25'" DASERCDE=0,DASERROR>0 mismt
		..1. .11.		WORKQ26	"X'26'" DASERCDE for member = 0
		..1. .111		WORKQ27	"X'27'" DASERCDE for member > max
		..1. 1...		WORKQ28	"X'28'" DASERCDE for member > 0

Comment

Reason code equates for HASP896 message issued on failures during DAS verification in NGVTRAKQ routine.

End of Comment

		.1.. ...1	TRAKQ41	"X'41'" DASVOLID zero
		.1.. ..1.	TRAKQ42	"X'42'" DASVOLID, RCDVOLID mismatch
		.1.. ..11	TRAKQ43	"X'43'" DAS not marked as in TGM
		.1.. .1..	TRAKQ44	"X'44'" DASALOCS, RCDALOCS mismatch
		.1.. .1.1	TRAKQ45	"X'45'" Mapped vol, membr allocated
		.1.. .11.	TRAKQ46	"X'46'" Unallocated membr not inact
		.1.. .111	TRAKQ47	"X'47'" DASFLAG, transltd. mismatch
		.1.. 1...	TRAKQ48	"X'48'" No status flags set on active volume
		.1.. 1..1	TRAKQ49	"X'49'" No status flags set on inactive volume
		.1.. 1.1.	TRAKQ4A	"X'4A'" Draining and halting volume
		.1.1 ...1	TRAKQ51	"X'51'" DAS, RECY flag1 mismatch
		.1.1 ..1.	TRAKQ52	"X'52'" DAS, RECY flag2 mismatch
		.1.1 ..11	TRAKQ53	"X'53'" DAS, RECY flag3 mismatch
		.1.1 .1..	TRAKQ54	"X'54'" DAS, RECY flag4 mismatch
		.1.1 .1.1	TRAKQ55	"X'55'" DAS, RECY flag5 mismatch
		.1.1 .11.	TRAKQ56	"X'56'" DAS, RECY flag6 mismatch
		.1.1 .111	TRAKQ57	"X'57'" DAS, RECY flag7 mismatch
		.1.1 1...	TRAKQ58	"X'58'" DAS, RECY flag8 mismatch
		.1.1 1.1.	TRAKQ5A	"X'5A'" DAS, RECY flagA mismatch
		.11. ...1	TRAKQ61	"X'61'" DASERCDE>0,DASERROR=0 mismt
		.11. ..1.	TRAKQ62	"X'62'" DASERCDE=0,DASERROR>0 mismt
		.11. ..11	TRAKQ63	"X'63'" DASERCDE for member = 0
		.11. .1..	TRAKQ64	"X'64'" DASERCDE for member > max
		.11. .1.1	TRAKQ65	"X'65'" DASERCDE for member > 0

Comment

Reason code equates for HASP896 message issued on failures during DAS verification in NGVEXTD routine.

End of Comment

		1... ...1	EXTDQ81	"X'81'" Recs/track mismatch
		1... ..1.	EXTDQ82	"X'82'" Min tcelsiz mismatch
		1... ..11	EXTDQ83	"X'83'" TG size mismatch
		1... .1..	EXTDQ84	"X'84'" Trk/cyl value mismatch
		1... .1.1	EXTDQ85	"X'85'" Trk/grp value mismatch
		1... .11.	EXTDQ86	"X'86'" TGM offset mismatch
		1... .111	EXTDQ87	"X'87'" First track mismatch
		1... 1...	EXTDQ88	"X'88'" Low track mismatch
		1... 1..1	EXTDQ89	"X'89'" High track mismatch
		1... 1.1.	EXTDQ8A	"X'8A'" TG value mismatch
		1... 1.11	EXTDQ8B	"X'8B'" DASMPSZ value mismatch
		1... 11..	EXTDQ8C	"X'8C'" Large DS TG value
		1... 11.1	EXTDQ8D	"X'8D'" Lrg ds DASMPSZ val mismatch
		1..1 ...1	EXTDQ91	"X'91'" Offline volume error

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
		Comment			
		MISCELLANEOUS EQUATES			
		End of Comment			
0	(0)	X'7FFF'	0	MAXLRECL	"32767" Max logical record length
		1...		SRCBFLAG	"B'10000000'" FLAG BIT ALWAYS ON IN SRCB'S
		..11		SRCBCCTL	"B'00110000'" CARRIAGE CONTROL FLAGS
		..11		SRCBPAGE	"B'00110000'" PAGE CARRIAGR CONTROL FLAG
		..1.		SRCBANSI	"B'00100000'" ANSI CARRIAGE CONTROL
		...1		SRCBMCH	"B'00010000'" MACHINE CARRIAGE CONTROL
0	(0)	X'A0'	0	REGANSI	"SRCBFLAG+SRCBANSI" ANSI CARRIAGE CONTROL SRCB
		.... 11..		SRCBSPAN	"B'00001100'" SPANNED RECORD
		.... 1...		SRCB1ST	"B'00001000'" SPANNED FIRST SEGMENT
		.... .1..		SRCBMID	"B'00000100'" SPANNED MIDDLE SEGMENT
		.... 11..		SRCBLAST	"B'00001100'" SPANNED LAST SEGMENT
0	(0)	X'88'	0	SPAN1ST	"SRCBFLAG+SRCB1ST" SPANNED FIRST SEGMENT SRCB
0	(0)	X'84'	0	SPANMID	"SRCBFLAG+SRCBMID" SPANNED MIDDLE SEGMENT SRCB
0	(0)	X'8C'	0	SPANLAST	"SRCBFLAG+SRCBLAST" SPANNED LAST SEGMENT SRCB
0	(0)	X'3C'	0	XEQPHFWT	"60,4" Time that $PJES2 will wait until 1st HASP714 issued
0	(0)	X'1E'	0	XEQPHIWT	"30,4" Time that $PJES2 will wait between HASP714s
0	(0)	X'78'	0	XEQPHDWT	"120,4" Time that $PJES2 will wait before taking dump if no progress in AS termination
		Comment			
		DILBERT Settings			
		End of Comment			
		1		$DILINDR	"X'0001'" Dilbert routine called indirectly i.e. DWA processed "later"
		Comment			
		Equates for the system affinity token			
		End of Comment			
0	(0)	X'0'	0	$AFTMASK	"0,1" One byte portion of entire system affinity mask
0	(0)	X'1'	0	$AFTOFF	"1,2" Offset within complete mask of the one byte portion
0	(0)	X'3'	0	$AFTOKEN	"L'$AFTMASK+L'$AFTOFF" Length of a sysaff token
		Comment			
		Equates for IXLCONN error processing These equates are referenced in CFALOC (where they are set when the error conditions are detected) and in PRE536 (to convert the bit setting into more meaningful text).			
		End of Comment			
0	(0)	BITSTRING	0	$CONER01	"B'100000000000000000000000'"
0	(0)	BITSTRING	0	$CONER02	"B'010000000000000000000000'"
0	(0)	BITSTRING	0	$CONER03	"B'001000000000000000000000'"
0	(0)	BITSTRING	0	$CONER04	"B'000100000000000000000000'"
0	(0)	BITSTRING	0	$CONER05	"B'000010000000000000000000'"
0	(0)	BITSTRING	0	$CONER06	"B'000001000000000000000000'"
0	(0)	BITSTRING	0	$CONER07	"B'000000100000000000000000'"
0	(0)	BITSTRING	0	$CONER08	"B'000000010000000000000000'"
0	(0)	BITSTRING	0	$CONER09	"B'000000001000000000000000'"
0	(0)	BITSTRING	0	$CONER10	"B'000000000100000000000000'"
0	(0)	BITSTRING	0	$CONER11	"B'000000000010000000000000'"
0	(0)	BITSTRING	0	$CONER12	"B'000000000001000000000000'"

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	BITSTRING	0	$CONER13	"B'00000000000000100000000000'"
0	(0)	BITSTRING	0	$CONER14	"B'00000000000000010000000000'"
				Comment	
				Equates for $SPIN reasons	
				End of Comment	
0	(0)	X'0'	0	$SPIN_OPERATOR	"0" Operator requested SPIN
0	(0)	X'4'	0	$SPIN_TIME	"4" Time threshold reached
0	(0)	X'8'	0	$SPIN_LINES	"8" Line threshold reached
0	(0)	X'C'	0	$SPIN_SEGMENT	"12" SEGMENT= reached
				Comment	
				NJE defaults	
				End of Comment	
0	(0)	X'AF'	0	$NJETCP_PORT	"175" Well-known port for VMNET
0	(0)	X'8CC'	0	$NJETCP_PORT_SSL	"2252" Well-known port for NJENET-SSL with secure sockets
				Comment	
				Equates for PLX Dynamic area CPOOLs	
				End of Comment	
0	(0)	X'14'	0	$PLXPCEL	"20" Primary cell count
0	(0)	X'14'	0	$PLXSCEL	"20" Secondary cell count
				Comment	
				General equates	
				End of Comment	
0	(0)	X'4'	0	$MTTRLEN	"4" Size of an MTTR
0	(0)	X'6'	0	$MQTRLEN	"6" Size of an MQTR
				Comment	
				JECL validity Equates. Each JECL verb (e.g. OUTPUT, JOBPARM, ROUTE) and a subset of the operands for some of the verbs will have equates here. The value of each equate will be 0-255. These equates will be used to index into a $JECMAX byte vector. The values at the point in the vector will be used to determine if the verb (or operand) is valid in its context. The name of each equate will be in the form: $JECvvoo where vv is the verb (see examples below) and oo is the operand for that verb Make sure that $JECMAX is always at least one greater than the highest index defined.	
				End of Comment	
0	(0)	X'0'	0	$JECDE	"0" DEL
0	(0)	X'1'	0	$JECEO	"1" EOF
0	(0)	X'2'	0	$JECPU	"2" PURGE
0	(0)	X'3'	0	$JECJP	"3" JOBPARM
0	(0)	X'4'	0	$JECMS	"4" MESSAGE

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	X'5'	0	$JECNA	"5" NETACCT
0	(0)	X'6'	0	$JECNO	"6" NOTIFY
0	(0)	X'7'	0	$JECOU	"7" OUTPUT
0	(0)	X'8'	0	$JECPR	"8" PRIORITY
0	(0)	X'9'	0	$JECRO	"9" ROUTE
0	(0)	X'A'	0	$JECSC	"10" SCAN
0	(0)	X'B'	0	$JECSE	"11" SETUP
0	(0)	X'C'	0	$JECXQ	"12" XEQ
0	(0)	X'D'	0	$JECXM	"13" XMIT
0	(0)	X'E'	0	$JECNV	"14" Invalid JECL Statement
0	(0)	X'F'	0	$JECOC	"15" $ (operator command)

Comment

JOBPARM operands

End of Comment

0	(0)	X'1E'	0	$JECJPSA	"30" SYSAFF
0	(0)	X'1F'	0	$JECJPRE	"31" RESTART

Comment

ROUTE operands

End of Comment

0	(0)	X'C'	0	$JECROXQ	"$JECXQ" ROUTE XEQ equiv to XEQ

Comment

Update $JECMAX if the maximum index value changes.
$JECMAX is one greater than the maximum index.

End of Comment

0	(0)	X'20'	0	$JECMAX	"32" Maximum index value

Comment

Use the following equates in the vector elements
to indicate whether a particular verb or operand
is allowed (i.e. is "OK").

End of Comment

0	(0)	X'0'	0	$JECOK	"0" Verb or Operand is OK
0	(0)	X'4'	0	$JECNOK	"4" Verb or Operand is not OK

Comment

The following equates define offsets into the
header area of the parameter list for the IPADDR
processing routine HASJIDST in HASCSJFS.

End of Comment

0	(0)	X'0'	0	IPOUTLEN	"0,2" Offset of output area len
0	(0)	X'2'	0	IPCALLER	"2,2" Offset of caller type
0	(0)	X'4'	0	IPWJOA	"4,4" Offset of JOA address
0	(0)	X'4'	0	IPNODE	"IPWJOA,8" Offset of input node name

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	X'4'	0	IPRETC	"IPWJOA,4" Offset of return code
0	(0)	X'C'	0	$IPUSER	"12,8" Offset of input userid
0	(0)	X'14'	0	IPEYE	"20,4" Offset of eye-catcher
0	(0)	X'18'	0	IPTUOUT	"24" Offset of TU output area

Comment

Checkpoint-related equates.
$PRWTHSH and $PRWRATE are used by the KPRIMW
routine in HASPCKPT to determine when a primary
write is needed. The lower value ($PRWTHSH) is
used after the READ2 phase, while the higher value
($PRWRATE) is used at all other times. The
intent of the lower limit is to force a primary
write at the beginning of the checkpoint cycle
if we are getting close to the actual write limit,
rather than waiting until we are in the middle
of the checkpoint cycle.

End of Comment

0	(0)	X'8'	0	$PRWTHSH	"8" READ2 primary write threshold
0	(0)	X'A'	0	$PRWRATE	"10" Primary write limit

Comment

$MAX_MSTR_SIZE defines max size of a checkpoint
master record for this release.
(Actual size is a bit over 80 pages, but 96 pages
is a nice round number - x'60' hex.) See PL/X
constant $MAX_MSTR_SIZE in $HASPEQP and
Ckpt_MAX_LIST0_Pages in $CFCON.
To determine max size of master record, cold start
JES2 with SPOOLDEF SPOOLNUM=253. Then take
((CKWMAXRC $CTLBLEN) + ($CTLB-$MASTER) +4095)/ 4096
The result is the number of 4K pages to hold the
max size master record.

End of Comment

0	(0)	X'60000'	0	$MAX_MSTR_SIZE	"(96*4096)" Max master record size

Comment

Job Correlator length equate

End of Comment

0	(0)	X'40'	0	$JCORLEN	"64" Length of Job Correlator

Comment

JES2 release management Equates
In order to manage the Homogeneity/Heterogeneity
of a JESplex, it is required that each JES2
deliverable (beginning with SP 5.1.0) have a
non-zero monotonic increasing association. Each
new combination of VRM (Version Release
Modification) will have an equated value here.

End of Comment

0	(0)	X'5'	0	$JES2510	"5" JES2 SP 5.1.0

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	X'A'	0	$JES2520	"10" JES2 SP 5.2.0
0	(0)	X'F'	0	$JES2110	"15" JES2 OS/390 release 1
0	(0)	X'14'	0	$JES2130	"20" JES2 OS/390 release 3
0	(0)	X'19'	0	$JES2240	"25" JES2 OS/390 release 4
0	(0)	X'1E'	0	$JES2250	"30" JES2 OS/390 release 5
0	(0)	X'23'	0	$JES2270	"35" JES2 OS/390 release 7
0	(0)	X'28'	0	$JES2280	"40" JES2 OS/390 release 8
0	(0)	X'2D'	0	$JES2210	"45" JES2 OS/390 release 10
0	(0)	X'32'	0	$JES2Z102	"50" JES2 z/OS 1.2
0	(0)	X'37'	0	$JES2Z104	"55" JES2 z/OS 1.4
0	(0)	X'3C'	0	$JES2Z105	"60" JES2 z/OS 1.5
0	(0)	X'41'	0	$JES2Z107	"65" JES2 z/OS 1.7
0	(0)	X'46'	0	$JES2Z108	"70" JES2 z/OS 1.8
0	(0)	X'49'	0	$JES2Z109	"73" JES2 z/OS 1.9
0	(0)	X'4C'	0	$JES2Z110	"76" JES2 z/OS 1.10
0	(0)	X'4F'	0	$JES2Z111	"79" JES2 z/OS 1.11
0	(0)	X'52'	0	$JES2Z112	"82" JES2 z/OS 1.12
0	(0)	X'55'	0	$JES2Z113	"85" JES2 z/OS 1.13
0	(0)	X'58'	0	$JES2Z201	"88" JES2 z/OS 2.1
0	(0)	X'58'	0	$JES2HI	"$JES2Z201" The highest compatible JES2 version

Comment

```
JES2 product level / service level equates
All product levels supported in multi-access spool
with this release MUST have a $J2Pxxx equate
defined. When a release is no longer supported
in a MAS, its $J2Pxxx equate should be deleted
so that obsolete $LEVEL invocations can be
identified.
These equates must be equal to the &J2PLVL
global variable at that release level as defined
in $MODULE/$HASPGBL.
Releases that can not live with the current level
in a MAS
  Dropped as of OS/390 Release 10
J2P510 EQU 24 JES2 SP 5.1.0
J2P520 EQU 25 JES2 SP 5.2.0
J2P110 EQU 26 JES2 OS/390 release 1
J2P130 EQU 27 JES2 OS/390 release 3
    Dropped as of z/OS 1.2
J2P240 EQU 28 JES2 OS/390 release 4
```

End of Comment

0	(0)	X'1D'	0	$J2P250	"29" JES2 OS/390 release 5

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
		Comment			
		Dropped as of z/OS 1.4			
		J2P270 EQU 30 JES2 OS/390 release 7			
		Dropped as of z/OS 1.5			
		J2P280 EQU 31 JES2 OS/390 release 8			
		Dropped as of z/OS 1.7			
		J2P210 EQU 32 JES2 OS/390 release 10			
		Dropped as of z/OS 1.8			
		J2PZ102 EQU 33 JES2 z/OS 1.2			
		Dropped as of z/OS 1.9			
		J2PZ104 EQU 34 JES2 z/OS 1.4			
		Dropped as of z/OS 1.11			
		J2PZ105 EQU 35 JES2 z/OS 1.5			
		J2PZ107 EQU 36 JES2 z/OS 1.7			
		J2PZ108 EQU 37 JES2 z/OS 1.8			
		Dropped as of z/OS 1.12			
		J2PZ109 EQU 38 JES2 z/OS 1.9			
		End of Comment			
0	(0)	X'27'	0	$J2PZ110	"39" JES2 z/OS 1.10
0	(0)	X'28'	0	$J2PZ111	"40" JES2 z/OS 1.11
0	(0)	X'29'	0	$J2PZ112	"41" JES2 z/OS 1.12
0	(0)	X'2A'	0	$J2PZ113	"42" JES2 z/OS 1.13
0	(0)	X'2B'	0	$J2PZ201	"43" JES2 z/OS 2.1

$HASPEQU Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
$AFTMASK	0	0	$CKPSPVL	0	40
$AFTOFF	0	1	$CKPTRSV	0	1
$AFTOKEN	0	3	$CKPTW	0	10
$AIDNDEF	0	C	$CKPUNK	0	40
$AIDNVAL	0	10	$CKRCKP1	0	20
$AIDOK	0	0	$CKRCKP2	0	8
$AIDUSED	0	4	$CKRDEL	0	80
$AIDUTRK	0	8	$CKRIOE	0	2
$ALMSGSW	0	40	$CKRNDEL	0	40
$AUDDEL	0	C	$CKRNIOE	0	1
$AUDINER	0	14	$CKRNKP1	0	10
$AUDIO	0	4	$CKRNKP2	0	4
$AUDLOST	0	8	$CKRNSTR	0	40
$AUDMOVE	0	10	$CKRNTOP	0	40
$AUDSUB	0	18	$CKRSTRT	0	80
$BDYNATT	0	80	$CKRTOP	0	80
$BDYNDET	0	40	$CMBDEF	0	64
$CF1R004	0	4	$CMDDYNA	0	1
$CF1R008	0	8	$CMDNORM	0	0
$CF1R012	0	C	$CMDNUM	0	2
$CF1R036	0	24	$COLD	0	4
$CHECINH	0	80	$COLDFMT	0	1
$CHECNWA	0	40	$CONER01	0	800000
$CHECPST	0	20	$CONER02	0	400000
$CKADEF	0	20	$CONER03	0	200000
$CKANEW	0	40	$CONER04	0	100000
$CKAOLD	0	80	$CONER05	0	80000
$CKPAMWS	0	80	$CONER06	0	40000
$CKPBLDQ	0	2	$CONER07	0	20000
$CKPDAMG	0	8	$CONER08	0	10000
$CKPGDEF	0	64	$CONER09	0	8000
$CKPLOKB	0	20	$CONER10	0	4000
$CKPPOST	0	80	$CONER11	0	2000

Name	Hex Offset	Hex Value
$CONER12	0	1000
$CONER13	0	800
$CONER14	0	400
$CONFIG	0	10
$CPNHBMX	0	190
$CPRIMXT	0	C8
$CSBID	0	0
$CSBPRFX	0	8
$CSBSPLN	0	4
$CS2PRFX	0	10
$DBGBERT	0	80
$DBGCKPT	0	40
$DBGMISC	0	4
$DBGSAF	0	1
$DBGSTRG	0	8
$DBGSYMR	0	2
$DBGVERB	0	10
$DBGVERS	0	20
$DBGXCFS	0	80
$DDYNATT	0	80
$DDYNFND	0	40
$DILINDR	0	1
$DRABIT	0	1
$DRAINED	0	20
$DRALICE	0	2B
$DRALOC	0	2
$DRARMS	0	20
$DRBERTL	0	27
$DRBERTW	0	26
$DRBREG	0	28
$DRBUF	0	4
$DRCCAN	0	24
$DRCKPT	0	A
$DRCKPTL	0	C
$DRCKPTP	0	B
$DRCKPTW	0	D
$DRCMB	0	E
$DRCNVT	0	16
$DRDAWN	0	2E
$DRDILBERT	0	29
$DREOM	0	2C
$DRFSS	0	12
$DRGENL	0	1C
$DRHOMOG	0	21
$DRHOPE	0	17
$DRIMAGE	0	3
$DRIRCLEAN	0	2D
$DRJCMD	0	1E
$DRJOB	0	8
$DRJOE	0	6
$DRJOEI	0	2F
$DRJOT	0	5
$DRLOCK	0	10
$DRMAIN	0	11
$DRMFMT	0	23
$DRMLLM	0	0
$DRNEWS	0	1B
$DRPCETM	0	18
$DRPROCLIB	0	22
$DRPSO	0	13
$DRPURGE	0	14
$DRQUEL	0	8
$DRRMWT	0	19
$DRSMF	0	F
$DRSPI	0	25
$DRSPIN	0	1D
$DRSTAC	0	1A
$DRTIPS	0	15
$DRTOTAL	0	40
$DRTRACK	0	7
$DRUNIT	0	9
$DRWARM	0	1F
$DRXMITJOB	0	2A
$DTEPARM	0	80
$DTEPECB	0	40
$DTEPXCB	0	20
$DYNLOCF	0	1708
$DYNNEW	0	4
$ENFPPOL	0	F1
$ENTCADR	0	10
$ENTNAME	0	8
$ENTSDSC	0	10
$ENTSEXL	0	3A
$ENTSFG1	0	39
$ENTSNAM	0	8
$ENTSNUM	0	38
$ENTS1AU	0	80
$ENTYLEN	0	27
$EQUHBIT	0	80
$ERRCDE	0	0
$ERRC000	0	0
$ERRC004	0	4
$ERRC008	0	8
$ERRC012	0	C
$ERRC016	0	10
$ERRC028	0	1C
$ERRC032	0	20
$ERRC036	0	24
$ERRC040	0	28
$ERRC076	0	4C
$ERRC080	0	50
$ERRC084	0	54
$ERRC088	0	58
$ERRC092	0	5C
$ERRC096	0	60
$ERRC100	0	64
$ERRC104	0	68
$ERRC108	0	6C
$ERRC112	0	70
$ERRC116	0	74
$ERRC120	0	78
$ERRC124	0	7C
$ERRC128	0	80
$ERRC132	0	84
$ERRC136	0	88
$ERRC140	0	8C
$ERRC144	0	90
$ERRC148	0	94
$ERRC152	0	98
$ERRC156	0	9C
$ERRC160	0	A0
$ERRC164	0	A4
$ERRC168	0	A8
$ERRC172	0	AC
$ERRC176	0	B0
$ERRC180	0	B4
$ERRC184	0	B8
$ERRC188	0	BC
$ERRC192	0	C0
$ERRC196	0	C4

Name	Hex Offset	Hex Value
$ERRC200	0	C8
$ERRC204	0	CC
$ERRC212	0	D4
$ERRC216	0	D8
$ERRC224	0	E0
$ERRC228	0	E4
$ERRC232	0	E8
$ERRC236	0	EC
$ERRC240	0	F0
$ERRC244	0	F4
$ERRC248	0	F8
$ERRC252	0	FC
$ERRC256	0	100
$ERRC260	0	104
$ERRC264	0	108
$ERRC268	0	10C
$ERRC272	0	110
$ERRC276	0	114
$ERRC280	0	118
$ERRC284	0	11C
$ERRC288	0	120
$ERRC292	0	124
$ERRC296	0	128
$ERRC300	0	12C
$ERRC304	0	130
$ERRC308	0	134
$ERRC316	0	13C
$ERRC320	0	140
$ERRC324	0	144
$ERRC328	0	148
$ERRC332	0	14C
$ERRC336	0	150
$ERRC340	0	154
$ERRC344	0	158
$ERRC348	0	15C
$ERRC352	0	160
$ERRC356	0	164
$ERRC360	0	168
$ERRC364	0	16C
$ERRC368	0	170
$ERRC372	0	174
$ERRC376	0	178
$ERRC380	0	17C
$ERRC384	0	180
$ERRC388	0	184
$ERRC392	0	188
$ERRC396	0	18C
$ERRC400	0	190
$ERRC404	0	194
$ERRC408	0	198
$ERRC412	0	19C
$ERRC416	0	1A0
$ERRC420	0	1A4
$ERRC424	0	1A8
$ERRENTY	0	2E
$ERRTEXT	0	4
$ESYS	0	8
$EWFHOLD	0	8
$EWFIO	0	20
$EWFOPER	0	40
$EWFPOST	0	80
$EWFWORK	0	10
$EXCPMT	0	20
$EXCPVR	0	80
$EXCPWT	0	40
$EXTPCLO	0	3
$EXTPGET	0	1
$EXTPNCL	0	4
$EXTPOPE	0	0
$EXTPPUT	0	2
$EXTPREA	0	5
$EXTPWRI	0	6
$FBUFMLT	0	80
$FCMBCNT	0	80
$GBUFWT	0	80
$GHPFIX	0	80
$GHPPRFX	0	8
$GSMFBLG	0	40
$GSMFBWT	0	80
$GTCHNNO	0	40
$GTCOUNT	0	1
$GTHAVNO	0	80
$GTIOTYS	0	20
$GTNET	0	10
$GTNOSAF	0	2
$GTOPTIM	0	80
$GTPARML	0	4
$GTSKJPP	0	4
$GTSKJPS	0	2
$GTSKWSR	0	1
$GTWKCND	0	80
$GTWKLOC	0	20
$GTWKRO	0	10
$GTWKWAT	0	40
$GTWRKSL	0	8
$GTWSP	0	4
$HASPEQU	0	
$HOT	0	40
$HOURPLUS	0	E4C
$ILPFLG1	0	1
$ILPFLG2	0	2
$ILPFLG3	0	3
$ILPSIZE	0	0
$INDMODE	0	8
$IOTRBGN	0	3E8
$IOTRLMT	0	5
$IPUSER	0	C
$JCORLEN	0	40
$JCXLOCL	0	8000
$JECDE	0	0
$JECEO	0	1
$JECJP	0	3
$JECJPRE	0	1F
$JECJPSA	0	1E
$JECMAX	0	20
$JECMS	0	4
$JECNA	0	5
$JECNO	0	6
$JECNOK	0	4
$JECNV	0	E
$JECOC	0	F
$JECOK	0	0
$JECOU	0	7
$JECPR	0	8
$JECPU	0	2
$JECRO	0	9
$JECROXQ	0	C
$JECSC	0	A
$JECSE	0	B
$JECXM	0	D

Name	Hex Offset	Hex Value
$JECXQ	0	C
$JES2HI	0	58
$JES2Z102	0	32
$JES2Z104	0	37
$JES2Z105	0	3C
$JES2Z107	0	41
$JES2Z108	0	46
$JES2Z109	0	49
$JES2Z110	0	4C
$JES2Z111	0	4F
$JES2Z112	0	52
$JES2Z113	0	55
$JES2Z201	0	58
$JES2110	0	F
$JES2130	0	14
$JES2210	0	2D
$JES2240	0	19
$JES2250	0	1E
$JES2270	0	23
$JES2280	0	28
$JES2510	0	5
$JES2520	0	A
$JEXTFRE	0	80
$JEXTLEN	0	2
$JEXTMAX	0	7FFF
$JEXTTGN	0	0
$JIXFOMT	0	10
$JIXFREE	0	40
$JIXGET	0	80
$JIXSWAP	0	20
$JIXVERI	0	8
$JIXWNO	0	0
$JIXWYES	0	1
$JMPREDO	0	32
$JQEDEF	0	3E8
$JSRBERT	0	8000
$JSRFLGS	0	7F
$JSRFREE	0	400
$JSRGSPL	0	4000
$JSRJQA	0	800
$JSRMJPL	0	80
$JSRRWAT	0	2000
$JSRSTC	0	100
$JSRTADD	0	1
$JSRTCAN	0	7
$JSRTCKP	0	2
$JSRTFRE	0	6
$JSRTMDJ	0	9
$JSRTMOD	0	3
$JSRTOBT	0	5
$JSRTQRY	0	8
$JSRTREM	0	4
$JSRTSU	0	200
$JSRWAIT	0	1000
$JWEBULK	0	40
$JWECRTM	0	4
$JWEDVID	0	C
$JWEFLAG	0	F
$JWEFLG1	0	0
$JWELEN	0	10
$JWELONG	0	80
$JWENUM	0	4
$JWEPTR	0	0
$JWETBLL	0	8
$JW1NCLR	0	80
$J2PZ110	0	27
$J2PZ111	0	28
$J2PZ112	0	29
$J2PZ113	0	2A
$J2PZ201	0	2B
$J2P250	0	1D
$KCPMI2M	0	0
$KCPM2MI	0	1
$LABAL	0	40
$LABAUL	0	48
$LABBLP	0	10
$LABNL	0	1
$LABNSL	0	4
$LABSL	0	2
$LABSUL	0	A
$LRGSMFB	0	8000
$LVALONE	0	80
$L01R004	0	4
$MAX_MSTR_SIZE	0	60000
$MAXACCT	0	8F
$MAXBERT	0	F4240
$MAXBERT_Z2	0	7A120
$MAXBSC	0	270F
$MAXBUF	0	7D0
$MAXBUFX	0	270F
$MAXCLSZ	0	8
$MAXCMB	0	270F
$MAXCMDB	0	270F
$MAXCMPT	0	63
$MAXCNVT	0	19
$MAXCPLN	0	7FFF
$MAXCPPG	0	7FFF
$MAXCPTM	0	7FFF
$MAXCYL	0	1111
$MAXDA	0	FD
$MAXDISP	0	98967F
$MAXDSKY	0	FFFFFF
$MAXESIZ	0	4E20
$MAXFORM	0	8
$MAXFSGN	0	FFFFFF
$MAXICES	0	7FFF
$MAXINIT	0	270F
$MAXIPLN	0	7F
$MAXJDEF	0	270F
$MAXJNUM	0	F423F
$MAXJOEP	0	14
$MAXJOID	0	F5E0FF
$MAXLCK	0	8
$MAXLCYL	0	11111
$MAXLNES	0	FFFF
$MAXLOGS	0	3E7
$MAXLTRV	0	FFFFF
$MAXNHB	0	270F
$MAXNJEQ	0	7
$MAXNJQE	0	61A80
$MAXNJQE_Z2	0	30D40
$MAXNMSG	0	C8
$MAXNODE	0	7FFF
$MAXNPRO	0	E10
$MAXOFFS	0	8
$MAXOUT	0	19
$MAXPATH	0	8
$MAXPPBF	0	1F4
$MAXPRDV	0	8

Name	Hex Offset	Hex Value
$MAXPRMD	0	FF
$MAXPRTS	0	7FFF
$MAXPSO	0	A
$MAXPUNS	0	63
$MAXPURG	0	19
$MAXRCLN	0	12
$MAXRDRS	0	63
$MAXRJE	0	7FFF
$MAXROUT	0	7FFF
$MAXRST	0	7D0
$MAXSAFL	0	80
$MAXSJFR	0	1F4
$MAXSNML	0	4
$MAXSPIN	0	A
$MAXSRVS	0	3E7
$MAXSSZZ	0	1E
$MAXSTAC	0	A
$MAXSYS	0	20
$MAXSYSN	0	20
$MAXTGBE	0	FF
$MAXTGS	0	E81200
$MAXTGS_Z2	0	FD0240
$MAXTGV	0	20000
$MAXTINT	0	1F4
$MAXTLOG	0	FFFFFF
$MAXTRC	0	BB8
$MAXTRV	0	FFFF
$MAXVRSN	0	32
$MAXVTAM	0	270F
$MAXWCLS	0	8
$MG0C001	0	1
$MG0C002	0	2
$MG0C003	0	3
$MG0C004	0	4
$MG0C005	0	5
$MG0C006	0	6
$MG0C007	0	7
$MG0C008	0	8
$MG0C009	0	9
$MG0C010	0	A
$MG1C011	0	B
$MG1C012	0	C
$MINBERT	0	64
$MINBSC	0	A
$MINBUF	0	A
$MINBUFX	0	A
$MINCMB	0	4
$MINCMDB	0	4
$MINJDEF	0	1
$MINNHB	0	A
$MINTINT	0	F
$MINVTAM	0	A
$MLDIRL	0	20
$MLDLPA	0	10
$MLJ2MOD	0	40
$MLMSGI	0	8
$MLMSGS	0	4
$MLMSGY	0	80
$MLREPL	0	2
$MLREPLC	0	1
$MQTRLEN	0	6
$MSGPFXL	0	2
$MTTRLEN	0	4
$MVSIPL	0	2
$MWORKSZ	0	120
$MXCKPCT	0	63
$MXSYSBY	0	4
$M064DAD	0	10
$M064IBE	0	80
$M064MIG	0	8
$M064NIB	0	40
$M064RD	0	4
$M064SNS	0	20
$M064WRT	0	2
$M068DEV	0	80
$M068LDV	0	20
$M068NDV	0	40
$M120INR	0	40
$M120OTH	0	80
$M260CLD	0	80
$M260NCL	0	40
$M281ALL	0	80
$M281SOM	0	40
$M291CC1	0	80
$M291CC2	0	40
$M291NCW	0	20
$M291SNS	0	10
$M416LNG	0	80
$M416SHR	0	40
$M443ATT	0	80
$M443LEV	0	20
$M443NUM	0	40
$M445CKP	0	C
$M445CL8	0	18
$M445DSN	0	14
$M445MIG	0	10
$M445OTH	0	8
$M458CK1	0	80
$M458CK2	0	40
$M478CK1	0	80
$M478CK2	0	40
$M479INT	0	20
$M479IO	0	80
$M479SID	0	40
$M479VAL	0	10
$M539CLS	0	40
$M539GRP	0	80
$M565CON	0	40
$M565LNE	0	80
$M568APT	0	40
$M568LGN	0	8
$M568LIN	0	4
$M568NIT	0	80
$M568NSV	0	10
$M568SCK	0	20
$M867GOO	0	40
$M867MON	0	20
$M867MSR	0	8
$M867MTR	0	10
$M867NOR	0	80
$NJETCP_PORT	0	AF
$NJETCP_PORT_SSL	0	8CC
$NPMDOWN	0	2
$NPRICHG	0	20
$NPRODEF	0	12C
$NTNNODE	0	0
$NTNONDE	0	10
$NTNOTUS	0	8
$NTNOUSR	0	18

Name	Hex Offset	Hex Value
$NTPARML	0	0
$ODANY	0	F
$ODANYWP	0	1F
$ODHOLD	0	4
$ODKEEP	0	2
$ODLEAVE	0	1
$ODPURGE	0	10
$ODWRITE	0	8
$PBLKCTR	0	40
$PBLKSLT	0	80
$PBUFLIM	0	3E8
$PDYNALT	0	10
$PDYNAT	0	80
$PDYNDCT	0	2
$PDYNDT	0	40
$PDYNDTT	0	20
$PDYNPCE	0	8
$PDYNTAB	0	4
$PGESIZE	0	1000
$PGSFIX	0	40
$PGSFREE	0	20
$PGSPRO	0	8
$PGSRPSL	0	10
$PGSRVRL	0	80
$PGSUPRO	0	4
$PLXPCEL	0	14
$PLXSCEL	0	14
$PPVERIU	0	10
$PRWRATE	0	A
$PRWTHSH	0	8
$PSTJOE	0	0
$PSTJQE	0	4
$PSTKEPJ	0	40
$PSTMASP	0	80
$PSTMSG	0	C
$PSTNSPN	0	20
$PSTXMIT	0	8
$QADJQA	0	8
$QGTINWS	0	20
$QGTLST	0	40
$QGTLSTC	0	80
$QGTWLMQ	0	10
$QINDXL	0	100
$QMDHJCT	0	2
$QMDKEEP	0	10
$QMDNX51	0	4
$QMDOVAL	0	1
$QSNPCHG	0	40
$QSONDA	0	80
$QUICK	0	20
$QWALEN	0	1A4
$REMKPJQ	0	10
$REMLOCK	0	20
$REMPURG	0	80
$ROTDNUM	0	7D0
$ROTONUM	0	7D0
$ROTQNUM	0	7D0
$RRTJOB	0	80
$RRTSQD	0	20
$SCACMDS	0	C
$SCACTCM	0	1B
$SCCCMDS	0	14
$SCCOCMD	0	16
$SCDCMDS	0	4
$SCDDIAL	0	9
$SCDOCMD	0	6
$SCECMDA	0	10
$SCECMDS	0	B
$SCHCMDS	0	12
$SCIDIAL	0	E
$SCIRPL	0	2
$SCIRPLC	0	3
$SCLCMDS	0	1A
$SCLOCMD	0	19
$SCLTCMD	0	F
$SCMGCMD	0	1D
$SCNCLN	0	8
$SCNPOST	0	4
$SCNPRE	0	0
$SCOCMDS	0	18
$SCOPTS	0	1
$SCPCMDS	0	8
$SCPOCMD	0	17
$SCRCMDS	0	D
$SCRLCMD	0	13
$SCSCMDS	0	5
$SCSDIAL	0	A
$SCSTCMD	0	7
$SCTOCMD	0	15
$SCWHOTS	0	40
$SCWIBM	0	3C
$SCWINST	0	3
$SCWOBS	0	80
$SCZAPCM	0	1C
$SCZCMDS	0	11
$SDAPPND	0	40
$SDDEFT	0	20
$SDHOME	0	80
$SDRETRN	0	10
$SDWAIT	0	8
$SDXSYS	0	4
$SEAAUD	0	19
$SEACMD	0	C
$SEADCHK	0	1A
$SEADEL	0	E
$SEADEVA	0	12
$SEADIRA	0	29
$SEAFAIL	0	8
$SEAINIT	0	1
$SEAJCLS	0	2B
$SEAJOX	0	20
$SEAMAX	0	FF
$SEAND	0	4
$SEANEWS	0	16
$SEANJEA	0	13
$SEANJES	0	0
$SEANJEV	0	1F
$SEANSOC	0	1D
$SEANSON	0	28
$SEANSTO	0	C
$SEANUSE	0	F
$SEANWBL	0	17
$SEAOK	0	0
$SEAPRT	0	D
$SEAPSO	0	9
$SEAPSS	0	A
$SEAREXT	0	14
$SEARJES	0	11
$SEARRT	0	15
$SEASAPI	0	25

Name	Hex Offset	Hex Value
$SEASCLA	0	26
$SEASCLE	0	27
$SEASFS	0	23
$SEASIC	0	5
$SEASIP	0	7
$SEASOC	0	6
$SEASOP	0	8
$SEASOX	0	1E
$SEASPBC	0	21
$SEASPBO	0	22
$SEASPLR	0	2A
$SEASSOC	0	1C
$SEASSWM	0	24
$SEATBLD	0	10
$SEATCAN	0	B
$SEATSOC	0	1B
$SEAUSED	0	2B
$SEAVERC	0	2
$SEAVERD	0	3
$SEAVERS	0	18
$SEAXTRT	0	4
$SEGLMDF	0	64
$SJIFREE	0	40
$SJIGNYC	0	8
$SJIINIT	0	10
$SJINSJB	0	20
$SJITEMP	0	80
$SMFDEF	0	5
$SPCSAF	0	E7
$SPIN_LINES	0	8
$SPIN_OPERATOR		
	0	0
$SPIN_SEGMENT		
	0	C
$SPIN_TIME	0	4
$SP0	0	0
$SP132	0	84
$SP233	0	E9
$SQINDXL	0	100
$SSIRCVR	0	1
$STMT	0	80
$STMTCOM	0	40
$STMTERR	0	10
$STMTWAR	0	20
$STSUBP	0	E5
$SUBERR	0	80
$SUBMULT	0	40
$SYSEXIT	0	4
$TGDEF	0	3FA0
$TIMETST	0	80
$TKNLEN	0	50
$TKNVERN	0	1
$TRK000D	0	0
$VOLFLDL	0	18
$VOLLEN	0	6
$VOLMAX	0	4
$VOLMSKL	0	20
$WARM	0	80
$WARMHD	0	1F4
$WSFRJE	0	80
$WSJSREC	0	40
$XMLOSTP	0	80
$XMPASCB	0	8
$XMPECB	0	C
$XMPECBP	0	4
$XMPERET	0	0
$1E0C004	0	4
$1E0C008	0	8
$1E0C012	0	C
$1E0C016	0	10
$1E0ET01	0	1
$1E0ET02	0	2
$1E0ET03	0	3
$1E0ET04	0	4
$1E0ET05	0	5
$1E0ET06	0	6
$1E0ET07	0	7
$1E0ET08	0	8
$1E0ET09	0	9
$1E0ET10	0	A
$1E0ET11	0	B
$1E0ET12	0	C
$1E0ET13	0	D
$446CVER	0	A
$446MVER	0	9
$599LEN	0	C
$599PIT	0	0
$599SQD	0	4
$599XINI	0	8
AB02AR0C	0	C
AB02AR04	0	4
AB02AR08	0	8
AB02AR1C	0	1C
AB02AR10	0	10
AB02AR14	0	14
AB02AR18	0	18
AB02AR2C	0	2C
AB02AR20	0	20
AB02AR24	0	24
AB02AR28	0	28
AB02AR3C	0	3C
AB02AR30	0	30
AB02AR34	0	34
AB02AR38	0	38
AB02AR4C	0	4C
AB02AR40	0	40
AB02AR44	0	44
AB02AR48	0	48
AB02AR5C	0	5C
AB02AR50	0	50
AB02AR54	0	54
AB02AR58	0	58
AB02AR60	0	60
AB02AR64	0	64
AB02AR68	0	68
AR0	0	0
AR1	0	1
AR10	0	A
AR11	0	B
AR12	0	C
AR13	0	D
AR14	0	E
AR15	0	F
AR2	0	2
AR3	0	3
AR4	0	4
AR5	0	5
AR6	0	6
AR7	0	7
AR8	0	8

Name	Hex Offset	Hex Value
AR9	0	9
BATPOOL	0	5
BSCPOOL	0	6
B32KPOOL	0	A
CBPOOL	0	7
CFPOOL	0	13
CFREQ_FMT	0	6
CFREQ_LOCK	0	4
CFREQ_READ2	0	2
CFREQ_T1IO	0	1
CFREQ_UNLCK	0	5
CFREQ_WRITE	0	3
CIDPOOL	0	1D
CKPCLBCL	0	8
CKPCLCKP	0	1
CKPCLCMW	0	40
CKPCLCRW	0	80
CKPCLMRK	0	F
CKPCLRDC	0	2
CKPCLRDP	0	4
CKPTPOOL	0	4
CMBPOOL	0	14
DIAGADDR	0	0
DIAGKLEN	0	5
DIAGKLOC	0	4
DYNL3203	0	250
DYNL3211	0	23A
DYNL3800	0	10E
DYNL4245	0	250
DYNL4248	0	100
DYNTEYE	0	0
DYNTLEN	0	18
DYNTLMT	0	C
DYNTNEXT	0	4
DYNTTAB	0	8
DYNTTYPE	0	10
EXTDQ8A	0	8A
EXTDQ8B	0	8B
EXTDQ8C	0	8C
EXTDQ8D	0	8D
EXTDQ81	0	81
EXTDQ82	0	82
EXTDQ83	0	83
EXTDQ84	0	84
EXTDQ85	0	85
EXTDQ86	0	86
EXTDQ87	0	87
EXTDQ88	0	88
EXTDQ89	0	89
EXTDQ91	0	91
EXTPLCMD	0	0
EXTPLDAT	0	4
EXTPLLEN	0	1
EXTPLSIZ	0	8
FF	0	FF
FFFF	0	FFFF
FP0	0	0
FP2	0	2
FP4	0	4
FP6	0	6
GPQPOOL	0	1F
GTWKDIS	0	30
GTWKMAX	0	2000
GTWKRO	0	10
GTWKTANY	0	20
GTWKTCEL	0	10
GTWKTESZ	0	18
GTWKTFLG	0	5
GTWKTMSZ	0	2
GTWKTNAM	0	8
GTWKTNXT	0	C
GTWKTPID	0	4
GTWKTSIZ	0	0
GTWKTUSE	0	14
HASPPOOL	0	8
HAVTNLOG	0	80
HEDRPOOL	0	16
HTABFADD	0	20
HTABFLGB	0	9
HTABFNCK	0	8
HTABFOFF	0	40
HTABFTRQ	0	80
HTABF0TB	0	10
HTABTABL	0	A
HTABTEL	0	0
HTABTIDF	0	6
HTABTIDL	0	8
HTABTMCT	0	2
HTABTUFB	0	4
ICEPOOL	0	1A
IECITMOD	0	18
IPCALLER	0	2
IPEYE	0	14
IPNODE	0	4
IPOUTLEN	0	0
IPRETC	0	4
IPTUOUT	0	18
IPWJOA	0	4
JIXVRSN	0	2
JOTMXJOE_Z2	0	7A120
LEAVE_JOES_BUSY	0	0
MAPADDR	0	8
MAPBASE	0	C
MAPENTL	0	10
MAPMITA	0	8
MAPNAME	0	0
MAXLRECL	0	7FFF
M474BTRN	0	18
M474ENBT	0	0
M474ENHI	0	8
M474ENLO	0	4
M474ENT1	0	0
M474ENT2	0	C
M474E1BT	0	0
M474E1HI	0	8
M474E1LO	0	4
M474E2BT	0	C
M474E2HI	0	14
M474E2LO	0	10
M474PRML	0	1C
M565LNEN	0	11
M565NDEN	0	1
M565NSVN	0	9
M565RAPP	0	B
M565RBUF	0	7
M565RBUS	0	8
M565RINT	0	A
M565RNDE	0	5
M565RND1	0	1

Name	Hex Offset	Hex Value
M565RND2	0	2
M565RNET	0	9
M565RNIL	0	3
M565RNPM	0	6
M565RNSK	0	4
M565RSN	0	0
M710DOWN	0	2
M710ENT	0	0
M710MEM	0	0
M710RSN	0	4
M710UP	0	1
M791GRP	0	4
M791LEN	0	1C
M791NAME	0	0
M791PLX	0	C
M791PXID	0	14
NATPOOL	0	9
NMAPPOOL	0	B
NONE	0	0
NSAPOOL	0	C
NTQPOOL	0	D
PAGEPOOL	0	E
PAIRDYN	0	8
PAIRHASP	0	4
PAIRLEN	0	C
PAIRUSER	0	0
PCEPOOL	0	19
PERFPOOL	0	18
PLXPOOL	0	15
PPPOOL	0	F
PRFDCKPT	0	7
PRFDCPUS	0	5
PRFDDEVG	0	9
PRFDEVNT	0	6
PRFDIND	0	8
PRFDINTS	0	1
PRFDLEN	0	C
PRFDMIGR	0	A
PRFDNAME	0	0
PRFDPCES	0	3
PRFDQSUS	0	2
PRFDSAMP	0	4
PRFDSUBT	0	8
PRFDWS	0	B
PSOPOOL	0	1B
PSTVRSN	0	2
RACDSECL	0	24
REGANSI	0	A0
RJOBNOFF	0	0
RJOBOFFL	0	1
RNTPOOL	0	1C
RSOVRSN	0	1
R0	0	0
R1	0	1
R10	0	A
R11	0	B
R12	0	C
R13	0	D
R14	0	E
R15	0	F
R2	0	2
R3	0	3
R4	0	4
R5	0	5
R6	0	6
R7	0	7
R8	0	8
R9	0	9
SCNDR01	0	4
SCNDR03	0	8
SCNDR04	0	C
SCNDR05	0	10
SCNDR06	0	14
SCNDR07	0	18
SCNDR08	0	1C
SCNDR09	0	20
SCNDR10	0	24
SCNDR100	0	134
SCNDR101	0	138
SCNDR102	0	13C
SCNDR103	0	140
SCNDR104	0	144
SCNDR105	0	148
SCNDR106	0	14C
SCNDR107	0	150
SCNDR108	0	154
SCNDR109	0	158
SCNDR11	0	28
SCNDR110	0	15C
SCNDR111	0	160
SCNDR112	0	164
SCNDR113	0	168
SCNDR114	0	16C
SCNDR115	0	170
SCNDR116	0	174
SCNDR117	0	178
SCNDR118	0	17C
SCNDR119	0	180
SCNDR12	0	2C
SCNDR120	0	184
SCNDR121	0	188
SCNDR122	0	18C
SCNDR123	0	190
SCNDR124	0	194
SCNDR125	0	198
SCNDR126	0	19C
SCNDR127	0	1A0
SCNDR128	0	1A4
SCNDR13	0	30
SCNDR130	0	1A8
SCNDR131	0	1AC
SCNDR132	0	1B0
SCNDR133	0	1B4
SCNDR134	0	1B8
SCNDR135	0	1BC
SCNDR136	0	1C0
SCNDR137	0	1C4
SCNDR138	0	1C8
SCNDR139	0	1CC
SCNDR14	0	34
SCNDR140	0	1D0
SCNDR141	0	1D4
SCNDR142	0	1D8
SCNDR143	0	1DC
SCNDR144	0	1E0
SCNDR145	0	1E4
SCNDR146	0	1E8
SCNDR147	0	1EC
SCNDR148	0	1F0
SCNDR149	0	1F4

Name	Hex Offset	Hex Value
SCNDR150	0	1F8
SCNDR151	0	1FC
SCNDR152	0	200
SCNDR153	0	204
SCNDR154	0	208
SCNDR155	0	20C
SCNDR156	0	210
SCNDR157	0	214
SCNDR158	0	218
SCNDR159	0	21C
SCNDR160	0	220
SCNDR161	0	224
SCNDR162	0	228
SCNDR163	0	22C
SCNDR164	0	230
SCNDR165	0	234
SCNDR166	0	238
SCNDR167	0	23C
SCNDR17	0	38
SCNDR18	0	3C
SCNDR19	0	40
SCNDR21	0	44
SCNDR22	0	48
SCNDR23	0	4C
SCNDR24	0	50
SCNDR25	0	54
SCNDR26	0	58
SCNDR27	0	5C
SCNDR28	0	60
SCNDR39	0	64
SCNDR40	0	68
SCNDR41	0	6C
SCNDR43	0	70
SCNDR44	0	74
SCNDR45	0	78
SCNDR46	0	7C
SCNDR52	0	80
SCNDR54	0	84
SCNDR55	0	88
SCNDR56	0	8C
SCNDR57	0	90
SCNDR58	0	94
SCNDR59	0	98
SCNDR62	0	9C
SCNDR63	0	A0
SCNDR64	0	A4
SCNDR65	0	A8
SCNDR66	0	AC
SCNDR67	0	B0
SCNDR68	0	B4
SCNDR69	0	B8
SCNDR70	0	BC
SCNDR71	0	C0
SCNDR72	0	C4
SCNDR73	0	C8
SCNDR74	0	CC
SCNDR75	0	D0
SCNDR76	0	D4
SCNDR77	0	D8
SCNDR78	0	DC
SCNDR79	0	E0
SCNDR80	0	E4
SCNDR81	0	E8
SCNDR82	0	EC
SCNDR83	0	F0
SCNDR84	0	F4
SCNDR85	0	F8
SCNDR86	0	FC
SCNDR87	0	100
SCNDR88	0	104
SCNDR89	0	108
SCNDR90	0	10C
SCNDR91	0	110
SCNDR92	0	114
SCNDR93	0	118
SCNDR94	0	11C
SCNDR95	0	120
SCNDR96	0	124
SCNDR97	0	128
SCNDR98	0	12C
SCNDR99	0	130
SCQVRSN	0	1
SCWAPOOL	0	20
SCWDPOOL	0	21
SDLTBADD	0	0
SDLTLEN	0	4
SDLTNUM	0	A
SMFPOOL	0	12
SPANLAST	0	8C
SPANMID	0	84
SPAN1ST	0	88
SQDPOOL	0	1E
SRCBANSI	0	20
SRCBCCTL	0	30
SRCBDSH	0	E0
SRCBFLAG	0	80
SRCBJH	0	C0
SRCBJT	0	D0
SRCBLAST	0	C
SRCBMCH	0	10
SRCBMID	0	4
SRCBPAGE	0	30
SRCBSPAN	0	C
SRCB1ST	0	8
TGMVRSN	0	1
TINTPOOL	0	17
TMAPADDC	0	18
TMAPENTL	0	1C
TMAPLMOD	0	10
TRAKQ4A	0	4A
TRAKQ41	0	41
TRAKQ42	0	42
TRAKQ43	0	43
TRAKQ44	0	44
TRAKQ45	0	45
TRAKQ46	0	46
TRAKQ47	0	47
TRAKQ48	0	48
TRAKQ49	0	49
TRAKQ5A	0	5A
TRAKQ51	0	51
TRAKQ52	0	52
TRAKQ53	0	53
TRAKQ54	0	54
TRAKQ55	0	55
TRAKQ56	0	56
TRAKQ57	0	57
TRAKQ58	0	58
TRAKQ61	0	61
TRAKQ62	0	62

Name	Hex Offset	Hex Value
TRAKQ63	0	63
TRAKQ64	0	64
TRAKQ65	0	65
TRCCWSP1	0	9
TRCCWSP2	0	11
TRCCWSP3	0	19
TRCLRECL	0	79
UNBUSY_JOES	0	1
VTAMPOOL	0	10
WAVEPOOL	0	22
WORKQ01	0	1
WORKQ02	0	2
WORKQ03	0	3
WORKQ04	0	4
WORKQ05	0	5
WORKQ1A	0	1A
WORKQ11	0	11
WORKQ12	0	12
WORKQ13	0	13
WORKQ14	0	14
WORKQ15	0	15
WORKQ16	0	16
WORKQ17	0	17
WORKQ18	0	18
WORKQ21	0	21
WORKQ22	0	22
WORKQ23	0	23
WORKQ24	0	24
WORKQ25	0	25
WORKQ26	0	26
WORKQ27	0	27
WORKQ28	0	28
XCFMLIST	0	8
XCFMMEMC	0	12
XCFMMEMF	0	11
XCFMMEMN	0	0
XCFMMEMR	0	10
XCFMRSCS	0	C
XCFMRSJ2	0	4
XCFMRSNM	0	8
XCFMSIZE	0	1000
XCFMTHEM	0	0
XCFMUS	0	4
XEQPHDWT	0	78
XEQPHFWT	0	3C
XEQPHIWT	0	1E
XRQPOOL	0	11

$HASXB Information

$HASXB Programming Interface information

Programming Interface information

$HASXB

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

- HXBDSB
- HXBSAPID
- HXBWRKSP

End of Programming Interface information

$HASXB Heading Information

Common Name: HASP address space extension block
Macro ID: $HASXB
DSECT Name: HASXB
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: HSXB
Offset: HXBID-HASXB
Length: L'HXBID
Storage Attributes: Subpool: 230
Key: 1
Residency: Virtual and real storage are anywhere (above or below 16M) in the private address space represented by the $HASXB.
Size: See HXBLEN
Created by: $SSIBEGN routine
Pointed to by: HSBHASXB field of the $HASB data area
Serialization: Shared by TCBs in the address space. The local lock is required to increment the use count in the $HASXB. This ensures that the control block won't be freed if it is considered to be temporary. After the use count has been incremented in the $HASXB control block to indicate that both the $HASB and $HASXB are in use, compare and swaps may be used to modify fields. $SSIBEGN increments the use count upon entry. The use count in the $HASXB is for both the $HASB and the $HASXB. Compare and swap is still needed to update the use count even with the local lock because the local lock is not obtained when decrementing the use count in $SSIEND for permanent HASB/HASXBs. The use of compare and swap is not needed for the system HASB/HASXB count because it is never updated without the local lock.
Function: The HASB and HASXB are the main control blocks for an address space that invokes JES2 SSI functions. Address spaces that are started under JES2 (STCs, TSUs, batch initiators) have a "permanent" HASB and HASXB which exist until the job is terminated. Address spaces that request a job id from JES2 have a "system" HASB and HASXB which exist until the job id is returned. All other address spaces obtain a temporary HASB and HASXB which exist for the life of a SSI request.
The HASXB contains the information that is needed only in the user address space. The HASB contains the information that needs to be shared between the user and the subsystem address spaces.

$HASXB Map

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	0	HASXB	BEGINNING OF HASXB DSECT
0	(0)	CHARACTER	4	HXBID	EYECATCHER OF HASXB

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
4	(4)	ADDRESS	1	HXBVRSN	VERSION NUMBER FIELD
4	(4)	X'3'	0	HXBVRNUM	"3" Current version of HASXB
5	(5)	BITSTRING	1	HXBFLAG1	STATUS FLAG 1
				Comment	
				For more information about the PERM and SYS bits see the prolog for $SSIBEGN in HASCLINK.	
				End of Comment	
		1...		HXB1PERM	"B'10000000'" PERMANENT HASB/HASXB CHAIN
		.1..		HXB1SYS	"B'01000000'" SYSTEM HASB/HASXB CHAIN
		..1.		HXB1REQ	"B'00100000'" A Request JobId call was made from this addr space
		...1		HXB1B32K	"B'00010000'" B32K cell pool created
		.... 1...		HXB1E40I	"B'00001000'" ENF 40 INIT call seen
6	(6)	BITSTRING	1	HXBRSVRD (2)	RESERVED FOR FUTURE USE
8	(8)	SIGNED	4	HXBUSECT	COUNT OF USERS OF THIS HSXB
12	(C)	SIGNED	4	HXBINTRD	COUNT OF BCP-ALLOCATED INTERNAL READERS
16	(10)	ADDRESS	4	HXBTRE	ADDRESS OF FIRST TRE ON CHAIN
20	(14)	ADDRESS	4	HXBWRKSP	ADDRESS OF WORK SPACE
24	(18)	ADDRESS	4	HXBUSER1	RESERVED FOR USER
28	(1C)	SIGNED	4	HXBSPLWT	Count of tasks AWAITING SPOOL SPACE tasks (PLO serialization)
32	(20)	ADDRESS	4	HXBCPTCB	TCB address to use with STORAGE OBTAIN
36	(24)	ADDRESS	4	HXBCPIDX	Address of CPINDEX table
40	(28)	ADDRESS	4	HXBALIDX	Address of ALINDEX table
44	(2C)	ADDRESS	4	HXBDSB	Chain of LOCAL DSBs
48	(30)	SIGNED	4	HXBSAPIA	ALET of SAPID queue for this address space
52	(34)	SIGNED	4	HXBSTACA	ALET of STAC data space for this address space
56	(38)	SIGNED	4	HXBPSOA	ALET of PSO data space for this address space
60	(3C)	ADDRESS	4	HXBSJIOB	Permanent SJIOB used for $SIGIO processing
64	(40)	ADDRESS	4	HXBASOK	Address of first ASOK
68	(44)	ADDRESS	4	HXBDSERV	Address of live DSERV
72	(48)	ADDRESS	4	HXBESWRK	Address of extended status work area
				Comment	
				SPOOL I/O vector This vector achors the BAT control blocks for this address space. There is one entry for every possible SPOOL volume.	
				End of Comment	
76	(4C)	ADDRESS	4	HXBBATV (0)	SPOOL I/O vector
1088	(440)	DBL WORD	8	(0)	Alignment
1088	(440)	X'440'	0	HXBLEN	"*-HASXB" LENGTH OF HASXB DSECT

$HASXB Cross Reference

Name	Hex Offset	Hex Value
HASXB	0	
HXBALIDX	28	
HXBASOK	40	
HXBBATV	4C	
HXBCPIDX	24	
HXBCPTCB	20	
HXBDSB	2C	
HXBDSERV	44	
HXBESWRK	48	
HXBFLAG1	5	
HXBID	0	C8E2E7C2
HXBINTRD	C	
HXBLEN	440	440
HXBPSOA	38	
HXBRSVRD	6	
HXBSAPIA	30	
HXBSJIOB	3C	
HXBSPLWT	1C	
HXBSTACA	34	
HXBTRE	10	
HXBUSECT	8	
HXBUSER1	18	
HXBVRNUM	4	3
HXBVRSN	4	
HXBWRKSP	14	
HXB1B32K	5	10
HXB1E40I	5	8
HXB1PERM	5	80
HXB1REQ	5	20
HXB1SYS	5	40

$HCCT Information

$HCCT Programming Interface information

Programming Interface information

$HCCT

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

- CCTASYNC
- CCTAUXCB
- CCTBMAP
- CCTCBRT
- CCTCKPTP
- CCTCOMM
- CCTCSHED
- CCTCSTAI
- CCTDSB
- CCTECF
- CCTHTCBA
- CCTJOB
- CCTMLLM
- CCTMONCB
- CCTOFFM
- CCTPCEPE
- CCTPJCLQ
- CCTPSOQ
- CCTRCP
- CCTRCPCQ
- CCTSAPIQ
- CCTSAWST
- CCTSAWXN
- CCTSAWXO
- CCTSCIDS
- CCTSJWEL
- CCTSLKST
- CCTSLKUS
- CCTSPOOL
- CCTTIMER
- CCTTRPCE
- CCTXESEV
- CCTXSTIM
- CCT1SAP
- CCT1SAPC

End of Programming Interface information

$HCCT Heading Information

Common Name: HASP Common-storage Communication Table
Macro ID: $HCCT
DSECT Name: HCCT
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: 'HCCT'
Offset: -8 (in the JES2 CSA storage prefix)
Length: 4
Storage Attributes: Subpool: 228
Key: 1
Residency: Virtual and real storage are below 16M, in CSA. The storage is fixed in memory. Below 16M because it contains an extended ECB.
Size: See the CCTLEN equate (plus an 8 byte prefix)
Created by: Initialization of a JES2 subsystem address space, except for a 'hot start' initialization (the HCCT in CSA is just re-located in that case).
Pointed to by:
- The SSCTSUS2 field of the MVS SSCVT control block for the defined JES2 subsystem.
- General register 11 when executing code in the 'USER' execution environment.
- The $HCCT field of the JES2 $HCT control block.
- The HFCTHCCT field of each JES2 $HFCT control block.
- The SDBHCCT field of each JES2 $SDB control block.
- The RIDHCCT field of each JES2 internal reader $DCT control block.
- The address word in the module entry labeled MAPHCCT in the JES2 $MODMAP control block.

Serialization:
- Serialization depends on the field in question.
- Fields might be serialized via Compare-and-swap.
- Fields might be serialized via the JES2 Job Communications Queues (JCQ) logical lock.
- Fields might be serialized implicitly, by being changeable only by the JES2 main task.
- Fields might be serialized by MVS resource ENQ.
- Fields might be serialized by the LOCAL/CMS locks.

Function: The HCCT is the central common storage control block for a JES2 subsystem. It can be located from the MVS control blocks defining the subsystems. It, in turn, points to the major control block in the JES2 address space ($HCT), those for application address spaces ($HAVT, $HASBs), those for FSS address spaces ($FSSCBs), etc.

The HCCT also contains or points to most data used for communication between address spaces, whether for direct support of application requests for subsystem service (e.g. executing jobs, creating and writing to SYSOUT datasets), for JES2 subsystem utilities (e.g. its $TRACE facility), or for other purposes. It also is the central location for any information that must be useable when JES2 experiences an outage, or that must be preserved across such an outage until a 'hot start' is performed.

The HCCT is used most importantly by the JES2 subsystem interface (SSI) function routines, which include all of the MVS/JES2 interactions in support of job execution and SYSOUT/SYSIN datasets.

$HCCT Map

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	0	HCCT	
0	(0)	X'D'	0	CCTVRNUM	"13" HCCT version equate
0	(0)	ADDRESS	1	CCTVRSN	CONTROL BLOCK VERSION
1	(1)	BITSTRING	6		RESERVED FOR FUTURE USE
7	(7)	BITSTRING	1	CCTILVL	Service level
8	(8)	ADDRESS	4	CCTOFSTB	Address of offset table, at HCCT offset +8
12	(C)	ADDRESS	4	CCTLMT1	Address of first CSA LMT, if any
16	(10)	CHARACTER	8	CCTPVRSN	Copy of HCT $VERSION. Permanently set to 'SP 5.3.0' (Do not remove)

Comment

DEFINE CONSTANTS. MOVED FROM THE $HCT IN HASPIRMA.

End of Comment

24	(18)	CHARACTER	32	CCTBLNKS	32 CHARACTERS OF BLANKS
56	(38)	BITSTRING	64	CCTZEROS	64 CHARACTERS OF HEX ZERO
56	(38)	X'38'	0	CCTZERO	"CCTZEROS" Alternate name for CCTZEROS
120	(78)	ADDRESS	4	CCTFFS (16)	16 words of FF's
120	(78)	X'78'	0	CCTNEG1	"CCTFFS,4,C'F'" Fullword of X'FF's
120	(78)	X'78'	0	CCTALLFF	"CCTNEG1" ALTERNATE NAME FOR CCTNEG1
184	(B8)	SIGNED	4	CCTF1	FULLWORD CONSTANT 1
184	(B8)	X'BA'	0	CCTH1	"CCTF1+2,2,C'H'" HALFWORD CONSTANT 1
188	(BC)	SIGNED	4	CCTF2	FULLWORD CONSTANT 2
188	(BC)	X'BE'	0	CCTH2	"CCTF2+2,2,C'H'" HALFWORD CONSTANT 2
192	(C0)	SIGNED	4	CCTF4	FULLWORD CONSTANT 4
192	(C0)	X'C2'	0	CCTH4	"CCTF4+2,2,C'H'" HALFWORD CONSTANT 4
196	(C4)	SIGNED	4	CCTF6	FULLWORD CONSTANT 6
196	(C4)	X'C6'	0	CCTH6	"CCTF6+2,2,C'H'" HALFWORD CONSTANT 6
200	(C8)	SIGNED	4	CCTF8	FULLWORD CONSTANT 8
200	(C8)	X'CA'	0	CCTH8	"CCTF8+2,2,C'H'" HALFWORD CONSTANT 8
204	(CC)	SIGNED	4	CCTF12	FULLWORD CONSTANT 12
204	(CC)	X'CE'	0	CCTH12	"CCTF12+2,2,C'H'" HALFWORD CONSTANT 12
208	(D0)	SIGNED	4	CCTF16	FULLWORD CONSTANT 16
208	(D0)	X'D2'	0	CCTH16	"CCTF16+2,2,C'H'" HALFWORD CONSTANT 16
212	(D4)	SIGNED	4	CCTF255	FULLWORD CONSTANT 255
212	(D4)	X'D6'	0	CCTH255	"CCTF255+2,2,C'H'" HALFWORD CONSTANT 255
212	(D4)	X'D4'	0	CCT000F	"CCTF255" Fullword X'000000FF'
216	(D8)	SIGNED	4	CCTF4096	FULLWORD CONSTANT 4096
216	(D8)	X'DA'	0	CCTH4096	"CCTF4096+2,2,C'H'" HALFWORD CONSTANT 4096
220	(DC)	BITSTRING	4	CCT0FFF	FULLWORD THREE BYTE MASK
224	(E0)	BITSTRING	4	CCT7FFF	FULLWORD HIGH BIT OFF MASK
224	(E0)	X'E0'	0	CCTFMAX	"CCT7FFF" Fullword largest + number
224	(E0)	X'E0'	0	CCTHMAX	"CCT7FFF,2,C'H'" Halfword largest + number
228	(E4)	ADDRESS	4	CCTHIBIT (0)	Fullword high bit on
232	(E8)	ADDRESS	4	CCTBADA (16)	BAD value

Comment

SAF CLASS Value. Reference in RACROUTEs should be to name on the EQUate.

End of Comment

296	(128)	ADDRESS	1	CCTJSPLL	Length of JESSPOOL class
297	(129)	CHARACTER	8	CCTJSPLV	JESSPOOL class
297	(129)	X'128'	0	CCTJSPL	"CCTJSPLL,*-CCTJSPLL,C'X'" JESSPOOL SAF class
305	(131)	CHARACTER	1	CCTBDJNC	Bad job name character
306	(132)	BITSTRING	2		Reserved for future use

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

				HEX translate table	

				End of Comment	
306	(132)	X'44'	0	CCTXTRAN	"*-C'0',256,C'C'" Hexadecimal-to-EBCDIC
308	(134)	CHARACTER	16		translate table
				Comment	
				COMMUNICATION CONTROL FIELDS	
				End of Comment	
324	(144)	ADDRESS	4	CCTSSVT	SUBSYSTEM VECTOR TABLE ADDRESS
328	(148)	ADDRESS	4	CCTCADDR	ADDR OF COMMON STORAGE ADDR TBL
332	(14C)	ADDRESS	4	CCTCTABS	Addr of CPOOL tables
336	(150)	ADDRESS	4	CCTCPIDX	Addr of CSA CPOOL index
340	(154)	ADDRESS	4	CCTHCT	ADDRESS OF HASP HCT
344	(158)	ADDRESS	4	CCTHTCBA	JES2 MAIN-TASK TCB ADDRESS
348	(15C)	BITSTRING	8	CCTJSTKN	STOKEN of the JES2 addrspc, unique for this MVS IPL, see CCTASCB for ASCB addr
356	(164)	ADDRESS	4	CCTAMVEC	VECTOR TABLE FOR
360	(168)	ADDRESS	4		SVC111 INTERFACE
364	(16C)	ADDRESS	4	CCTSSCT	ADDRESS OF SSCT
368	(170)	ADDRESS	4	CCTKAC	ADDRESS OF KAC CONTROL BLOCK
372	(174)	ADDRESS	4	CCTSCIDS	ADDR CKPT SCID CONTROL BLCK
376	(178)	ADDRESS	4	CCTHAVT	JES2 ADR SPACE VECTOR TABLE
380	(17C)	ADDRESS	4	CCTAUXCB	Addr of AUX AS Work area
384	(180)	ADDRESS	4	CCTXASCB	AUX address space ASCB
388	(184)	ADDRESS	4	CCTBMAPS	BERT translation maps
392	(188)	ADDRESS	4	CCTCBRT	$CATBERT pointer
396	(18C)	ADDRESS	4	CCTDAS1	ADDRESS OF FIRST DAS
400	(190)	ADDRESS	4	CCTETDEF	Common PC routines ETDEFs
404	(194)	SIGNED	4	CCTSYSLX	JES2's system LX
408	(198)	ADDRESS	4	CCTIINFO	Addr of installation info for version SSI call
412	(19C)	ADDRESS	4	CCTSINFO	Addr of system information for version SSI call
416	(1A0)	ADDRESS	4	CCTMONCB	Addr of monitor AS workarea
420	(1A4)	ADDRESS	4	CCTMASCB	Monitor address space ASCB
424	(1A8)	ADDRESS	4	CCTNITBL	NIT addr in data space
428	(1AC)	SIGNED	2	CCTNITSZ	NIT element size
430	(1AE)	SIGNED	2	CCTJQELN	Total length of a JQE
432	(1B0)	ADDRESS	4	CCTPIT	Addr of first initiator PIT
436	(1B4)	ADDRESS	2	CCTPITNM	Number of pits in CSA
438	(1B6)	ADDRESS	2		Reserved
440	(1B8)	ADDRESS	4	CCTSCATP	Pointer to SCAT
444	(1BC)	ADDRESS	4	CCTTED	Addr of Trace enablement descriptor
448	(1C0)	ADDRESS	4	CCTTOKA	Address of JES2 token
452	(1C4)	CHARACTER	1	CCTRCOMC	JES2 Reader command char
453	(1C5)	CHARACTER	1	CCTCOMCH	JES2 Command character (OS/390 command input)
454	(1C6)	BITSTRING	1	CCTDSTFL	USERDEST flags - see HCT field $DESTFLG
455	(1C7)	BITSTRING	1	CCTFLAG0	FLAG BYTE 0
		1...		CCT0EASS	"B'10000000'" Extended addressing space (EAS) has been activated. Once activated - never deactivated. Mirror of $HCT field $SPLEASS.
		.1..		CCTSTDSI	"B'01000000'" JES2 started without the NODSI PPT/SCHEDxx option
456	(1C8)	CHARACTER	4	CCTSID	Alphanumeric member name
460	(1CC)	CHARACTER	8	CCTMVSNM	MVS system name
468	(1D4)	ADDRESS	4	CCTRBGN	IOT REUSE START THRESHOLD
472	(1D8)	ADDRESS	4	CCTRLMT	SPIN IOT REUSE FAILURE LIMIT
476	(1DC)	ADDRESS	4	CCTEXTBL	ADDRESS OF REASON TEXTABLE

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
480	(1E0)	ADDRESS	4	CCTINXTB	ADDRESS OF REASON INDEXTBLE
484	(1E4)	ADDRESS	4	CCTQINDX	Address of Que Index table
488	(1E8)	ADDRESS	4	CCT#INDX	Address of copy of sysout class queue index
492	(1EC)	ADDRESS	4	CCTXMAQ	Address of XMAQENTs (XCF member status table)
496	(1F0)	ADDRESS	4	CCTJACCT	Addr of JES2-NET acct table
500	(1F4)	ADDRESS	4	CCTNACCT	Addr of NET-JES2 acct table
504	(1F8)	SIGNED	4	CCTIPDDB	IOTPDDB offset for primary allocation IOT
508	(1FC)	ADDRESS	4	CCTASDS	ASDS data space-ptr to 1st ASDS entry
512	(200)	SIGNED	4	CCTEVTA	EVT ALET
516	(204)	ADDRESS	4	CCTENFST	ENF stub routines
520	(208)	ADDRESS	8	CCTCDCTQ	Address of local CDCTQHDS
				Comment	
				Data space control block (DSB) anchors	
				End of Comment	
528	(210)	ADDRESS	4	CCTDSB	Anchor for all JES2 DSBs
				Comment	
				SPOOL constants	
				End of Comment	
532	(214)	ADDRESS	2	CCTBFSIZ	Spool buffer size
534	(216)	SIGNED	2	CCTNSPL	Max number of spool volumes
534	(216)	X'217'	0	CCTNSPB	"CCTNSPL+1,1" allowed (one byte version)
536	(218)	ADDRESS	1		Reserved for future use
537	(219)	ADDRESS	1	CCTTKCEL	TRAKCELL size in buffers
538	(21A)	SIGNED	2	CCTSPLNM	Copy of $SPOLNUM from HCT (can update via command)
				Comment	
				THE ESTIMATED COUNT FIELDS MUST BE KEPT TOGETHER AND ARE MAPPED BY THE EST DSECT GENERATED BY THE $EST MACRO. EACH ELEMENT IS CURRENTLY 8 BYTES LONG. SIMILIAR FIELDS ALSO EXIST IN THE $HCT AND THE $SJXB. DO NOT USE THE RESERVED FIELDS FOR ANYTHING OTHER THAN ESTIMATED COUNT TYPE OF INFORMATION AND VERIFY THAT THE $HCT AND $SJXB ARE ALSO UPDATED. DO NOT DELETE ANY RESERVED FIELDS IN HERE EITHER.	
				End of Comment	
540	(21C)	ADDRESS	4	CCTEST1 (0)	FIRST ESTIMATED COUNT TABLE
540	(21C)	BITSTRING	12	(0)	Keep next 12 bytes together
540	(21C)	ADDRESS	4	CCTPGINT	EST PAGE MSG INTERVAL
544	(220)	ADDRESS	1		EXECUTION PAGE OPTION
545	(221)	ADDRESS	3		RESERVED
548	(224)	SIGNED	4		PAGE default estimate
552	(228)	BITSTRING	12	(0)	Keep next 12 bytes together
552	(228)	ADDRESS	4	CCTOTINT	EST BYTE MSG INTERVAL
556	(22C)	ADDRESS	1		EXECUTION BYTE OPTION
557	(22D)	ADDRESS	3		RESERVED
560	(230)	SIGNED	4		BYTE default estimate
564	(234)	BITSTRING	12	(0)	Keep next 12 bytes together
564	(234)	ADDRESS	4	CCTLNINT	EST LINE MSG INTERVAL
568	(238)	ADDRESS	1		EXECUTION LINE OPTION
569	(239)	ADDRESS	3		RESERVED
572	(23C)	SIGNED	4		LINE default estimate
576	(240)	BITSTRING	12	(0)	Keep next 12 bytes together
576	(240)	ADDRESS	4	CCTPUINT	EST CARD MSG INTERVAL
580	(244)	ADDRESS	1		EXECUTION PUNCHED CARD OPTION
581	(245)	ADDRESS	3		RESERVED
584	(248)	SIGNED	4		PUNCH default estimate
588	(24C)	BITSTRING	12	(0)	Keep next 12 bytes together

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
588	(24C)	ADDRESS	4	CCTTMINT	XEQ TIME MSG INTERVAL
592	(250)	ADDRESS	1	CCTTIMOP	EXECUTION TIME OPTION
593	(251)	ADDRESS	3		RESERVED
596	(254)	SIGNED	4		TIME default estimate
				Comment	
				END OF THE ESTIMATED COUNT FIELDS DEFAULT PRIORITY TABLE FOR ESTIMATED ELASPED TIME. EACH TABLE ENTRY CONSISTS OF TWO FIELDS. THE FIRST FIELD IS THE PRIORITY FOR THE INTERVAL AND THE SECOND FIELD DEFINES THE SIZE OF THE INTERVAL.	
				End of Comment	
600	(258)	BITSTRING	40	CCTIMETB (0)	ESTIMATED TIME PRIORITY TABLE
600	(258)	ADDRESS	1		FIRST INTERVAL
604	(25C)	ADDRESS	1		SECOND INTERVAL
608	(260)	ADDRESS	1		THIRD INTERVAL
612	(264)	ADDRESS	1		FOURTH INTERVAL
616	(268)	ADDRESS	1		FIFTH INTERVAL
620	(26C)	ADDRESS	1		SIXTH INTERVAL
624	(270)	ADDRESS	1		SEVENTH INTERVAL
628	(274)	ADDRESS	1		EIGHTH INTERVAL
632	(278)	ADDRESS	1		NINTH INTERVAL
636	(27C)	ADDRESS	4		
				Comment	
				---------- Copies of HCT fields needed for input processing ----------	
				End of Comment	
640	(280)	BITSTRING	1	CCTROPTS	JES2 run options ($RUNOPTS)
641	(281)	BITSTRING	1	CCTJOPTS	Job card options ($RJOBOPT)
642	(282)	ADDRESS	1	CCTLINCT	Max line per page ($LINECT)
643	(283)	BITSTRING	1		Reserved
644	(284)	CHARACTER	8	CCTSTFRM	Standard forms ($STDFORM)
652	(28C)	ADDRESS	3	CCTTO (0)	OWN NODE INFORMATION
652	(28C)	ADDRESS	2	CCTTONOD	OWN NODE ID (BINARY)
654	(28E)	ADDRESS	1	CCTTOQUL	Own node system ID (binary)
655	(28F)	CHARACTER	9	CCTNDE (0)	Node name and length
655	(28F)	BITSTRING	1	CCTNDENL	Actual length of node name
656	(290)	CHARACTER	8	CCTNDENM	NODE NAME
664	(298)	ADDRESS	2	CCTNONOD	MAXIMUM NODE NUMBER
666	(29A)	ADDRESS	2	CCTROUT	HIGHEST DEFINED RJE
668	(29C)	ADDRESS	4	CCTPCT	PCT address
672	(2A0)	ADDRESS	4	CCTRRT	ADDR OF RMT ROUTING EQUIV TABLE
676	(2A4)	ADDRESS	4	CCTRDT	ADDRESS OF REMOTE DESTINATION TABLE
680	(2A8)	ADDRESS	4	CCTRDTA	ALET for RDT data space
684	(2AC)	ADDRESS	4	CCTNITA	ALET for NIT data space
688	(2B0)	ADDRESS	4	CCTIRSMD	Storage for IR IRIS models
692	(2B4)	ADDRESS	4	CCTBATMD	Address of the BATCH internal reader model IRIS
696	(2B8)	ADDRESS	4	CCTSTCMD	Address of the STC internal reader model IRIS
700	(2BC)	ADDRESS	4	CCTTSOMD	Address of the TSO internal reader model IRIS
704	(2C0)	ADDRESS	4	CCTREQJI	Request jobid specification
708	(2C4)	ADDRESS	4	CCTXITA	ADDRESS OF XIT TABLE
712	(2C8)	ADDRESS	4	CCTTPHZ	Address of Job Phase text table
716	(2CC)	ADDRESS	4	CCTTDLY	Address of job delay text table
720	(2D0)	BITSTRING	4		Reserved

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
				Comment	
		JECL validity vectors			
				End of Comment	
724	(2D4)	ADDRESS	4	CCTJVSTC	Addr STC JECL validity tbl
728	(2D8)	ADDRESS	4	CCTJVTSU	Addr TSU JECL validity tbl
732	(2DC)	ADDRESS	4	CCTJVJOB	Addr JOB JECL validity tbl
736	(2E0)	SIGNED	4	CCTSEGLM	SEGMENT LIMIT FOR A GIVEN SYSOUT DATA SET
740	(2E4)	SIGNED	4	CCTSPLCL	MAX SPECIAL LOCAL ROUTE
744	(2E8)	SIGNED	4	(0)	Align HFAME's
744	(2E8)	CHARACTER	72	CCTCKPT1	CKPT1 HFAME
816	(330)	CHARACTER	1	CCTCKPT2	CKPT2 HFAME
				Comment	
		MAIN TASK AUTHORIZATION INDEX FOR CROSS MEMORY			
				End of Comment	
888	(378)	SIGNED	4	CCTAXL (0)	AUTHORIZATION INDEX (AX) LIST
888	(378)	SIGNED	2	CCTAXN	NUMBER OF AXS REQUESTED
890	(37A)	SIGNED	2	CCTAXV	VALUE (AX) RETURNED BY AXRES
				Comment	
		DATA BLOCKS			
				End of Comment	
852	(354)	X'354'	0	CCTDCB	"*" SYS1.HASPACE DCB
892	(37C)	ADDRESS	4	(3)	12-BYTE MEAT OF DCB
904	(388)	ADDRESS	4	CCTDEBFX	Ptr to JES2 CSA DA DEB prefix template
				Comment	
		SWB MANAGEMENT			
				End of Comment	
908	(38C)	ADDRESS	4	CCTKEYTB	ADDRESS OF KEYLIST TABLE
912	(390)	DBL WORD	8	CCTJDVT	SJF JDVT NAME
				Comment	
		XCF Group token			
				End of Comment	
920	(398)	ADDRESS	4	CCTIXVT	XCF Group token
924	(39C)	CHARACTER	8	CCTGPNM	XCF group name
				Comment	
		ECB extensions (HAM and general processing)			
				End of Comment	
932	(3A4)	ADDRESS	4	CCTSDADR (0)	Address of ECB extension with bits on indicating initialized
936	(3A8)	SIGNED	4	CCTSDECX (0)	ECB Extension for $EXCP <-- issued in USER environ. | that uses a $SDB |
940	(3AC)	ADDRESS	4	CCTSDPEX	"V(HAMPSTER)" EXCP Post Exit address in | USER environment <--
944	(3B0)	ADDRESS	4	CCTGRADR (0)	Address of ECB extension with bits on indicating initialized
948	(3B4)	SIGNED	4	CCTGRECX (0)	ECB Extension used to <-- invoke routines when | the ECB is posted |
952	(3B8)	ADDRESS	4	CCTGRPEX	"V($ECBEXIT)" ECB Posting validation | and processing routine <--

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

				Keep the EBCDIC level and binary product/service levels together.	
				The field SSCTSUSE points to the field CCTSUSE.	

				End of Comment	
956	(3BC)	BITSTRING	10	CCTJES2_LEVEL (0)	
					<-+ Level information
956	(3BC)	CHARACTER	8	CCTLEVEL	| OS V.R.M, product version | of JES2, copy of $LEVEL, | pointed to by SSCTSUSE
964	(3C4)	ADDRESS	1	CCTPLVL	| Binary product level
965	(3C5)	ADDRESS	1	CCTSLVL	<-+ Binary service level
966	(3C6)	BITSTRING	2		Reserved for future use
968	(3C8)	ADDRESS	4	(5)	Reserved for future use
				Comment	
				GENERIC GROUPING KEY LISTS.	
				End of Comment	
988	(3DC)	SIGNED	2	CCTGGDKN	NUMBER OF GROUPING KEYS FOR SYSTEM-DEFAULT JDVT
990	(3DE)	CHARACTER	2	CCTGGRSV	RESERVED FOR FUTURE USE
992	(3E0)	ADDRESS	4	CCTGGDKL	ADDRESS OF KEY LIST FOR SYSTEM-DEFAULT JDVT
996	(3E4)	ADDRESS	4	CCTGGDKB	ADDRESS OF KEY LIST BLOCK FOR SYSTEM-DEFAULT JDVT
1000	(3E8)	ADDRESS	4	CCTGGFKB	ADDRESS OF KEY LIST BLOCK FOR FIRST NON-DEFAULT JDVT
				Comment	

				Declare the major name and field to hold this subsystem's name for ENQ/DEQ use of the CSA cell fields.	
				Next five fields must be kept together (CCTQNAM to CCTSSVS)	

				End of Comment	
1004	(3EC)	CHARACTER	8	CCTQNAM (0)	QNAME FOR ALL HASP ENQS
1004	(3EC)	CHARACTER	4		'SYSZ'
1008	(3F0)	CHARACTER	8	CCTSNV (0)	Jes name and version
1008	(3F0)	CHARACTER	4	CCTSSNM	Name of subsystem
1012	(3F4)	CHARACTER	4	CCTSSVS	Version, release, mod
1016	(3F8)	BITSTRING	1	CCTSSNML	Holds actual length of subsystem name in CCTSSNM field
1017	(3F9)	BITSTRING	3		Reserved
1020	(3FC)	BITSTRING	8	CCTCOLDT	Cold start time (used as a unique JESPLEX identifier)
				Comment	

				MINOR RESOURCE NAME FOR INTERNAL READER RESOURCE	

				End of Comment	
1028	(404)	CHARACTER	8	CCTRDRSC	Minor name for internal reader resource

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

				Minor resource name for ENQ/DEQ of SVJ Lock	

				End of Comment	
1036	(40C)	CHARACTER	8	CCTSVJLK	RNAME name for SVJ lock resource
				Comment	

				Minor resource name for ENQ/DEQ of SAPID lock	

				End of Comment	
1044	(414)	CHARACTER	8	CCTSAPLK	RNAME name for SAPID lock resource
				Comment	
				Table pair for user environment $BLDMSG calls Note: There is no JES2 table pair for this; the HASP TABLEs are implemented as DYNAMIC tables so both the main task and user environment tables can be pointed to by the main MCT table pair.	
				End of Comment	
1052	(41C)	ADDRESS	4	CCTMGTP (0)	USER ENVIRONMENT $BLDMSG
1052	(41C)	ADDRESS	4	CCTMGTU	"V(USERMGT)" User table
1056	(420)	ADDRESS	4		HASP table
1060	(424)	ADDRESS	4	CCTMGTD	Dynamic table array
				Comment	
				RETURN CONTROL ELEMENTS	
				End of Comment	
1066	(42A)	ADDRESS	2		RESERVED FOR FUTURE USE
				Comment	
				Routines for $XMPOSTX service. These stubs save the caller's registers, sets up the HCCT address in R11, and links to the appropriate service.	
				End of Comment	
				Comment	
				LARL R11,HCCT Get HCCT address	
				End of Comment	
1072	(430)	BITSTRING	20		
1086	(43E)	X'14'	0	CCTXMSRL	"*-CCTXMSRB" Length of area
				Comment	
				LARL R11,HCCT Get HCCT address	
				End of Comment	
1092	(444)	BITSTRING	20		
1106	(452)	X'14'	0	CCTXMRML	"*-CCTXMRMT" Length of area
1108	(454)	ADDRESS	4	CCTSTUBA	CCTSTUB pointer (more stub routines

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
1112	(458)	ADDRESS	4	CCTXCBF	Cross system data retrieval work area
1116	(45C)	CHARACTER	8	CCTXNODE	Nodename when JESXCF attach was done (in our member name)
1124	(464)	BITSTRING	28	CCTJXCFD	JESXCF diagnostic area
1152	(480)	BITSTRING	1	CCTXSTS1	Cross system data retrieval subtask status flag byte. For proper serialization updates to this field should be done via an OIL/NIL.
		1...		CCTX1AVL	"B'10000000'" Interface available after IPL
		.1..		CCTX1INI	"B'01000000'" Subtask initialized
1153	(481)	BITSTRING	3		Reserved
1156	(484)	CHARACTER	8	CCTFMID	JES2 FMID

Comment

End of Read only (or rarely updated) fields
ORG to the next 256 byte memory cache line. This keeps read only fields on a separate cache line from frequently updated fields.
NOTE: The ORG to the next 256 byte memory cache line also creates reserved bytes that can be used by the service team to maintain JES2.
NOTE: Since the HCCT is obtained on a 256 byte boundary and it starts with a CSA prefix that is not in the HCCT, we need to account for the CSA prefix when rounding.

End of Comment

Comment

Start of often updated HCCT fields
USER COMMON STORAGE FIELDS.

End of Comment

1272	(4F8)	ADDRESS	4	CCTCUCT	Common user communication table
1276	(4FC)	ADDRESS	4	CCTUCADD	Addr of user common addr table
1280	(500)	ADDRESS	4	CCTUSER1	User field one
1284	(504)	ADDRESS	4	CCTUSER2	User field two
1288	(508)	ADDRESS	4	CCTUSER3	User field three
1292	(50C)	ADDRESS	4	CCTUSER4	User field four
1296	(510)	ADDRESS	4	CCTHASP	HASP condition = 0 - Still up = -1 - ABENDed or ABENDing = +1 - $PJES2 accepted
1296	(510)	X'1'	0	CCTPJES2	"1" $PJES2 accepted
		1...		CCTHOTST	"X'80'" Hot Start Indicated
1296	(510)	BITSTRING	0	CCTABEND	"X'FFFFFFFF'" JES2 has abended
1300	(514)	BITSTRING	1	CCTSTUS	Subsystem status byte
		1...		CCTSTUSP	"X'80'" This is the primary subsystem
		.1..		CCTSTUST	"X'40'" HASP termination complete
		..1.		CCTSTUSR	"X'20'" HASP is restarting
		...1		CCTSMVFN	"X'10'" SPOOL fencing active
		.... 1...		CCTSTIRV	"X'08'" CHKPT device reserved by INIT
		.... .1..		CCTSTPJF	"X'04'" $PJES2,ABEND,FORCE issued
		.... ..1.		CCTSLGDS	"X'02'" Large SPOOL DS support act
		1		CCTSTRPL	"X'01'" A re-IPL is required
1301	(515)	BITSTRING	1		Reserved
1302	(516)	SIGNED	2	CCTMASVR (0)	Versions active in JESplex (copy of $MASVER)
1302	(516)	SIGNED	1	CCTHIGHV	Highest active JES2
1303	(517)	SIGNED	1	CCTLOWV	Lowest active JES2
1304	(518)	DBL WORD	8	(0)	Doubleword align next
1304	(518)	BITSTRING	16	CCTJ2WAT	Time of last main task wait
1320	(528)	BITSTRING	16	CCTJ2DSP	Time of last main task post
1336	(538)	BITSTRING	4	CCTMEMUP	Copy of XMAMEMUP (members that HASPXCF considers up)
1340	(53C)	ADDRESS	4	CCTRCPCQ	Remote Console Processor FIFO CSA CMB queue
1344	(540)	ADDRESS	4	CCTINTRE	Address of first INTRDR element (IRE)
1348	(544)	ADDRESS	1	CCTMVER	Checkpoint level ($MSTRVER)

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
1349	(545)	BITSTRING	1	CCTFLAG1	FLAG BYTE
		1...		CCT1PJ2T	"B'10000000'" $PJES2,TERM processing has started
		.1..		CCT1PRDF	"B'01000000'" PREFIX DEFINED
		..1.		CCT1SSYS	"B'00100000'" CONDEF SCOPE=SYSTEM
		...1		CCT1SSYP	"B'00010000'" CONDEF SCOPE=SYSPLEX
		.... 1...		CCT1CKWI	"B'00001000'" Coupling facility write is in progress
		.... .1..		CCT1PJSA	"B'00000100'" $PJES2,ABEND issued
		.... ..1.		CCT1PJAC	"B'00000010'" $PJES2,ABEND seen
		1		CCT1E58D	"B'00000001'" ENF 58 debug option (internal)
1350	(546)	BITSTRING	1	CCTFLAG2	Flag byte #2 For proper serialization updates to this field should be done via an OIL/NIL.
		1...		CCT2IRDR	"B'10000000'" Internal readers can be allocated
		.1..		CCT2BATR	"B'01000000'" Internal readers can be used to submit BATCH jobs
		..1.		CCT2PITC	"B'00100000'" PIT(s) with no SJB need to be cleaned up
		...1		CCT2CRCF	"B'00010000'" CKPT RECONFIG is pending or is in progress
		.... 1...		CCT2OPRQ	"B'00001000'" Operator requested CKPT reconfiguration
		.... .1..		CCT2SAPI	"B'00000100'" SAPID scan needed
		.... ..1.		CCT2USJB	"B'00000010'" One or more SJBs have unspun IOTs to be processed
		1		CCT2PSO	"B'00000001'" PSO scan needed
1351	(547)	BITSTRING	1	CCTDEBUG	Debug options ($DEBGOPS)
1352	(548)	BITSTRING	1	CCTFLAG3	Flag byte #3 For proper serialization updates to this field should be done via an OIL/NIL.
		1...		CCT3CONI	"B'10000000'" CONSOLE address space environment initialized
		.1..		CCT3CONT	"B'01000000'" CONSOLE address space environment termination requested
		..1.		CCT3INDM	"B'00100000'" System is in independent mode
		...1		CCT3NHSB	"B'00010000'" An SJB has been newly removed from the HASB
		.... 1...		CCT3NEOM	"B'00001000'" An SJB has been newly placed on the EOM queue
		.... .1..		CCT3PJ2T	"B'00000100'" $P JES2,TERM has begun
		.... ..1.		CCT3MCJC	"B'00000010'" At least 1 multi char batch jobclass exists
1353	(549)	BITSTRING	1	CCTFLAG4	Flag byte #4 JES2 health check indicators
		1...		CCT411OK	"B'10000000'" 1.11 CKPT Mode activation already occurred
		.1..		CCT4REC1	"B'01000000'" CKPT1 needs additional 4K records = see CTTHCRC1
		..1.		CCT4REC2	"B'00100000'" CKPT2 needs additional 4K records - see CTTHCRC2
		...1		CCT4BERT	"B'00010000'" Additional BERTS needed - see CTTHCBRT
		.... 1...		CCT4LGDS	"B'00001000'" LARGEDS support needs to be activated
		.... .1..		CCT4MBR	"B'00000100'" One or more MAS members not at z/OS 1.11
		.... ..1.		CCT4JOBQ	"B'00000010'" JOB/OUTPUT queue error prevents both Z11 and Z2 activation.
		1		CCT4CRBR	"B'00000001'" Critical BERT shortage prevents both Z11 and Z2 activation.
1354	(54A)	BITSTRING	1	CCTFLAG5	Flag byte #5 For proper serialization updates to this field should be done via an OIL/NIL.
		1...		CCT5DSRG	"B'10000000'" Large dataset name range enabled
		.1..		CCT5PSTV	"B'01000000'" New CKPT version needed
1355	(54B)	BITSTRING	1		Reserved

Comment

CONSOLE SERVICE ELEMENTS

End of Comment

1356	(54C)	BITSTRING	4	CCTCKCON	Console ID for operator requested CKPT reconfig.
1360	(550)	SIGNED	4	CCTDOM86	DOM ID for HASP086
1364	(554)	ADDRESS	4	CCTCOMMQ	COMMAND PROCESSOR QUEUE
1368	(558)	SIGNED	4	CCTCOMCT	In use count for commands
1372	(55C)	SIGNED	4	CCTCMDMX	Maximum number of commands (CMDNUM on CONDEF)
1376	(560)	SIGNED	4	CCTNMCUR	Current number notify CMBs
1380	(564)	SIGNED	4	CCTNMMAX	Maximum no.of notify CMBs

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
1384	(568)	SIGNED	4	CCTNMFAL	No. of NOTIFY failures
1388	(56C)	ADDRESS	4	CCTCMQTP	Command processing queue from JECL (INTRDRs)
1392	(570)	ADDRESS	4	(2)	Reserved for future use

Comment

CROSS-SYSTEM REQUESTS CONTROL INFORMATION. THIS MUST
BE MAINTAINED WITH COMPARE AND SWAP. NEW CROSS-SYSTEM
REQUESTS ACCEPTED INDICATOR AND
COUNT OF CROSS SYSTEM SERVICE REQUESTS (SPOOL DATA SET
BROWSE AND JOB INFORMATION SERVICES). INITIALIZED BY
HASPIRMA.

End of Comment

1400	(578)	DBL WORD	8	CCTXSYS (0)	DOUBLE WORD FOR CDS
1400	(578)	BITSTRING	3		RESERVED FOR IBM USE
1403	(57B)	BITSTRING	1	CCTXSYSF	CROSS-SYSTEM REQUESTS ACCEPTED FLAG
		1		CCTNXSYS	"X'01'" NO NEW CROSS-SYSTEM REQUESTS ARE TO BE ACCEPTED
1404	(57C)	SIGNED	4	CCTXSYSN	COUNT OF CROSS-SYSTEM REQ'S

Comment

$$POST ELEMENTS -- REQUESTS FOR PCE SERVICE
These post elements match order of PCEs listen in HCT.
Any change made here must also be reflected in HCT.

End of Comment

1408	(580)	DBL WORD	8	CCTECF (0)	ECF FIELD FOR $$POST, IF BIT IS 1 PCES WAITING FOR CORRESPONDING RESOURCE SHOULD BE $POSTED
1416	(588)	ADDRESS	4	CCTPCEPE (0)	START OF PCE $$POST ELEMENTS
1416	(588)	BITSTRING	5	CCTCOMM	$COMMPCE - commands
1420	(58C)	BITSTRING	5	CCTJOB	$EXECPCE - XEQ services
		1...		CCTJOBPF	"X'80'" Job post flag
1424	(590)	BITSTRING	5	CCTASYNC	$ASYNPCE - asynch I/O
1428	(594)	BITSTRING	5	CCTXSTIM	$XTIMPCE - time excession
1432	(598)	BITSTRING	5	CCTTIMER	$TIMEPCE - STIMER
1436	(59C)	BITSTRING	5	CCTTRPCE	$TRCPCE - event trace log
1440	(5A0)	BITSTRING	5	CCTSPOOL	$SPOLPCE - SPOOL
1444	(5A4)	BITSTRING	5	CCTMLLM	$MLLMPCE - line manager
1448	(5A8)	BITSTRING	5	CCTOFFM	$SOMPCE - SPOOL offload
1452	(5AC)	BITSTRING	5	CCTCKPTP	$CKPTPCE - checkpoint
1456	(5B0)	BITSTRING	5	CCTRCP	$MCONPCE - Remote Console
1460	(5B4)	BITSTRING	5	CCTSSPCE	$SFSPCE -Schedulr Service
1464	(5B8)	BITSTRING	5	CCTENFP	$ENFPCE - ENF listen PCE
1468	(5BC)	BITSTRING	5	CCTJQRP	$JQRPCE - JQE request PCE
1472	(5C0)	BITSTRING	5	CCTMISC	$MISCPCE - Miscellaneous
1472	(5C0)	X'F'	0	CCTPCENO	"(*-CCTPCEPE)/4" Number of PCE $$POST elmts
1476	(5C4)	BITSTRING	5	CCTPCEFL	Reserved
1480	(5C8)	BITSTRING	5		Reserved

Comment

CHAINING FIELD FOR THE CSA CELL SERVICES. $GETCEL AND $FRECEL
IN HASCLINK. ALSO, THE CELL STORAGE ALLOCATED AND CELL
STORAGE ALLOCATED BUT NOT IN USE FIELDS.

End of Comment

1484	(5CC)	ADDRESS	4	CCTCSACH	CSA CELL CHAIN HEADER
1488	(5D0)	SIGNED	4	CCTCALLC	CSA ALLOCATED CELL STORAGE
1492	(5D4)	SIGNED	4	CCTCFREE	CSA FREE CELL STORAGE

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
				Comment	
				Communication queues and WAIT/POST elements for main task communication with user address spaces.	

				Cross-memory POST parameter list for use by $$POST. The ECB address actually points to a piece of fixed CSA containing the ECB, CCTPOSTW, and CCTBLANKs.	

				CTPOSTE POST - , POST word 1 = main task ECB addr ASCB= - , POST word 2 = JES2 ASCB addr ERRET=CCTBR14 POST word 3 = CCTBR14 ECBKEY=YES POST word 4 = Key of ECB MACDATE 03/11/11	
				End of Comment	
1496	(5D8)	ADDRESS	4	CCTPOSTE	. 1ST WORD - ECB ADDRESS
1500	(5DC)	ADDRESS	4		. 2ND WORD - ASCB ADDRESS
1504	(5E0)	ADDRESS	4		. 3RD WORD - ERRET ADDRESS
1508	(5E4)	ADDRESS	4		. 4TH WORD - BYTE0,ECBKEY
1508	(5E4)	X'5D8'	0	CCTHECBA	"CCTPOSTE" ADDRESS OF MAIN HASP ECB
1508	(5E4)	X'5DC'	0	CCTASCB	"CCTPOSTE+4,4,C'A'" ADDRESS OF HASP ASCB
1508	(5E4)	X'5E4'	0	CCTHECBK	"CCTPOSTE+12,1" Storage key of HASP ECB
1508	(5E4)	X'4'	0	CCTPOSTW	"4" OFFSET TO $$POST WORK INDICATOR
1508	(5E4)	X'8'	0	CCTBLANK	"8" 48 FIXED BLANKS
1508	(5E4)	X'38'	0	CCTFIXL	"4+1+3+48" LENGTH OF FIXED CSA SPACE
1512	(5E8)	SIGNED	4	(0)	Align CCTCGECB
1512	(5E8)	BITSTRING	1	CCTCGECB	CSA general ECB/XECB
				Comment	

				The SJB job communication queues.	

				HASCSRJB is dependent on any SJB queue that could be a valid value for the SJBQUEUE field in the SJB to be between CCTSJBB and CCTSJBE.	
				End of Comment	
1536	(600)	ADDRESS	4	CCTSJBB (0)	Beginning of SJB queues <----
1536	(600)	ADDRESS	4	CCTJPCLS	SJBS PENDING JOB-BY-CLASS |
1540	(604)	ADDRESS	4	CCTJPWLM	SJBS PENDING WLM init |
1544	(608)	ADDRESS	4	CCTJPNUM	SJBS PENDING JOB-BY-NUMBER |
1548	(60C)	ADDRESS	4	CCTJXCLS	SJBS EXECUTING JOB-BY-CLASS |
1552	(610)	ADDRESS	4	CCTJXNUM	SJBS EXECUTING JOB-BY-NUMBER|
1556	(614)	ADDRESS	4	CCTJTERM	SJBS WITH JOBS TO TERMINATE |
1560	(618)	ADDRESS	4	CCTJRENQ	SJBS WITH JOBS TO RE-ENQUEUE|
1564	(61C)	ADDRESS	4	CCTSJBE (0)	End of SJB queues <----
1564	(61C)	ADDRESS	4	CCTJTEOM (2)	Address of first and last SJB on EOM queue

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
				Comment	
				CCTMSMPC is the current sampling buffer being used by the monitor. CCTMSMPS is a frozen sampling buffer captured for dump processing. Under normal processing CCTMSMPC and CCTMSMPS point to the same buffer. To freeze a buffer, clear CCTMSMPC. The monitor will get another buffer for processing. To release a frozen buffer, clear CCTMSMPS. The next sample will reset CCTMSMPS.	
				End of Comment	
1572	(624)	ADDRESS	4	CCTMSMPC	Cur monitor sampling buffer
1576	(628)	ADDRESS	4	CCTMSMPS	Frozen sampling buffer
1580	(62C)	SIGNED	4	CCTJLMAX	Local maximum job number (from $JNT)
1584	(630)	SIGNED	4	CCTSLKST	Number of times $SJBLOCK was stolen - update using CS logic
1588	(634)	SIGNED	4	CCTSLKUS	Number of times $SJBLOCK was usurped - update using CS logic
1592	(638)	SIGNED	4	CCTDGBRT	Number of times BERTREAD (DGBMVBRT) gives up retry. Update using CS logic
1596	(63C)	SIGNED	4	CCTBEGN	Number of times $SSIBEGN removed stale HASBs - update using CS logic
1600	(640)	ADDRESS	4	CCTCSHED	Head of STAC FIFO queue
1604	(644)	ADDRESS	4	CCTCSTAI	Tail of STAC FIFO queue
1608	(648)	ADDRESS	4	CCTPSO	Head of PSO LIFO queue
1612	(64C)	ADDRESS	4	CCTPSOQ	Addr of MTQH for PSO
1616	(650)	ADDRESS	4	CCTSPIOT	CHAIN OF IOTS AWAITING SPIN
1620	(654)	ADDRESS	4	CCTFIFOQ	FIFO REORDERED SPIN/HOLD REQUESTS
1624	(658)	SIGNED	4	CCTSPINC	COUNT OF SPIN IOTS SPUN
1632	(660)	DBL WORD	8	(0)	Ensure CCT1SAP aligned <---
1632	(660)	ADDRESS	4	CCT1SAP	Address of first SAPID in | the SAPID data space |
1636	(664)	SIGNED	4	CCT1SAPC	Counter used in CDS <---
1640	(668)	SIGNED	4	CCTSJWEL	Last unique JWEL key assigned to a SAPID
1644	(66C)	ADDRESS	4	CCTSAPIQ	Address of MTQH for SAPI requests
1648	(670)	ADDRESS	4	CCTTINA	Address of TINA (WTO D S)
1652	(674)	SIGNED	4	CCTTINAA	ALET for TINA (WTO D S)
1656	(678)	ADDRESS	4	CCTIOERR	SPOOL PROCESSOR I/O ERROR QUEUE
1660	(67C)	ADDRESS	4	CCTNOUSQ	Notify User Request Queue
1664	(680)	ADDRESS	4	CCTPAD	Head of PROCLIB PAD queue
1668	(684)	ADDRESS	4	CCTCIP	Head of CIPARM area queue
1672	(688)	ADDRESS	4	CCTCICB	Head of CICB queue
1676	(68C)	SIGNED	4	(2)	Reserved
				Comment	
				Following fields contain the queue heads and counts for resource management of Scheduler Facility Service SFRBs acquired in ECSA. The CCTSFREQ/CCTSSRCT fields are serialized using CDS and must be kept in a doubleword.	
				End of Comment	
1688	(698)	DBL WORD	8	CCTSFREQ (0)	Scheduler Facilty Request Q
1688	(698)	ADDRESS	4		Request queue header
1692	(69C)	SIGNED	4	CCTSSRCT	Count of SFRBs on Request Q
1696	(6A0)	ADDRESS	4	CCTSFPNQ	Scheduler Facilty Pending Q
1700	(6A4)	SIGNED	4	CCTSSNCT	Count of SFRBs on Pending Q
1704	(6A8)	ADDRESS	4	CCTSFPRQ	Scheduler Facilty Process Q
1708	(6AC)	SIGNED	4	CCTSSPCT	Count of SFRBs on Process Q
1712	(6B0)	SIGNED	4	CCTSSMAX	Maximum no.of SFRBs
1716	(6B4)	BITSTRING	1	CCTSSTAT	Status flag for Sched.Serv

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
		1...		CCTSSDWN	"B'10000000'" Scheduler PCE disabled
		.1..		CCTSSDIS	"B'01000000'" Scheduler PCE disabling
1717	(6B5)	ADDRESS	3		Reserved for future IBM use
1720	(6B8)	ADDRESS	4	CCTFSSCB	ADDR OF FIRST FSSCB IN CHAIN

Comment

SPOOL DATA MANAGEMENT

End of Comment

1724	(6BC)	ADDRESS	4	CCTSRCH	TGB ENTRY TO BEGIN TG SEARCH FROM FOR $STRAK AND $TRACK
1728	(6C0)	ADDRESS	4	CCTPDDB1	OFFSET WITHIN IOT OF 1ST PDDB
1732	(6C4)	ADDRESS	4	CCTTGAEL	TGAE AREA LENGTH FOR A NON-SPIN PRIMARY ALLOCATION IOT
1736	(6C8)	SIGNED	2	CCTNBUFX	Copy of $NUMBUFX from HCT (can update via command)
1738	(6CA)	BITSTRING	6		Reserved
1744	(6D0)	DBL WORD	8	(0)	Doubleword alignment to force optimum MVC performance
1744	(6D0)	BITSTRING	32	CCTMTSPL	SPOOLS WHICH HAVE SPACE
1776	(6F0)	BITSTRING	32	CCTSPLAF	Spools with affinity for this member
1808	(710)	BITSTRING	32	CCTVBLOB	Spools with space in the BLOB
1840	(730)	BITSTRING	12	CCTTGBA (0)	TGB VALUES FOR BLOB
1840	(730)	ADDRESS	4	CCTTGBF	FIRST TGB ENTRY ADDRESS
1844	(734)	ADDRESS	4	CCTTGBS	TGB ENTRY SIZE
1848	(738)	ADDRESS	4	CCTTGBL	Last TGB entry
1852	(73C)		4	CCTBYTS	Bytes of spool (FP value)
1856	(740)	BITSTRING	1	CCTNQCNT	SPOOL ENQ COUNTER
1857	(741)	BITSTRING	1	CCTFNCNT	Number of volumes to fence a job to
1858	(742)	BITSTRING	2		Reserved for future use
1860	(744)	SIGNED	4	CCTTGDEF	Number of defined TGs ($TGDEFND)
1864	(748)	DBL WORD	8	(0)	FORCE DOUBLEWORD ALIGNMENT
1864	(748)	ADDRESS	4	CCTTGASC	TGB REQUEST ASCB
1868	(74C)	ADDRESS	4	CCTTGECB	TGB REQUEST ECB
1872	(750)	ADDRESS	4	CCTELCMB	Addr of first CMB for reset ckpt lock command. Use CS logic to update.
1876	(754)	ADDRESS	4	CCTPJCLQ	Address of main task queue header for PJCL requests

Comment

The following 2 fields can be used in conjunction with the QSESITIM field on a HOT start to determine if a CKPT write has completed. CCTCKTAC is a copy of $CKPTOAC and represents the active CKPT write. CCTCKTNX is a copy of $CKPTONX and represents the next checkpoint write. CCTSITIM is a copy of QSESITIM and represents when the current write started.
Assuming this is a hot start and you have a CKPT token from before JES2 went down, then the following logic will tell you if the write actually completed.
- If TOKEN ¬= CCTCKTAC and TOKEN ¬= CCTCKTNX then the write has completed
- If TOKEN = CCTCKTNX then the write never started and the CKPT did not happen
- If TOKEN = CCTCKTAC then the write started. To determine if it actually completed, check QSESITIM (in the $QSE in $INIWARM)
  - If CCTSITIM = QSESITIM then the write completed
  - If CCTSITIM ¬= QSESITIM then the write never happened.

End of Comment

1880	(758)	SIGNED	4	CCTCKTAC	Active CKPT I/O token

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
1884	(75C)	SIGNED	4	CCTCKTNX	Next CKPT I/O token
1888	(760)	BITSTRING	8	CCTSITIM	TOD of last CKPT write

Comment

Queue heads for ENF LISTEN Event processor.

End of Comment

1896	(768)	DBL WORD	8	CCTENFQ (0)	EVT queue
1896	(768)	ADDRESS	4	CCTENFQH	EVT head
1900	(76C)	ADDRESS	4	CCTENFQT	EVT tail

Comment

Queue heads for JQE Request processor

End of Comment

1904	(770)	DBL WORD	8	CCTJQRBQ (0)	JQE Request block queue
1904	(770)	ADDRESS	4	CCTJQRBH	JQRB head
1908	(774)	ADDRESS	4	CCTJQRBT	JQRB tail

Comment

Each time a structure available ENF is received,
the JES2 listen exit increments this count. This
is used to determine when structures become
available for processing.

End of Comment

1912	(778)	SIGNED	4	CCTXESEV	Structure avail ENF count
1916	(77C)	CHARACTER	4	CCTDFCB	Default printer FCB (see $PRTFCB in HCT)

Comment

Data needed by Health Checker for messages about
1.11 Checkpoint mode activation.

End of Comment

1920	(780)	SIGNED	4	CCTHCRC1	Number of 4K records needed by CKPT1
1924	(784)	SIGNED	4	CCTHCRC2	Number of 4K records needed by CKPT2
1928	(788)	SIGNED	4	CCTHCBRT	Number of BERTs needed

Comment

SAPI WSP chains.
These chains are used by JES2 main task only.
ALET for these pointers is in $SAPTOK.

End of Comment

1932	(78C)	ADDRESS	4	CCTSAWST	1st postable SAPI WSP with selection on token
1936	(790)	ADDRESS	4	CCTSAWXO	Oldest postable SAPI WSP with selection expression
1940	(794)	ADDRESS	4	CCTSAWXN	Newest postable SAPI WSP with selection expression

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
			Comment		
		CKPT versions ENQ minor names Managed by the CKPT PCE and used delay processes that require a specific checkpoint version. To delay for the next version of a specific type, get a shared ENQ on the appropriate minor name (major name is SYSZjesx). The ENQ should be released after it is obtained.			
			End of Comment		
1944	(798)	CHARACTER	16	CCTMASMN	Latest MAS level info
1960	(7A8)	CHARACTER	16	CCTMBRMN	Latest member info
			Comment		
		Patch space for code that uses R11 addressability to the HCCT, and the SYSOUT Class Attribute Table (SCAT). These should be the last HCCT fields.			
			End of Comment		
1976	(7B8)	DBL WORD	8	(0)	
1976	(7B8)	BITSTRING	256	CCTPATCH (2)	Patch spc for R11-HCCT code
			Comment		
		---------- Use the address in CCTSCATP to reference the SCAT rather than doing a LA of CCTSCAT. This helps to prevents massive reassemblies of modules if the length of $HCCT is changed in an APAR. ----------			
			End of Comment		
2488	(9B8)	SIGNED	2	CCTSCAT (0)	SYSOUT CLASS ATTRIBUTE TABLE
2488	(9B8)	BITSTRING	1	(0)	SYSOUT CLASSES A-Z, 0-9
2488	(9B8)	X'C0'	0	CCTSTLEN	"*-CCTSCAT" LENGTH OF SCAT TABLE
2680	(A78)	ADDRESS	2	(0)	Force asmbly error if SCAT not last
2680	(A78)	DBL WORD	8	(0)	Ensure alignment
2680	(A78)	X'A78'	0	CCTLEN	"*-HCCT" LENGTH OF HCCT

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	0	CCTSTUB	, CSA stub routines
0	(0)	CHARACTER	8	STBID	Eyecatcher
			Comment		
		Stub routine for $MSDDUMP dynamic exit			
			End of Comment		
8	(8)	DBL WORD	8	(0)	Ensure alignment
22	(16)	SIGNED	2		Reserved
24	(18)	CHARACTER	8		Routine eyecatcher
32	(20)	DBL WORD	8	(0)	Round up
32	(20)	X'18'	0	STBMSDLN	"*-STBMDDMP" $MSDDUMP stub routine

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
					Comment
					Stub routine for $DYNLPA dynamic exit
					End of Comment
32	(20)	DBL WORD	8	(0)	Ensure alignment
46	(2E)	SIGNED	2		Reserved
48	(30)	CHARACTER	8		Routine eyecatcher
56	(38)	DBL WORD	8	(0)	Round up
56	(38)	X'18'	0	STBDYLLN	"*-STBDYLPA" $DYNLPA stub routine
					Comment
					Stub routine for $ECBEXIT ECB POST exit
					End of Comment
56	(38)	DBL WORD	8	(0)	Ensure alignment
72	(48)	CHARACTER	8		Routine eyecatcher
80	(50)	DBL WORD	8	(0)	Round up
80	(50)	X'18'	0	STBECXLN	"*-STBECBEX" $ECBEXIT stub routine
					Comment
					Stub routine for HAMPSTER ECB POST exit
					End of Comment
80	(50)	DBL WORD	8	(0)	Ensure alignment
96	(60)	CHARACTER	8		Routine eyecatcher
104	(68)	DBL WORD	8	(0)	Round up
104	(68)	X'18'	0	STBECSLN	"*-STBECBSD" $ECBEXIT stub routine
					Comment
					Stub routine for SWAREAD service routine Entered in 24 bit mode and switched to AMODE 31
					End of Comment
104	(68)	DBL WORD	8	(0)	Ensure alignment
					Comment
					SAM31 , Get into AMODE 31
					End of Comment
108	(6C)	BITSTRING	2		(DC for IPCS expansions)
					Comment
					LLILF R11,HCCT-HCCT Get HCCT address
					End of Comment
110	(6E)	BITSTRING	6		(DC for IPCS expansions)
110	(6E)	X'70'	0	STBSWRCT	"*-4,4" Where to store HCCT address
126	(7E)	CHARACTER	8		Routine eyecatcher
136	(88)	DBL WORD	8	(0)	Round up
136	(88)	X'20'	0	STBSWRLN	"*-STBSWARD" SWAREAD stub routine
136	(88)	BITSTRING	20		Reserved
160	(A0)	DBL WORD	8	(0)	Ensure alignment
160	(A0)	X'A0'	0	STBLEN	"*-CCTSTUB" Length of stub area

$HCCT Cross Reference

Name	Hex Offset	Hex Value
CCT#INDX	1E8	
CCTABEND	510	FFFFFF
CCTALLFF	78	78
CCTAMVEC	164	
CCTASCB	5E4	5DC
CCTASDS	1FC	
CCTASYNC	590	0
CCTAUXCB	17C	
CCTAXL	378	
CCTAXN	378	
CCTAXV	37A	
CCTBADA	E8	
CCTBATMD	2B4	
CCTBDJNC	131	
CCTBEGN	63C	0
CCTBFSIZ	214	
CCTBLANK	5E4	8
CCTBLNKS	18	40404040
CCTBMAPS	184	
CCTBYTS	73C	0
CCTCADDR	148	
CCTCALLC	5D0	0
CCTCBRT	188	
CCTCDCTQ	208	
CCTCFREE	5D4	0
CCTCGECB	5E8	0
CCTCICB	688	
CCTCIP	684	
CCTCKCON	54C	
CCTCKPTP	5AC	0
CCTCKPT1	2E8	40404040
CCTCKPT2	330	40404040
CCTCKTAC	758	
CCTCKTNX	75C	
CCTCMDMX	55C	
CCTCMQTP	56C	
CCTCOLDT	3FC	
CCTCOMCH	1C5	40
CCTCOMCT	558	
CCTCOMM	588	0
CCTCOMMQ	554	
CCTCPIDX	150	
CCTCSACH	5CC	
CCTCSHED	640	
CCTCSTAI	644	
CCTCTABS	14C	
CCTCUCT	4F8	
CCTDAS1	18C	
CCTDCB	354	354
CCTDEBFX	388	
CCTDEBUG	547	
CCTDFCB	77C	
CCTDGBRT	638	0
CCTDOM86	550	
CCTDSB	210	
CCTDSTFL	1C6	0
CCTECF	580	0
CCTELCMB	750	
CCTENFP	5B8	0
CCTENFQ	768	
CCTENFQH	768	
CCTENFQT	76C	
CCTENFST	204	
CCTEST1	21C	
CCTETDEF	190	
CCTEVTA	200	
CCTEXTBL	1DC	
CCTFFS	78	
CCTFIFOQ	654	
CCTFIXL	5E4	38
CCTFLAG0	1C7	0
CCTFLAG1	545	0
CCTFLAG2	546	0
CCTFLAG3	548	
CCTFLAG4	549	
CCTFLAG5	54A	
CCTFMAX	E0	E0
CCTFMID	484	
CCTFNCNT	741	0
CCTFSSCB	6B8	
CCTF1	B8	1
CCTF12	CC	C
CCTF16	D0	10
CCTF2	BC	2
CCTF255	D4	FF
CCTF4	C0	4
CCTF4096	D8	1000
CCTF6	C4	6
CCTF8	C8	8
CCTGGDKB	3E4	
CCTGGDKL	3E0	
CCTGGDKN	3DC	
CCTGGFKB	3E8	
CCTGGRSV	3DE	
CCTGPNM	39C	
CCTGRADR	3B0	
CCTGRECX	3B4	
CCTGRPEX	3B8	
CCTHASP	510	
CCTHAVT	178	
CCTHCBRT	788	
CCTHCRC1	780	
CCTHCRC2	784	
CCTHCT	154	
CCTHECBA	5E4	5D8
CCTHECBK	5E4	5E4
CCTHIBIT	E4	
CCTHIGHV	516	
CCTHMAX	E0	E0
CCTHOTST	510	80
CCTHTCBA	158	
CCTH1	B8	BA
CCTH12	CC	CE
CCTH16	D0	D2
CCTH2	BC	BE
CCTH255	D4	D6
CCTH4	C0	C2
CCTH4096	D8	DA
CCTH6	C4	C6
CCTH8	C8	CA
CCTIINFO	198	
CCTILVL	7	
CCTIMETB	258	
CCTINTRE	540	
CCTINXTB	1E0	
CCTIOERR	678	

Name	Hex Offset	Hex Value
CCTIPDDB	1F8	
CCTIRSMD	2B0	
CCTIXVT	398	
CCTJACCT	1F0	
CCTJDVT	390	
CCTJES2_LEVEL		
	3BC	
CCTJLMAX	62C	0
CCTJOB	58C	0
CCTJOBPF	58C	80
CCTJOPTS	281	0
CCTJPCLS	600	
CCTJPNUM	608	
CCTJPWLM	604	
CCTJQELN	1AE	0
CCTJQRBH	770	
CCTJQRBQ	770	
CCTJQRBT	774	
CCTJQRP	5BC	0
CCTJRENQ	618	
CCTJSPL	129	128
CCTJSPLL	128	
CCTJSPLV	129	D1C5E2E2
CCTJSTKN	15C	0
CCTJTEOM	61C	
CCTJTERM	614	
CCTJVJOB	2DC	
CCTJVSTC	2D4	
CCTJVTSU	2D8	
CCTJXCFD	464	
CCTJXCLS	60C	
CCTJXNUM	610	
CCTJ2DSP	528	0
CCTJ2WAT	518	0
CCTKAC	170	
CCTKEYTB	38C	
CCTLEN	A78	A78
CCTLEVEL	3BC	
CCTLINCT	282	
CCTLMT1	C	
CCTLNINT	234	
CCTLOWV	517	
CCTMASCB	1A4	
CCTMASMN	798	E5C5D9E2
CCTMASVR	516	
CCTMBRMN	7A8	E5C5D9E2
CCTMEMUP	538	
CCTMGTD	424	
CCTMGTP	41C	
CCTMGTU	41C	
CCTMISC	5C0	0
CCTMLLM	5A4	0
CCTMONCB	1A0	
CCTMSMPC	624	
CCTMSMPS	628	
CCTMTSPL	6D0	0
CCTMVER	544	
CCTMVSNM	1CC	40404040
CCTNACCT	1F4	
CCTNBUFX	6C8	0
CCTNDE	28F	
CCTNDENL	28F	0
CCTNDENM	290	
CCTNEG1	78	78
CCTNITA	2AC	
CCTNITBL	1A8	
CCTNITSZ	1AC	0
CCTNMCUR	560	
CCTNMFAL	568	
CCTNMMAX	564	
CCTNONOD	298	0
CCTNOUSQ	67C	
CCTNQCNT	740	0
CCTNSPB	216	217
CCTNSPL	216	0
CCTNXSYS	57B	1
CCTOFFM	5A8	0
CCTOFSTB	8	
CCTOTINT	228	
CCTPAD	680	
CCTPATCH	7B8	0
CCTPCEFL	5C4	0
CCTPCENO	5C0	F
CCTPCEPE	588	
CCTPCT	29C	
CCTPDDB1	6C0	
CCTPGINT	21C	
CCTPIT	1B0	
CCTPITNM	1B4	0
CCTPJCLQ	754	
CCTPJES2	510	1
CCTPLVL	3C4	
CCTPOSTE	5D8	
CCTPOSTW	5E4	4
CCTPSO	648	
CCTPSOQ	64C	
CCTPUINT	240	
CCTPVRSN	10	
CCTQINDX	1E4	
CCTQNAM	3EC	
CCTRBGN	1D4	
CCTRCOMC	1C4	40
CCTRCP	5B0	0
CCTRCPCQ	53C	
CCTRDRSC	404	C9D5E3D9
CCTRDT	2A4	
CCTRDTA	2A8	
CCTREQJI	2C0	
CCTRLMT	1D8	
CCTROPTS	280	0
CCTROUT	29A	0
CCTRRT	2A0	
CCTSAPIQ	66C	
CCTSAPLK	414	E2C1D7C9
CCTSAWST	78C	
CCTSAWXN	794	
CCTSAWXO	790	
CCTSCAT	9B8	
CCTSCATP	1B8	
CCTSCIDS	174	
CCTSDADR	3A4	
CCTSDECX	3A8	
CCTSDPEX	3AC	
CCTSEGLM	2E0	
CCTSFPNQ	6A0	
CCTSFPRQ	6A8	
CCTSFREQ	698	
CCTSID	1C8	40404040
CCTSINFO	19C	
CCTSITIM	760	

Name	Hex Offset	Hex Value
CCTSJBB	600	
CCTSJBE	61C	
CCTSJWEL	668	0
CCTSLGDS	514	2
CCTSLKST	630	0
CCTSLKUS	634	0
CCTSLVL	3C5	
CCTSMVFN	514	10
CCTSNV	3F0	
CCTSPINC	658	0
CCTSPIOT	650	
CCTSPLAF	6F0	0
CCTSPLCL	2E4	
CCTSPLNM	21A	0
CCTSPOOL	5A0	0
CCTSRCH	6BC	
CCTSSCT	16C	
CCTSSDIS	6B4	40
CCTSSDWN	6B4	80
CCTSSMAX	6B0	
CCTSSNCT	6A4	
CCTSSNM	3F0	5C5C5C5C
CCTSSNML	3F8	0
CCTSSPCE	5B4	0
CCTSSPCT	6AC	
CCTSSRCT	69C	
CCTSSTAT	6B4	0
CCTSSVS	3F4	5C5C5C5C
CCTSSVT	144	
CCTSTCMD	2B8	
CCTSTDSI	1C7	40
CCTSTFRM	284	E2E3C440
CCTSTIRV	514	8
CCTSTLEN	9B8	C0
CCTSTPJF	514	4
CCTSTRPL	514	1
CCTSTUB	0	
CCTSTUBA	454	
CCTSTUS	514	0
CCTSTUSP	514	80
CCTSTUSR	514	20
CCTSTUST	514	40
CCTSVJLK	40C	E2E5D140
CCTSYSLX	194	0
CCTTDLY	2CC	
CCTTED	1BC	
CCTTGAEL	6C4	
CCTTGASC	748	
CCTTGBA	730	
CCTTGBF	730	
CCTTGBL	738	
CCTTGBS	734	
CCTTGDEF	744	0
CCTTGECB	74C	
CCTTIMER	598	0
CCTTIMOP	250	
CCTTINA	670	
CCTTINAA	674	0
CCTTKCEL	219	
CCTTMINT	24C	
CCTTO	28C	
CCTTOKA	1C0	
CCTTONOD	28C	0
CCTTOQUL	28E	
CCTTPHZ	2C8	
CCTTRPCE	59C	0
CCTTSOMD	2BC	
CCTUCADD	4FC	
CCTUSER1	500	
CCTUSER2	504	
CCTUSER3	508	
CCTUSER4	50C	
CCTVBLOB	710	0
CCTVRNUM	0	D
CCTVRSN	0	
CCTXASCB	180	
CCTXCBF	458	
CCTXESEV	778	
CCTXITA	2C4	
CCTXMAQ	1EC	
CCTXMRML	452	14
CCTXMSRL	43E	14
CCTXNODE	45C	
CCTXSTIM	594	0
CCTXSTS1	480	0
CCTXSYS	578	
CCTXSYSF	57B	0
CCTXSYSN	57C	0
CCTXTRAN	132	44
CCTX1AVL	480	80
CCTX1INI	480	40
CCTZERO	38	38
CCTZEROS	38	0
CCT0EASS	1C7	80
CCT0FFF	DC	FFFFFF
CCT000F	D4	D4
CCT1CKWI	545	8
CCT1E58D	545	1
CCT1PJAC	545	2
CCT1PJSA	545	4
CCT1PJ2T	545	80
CCT1PRDF	545	40
CCT1SAP	660	
CCT1SAPC	664	0
CCT1SSYP	545	10
CCT1SSYS	545	20
CCT2BATR	546	40
CCT2CRCF	546	10
CCT2IRDR	546	80
CCT2OPRQ	546	8
CCT2PITC	546	20
CCT2PSO	546	1
CCT2SAPI	546	4
CCT2USJB	546	2
CCT3CONI	548	80
CCT3CONT	548	40
CCT3INDM	548	20
CCT3MCJC	548	2
CCT3NEOM	548	8
CCT3NHSB	548	10
CCT3PJ2T	548	4
CCT4BERT	549	10
CCT4CRBR	549	1
CCT4JOBQ	549	2
CCT4LGDS	549	8
CCT4MBR	549	4
CCT4REC1	549	40
CCT4REC2	549	20
CCT411OK	549	80
CCT5DSRG	54A	80

$HCCT Cross Reference

Name	Hex Offset	Hex Value
CCT5PSTV	54A	40
CCT7FFF	E0	7FFFFFFF
HCCT	0	
STBDYLLN	38	18
STBECSLN	68	18
STBECXLN	50	18
STBID	0	C3C3E3E2
STBLEN	A0	A0
STBMSDLN	20	18
STBSWRCT	6E	70
STBSWRLN	88	20

$HCT Information

$HCT Programming Interface information

Programming Interface information

$HCT

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

- $ALIPCE
- $BERTPTR
- $CALCUR
- $CALONE
- $CHLOG
- $CHLOGLN
- $CKC
- $CKG1
- $CKG2
- $CKPTFG1
- $CKPTFG2
- $CKPTFG3
- $CKPTFG4
- $CKPTFG5
- $CKPTFLG
- $CKPTIO
- $CKPTPTR
- $CKRECN
- $CKW
- $CLCB
- $CTLB
- $CTLBIO
- $CTLBX
- $CURPCE
- $DAWNPCE
- $DILHEAD
- $DILPCE
- $DILTAIL
- $DRQUES
- $DTECKCF
- $DTEEOM
- $DWAHEAD
- $DWATAIL
- $ECBEXTN
- $EOMPCE
- $ERRTABA
- $EXTECBQ
- $FIXCHLG
- $FIXLIST
- $HASCB
- $HASPDCB
- $HASPECB
- $HASPECF
- $HASPRB
- $IRCPCE
- $JOXPTR
- $JOXSIZE
- $JQRPCE
- $JQXPTR
- $KITPTR
- $LCKPTR
- $MASECF
- $MASTER
- $MASTERI
- $MASTERL
- $MISCPCE
- $MLLMECF
- $MSTRID
- $MSTRVER
- $MSTRVRN
- $MVSDISP
- $MVSWAIT
- $NWECB
- $PCELAST
- $PCEORG
- $RCDFRST
- $RCDSIZE
- $READY
- $READYF
- $READYL
- $SAPCACH
- $SCLPEND
- $SPIPCE
- $SPLCNT
- $TBLNUM
- $TGBAD
- $TGMADDR
- $TGMAP
- $TGMHEAD
- $TIPSPCE
- $VERSACT
- $VERSINI
- $VERSKPT
- $VERSSTT
- $WCHECK
- $XECBQ
- $XECBQF
- $XECBQL

End of Programming Interface information

$HCT Heading Information

Common Name: HASP Communication Table
Macro ID: $HCT
DSECT Name: HCT
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: MIT entry for HASPNUC ('MIT HASPNUC ')
Offset: HASPCT-HCT
Length: 12
Storage Attributes: Subpool: The subpool of the HASJES20 load module.
Key: 1
Residency: Virtual and real storage are below 16M, in the private storage of the JES2 address space. The storage is page fixed.
Size: See HCTLEN
Created by: The HCT is assembled into the front of the HASPNUC module and is loaded when the HASJES20 load module is loaded.
Pointed to by:
- As one of the key JES2 control blocks for processing from the JES2 address space, the HCT address is usually in general purpose register 11 in the assembly environments known as JES2 and SUBTASK.
- The label HASPCT in HASPNUC, defined as an external symbol for code in the HASJES20 load module, is the address of the HCT.
- The HCT is at the front of the HASJES20 load module so the module storage address in the MVS CDE for HASJES20 points to the HCT.
- The CCTHCT field of the HCCT common storage control block points to the HCT.
- The DTEHCT field in each JES2 subtask's DTE control block points to the HCT.
- The CIRHCT field in the initialization PCE work area, the CIRWORK, points to the HCT.

Serialization:
- Serialization depends on the field in question.
- Fields might be serialized via Compare-and-swap.
- Fields might be serialized implicitly, by being changeable only by the JES2 main task.
- Fields might be serialized by the LOCAL/CMS locks.
- Fields might be implicitly serialized by being changeable only by a specific JES2 main task processor.
- Fields might be implicitly serialized by being changeable only when the JES2 main task owns the checkpoint queues ($QSUSE).
- Fields may be usable only for a short-term period (ie., serialization is lost as soon as the processor does a $WAIT).

Function: The $HCT is the major JES2 control block when executing code which was generated in the JES2 or subtask assembly environment. Register 11 will normally point to this control block in those environments.

The $HCT contains routine addresses. pointers to data structures, constants, work areas, fields which contain current values for various types of parameters, a checkpointed section, patch space, Etc..

$HCT Map

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	0	HCT	, HASP Communications Table
0	(0)	BITSTRING	80		HASPNUC Module Info Table
80	(50)	CHARACTER	8	$VERSION	Obsolete. Permanently set to SP 5.3.0 (Do not remove)
88	(58)	CHARACTER	8	$UVERS	Installation version of the JES2 product defined when HASPNUC was assembled
96	(60)	CHARACTER	1	$MACVERS	SP version of MVS maclibs used to assemble HASPNUC
97	(61)	ADDRESS	1	$IPCSLVL	JES2 IPCS level number
98	(62)	ADDRESS	2	$SAVEBOF	Offset to $SAVEBEG (used by IPCS logic)
				Comment	
				Pointer to HASP module directory and LMT anchors	
				End of Comment	
100	(64)	ADDRESS	4	$HASPMAP	"V($REPTABL)" HASP MODULE DIRECTORY ADDRESS
104	(68)	ADDRESS	4	$LMT1	Addr of 1st Pvt LMT, if any
108	(6C)	ADDRESS	4	$LMT1C	Addr of 1st CSA LMT, if any
112	(70)	ADDRESS	4	$LMTPBOT	Addr of bot'm PVT LMT entry
				Comment	
				WAIT ELEMENTS, EACH SET MUST STAY TOGETHER	
				End of Comment	
116	(74)	ADDRESS	4	$HASPECB	ADDR OF HASP EVENT CONTROL BLK
120	(78)	SIGNED	4	$ECBEXTN (0)	ECB EXTENSION FOR POST
124	(7C)	ADDRESS	4	$DSPXITA	"V(HASPPXIT)" EXIT DISPATCHING
128	(80)	SIGNED	4	$XFRECBX (0)	ECB EXTENSION FOR SPOOL OFFLOAD
132	(84)	ADDRESS	4	$POSTEXA	"V($POSTEX)" DECB'S .. SPECIFIES POST EXIT
136	(88)	SIGNED	4	$XCPECBX (0)	ECB EXTENSION FOR $EXCP
140	(8C)	ADDRESS	4	$EXCPEXA	"V($IOPSTEX)" EXCP POST EXIT
144	(90)	ADDRESS	4	$NWECB	ECB FOR MISCELLANEOUS USES OF MVS ASYNCHRONOUS SERVICES BY PCES THAT WON'T WAIT ON IT (PAGEFIX)
				Comment	
				Addresses of Remote Work Lookup tables	
				End of Comment	
148	(94)	ADDRESS	4	$RWL	"V(HASPRWL)" Address of table
152	(98)	ADDRESS	4	$RWLRDRS	"V(HASPRWLR)" Remote reader sub-table
156	(9C)	ADDRESS	4	$RWLPRTS	"V(HASPRWLP)" Remote printer sub-table
160	(A0)	ADDRESS	4	$RWLPUNS	"V(HASPRWLU)" Remote punch sub-table
164	(A4)	ADDRESS	4	$RWLNJRS	"V(HASPRWJR)" Job receiver sub-table
168	(A8)	ADDRESS	4	$RWLNJTS	"V(HASPRWJT)" Job xmitter sub-table
172	(AC)	ADDRESS	4	$RWLNSRS	"V(HASPRWSR)" SYSOUT receiver sub-table
176	(B0)	ADDRESS	4	$RWLNSTS	"V(HASPRWST)" SYSOUT xmitter sub-table
180	(B4)	ADDRESS	4	$STABNDA	"V($STABEND)" ENTRY TO SUBTASK ESTAE RTN
184	(B8)	ADDRESS	4	$DWAHEAD	Head/Tail of DWAs queued
188	(BC)	ADDRESS	4	$DWATAIL	by subtasks
192	(C0)	ADDRESS	4	$SAPCACH	Ptr to SAPI $#POST cache
196	(C4)	BITSTRING	1	$XCWFLAG	Cache control flags
		1...		$XCWSCEN	"B'10000000'" SAPI $#POST cache enabled
197	(C5)	BITSTRING	3		Reserved for future use
200	(C8)	SIGNED	4	$STUBCNT	$DTEDYN stub counter

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
204	(CC)	ADDRESS	4	$STUBPTR	$DTEDYN stub routine list
208	(D0)	ADDRESS	4	$TJEVTOK	Thread JOE Exclusion List data space ALET
212	(D4)	ADDRESS	4	$SAPTOK	SAPID data space ALET
216	(D8)	ADDRESS	4	$STACTOK	STAC Data space ALET
220	(DC)	ADDRESS	4	$PSOTOK	PSO Data space ALET
224	(E0)	ADDRESS	4	$DILHEAD	Address of first queued DWA element
228	(E4)	ADDRESS	4	$DILTAIL	Address of last queued DWA element
232	(E8)	ADDRESS	4	$ACTRNUM	Number of entries in RSO
236	(EC)	ADDRESS	4	$FREEJOE	Address of free JOE array
				Comment	
				ENTRIES FOR INSTALLATION EXIT, TABLE EXTENSION SERVICES	
				End of Comment	
240	(F0)	ADDRESS	4	$PRPUSRV	"V(PRPUXSRV)" ADDRESS OF PRPU EXIT SERVICES
244	(F4)	ADDRESS	4	$MCT	"V($MCTABLE)" ADDR HASP MASTER CONTROL TABLE
248	(F8)	ADDRESS	4		Reserved for future use
252	(FC)	ADDRESS	4	$UCT	"V(USERCT)" ADDR USER COMMUNICATION TABLE
256	(100)	ADDRESS	4	$SXADDR	"V(SXADDR)" SXADDR address
260	(104)	ADDRESS	4	$DIAGTBL	ENTRY TO DIAGNOSTIC MSGS TABLE
				Comment	
				Entries for MVS Service Routines	
				End of Comment	
264	(108)	ADDRESS	4	$JAXPTR	Ptr to JOE index access control object (JAX)
268	(10C)	ADDRESS	4	$SYMBM	Symbol translation Service
				Comment	
				CHAIN HEADS (ORIGIN AND LAST) FOR ALL DTES	
				End of Comment	
272	(110)	ADDRESS	4	$DTEORG	ORIGIN DTE ADDR (DTENEXT CHAIN)
276	(114)	ADDRESS	4	$DTELAST	LAST DTE ADDR (DTEPREV CHAIN)
				Comment	
				SUBTASK 'TYPE' POINTERS INTO THE DTENEXT CHAIN. NOTE THAT THESE POINTERS ARE ZERO IF NO SUBTASK FOR THAT 'TYPE' IS CURRENTLY ATTACHED.	
				End of Comment	
280	(118)	ADDRESS	4	$DTEIMAG	IMAGE DTE(S) (HASPIMAG)
284	(11C)	ADDRESS	4	$DTEALOC	ALLOCATE DTE (HOSALLOC)
288	(120)	ADDRESS	4	$DTESPOL	SPOOL DTE(S) (HOSPOOL)
292	(124)	ADDRESS	4	$DTEMIG	SPOOL DTE(S) (HOSMIGR)
296	(128)	ADDRESS	4	$DTEASST	SPOOL DTE(S) (HOSASST)
300	(12C)	ADDRESS	4	$DTESMF	SMF DTE (HASPACCT)
304	(130)	ADDRESS	4	$DTEVTM	VTAM DTE (HASPVTAM)
308	(134)	ADDRESS	4	$DTEWTO	WTO DTE (HASPWTO)
312	(138)	ADDRESS	4	$DTECNVT	CONVERT DTE(S) (HOSCNVT)
316	(13C)	ADDRESS	4	$DTEOFF	OFFLOAD DTE(S) (HASPOFF)
320	(140)	ADDRESS	4	$DTECKVR	VERSCOPY DTE (HASPCKVR)
324	(144)	ADDRESS	4	$DTECKCF	CKPTONCF DTE (HASPCKCF)
328	(148)	ADDRESS	4	$DTEGSUB	GENERAL DTE(S) (HASPSUBS)
332	(14C)	ADDRESS	4	$DTEEOM	EOM DTE(S) (HASPEOM)

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
				Comment	
		SPECIAL DTE POINTERS			
				End of Comment	
336	(150)	ADDRESS	4	$IMAGE	IMAGE LIBRARY LOADER DTE ADDR
				Comment	
		ERROR STACK POINTERS FOR RECOVERY OPTIONS			
				End of Comment	
340	(154)	ADDRESS	4	$MAINSTK	"V(STKMAIN)" ADDR OF MAIN TASK ERROR STACK
344	(158)	ADDRESS	4	$DSTRSTK	"V(STKDSTR)" ADDR OF $DISTERR ERROR STACK
348	(15C)	ADDRESS	4	$STERSTK	"V(STKSUBT)" SUBTASK ERROR STACK ORIGIN, SUBTASK STACKS ARE CONTIGUOUS.
348	(15C)	X'A'	0	$SPLIOER	"10" Number of SPOOL I/O errors allowed before operator prompted to end warmstart
				Comment	
		HASP CONTROL BLOCK DIRECTORY			
				End of Comment	
352	(160)	ADDRESS	4	$ACTABLE	ADDR OF AUTOMATIC COMMAND TABLE
356	(164)	ADDRESS	4	$APPLTBL	ADDRESS NJE/SNA APPLICATION TBL
360	(168)	ADDRESS	4	$AQSE	Addr of this sys's QSE
364	(16C)	ADDRESS	4	$ASYNCQ	ADDR ASYNC I/O COMPLETION QUEUE
368	(170)	ADDRESS	4	$ASYPCIQ	ADDRESS OF ASYNC PCIE EXEC QUE
372	(174)	ADDRESS	4	$BERTPTR	Address of BERT CTENT
376	(178)	ADDRESS	4	$BITSONA	"V($BITSON)" ADDR OF TBLE BITS ON IN A BYTE
380	(17C)	ADDRESS	4	$BUSYQUE	ADDRESS OF COMM TASK INPUT QUE
384	(180)	ADDRESS	4	$BUSYRQ	ADDR REMOTE CONSOLE BUSY QUEUE
388	(184)	ADDRESS	4	$CALONE	ADDR FIRST CH LOG ADDR LIST
392	(188)	ADDRESS	4	$CALCUR	ADDR CRNT CH LOG ADDR LIST
396	(18C)	ADDRESS	4	$CATQUE	Addr of private CATs (not valid past initialization)
400	(190)	ADDRESS	4	$CHLOG	ADDRESS OF THE CHANGE LOG
404	(194)	ADDRESS	4	$CKG1	ADDRESS OF CKPT1 CKGPAR
408	(198)	ADDRESS	4	$CKG2	ADDRESS OF CKPT2 CKGPAR
412	(19C)	ADDRESS	4	$CKBCRNT	ADDRESS OF CURRENT CKB
416	(1A0)	ADDRESS	4	$CKC	ADDRESS OF CKPT CCW PACKETS
420	(1A4)	ADDRESS	4	$CKPTIO	ADDRESS OF CHECKPOINT I/O AREA
424	(1A8)	ADDRESS	4	$CKPTPTR	ADDRESS OF 1ST 4K CKPT RECORD
428	(1AC)	ADDRESS	4	$CLCB	ADDRESS CH LOG CNTL BYTES
432	(1B0)	ADDRESS	4	$CKPTQHD	CKPT work queue head
436	(1B4)	ADDRESS	4	$CKW	ADDRESS OF CKPT WORK AREA
440	(1B8)	ADDRESS	4	$COMEXTN	ADDR OF COMM EXTENDED AREA
444	(1BC)	ADDRESS	4	$COMMQUE	ADDR COMMAND PROCESSOR WORK Q
448	(1C0)	ADDRESS	4	$COMMQTP	Queue of CMBs from RDR/RTAM
452	(1C4)	BITSTRING	4		Reserved
456	(1C8)	DBL WORD	8	$MIGRQCD (0)	Field used by the CDS instruction when adding or removing an element from the migration I/O queue.
456	(1C8)	ADDRESS	4	$MIGRIOQ	Address of the first buffer in the ASYNC PCE migration I/O queue.
460	(1CC)	ADDRESS	4	$MIGRQSQ	Migration I/O queue sequence number - ensures uniqueness.
464	(1D0)	ADDRESS	4	$CPTMAP	ADDR OF CPT QUICK INDEX
468	(1D4)	ADDRESS	4	$CPTPOOL	ADDRESS OF FIRST HASP CPT
472	(1D8)	ADDRESS	4	$CTLB	ADDR OF CKPT CNTRL BYTES
476	(1DC)	ADDRESS	4	$CTLBIO	ADDR OF CKPT I/O CNTRL BYTES
480	(1E0)	ADDRESS	4	$CTLBX	ADDR OF EXTRA CKPT CNTRL BYTES
484	(1E4)	ADDRESS	4	$DADEBAD	ADDRESS HASP DIRECT ACCESS DEB
488	(1E8)	ADDRESS	4	$DASAREA	Addr of DAS header
492	(1EC)	ADDRESS	4	$DASFRST	Addr of first DAS

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
496	(1F0)	ADDRESS	4	$DASEXT	ADDRESS OF DAS EXT AREA
500	(1F4)	ADDRESS	4	$DOMQUE	ADDRESS OF CMBS AWAITING ACTION
504	(1F8)	ADDRESS	4	$DOMQUEA	ADDR CMBS DESTINED FOR $DOMQUE
508	(1FC)	BITSTRING	4	$EMEMAFF	AFFINITY MASK FOR RESET
512	(200)	ADDRESS	4	$ERRTABA	Error table address
516	(204)	ADDRESS	4	$EZAADDR	EZASMI work areas
520	(208)	ADDRESS	4	$FIXCHLG	ADDR CHANGE LOG FIXED LIST
524	(20C)	ADDRESS	4	$FIXLIST	ADDR FIXED LIST TABLE FOR KITS
528	(210)	ADDRESS	4	$XMASADR	ADDR of Cross MAS XCF CB
532	(214)	ADDRESS	4	$GTWKTAB	"V(GTWKTABL)" ADDRESS OF GETWORK TABLE
536	(218)	ADDRESS	4	$GETWRKA	"V($GETWORK)" Addr of GETWORK routine
540	(21C)	ADDRESS	4	$HASCB	ADDRESS OF HASP ASCB
544	(220)	ADDRESS	4	$HASPDCB	ADDR OF HASP DIRECT ACCESS DCB
548	(224)	ADDRESS	4	$HASPRB	ADDR OF HASP RB
552	(228)	ADDRESS	4	$HASPTCB	ADDR OF HASP TASK CONTROL BLOCK
556	(22C)	ADDRESS	4	$HFAM	ADDR OF HASP FILE ALLOC MAP
560	(230)	ADDRESS	4	$ICELOST	ADDR OF Frozen ICE queue
564	(234)	ADDRESS	4	$#INDEXA	"V($#INDEX)" ADDR OF SYSOUT CLS QUEUE INDEX
568	(238)	ADDRESS	4	$INIWARM	Addr of INIWARM passed from HASPIR* to HASPWARM
572	(23C)	ADDRESS	4	$JESACCT	ADDR OF JES2-TO-NET ACCT TABLE
576	(240)	ADDRESS	4	$JESTOKA	ADDR OF JES2 SECURITY TOKEN
580	(244)	CHARACTER	8	$JESUSER	User id from JES2 token
588	(24C)	CHARACTER	8	$JESSECL	SECLABLE from JES2 token
596	(254)	ADDRESS	4	$JNEW	ADDR MOST RECENT JESNEWS CB
600	(258)	ADDRESS	4	$JNTPTR	ADDR OF HASP JOB NUMBER TABLE
604	(25C)	ADDRESS	4	$JOBQBUF	ADDR OF HASP JOB QUEUE BUFFER
608	(260)	ADDRESS	4	$JOBQPTR	ADDR OF HASP JOB QUEUE ORIGIN
612	(264)	ADDRESS	4	$JOTABLE	ADDRESS OF HASP JOT ORIGIN
616	(268)	ADDRESS	4	$JOTPOST	ADDRESS OF JOTPOST MAP
620	(26C)	ADDRESS	4	$JQEEXT	ADDRESS OF EXTENSION AREA
624	(270)	ADDRESS	4	$JQXPTR	Addr of HASP JQX CTENT
628	(274)	ADDRESS	4	$JOXPTR	Addr of HASP JOX CTENT
632	(278)	ADDRESS	4	$JWELTBL	ADDR OF JOE/WRITER EXCLUDE LIST TABLE
636	(27C)	ADDRESS	4	$JWEHAVT	ADDR OF ADDRESS SPACE VECTOR TABLE TO CONTAIN WRITER ID NUM
640	(280)	ADDRESS	4	$KITPTR	ADDRESS OF HASP KIT ORIGIN
644	(284)	ADDRESS	4	$LCKPTR	ADDRESS OF HASP LOAD CKPT TABLE
648	(288)	ADDRESS	4	$LSPTR	Pointer to main JES2 linkage stack for main task
652	(28C)	ADDRESS	4	$MASTER	ADDRESS OF MASTER CKPT AREA
656	(290)	ADDRESS	4	$MASTERI	ADDRESS OF MSTR CKP I/O AREA
660	(294)	ADDRESS	4	$MCONMSG	ADDR REMOTE CONSOLE MSG QUEUE
664	(298)	ADDRESS	4	$MWORK	ADDR OF RTAM GENERAL WORK AREA
668	(29C)	ADDRESS	4	$NETACCT	ADDR OF NET-TO-JES2 ACCT TABLE
672	(2A0)	ADDRESS	4	$NITABLE	ADDR OF NODE INFORMATION TABLE
676	(2A4)	ADDRESS	4	$NITCPTR	Pointer to CKPTed NITs
680	(2A8)	SIGNED	4	$NITCSEQ	Current seq# of CKPTed NITs
684	(2AC)	ADDRESS	4	$NUCFIXD	"V($FIXEND)" ADDR OF NUC PAGEFIXED AREA END
688	(2B0)	SIGNED	4	$PROCDDN	PROCLIB DD number to use
692	(2B4)	ADDRESS	4	$PADDR	"V(PADDR)" ADDR OF PRIVATE RTN LIST
696	(2B8)	ADDRESS	4	$PERFCB	Performance data anchor CB (holds TEWA address before PERFCB memory obtained)
700	(2BC)	ADDRESS	4	$PRFDATA	"V(PRFTABLE)" Addr of PERFDATA subscripts
704	(2C0)	ADDRESS	4	$PITABLE	ADDR HASP PARTITION INFO TABLE
708	(2C4)	ADDRESS	4	$PRMDTBL	ADDRESS OF PRMODE TABLE
712	(2C8)	CHARACTER	8	$HASPPRM	INITIALIZATION PARMS DD NAME
720	(2D0)	CHARACTER	8	$PRMMEMB	DEFAULT PARM MEMBER NAME
728	(2D8)	ADDRESS	4	$PSLIST	ADDR OF PAGE SERVICE LIST
732	(2DC)	ADDRESS	4	$QINDEXA	"V($QINDEX)" ADDR OF JOB CLASS QUEUE INDEX
736	(2E0)	ADDRESS	4	$QSE1	ADDRESS OF 1ST HASP QSE
740	(2E4)	ADDRESS	4	$RATABLE	ADDR OF REMOTE ATTRIBUTE TABLE
744	(2E8)	ADDRESS	4	$RCDFRST	Addr of first RECYDAS
748	(2EC)	ADDRESS	4	$RPLCOMQ	Addr of SNA/RPL compl queue
752	(2F0)	ADDRESS	4	$RMTSON	ADDRESS OF REMOTE SIGN-ON TABLE
756	(2F4)	ADDRESS	4	$RTIMTAB	"V($TIMETAB)" ADDR ESTIMATED TIME PRIO TABLE

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
				Comment	
				The following 2 fields must be kept together	
				End of Comment	
760	(2F8)	ADDRESS	4	$SAVAREA	--+ Addr next available general | save area
764	(2FC)	ADDRESS	4	$SAVEARS	--+ Addr next available access register save area
768	(300)	ADDRESS	4	$SFWA	ADDR OF SWBTU FUNCTIONS WORK AREA ($SFW)
772	(304)	ADDRESS	4	$SCQADDR	Address SCQ CTENT
776	(308)	ADDRESS	4	$SCT	Address of Spin Comm Table
780	(30C)	ADDRESS	4	$SMFBUSY	ADDR SMF BUFFER QUEUED FOR I/O
784	(310)	ADDRESS	4	$SPOOLQ	BAD TRACK GROUPS TO FORMAT QUES
788	(314)	ADDRESS	4	$SOCKTBL	TCP/IP SOCKET TABLE
792	(318)	ADDRESS	4	$STWORK	ADDR OF SUBTASK WORK AREA
796	(31C)	ADDRESS	4	$HCCT	HASP COMMON COMMUNICATION TABLE
800	(320)	ADDRESS	4	$STQEACT	ADDR OF 1ST ACTIVE STQE
804	(324)	ADDRESS	4	$BADTRTG	Addr of TG map specified via BADTRACK statements
808	(328)	ADDRESS	4	$BSCCHEQ	ADDR of BSC channel end Q
812	(32C)	ADDRESS	4	$TQEQUE	ADDR OF HASP TIMER Q ELEMENT Q
816	(330)	ADDRESS	4	$TRGENER	"V(TRGENER)" Generic translate table
820	(334)	ADDRESS	4	$VLOGQUE	VTAM OPEN/CLOSE ACB SUBTASK QUE
824	(338)	ADDRESS	4	$WLMDATA	Addr of WLM data bundle
828	(33C)	ADDRESS	4	$WSAPTR	ADDR OF WORK SELECTION AREA
832	(340)	ADDRESS	4	$XFRACTV	ADDRESS OF 1ST ACTIVE XFR DCT
836	(344)	ADDRESS	4	$XFRBEND	ADDR OF XFR BUFFER COMPLETION Q
840	(348)	ADDRESS	4	$XFRDEND	ADDR OF XFR DCT SUBTASK COMP Q
844	(34C)	ADDRESS	4	$XITADDR	ADDR OF EXIT INFO TABLE (XIT)
848	(350)	SIGNED	4	$PLXDYNI	CPOOL ID for PLX dynamic areas
				Comment	

				Keep the EBCDIC level and binary product/service levels together.	

				End of Comment	
852	(354)	BITSTRING	10	$JES2_LEVEL (0)	Level information
852	(354)	CHARACTER	8	$LEVEL	Version of the JES2 macros used to assemble HASPNUC <--+
860	(35C)	ADDRESS	1	$PLVL	Binary product level |
861	(35D)	ADDRESS	1	$SLVL	Binary service level <--+
862	(35E)	ADDRESS	2	(0)	Ensure product level is defined correctly
862	(35E)	SIGNED	2		Reserved for future use
				Comment	
				Track group map table $TGMADDR through $TGBAD must be kept together	
				End of Comment	
864	(360)	SIGNED	4	$TGMADDR (0)	ADDR HEADER OF TRACK GROUP
864	(360)	ADDRESS	4	$TGMHEAD	HEADER OF TGM GROUP
868	(364)	ADDRESS	4	$TGMAP	ADDR OF MASTER TRACK GROUP MAP
872	(368)	ADDRESS	4	$TGBAD	ADDR OF BAD TRACK GROUP MAP
872	(368)	X'2'	0	$TBLNUM	"(*-$TGMAP)/4" CALCULATE NUMBER IN TGM TABLE
876	(36C)	ADDRESS	4	$TGRADDR	Addr checkpointed BLOB
876	(36C)	X'28'	0	$TGRHDR	"40" Length of BLOB header
				Comment	
				RESERVED AREA FOR USER FIELDS	
				End of Comment	

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
880	(370)	ADDRESS	4	$UPADDR	ADDR OR USER PRIVATE ADD TABLE
884	(374)	ADDRESS	4	$USXADDR	USXADDR address
888	(378)	ADDRESS	4	$USER1	RESERVED FOR USER
892	(37C)	ADDRESS	4	$USER2	RESERVED FOR USER
896	(380)	ADDRESS	4	$USER3	RESERVED FOR USER
900	(384)	ADDRESS	2	$USER4	RESERVED FOR USER
902	(386)	ADDRESS	2	$USER5	RESERVED FOR USER
		Comment			
		HASP OPERATING CONSTRAINTS			
		End of Comment			
904	(388)	SIGNED	2	$PPBSIZE	Size of the PCE Perf block
906	(38A)	ADDRESS	2	$NUMCPTS	NUMBER OF CPTS
908	(38C)	ADDRESS	4	$PRIOUT	"V($OUTTAB)" OUTPUT PRIORITY TABLE
912	(390)	ADDRESS	4	$SYNCTOL	TOD CLOCK SYNC ERROR TOLERANCE
920	(398)	DBL WORD	8	$CKPTLEV	LEVEL NUMBER OF CKPT DATA
920	(398)	X'398'	0	$CKPTLVP	"$CKPTLEV,8,C'C'" Define character version of field since PLX and the offset table don't handle doublewords well
920	(398)	X'39C'	0	$CKLEVNM	"$CKPTLEV+4,4,C'F'" Fullword level for messages and CTLB comparisons
928	(3A0)	SIGNED	4	$CKOLDLV	Original checkpoint level # for JOTPOST comparison
932	(3A4)	SIGNED	4	$TOTCKSZ	Size of the checkpoint data set in 4K pages
936	(3A8)	ADDRESS	4	$DELAYTM	MODEL 20 DELAY TIME
940	(3AC)	SIGNED	2	$KITNUM	NUM KITS PRESENT IN SYSTEM
942	(3AE)	SIGNED	2	$WARMACT	Nr of active warmstart PCEs
944	(3B0)	SIGNED	4	$LOCKOUT	LOCKOUT WARN TIME, SECS/100
948	(3B4)	SIGNED	4	$MINHOLD	MINIMUM HOLD TIME, SECS/100
952	(3B8)	SIGNED	4	$ORIGMHD	Original minhold (used to restore $MINHOLD after all warmstart PCEs have gone dormant)
956	(3BC)	ADDRESS	4	$MAXINT	MAX INT FOR CKPTW, SECS/100
960	(3C0)	SIGNED	4	$MINDORM	MINIMUM DORMANT TIME, SECS/100
964	(3C4)	SIGNED	4	$MAXDORM	MAXIMUM DORMANT TIME, SECS/100
968	(3C8)	ADDRESS	4	$DDSEGLM	SEGLIM VALUE
972	(3CC)	ADDRESS	2	$MAXDELT	MAXIMUM MESSAGE DELAY TIME
974	(3CE)	ADDRESS	2	$MAXMSGQ	MAXIMUM MSGS TO QUEUE ON SPOOL
976	(3D0)	ADDRESS	2	$NUMPATH	NUMBER OF PATHS PER NIT
978	(3D2)	ADDRESS	2	$MAXHOP	MAXIMUM NJE HOP COUNT
980	(3D4)	ADDRESS	2	$AUTOINV	SNA AUTOLOGON SCAN INTERVAL
982	(3D6)	ADDRESS	2	$NUMAUTO	NUMBER OF AUTOLOGON REMOTES
984	(3D8)	BITSTRING	6		Reserved for future use
990	(3DE)	ADDRESS	1	$CIPERAS	C/I subtasks per addr space
991	(3DF)	BITSTRING	1	$OPTSTA2	More initialization options
		1...		$OP2COMP	"B'10000000'" Compat mode cold start
		.1..		$OP2FULF	"B'01000000'" Full function cold start
		Comment			
		$OPTSTAT INITIALIZATION OPTION DEFINITIONS $OPTSTAT IS PART OF SMF RECORD 43			
		End of Comment			
992	(3E0)	BITSTRING	1	$OPTSTAT (0)	HASP Init Options (Use BL1 so offset table will be satisfied, but you need AL1 to assign initial value to the byte)
		1...		$OPTFMT	"B'10000000'" FORMAT-- FORCE FORMAT OPTION (OPP IS NOFMT = DEFAULT)
		.1..		$OPTCOLD	"B'01000000'" COLD -- COLD START OPTION (OPP IS WARM = DEFAULT)
		..1.		$OPTREQ	"B'00100000'" REQ -- REQUEST OPTION = DEFAULT (OPPOSITE IS NOREQ)
		...1		$OPTLIST	"B'00010000'" LIST -- HASPPARM LIST = DEFAULT (OPPOSITE IS NOLIST)

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
		.... 1...		$OPTLOG	"B'00001000'" LOG -- HASPPARM LOG = DEFAULT (OPPOSITE IS NOLOG)
		.... ..1.		$OPTCONS	"B'00000010'" CONSOLE- CONSOLE OPTION
		1		$OPTQWIK	"B'00000001'" QUICK-- NON-ALL-SYSTEMS WARM START (FMT/COLD MUST BE OFF)
992	(3E0)	X'38'	0	$OPTSTD	"$OPTREQ+$OPTLIST+$OPTLOG" DEFAULTS = NOFMT, WARM, REQ, LIST, LOG

Comment

$OPTSTA1 MORE INITIALIZATION OPTION DEFINITIONS
CKPTN OPTION SETS THE FOLLOWING BITS IN $OPTSTA1
$OP1SPEC $OP1CKPT
DEFAULT 0 0
CKPT1 1 0
CKPT2 1 1

End of Comment

993	(3E1)	BITSTRING	3	$OPTSTA1 (0)	MORE INIT OPTIONS
		1...		$OP1SPEC	"B'10000000'" CKPTN -- READ FROM A SPECIFIC DATA SET
		.1..		$OP1CKPT	"B'01000000'" CKPTN -- WHICH CKPT TO READ FROM FIRST
		..1.		$OP1PJS2	"B'00100000'" $PJES2 - TERMINATE JES2 OPT
		...1		$OP1SVAL	"B'00010000'" Do spool validation
		.... 1...		$OP1SFCE	"B'00001000'" Whether spool validation done or not was a forced condition
		.... .1..		$OP1UNAC	"B'00000100'" UNACTIVATE system
		.... ..1.		$OP1SVLH	"B'00000010'" Spool validate attempted on last start
993	(3E1)	X'0'	0	$OPT1STD	"0" Default is no SPOOL validation
994	(3E2)	BITSTRING	3	$RUNOPTS (0)	JES2 RUN OPTIONS
		.... .1..		$PRTYOUT	"X'04'" OUTPUT card 'PRTY=' option
		.... ..1.		$PRIOOPT	"X'02'" PRIORITY card option
		1		$PRTYJOB	"X'01'" Job card 'PRTY=' option
995	(3E3)	ADDRESS	1	$PRTOPTS	PRINT OPTIONS
		1...		$PRTBOPT	"X'80'" Local print dbl-buffering option
		.1..		$PUNBOPT	"X'40'" Local punch dbl-buffering option
		..1.		$RPRBOPT	"X'20'" Remote print dbl-buffering option
		...1		$RPUBOPT	"X'10'" Remote punch dbl-buffering option
		.... 1...		$PRTRANS	"X'08'" Print translate option
		.... .1..		$DMNDSET	"X'04'" Specify demand setup option
		.... ..1.		$USERSET	"X'02'" Specify user setup option
		1		$CREATE	"X'01'" JOE create time updated only at create time
996	(3E4)	ADDRESS	1	$RJEOPTS	HASP REMOTE JOB ENTRY OPTIONS
		1...		$ADDSYNS	"X'80'" Additional synchronous idles option
997	(3E5)	ADDRESS	1	$RJOBOPT	JOB CARD SCAN OPTION FLAG
		1...		$ACTIGN	"B'10000000'" Job account information is ignored
		.1..		$ACTREQ	"B'01000000'" Job account information is required
		...1		$OPTINTR	"B'00010000'" Back to back C/I
998	(3E6)	ADDRESS	1	$LINECT	MAXIMUM LINES PER PAGE
999	(3E7)	ADDRESS	1	$NJEOPTS	HASP NJE OPTIONS
		1...		$MAILMSG	"B'10000000'" ISSUE MAIL NOTIFY MSG

Comment

If there is a problem performing a job or output queue verify, the reason and related data are stored in the following fields.

End of Comment

1000	(3E8)	SIGNED	4	$QVERDAT	Queue verification data
1004	(3EC)	BITSTRING	1	$QVERRSN	Queue verification reason

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
		Comment			
		JQE verification error indicator			
		End of Comment			
		1		$QVRNJTE	"X'01'" JNT validation error
		.... ..1.		$QVRNFRE	"X'02'" Job on free que not free
		11		$QVRNFRC	"X'03'" Free JQE count is bad
		.... .1..		$QVRNRQE	"X'04'" Error on rebuild queue
		.... .1.1		$QVRNBDQ	"X'05'" Bad queue in JQE
		.... .11.		$QVRNBDC	"X'06'" Wrong class from JQE
		.... .111		$QVRNBDF	"X'07'" Wrong flags in JQE's CAT
		.... 1...		$QVRNBDI	"X'08'" Wrong index in JQE's CAT
		.... 1..1		$QVRNMJN	"X'09'" Missing job number
		.... 1.1.		$QVRNJXE	"X'0A'" JIX error
		.... 1.11		$QVRNJXM	"X'0B'" JQE not in JIX
		.... 11..		$QVRNART	"X'0C'" Artificial bit on in JQE
		.... 11.1		$QVRNXTH	"X'0D'" JQE extension too high
		.... 111.		$QVRNXTO	"X'0E'" JQE extension is odd
		 1111		$QVRNXTF	"X'0F'" JQE extension is free
		...1		$QVRNWQE	"X'10'" JQE on WLM queue
		...1 ...1		$QVRNWQN	"X'11'" WLMQ bad next pointer
		...1 ..1.		$QVRNJQC	"X'12'" JQE in use count bad
		...1 ..11		$QVRNWQP	"X'13'" WLMQ bad prev pointer
		...1 .1..		$QVRNWQX	"X'14'" WLMQ JQE/JQX loop
		...1 .1.1		$QVRNJQO	"X'15'" Invalid JQE chain field
		...1 .11.		$QVRNJQL	"X'16'" JQE loop detected
		...1 .111		$QVRNWWQ	"X'17'" WLMQ on wrong srvclass q
		...1 1...		$QVRNDJN	"X'18'" DJB Q next pointer 2 big
		...1 1..1		$QVRNDJX	"X'19'" Loop in DJB queue
		...1 1.1.		$QVRNDJQ	"X'1A'" JQE not xeq on DJB queue
		...1 1.11		$QVRNDJZ	"X'1B'" DJB Q next pointer zero
		...1 11..		$QVRNDJE	"X'1C'" DJB name not = JQEJNAME
		...1 11.1		$QVRNDJA	"X'1D'" DJB executing job [found
		...1 111.		$QVRNDJB	"X'1E'" DJB executing key/nr bad
		...1 1111		$QVRNDJC	"X'1F'" DJB executing key & nr do not match
		..1.		$QVRNDJF	"X'20'" DJB not found
		..1. ...1		$QVRNJBC	"X'21'" Invalid JQE back chain index in JQX
		Comment			
		JQE extensions verification error indicator $QEXTVER			
		End of Comment			
		.1.. ...1		$QVRNETH	"X'41'" JQE extension too high
		.1.. ..1.		$QVRNETO	"X'42'" JQE extension is odd
		.1.. ..11		$QVRNENF	"X'43'" JQE extension not free
		Comment			
		BERT verification error found $BERTFIX			
		End of Comment			
		.1.1 ...1		$QVRNBER	"X'51'" BERT error found/fixed
		Comment			
		CAT verification error found $CATINIT			
		End of Comment			
		.11. ...1		$QVRNCER	"X'61'" CAT error found

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
		Comment			
		JOE verification error indicator			
		End of Comment			
		1... ...1		$QVRNOTE	"X'81'" JOE type error
		1... ..1.		$QVRNOJE	"X'82'" JOE chain error
		1... ..11		$QVRNORQ	"X'83'" JOE rebuild queue error
		1... .1..		$QVRNORE	"X'84'" JOE rebuild chaining err
		1... .1.1		$QVRNOR2	"X'85'" JOE rebuild chaining err
		1... .11.		$QVRNOR3	"X'86'" JOE rebuild chaining err
		1... .111		$QVRNOR4	"X'87'" JOE rebuild chaining err
		1... 1...		$QVRNOR5	"X'88'" JOE rebuild chaining err
		1... 1..1		$QVRNOCE	"X'89'" Char JOE error
		1... 1.1.		$QVRNOCO	"X'8A'" Char JOE order error
		1... 1.11		$QVRNOCQ	"X'8B'" Char JOE queue error
		1... 11..		$QVRNOC1	"X'8C'" Char JOE queue error
		1... 11.1		$QVRNOCC	"X'8D'" Char JOE count error
		1... 111.		$QVRNOC2	"X'8E'" Char JOE queue error
		1... 1111		$QVRNOWE	"X'8F'" Work JOE error
		1..1		$QVRNOWQ	"X'90'" Work JOE queue error
		1..1 ...1		$QVRNOWC	"X'91'" Work JOE class error
		1..1 ..1.		$QVRNOW1	"X'92'" Work JOE queue error
		1..1 ..11		$QVRNOW2	"X'93'" Work JOE queue error
		1..1 .1..		$QVRNOW3	"X'94'" Work JOE queue error
		1..1 .1.1		$QVRNOW4	"X'95'" Work JOE queue error
		1..1 .11.		$QVRNOW5	"X'96'" Work JOE queue error
		1..1 .111		$QVRNOW6	"X'97'" Work JOE queue error
		1..1 1...		$QVRNOW7	"X'98'" Work JOE queue error
		1..1 1..1		$QVRNOW8	"X'99'" Work JOE queue error
		1..1 1.1.		$QVRNCQ1	"X'9A'" Work/char JOE queue error
		1..1 1.11		$QVRNCQ2	"X'9B'" Work/char JOE queue error
		1..1 11..		$QVRNCQ3	"X'9C'" Work/char JOE queue error
		1..1 11.1		$QVRNCQ4	"X'9D'" Work/char JOE queue error
		1..1 111.		$QVRNCQ5	"X'9E'" Work/char JOE queue error
		1..1 1111		$QVRNCQ6	"X'9F'" Work/char JOE queue error
		1.1.		$QVRNCQ7	"X'A0'" Work/char JOE queue error
		1.1. ...1		$QVRNCQ8	"X'A1'" Work/char JOE queue error
		1.1. ..1.		$QVRNTQE	"X'A2'" JOE queue error
		1.1. ..11		$QVRNTRE	"X'A3'" JOE route error
		1.1. .1..		$QVRNTR2	"X'A4'" JOE route error
		1.1. .1.1		$QVRNTUE	"X'A5'" JOE user error
		1.1. .11.		$QVRNTU2	"X'A6'" JOE user error
		1.1. .111		$QVRNTU3	"X'A7'" JOE user error
		1.1. 1...		$QVRNTU4	"X'A8'" JOE user error
		1.1. 1..1		$QVRNTPE	"X'A9'" JOE priority error
		1.1. 1.1.		$QVRNTP2	"X'AA'" JOE priority error
		1.1. 1.11		$QVRNTP3	"X'AB'" JOE priority error
		1.1. 11..		$QVRNTCE	"X'AC'" JOE class error
		1.1. 11.1		$QVRNJAR	"X'AD'" Artificial bit on in JOE
		1.1. 111.		$QVRNJOE	"X'AE'" JOT validation error
1005	(3ED)	ADDRESS	1	$SPVLRSN	Reason code for forced spool validation
1005	(3ED)	X'1'	0	$SPV1QER	"1" Forced on, queue error
1005	(3ED)	X'2'	0	$SPV1VAL	"2" Forced on, prior error
1005	(3ED)	X'3'	0	$SPV1OPT	"3" Forced on, init option
1005	(3ED)	X'4'	0	$SPV1SPL	"4" Forced off, missing spools
1005	(3ED)	X'5'	0	$SPV1BRT	"5" Forced off, BERT shortage
		Comment			
		$DEBUG Option Definitions			
		End of Comment			

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
1006	(3EE)	BITSTRING	1	$DEBGOPS (0)	DEBUG option flag
1007	(3EF)	ADDRESS	1	$DEBGOP2	Second debug options $DEBGOPS bit definitions

Comment

The $DEBGOPS bit definitions are moved to $HASPEQU
because of the need of Storage Debug Flag in CPOOL

End of Comment

1007	(3EF)	X'FF'	0	$DBGALL	"FF"

Comment

ESTIMATED COUNT FIELDS DEFAULTS, MAPPED BY THE $EST MACRO

End of Comment

1008	(3F0)	ADDRESS	4	$EST1 (0)	FIRST ESTIMATED COUNT TABLE
1008	(3F0)	X'5'	0	$ESTTCNT	"5" NUMBER OF ESTIMATED CNT TABLES
1008	(3F0)	ADDRESS	4	$ESTPAGE	
1008	(3F0)	X'8'	0	$ESTPG9L	"8" 9'S LIMIT FOR ESTNUM
1020	(3FC)	ADDRESS	4	$ESTBYTE	
1020	(3FC)	X'6'	0	$ESTMX9L	"6" 9'S LIMIT FOR ESTNUM
1032	(408)	ADDRESS	4	$ESTLNCT	
1032	(408)	X'6'	0	$ESTLN9L	"6" 9'S LIMIT FOR ESTNUM
1044	(414)	ADDRESS	4	$ESTPUN	
1044	(414)	X'8'	0	$ESTPN9L	"8" 9'S LIMIT FOR ESTNUM
1056	(420)	ADDRESS	4	$ESTIME	
1056	(420)	X'4'	0	$ESTIM9L	"4" 9'S LIMIT FOR ESTNUM

Comment

Values for buffer management - limits, threshholds,
free counts, wait counts, etc.

End of Comment

1068	(42C)	SIGNED	2	$NUMBSC	HASP BSC BUFFER LIMIT
1070	(42E)	SIGNED	2	$BSCPRCT	BSC BUF THRESHOLD PERCENT
1072	(430)	SIGNED	2	$BSCLIM	Old BSC buffer limit used by $T to calc free count
1074	(432)	SIGNED	2	$BSCFREC	Free BSC buffer count
1076	(434)	SIGNED	2	$BSCWBF	Number of BSC buffers being $WAITed for
1078	(436)	SIGNED	2	$BSCNWBF	Number of non-wait requests for BSC buffers
1080	(438)	SIGNED	2	$BSCLGRQ	Largest unfulfilled request for BSC buffers
1082	(43A)	SIGNED	2	$NUMBUF	HASP BUFFER LIMIT
1084	(43C)	SIGNED	2	$BUFPRCT	BUFFER THRESHOLD PERCENTAGE
1086	(43E)	SIGNED	2	$BUFLIM	Old HASP buffer limit used by $T to calc free count
1088	(440)	SIGNED	2	$LBFREC	Free LBUF buffer count
1090	(442)	SIGNED	2	$BUFWBF	Number of HASP buffers being $WAITed for
1092	(444)	SIGNED	2	$BUFNWBF	Number of non-wait requests for HASP buffers
1094	(446)	SIGNED	2	$BUFLGRQ	Largest unfulfilled request for HASP buffers
1096	(448)	SIGNED	2	$NUMBUFX	Control Block buffer limit
1098	(44A)	SIGNED	2	$BFXPRCT	CB THRESHOLD PERCENTAGE
1100	(44C)	SIGNED	2	$BUFXLIM	Old CB buffer limit used by $T to calc free count
1102	(44E)	SIGNED	2	$LBXFREC	Free XBUF buffer count
1104	(450)	SIGNED	2	$BFXWBF	Number of CB buffers being $WAITed for
1106	(452)	SIGNED	2	$BFXNWBF	Number of non-wait requests for CB buffers
1108	(454)	SIGNED	2	$BFXLGRQ	Largest unfulfilled request for CB buffers
1110	(456)	SIGNED	2	$NUMVTAM	HASP VTAM BUFFER LIMIT
1112	(458)	SIGNED	2	$VTMPRCT	VTAM BUF THRESHOLD PERCENT
1114	(45A)	SIGNED	2	$VTMLIM	Old VTAM buffer limit used by $T to calc free count
1116	(45C)	SIGNED	2	$VTMFREC	Free VTAM buffer count
1118	(45E)	SIGNED	2	$VTMWBF	Number of VTAM buffers being $WAITed for
1120	(460)	SIGNED	2	$VTMNWBF	Number of non-wait requests for VTAM buffers
1122	(462)	SIGNED	2	$VTMLGRQ	Largest unfulfilled request for VTAM buffers
1124	(464)	SIGNED	2	$NUMNHB	HASP NHB buffer limit

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
1126	(466)	SIGNED	2	$NHBPRCT	NHB BUF threshold percent
1128	(468)	SIGNED	2	$NHBLIM	Old NHB buffer limit used by $T to calc free count
1130	(46A)	SIGNED	2	$NHBFREC	Free NHB count
1132	(46C)	SIGNED	2	$NHBWBF	Number of NHB buffers being $WAITed for
1134	(46E)	SIGNED	2	$NHBNWBF	Number of non-wait requests for NHB buffers
1136	(470)	SIGNED	2	$NHBLGRQ	Largest unfulfilled request for NHB buffers
1138	(472)	ADDRESS	2		Reserved
1140	(474)	SIGNED	2	$MAXSESS	MAXIMUM NUMBER OF SESSIONS
1142	(476)	ADDRESS	2	$ICEPRCT	Threshold of ICEs

Comment

ICE free count must be in the second half of a fullword for use by compare and swap logic. $ICEFREC is defined in the second half of the word which also contains $ICELIM, which is the old (not actual) count of ICEs.

End of Comment

1144	(478)	SIGNED	4	(0)	
1144	(478)	SIGNED	2	$ICELIM	(OLD) count of ICEs
1146	(47A)	SIGNED	2	$ICEFREC	Free count of ICES
1148	(47C)	SIGNED	2	$ICEFRZC	Number of frozen ICEs
1150	(47E)	SIGNED	2	$ABDNBUF	Number of times buffers were abandoned
1152	(480)	ADDRESS	2	$NUMCMDS	HASP CMBs for commands (default set in IRPL) Mirrored in CCTCMDMX
1154	(482)	ADDRESS	2	$CMDPRCT	CMD THRESHOLD PERCENTAGE
1156	(484)	ADDRESS	2	$NUMCMBS	HASP CONSOLE MESSAGE BUFFERS
1158	(486)	ADDRESS	2	$CMBPRCT	CMB THRESHOLD PERCENTAGE
1160	(488)	SIGNED	2	$CMBLIM	Old CMB limit used by $T to calculate free count
1162	(48A)	ADDRESS	2		Reserved

Comment

CMB free count must be in the second half of a fullword for use by compare and swap logic. $CMBFRER is a fullword with the first half reserved, and $CMBFREC in the second half.

End of Comment

1164	(48C)	SIGNED	4	(0)	Force fullword alignment
1164	(48C)	SIGNED	2		and reserve first half
1166	(48E)	ADDRESS	2	$CMBFREC	COUNT OF FREE CMBS
1168	(490)	ADDRESS	2	$NMSGPRC	Notify msg threshold perct

Comment

$MG607F1 and $MG607F2 must be kept together

End of Comment

1170	(492)	BITSTRING	2	$MG607FL (0)	HASP607 message flags
1170	(492)	BITSTRING	1	$MG607F1	HASP607 reason codes
		1...		$M607IO	"B'10000000'" Outstanding I/O
		.1..		$M607WTO	"B'01000000'" Outstanding WTO activity
		..1.		$M607ACT	"B'00100000'" Active processors (excluding execution and line manager PCEs)
		...1		$M607HLD	"B'00010000'" Outstanding held processors
		.... 1...		$M607LCK	"B'00001000'" STC/TSU intrdr locks held

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
		.... .1..		$M607CRS	"B'00000100'" Outstanding cross sys rqsts
		.... ..1.		$M607SPN	"B'00000010'" Outstanding spin activity
		1		$M607PCE	"B'00000001'" Clean withdrawal prohibited due to ended (disposed) processors
1171	(493)	BITSTRING	1	$MG607F2	More HASP607 reason codes
		1...		$M607ESP	"B'10000000'" Outstanding EOM, SAPI or PSO
		.1..		$M607AAS	"B'01000000'" Active address spaces (execution PCE)
		..1.		$M607NET	"B'00100000'" Active network devices (line manager PCE)
		...1		$M607DIL	"B'00010000'" DILBERT DWAs waiting to be processed
		.... 1...		$M607ACM	"B'00001000'" Alternate command processor processing commands
		.... .1..		$M607SPM	"B'00000100'" Active SPOOL migration
		.... ..1.		$M607CKR	"B'00000010'" CKPT reconfig in progress
1172	(494)	SIGNED	4	$MG607TM	Time of last 607 message
1176	(498)	SIGNED	4	$NMSGNUM	Current # of notify buffers
1180	(49C)	SIGNED	4	$NMSGFRE	Free Notify msg buf count
1184	(4A0)	ADDRESS	2	$DISPCNT	PASS NUMBER THROUGH DISPATCHER CODE W/O RUNNING OUT OF WORK
1186	(4A2)	ADDRESS	2	$DISPACE	PACING VALUE (EFFECTS HOW OFTEN CERTAIN DISPATCHER FUNCTIONS ARE DONE IN A BUSY SYSTEM.
1188	(4A4)	ADDRESS	2	$NUMSMFB	NUMBER OF HASP SMF BUFFERS
1190	(4A6)	ADDRESS	2	$SMFPRCT	SMF BUFFER THRESHOLD PERCENTAGE
1194	(4AA)	ADDRESS	2	$SMFFREC	COUNT OF FREE SMF BUFFERS
1196	(4AC)	ADDRESS	2		Reserved
1198	(4AE)	ADDRESS	2	$TGSIZE	NO. OF BUFFERS PER TRACK GROUP
1200	(4B0)	SIGNED	4	$TGFREEB (0)	TGs free (set at end of KBLOB for JES2 monitor)
1204	(4B4)	ADDRESS	2	$TTBPRCT	TRACE TABLE THRESHOLD PERCENT (ONLY ACCURATE DURING THRESHOLD PROCESS, CCTTRCWP FIELD ALWAYS CORRECT
1206	(4B6)	ADDRESS	2		Reserved
1208	(4B8)	SIGNED	2	$VERSNUM	NUMBER OF CKPT VERSIONS
1210	(4BA)	SIGNED	2	$VERSFRE	NUMBER CKPT VERS FREE
1212	(4BC)	SIGNED	2	$VERSWRN	USAGE THRESHLD FOR WTO WRN
1214	(4BE)	BITSTRING	3	$VERSSTT (0)	VERSIONING STATUS
		1...		$VERSACT	"B'10000000'" ACTIVE
		..1.		$VERSKPT	"B'00100000'" SUSPENDED
		...1		$VERSINI	"B'00010000'" INITIALIZING
1215	(4BF)	ADDRESS	1	$SPINACT	Count of active SPIN PCEs
1216	(4C0)	SIGNED	4	$MAXVUSE	Max Number versions in use
1220	(4C4)	SIGNED	4	$MAXFAIL	SEQUENCE FAIL COUNT
1224	(4C8)	SIGNED	4	$NUMFAIL	TOTAL FAIL COUNT
1228	(4CC)	ADDRESS	1	$NOPRCCW	MAXIMUM CCW'S USED BY PRINT
1229	(4CD)	ADDRESS	1	$NOPUCCW	MAXIMUM CCW'S USED BY PUNCH
1230	(4CE)	ADDRESS	1	$SEPPAGE	Separator page options
		1...		$LSEPNON	"B'10000000'" Local sep size of NONE
		.1..		$LSEPHAF	"B'01000000'" Local sep size of HALF
		..1.		$LSEPFUL	"B'00100000'" Local sep size of FULL
		...1		$LSEPDBL	"B'00010000'" Local sep size of DOUBLE
		.... 1...		$RSEPNON	"B'00001000'" Remote sep size of NONE
		.... .1..		$RSEPHAF	"B'00000100'" Remote sep size of HALF
		.... ..1.		$RSEPFUL	"B'00000010'" Remote sep size of FULL
		1		$RSEPDBL	"B'00000001'" Remote sep size of DOUBLE
1231	(4CF)	ADDRESS	1		Reserved
1232	(4D0)	SIGNED	4	$CKCSIZE	SIZE OF GETMAINED CKC AREA
1236	(4D4)	ADDRESS	4	$RSRVCKG	CKG OF RESERVED CKPT DS
1240	(4D8)	ADDRESS	4	$SPOOLCB	SPOOL CB address

Comment

TABLE FOR HASP497 DOM ID

End of Comment

1244	(4DC)	ADDRESS	4	$DOMID1 (0)	DOMID TABLE HEADER
1244	(4DC)	ADDRESS	4	$ERDM497	DOMID MSG497 (ERROR CORRECTION)

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
1248	(4E0)	ADDRESS	4	$RBDM497	DOMID MSG497 (REBUILD)
1248	(4E0)	X'2'	0	$DOMIDN	"(*-$DOMID1)/4" NUMBER OF TABLE ENTRIES
1252	(4E4)	ADDRESS	4	$SCLPEND	Address of $SJ service classes pending dereg.
1256	(4E8)	BITSTRING	1	$PRTOPT2 (0)	Additional Print Opts
		1...		$PRTCALL	"B'10000000'" All chnls are new pages
1257	(4E9)	CHARACTER	1	$CCOMCHR	HASP COMMAND ID CHAR (OS INPUT)
1258	(4EA)	CHARACTER	1	$RCOMCHR	HASP COMMAND ID CHAR (RDR/RMT)
1259	(4EB)	BITSTRING	1	$PRFXFLG	PREFIX FLAG
		..1.		$SCOPSYS	"B'00100000'" SCOPE=SYSTEM - DEFAULT
		...1		$SCOPSPL	"B'00010000'" SCOPE=SYSPLEX
1260	(4EC)	SIGNED	4	(0)	ALIGN FOR CL INSTRUCTIONS
1260	(4EC)	CHARACTER	8	$STDFORM	STANDARD FORMS ID
1268	(4F4)	CHARACTER	4	$PRTFCB	STANDARD FCB IMAGE ID
1272	(4F8)	CHARACTER	4	$PRTUCS	STANDARD UCS IMAGE ID
1276	(4FC)	CHARACTER	4	$NIPFCB	3800 INSTALLATION FCB DEFAULT
1280	(500)	CHARACTER	4	$NIPUCS	3800 INSTALLATION UCS DEFAULT
1284	(504)	CHARACTER	4	$NIPFLSH	3800 INSTALLATION FLASH FRAME DFT
1288	(508)	ADDRESS	2	$RMTNUM	Highest Allowed Remote
1290	(50A)	ADDRESS	2		Reserved for future use
1292	(50C)	ADDRESS	2	$MLBFSIZ	HASP MULTI-LEAVING BUFFER SIZE
1294	(50E)	ADDRESS	2	$BFSZBSC	HASP BSC RJE Buffer Size
1296	(510)	ADDRESS	2	$BFSZSNA	HASP SNA RJE BUFFER SIZE
1298	(512)	ADDRESS	2	$BFSZPP	HASP Print/Punch buf size
1300	(514)	SIGNED	2		Reserved for future use
1302	(516)	ADDRESS	1	$STIMASK	SPOOL OFFLOAD I/O MGR SCAN MASK
		1...		$STIMBUF	"B'10000000'" $STIMASK BIT FOR BUFFER SCAN
		.1..		$STIMTIM	"B'01000000'" $STIMASK BIT FOR TIMER SCAN
		..1.		$STIMDCT	"B'00100000'" $STIMASK BIT FOR DCT SCAN
		...1		$STIMSBT	"B'00010000'" $STIMASK BIT FOR SUB-TASK SCAN
1303	(517)	ADDRESS	1	$SPOLMSG	MAX SPOOL BUFFERS FOR MSGS/RMT
1304	(518)	ADDRESS	1	$BSPGCT	PAGES BETWEEN BSP TABLE ENTRIES
1305	(519)	ADDRESS	1	$BSPNTE	BSP TABLE ENTRIES
1306	(51A)	ADDRESS	2	$BSPSIZ	BSP TABLE SIZE
1308	(51C)	ADDRESS	1	$JCOPYLM	OUTPUT JOB COPY LIMIT
1309	(51D)	CHARACTER	1	$CCOMCH	TEMP FOR $T PREFIX CHAR
1310	(51E)	ADDRESS	2	$HTDIST	2770/2780 HORIZONTAL TAB SPACING
1312	(520)	ADDRESS	2	$NUMACE	NUMBER OF AUTOMATIC CMD ELEMENTS
1314	(522)	ADDRESS	2	$MAXPART	MAXIMUM ACTIVE BATCH INITIATORS
1316	(524)	ADDRESS	1	$SPOFERR	SPOOL OFFLOAD ERROR THRESHOLD
1317	(525)	CHARACTER	1	$RDRAREA	CMD REDIRECT AREA DEFAULT
1318	(526)	BITSTRING	2		Reserved
1320	(528)	ADDRESS	4	$TRTIME	TRACE TABLE TRUNCATION TIME
1324	(52C)	ADDRESS	2	$LIRCT	CKPT LOST INTERRUPT RETRY CT
1326	(52E)	BITSTRING	2		Reserved
1328	(530)	ADDRESS	2	$RETRYCT	CKPT I/O ERROR RETRY CTR
1330	(532)	ADDRESS	2	$SCANPDL	LENGTH USED FOR $SCAN PARAMETER DISPLAYS (INIT, COMMANDS)
1332	(534)	SIGNED	4	$SCANMDL	MAXIMUM DISPLAY LINES FOR $SCAN CALLS FOR INIT AND CMDS FROM NJE, RJE, OR MCS WITHOUT L=CCA
1336	(538)	ADDRESS	4	$CTBADA (16)	BAD value
1400	(578)	ADDRESS	4	$ROTJQE	Addr JQE Rolling Trace Tbl
1404	(57C)	ADDRESS	4	$ROTJOE	Addr JOE Rolling Trace Tbl
1408	(580)	ADDRESS	4	$ROTDISP	Dispatcher rolling trace tb
1412	(584)	BITSTRING	4		Reserved

Comment

GENERAL WORK AREA FOR USE BY MAIN TASK

End of Comment

1416	(588)	DBL WORD	8	(0)	ALIGN $SCANXWA
1416	(588)	CHARACTER	12	$SCANXWA	WORK AREA FOR HASPSXIT, PASSING DATA BETWEEN PRE/POST EXITS, STABS
1416	(588)	CHARACTER	18		ASSURE SUFFICIENT $DEST LENGTH

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
				Comment	
		Remap $SCANXWA for use in HASP581 message			
				End of Comment	
1416	(588)	CHARACTER	8	$M581DVN	Logical device name
1424	(590)	SIGNED	4	$M581RC	DYNALLOC return code
1428	(594)	BITSTRING	2	$M581ERR	DYNALLOC error code
1430	(596)	BITSTRING	2	$M581INF	DYNALLOC info code
1432	(598)	BITSTRING	1	$M581FLG	Flags for HASP581 msg
		1...		$M581FGF	"B'10000000'" - $GETWORK failed for DAIRFAIL parm list
		.1..		$M581FL1	"B'01000000'" - DAIRFAIL formatted text (level 1) to display
		..1.		$M581FL2	"B'00100000'" - DAIRFAIL formatted text (level 2) to display
		...1		$M581FNT	"B'00010000'" - No formatted text (needed to ensure a non-zero DISPER= byte)
				Comment	
		Remap $SCANXWA for us by $D/$T PCE command			
				End of Comment	
1416	(588)	SIGNED	2	$DPCEDEF	Number of PCEs defined
1418	(58A)	SIGNED	2	$DPCEALC	Number of PCEs allocated
1420	(58C)	SIGNED	2	$DPCEEND	Number of PCEs ENDed
1424	(590)	SIGNED	4	$DPCEACT	$ACTIVE count for PCEs
1428	(594)	BITSTRING	1	$DPCEFLG	Flag byte
		1...		$DPCETON	"B'10000000'" Trace on flag
		.1..		$DPCETOF	"B'01000000'" Trace off flag
		..1.		$DPCETMD	"B'00100000'" Trace modified
1428	(594)	X'C0'	0	$DPCETMX	"$DPCETON+$DPCETOF" Trace mixed
1428	(594)	X'A0'	0	$DPCETSO	"$DPCETON+$DPCETMD" Trace set on
1428	(594)	X'60'	0	$DPCETSF	"$DPCETOF+$DPCETMD" Trace set OFF
		...1		$DPCEDSY	"B'00010000'" Dispatchable flag on
		.... 1...		$DPCEDSN	"B'00001000'" Dispatchable flag off
		.... .1..		$DPCEDSM	"B'00000100'" Dispatchable modified
1428	(594)	X'18'	0	$DPCEDSX	"$DPCEDSY+$DPCEDSN" Dispatchable mixed
1428	(594)	X'14'	0	$DPCEDSO	"$DPCEDSY+$DPCEDSM" Dispatchable set on
1428	(594)	X'C'	0	$DPCEDSF	"$DPCEDSN+$DPCEDSM" Dispatchable set off
1428	(594)	X'D'	0	$DPCELEN	"*-$DPCEDEF" Length of work area
1440	(5A0)	DBL WORD	8	$GENWORK (0)	GENERAL WORK AREA FOR MAIN TASK
				Comment	
		THIS AREA IS USED BY HASPSCAN AND HASPSXIT AS A WORK AREA			
				End of Comment	
1440	(5A0)	BITSTRING	24	$SCNDL24	WORK AREA FOR $SCAN SERVICE
1440	(5A0)	X'5A0'	0	$SCNDWKA	"$GENWORK+00,08,C'D'" WORK AREA FOR $SCAN SERVICE
1440	(5A0)	X'5A8'	0	$SCNDWKB	"$GENWORK+08,08,C'D'" WORK AREA FOR $SCAN SERVICE
1440	(5A0)	X'5B0'	0	$SCNDWKC	"$GENWORK+16,08,C'X'" WORK AREA FOR $SCAN SERVICE
1440	(5A0)	X'5A0'	0	$SCNDL16	"$GENWORK+00,16,C'X'" WORK AREA FOR $SCAN SERVICE
1464	(5B8)	SIGNED	4	$SCNLLIM	$SCAN lower limit work area

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
				Comment	
		THIS WORK AREA IS USED BY THE SRVPRSCN ROUTINE IN HASPSERV TO PROCESS A $TDEVN COMMAND OR A PRINT/PUNCH INITIALIZATION STATEMENT			
				End of Comment	
1440	(5A0)	BITSTRING	8	$PRMDSAV	SAVE AREA FOR PRMODE OPERAND
1448	(5A8)	BITSTRING	8	$PRMDINX	PRMODE INDEX LIST FROM DCT
1456	(5B0)	BITSTRING	1	$PRMDFLG	PRMODE FLAG BYTE
		1...		$PRMDEND	"B'10000000'" END OF OPERAND FOUND
1456	(5B0)	X'11'	0	$PRMDWKL	"*-$GENWORK" LENGTH OF PRMODE SCAN WORK AREA
				Comment	
		THIS WORK AREA IS USED BY THE $DTEDYN SERVICE ROUTINE FOR THE MVS ATTACH MACRO PARAMETER LIST			
				End of Comment	
				Comment	
		MACDATE 11/11/91			
				End of Comment	
1440	(5A0)	SIGNED	4	$DTELSTF (0)	
1440	(5A0)	ADDRESS	4		DE OR EPLOC ADDRESS
1444	(5A4)	ADDRESS	4		DCB ADDRESS
1448	(5A8)	ADDRESS	4		NEW FORMAT + ECB ADDR
1452	(5AC)	ADDRESS	4		GSPL OR GSPV
1456	(5B0)	ADDRESS	4		SHSPV OR SHSPL
1460	(5B4)	ADDRESS	4		EXIT ROUTINE ADDRESS
1464	(5B8)	ADDRESS	2		DPMOD VALUE
1466	(5BA)	ADDRESS	1		LPMOD VALUE
1467	(5BB)	ADDRESS	1		STATUS BYTE
1468	(5BC)	ADDRESS	4	(2)	EP NAME SPACE
1476	(5C4)	ADDRESS	4		ADDRESS OF JSCB
1480	(5C8)	ADDRESS	4		(E)STAI PARM LIST
1484	(5CC)	ADDRESS	4		EXIT ADDRESS
1488	(5D0)	ADDRESS	4		TASKLIB
1492	(5D4)	ADDRESS	1		FLAG BYTE
1493	(5D5)	ADDRESS	1		TASK ID
1494	(5D6)	ADDRESS	2		PARM LIST LENGTH
1496	(5D8)	ADDRESS	4		SUBPOOL LIST ADDRESS/VALUE
1500	(5DC)	ADDRESS	1		SET FLAGS
1501	(5DD)	ADDRESS	1		SET UP FORMAT NUMBER
1502	(5DE)	BITSTRING	10		RESERVED BYTES FOR FUTURE
1502	(5DE)	X'5A0'	0	$DTELIST	"$DTELSTF,*-$DTELSTF" EQUATE FOR BASE AND LENGTH
				Comment	
		THIS WORK AREA IS USED BY THE $DTEDYN SERVICE ROUTINE FOR THE MVS TCBTOKENmacro parameter list			
				End of Comment	
				Comment	
		MACDATE = 04/03/89			
				End of Comment	
1440	(5A0)	SIGNED	4	$DTELST2 (0)	
1440	(5A0)	CHARACTER	16	(0)	TCB TOKEN (INPUT/OUTPUT)

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
1440	(5A0)	BITSTRING	8		
1448	(5A8)	SIGNED	4		
1452	(5AC)	ADDRESS	4		
1456	(5B0)	ADDRESS	4		ASCB ADDRESS (INPUT)
1460	(5B4)	SIGNED	4	(0)	FLAGS (INPUT)
1460	(5B4)	SIGNED	1		TYPE OF TCBTOKEN REQUEST
1461	(5B5)	SIGNED	3		RESERVED
1461	(5B5)	X'5A0'	0	$DTELIS2	"$DTELST2,*-$DTELST2" EQUATE FOR BASE AND LENGTH
				Comment	
				This work area is used by the $SCAN facility to build certain variations of the $HASP003 message	
				End of Comment	
1440	(5A0)	SIGNED	4	$SCANWKA (0)	
1440	(5A0)	BITSTRING	40		List of diagnostic levels
1480	(5C8)	CHARACTER	100		Work area
1580	(62C)	X'8C'	0	$GENWRKL	"*-$GENWORK"
				Comment	
				This work area is used by anyone that might have to reference the entire system affinity mask	
				End of Comment	
1440	(5A0)	BITSTRING	4	$GENSYS	Sys affinity work area
				Comment	
				PROCESSOR DEPENDENT FLAG BYTES	
				End of Comment	
1580	(62C)	BITSTRING	3	$PROCESS (0)	General process flg
1580	(62C)	X'3'	0	$PROCDFT	"$RASSIGN+$ECKTRMJ" Flags on by default
		1...		$PRONEWS	"B'10000000'" JNEW CB being updated
		.1..		$SPINJQE	"B'01000000'" JQE added to $SPIN queue
		..1.		$PRSCNWB	"B'00100000'" Bypass $SCAN FILTER=WB optimization
		...1		$PRODISP	"B'00010000'" Processors have been ended (disposed)
		.... 1...		$ARMVR	"B'00001000'" Verification of ARM registrations required
		.... ..1.		$RASSIGN	"B'00000010'" Assign original job number, even if outside JOBDEF RANGE
		.... .1..		$INTRDCB	"B'00000100'" Use DCB attributes associated with INTRDR for SYSIN data sets. See comment for RID1UDCB in $DCT.
		1		$ECKTRMJ	"B'00000001'" Remote Member Jettison flag - $ECKPTLOCK done whenever a member fails
1581	(62D)	BITSTRING	1	$MCONFG1	REMOTE CONSOLE PROCESSOR FLAG
		1...		$MCONACT	"X'80'" Remote console has output activity
		.1..		$MCONWAT	"X'40'" Remote console waiting for jobqueue
		..1.		$MCONNPM	"X'20'" Network path manager busy
		...1		$MCONWPM	"X'10'" Console waiting on path manager
1582	(62E)	BITSTRING	1	$COMMFG1	COMMAND PROCESSOR FLAG
		1...		$COMMDWN	"X'80'" XEQ/CKPT/SPIN Shutdown complete
		.1..		$COMMWAT	"X'40'" HASPCOMM waiting for checkpoint
		..1.		$COMMABT	"X'20'" Command being aborted
1583	(62F)	BITSTRING	1	$EXECFG1	EXECUTION PROCESSOR FLAG
		1...		$EXECDWN	"X'80'" XEQ shutdown complete
		.1..		$EXECSPN	"X'40'" XEQ is ready for SPIN to do its final processing
1584	(630)	BITSTRING	1	$CKPTFG1 (0)	Ckpt Processor flag
1584	(630)	X'39'	0	$CK1DFLT	"$CKPTDPY+$CKPTLDP+$CKPTTMD+$CKPTDPS" CKPTDEF DEFAULT: MODE=DUPLEX,DUPLEX=ON
		1...		$CKPTDWN	"B'10000000'" XEQ,CKPT SHUTDOWN COMPLETE
		.1..		$CKPTMSG	"B'01000000'" Do not issue HASP479 msg
		..1.		$CKPTTMD	"B'00100000'" TELLS SCAN WE'RE IN DPLX MD

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
		...1		$CKPTDPS	"B'00010000'" INDICATES SET TO DUPLEX ON
		.... 1...		$CKPTDPY	"B'00001000'" INDICATES IN DUPLEX MODE
		.... .1..		$CKPTTEK	"B'00000100'" $T'D NEWCKPTN FIELD
		.... ..1.		$CKPTPRI	"B'00000010'" INDICATES PRIO AGING USED
		1		$CKPTLDP	"B'00000001'" INDICATES DUPLEXING LOCALLY
1585	(631)	BITSTRING	1	$CKPTFG2	Checkpoint processor flag
		1...		$CK2LOCK	"B'10000000'" LOCKING OPERATION
		.1..		$CK2READ	"B'01000000'" READ OPERATION
		..1.		$CK2WRT	"B'00100000'" WRITE OPERATION
		...1		$CK2FMT	"B'00010000'" FORMAT OPERATION
		.... 1...		$CK2DIAG	"B'00001000'" We're in the dialog
		.... .1..		$CK2LOKD	"B'00000100'" CKPT LOCK IS HELD
		.... ..1.		$CK2PRIM	"B'00000010'" PRIMARY CKPT OPERATION
		1		$CK2INIT	"B'00000001'" INITIALIZATION OPERATION
1586	(632)	BITSTRING	1	$CKPTFG3	CHECKPOINT PROCESSOR FLAG
		1...		$CK3KRD1	"B'10000000'" KREAD1 processing active
		.1..		$CK3BYLK	"B'01000000'" CKPT lock msg bypassed
		..1.		$CK3CHLG	"B'00100000'" BUILDING CH LOG PACKETS
		...1		$CK34KPG	"B'00010000'" BUILDING 4K PAGE PACKETS
		.... 1...		$CK3WTCP	"B'00001000'" CKPT2 IS WRITE CHECKPOINT
		.... .1..		$CK3RDCP	"B'00000100'" CKPT2 IS READ CHECKPOINT
		.... ..1.		$CK3NMEM	"B'00000010'" $CKPT RAN OUT OF MEMORY
		1		$CK3ACTV	"B'00000001'" CKPT PCE is active (has been dispatched)
1587	(633)	BITSTRING	1	$CKPTFG4	CHECKPOINT PROCESSOR FLAG
		1...		$CK4ECOP	"B'10000000'" EXTRA COPY OF CKPT REQ
		.1..		$CK4ECSA	"B'01000000'" EXTRA COPY IS IN ECSA
		..1.		$CK4OPVY	"B'00100000'" Request to change OPVERIFY to YES
		...1		$CK4OPVN	"B'00010000'" Request to change OPVERIFY to NO
		.... 1...		$CK4OPRQ	"B'00001000'" Work bit for $SCAN to set operator request
		.... .1..		$CK4HRSV	"B'00000100'" Hardware reserve or CF lock
		.... ..1.		$CK4CKPC	"B'00000010'" KFORMAT needed because CKPT size was changed via operator command or init has deferred format to end of warmstart
		1		$CK4CFAB	"B'00000001'" CF subtask ABENDed and cannot find CKG to post
1588	(634)	BITSTRING	1	$TRCFG1	TRACE LOG PROCESSOR FLAG
		1...		$TRCSYSX	"B'10000000'" Tell EVTL to shut down
		1		$TRCDWN	"B'00000001'" Tell XEQ of trace log shutdown

Comment

$CKPTLOC is used in combination with $CKPTUPD to determine if the CKPT data set size (the size of a CTENT) has changed. Every time the size is altered $CKPTUPD is incremented. If $CKPTLOC is not the same as $CKPTUPD, then an update has occured and the CKPT control blocks need to be updated.

End of Comment

1589	(635)	BITSTRING	1	$CKPTLOC	Local copy of $CKPTUPD
1590	(636)	BITSTRING	1	$CKPTFG5	Checkpoint flag
		1...		$CK5QSUS	"B'10000000'" PCE obtained the queues
		.1..		$CK5ACT	"B'01000000'" $ACTIVATE has occurred
1591	(637)	SIGNED	1	$BERTHRS	Minimum BERTs required for $QADD to be processed

Comment

MISCELLANEOUS HASP CONTROL FIELDS

End of Comment

1592	(638)	ADDRESS	4	$MSAVE (5)	RTAM NON-REENTRANT REG SAVE AREA
1612	(64C)	BITSTRING	4		Reserved

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
1616	(650)	DBL WORD	8	$POSTSAV (4)	Save area for $POST et al

Comment

Work area used very early during JES2 initialization.
These fields are not used once HASPIRA (HASPINIT)
gets control.

End of Comment

1616	(650)	X'638'	0	$STARTTM	"$MSAVE,16" STCKE time at label HASP
1616	(650)	X'6C8'	0	$STARTCP	"$SPMSKWA,8" CPU time at label HASP
1648	(670)	SIGNED	4	$GETWKSV (10)	Save area for $GET/$RETWORK
1648	(670)	X'674'	0	$GETWKSF	"$GETWKSV+4,4" $GETWKSV R15 SLOT
1648	(670)	X'67C'	0	$GETWKS1	"$GETWKSV+12,4" $GETWKSV R1 SLOT
1648	(670)	X'680'	0	$GETWKS2	"$GETWKSV+16,4" $GETWKSV R2 SLOT
1648	(670)	X'670'	0	$CKPTSAV	"$GETWKSV,4*9" SAVE AREA FOR $CKPT
1648	(670)	X'680'	0	$CKPTSR0	"$CKPTSAV+16,4" $CKPTSAV R0 SLOT
1648	(670)	X'684'	0	$CKPTSR1	"$CKPTSAV+20,4" $CKPTSAV R1 slot
1648	(670)	X'694'	0	$CKPTAR0	"$CKPTSAV+36,4" $CKPTSAV AR0 slot
1688	(698)	DBL WORD	8	$DOUBLE	JES2 MAIN-TASK SCRATCH WORK AREA
1688	(698)	X'698'	0	$SINGLE	"$DOUBLE,4,C'X'" JES2 MAIN-TASK 4 byte area
1696	(6A0)	DBL WORD	8	$DWORK	JES2 MAIN-TASK SCRATCH WORK AREA
1704	(6A8)	DBL WORD	8	$DWORK2	JES2 MAIN-TASK SCRATCH WRK AREA
1704	(6A8)	X'698'	0	$WORK16	"$DOUBLE,16,C'X'" JES2 MAIN-TASK 16 BYTE AREA
1704	(6A8)	X'698'	0	$WORK24	"$DOUBLE,24,C'X'" JES2 MAIN-TASK 24 BYTE AREA
1712	(6B0)		16	$STKEWRK (0)	STCKE work area
1728	(6C0)	BITSTRING	1	$JOEWRKA	WORK A FOR ADDING JOES TO Q
1729	(6C1)	BITSTRING	3		Reserved for future use
1732	(6C4)	ADDRESS	4	$CATCACH	CAT cache pointer for this member.
1736	(6C8)	SIGNED	4	(0)	Ensure fullword allignment
1736	(6C8)	BITSTRING	32	$SPMSKWA	SPOOL MASK WORK AREA
1768	(6E8)	CHARACTER	32	$BLANKS	32 blank characters
1800	(708)	DBL WORD	8	(0)	Ensure doubleword alignment
1800	(708)	BITSTRING	64	$ZEROS	16 words of zeros
1800	(708)	X'708'	0	$ZEROES	"$ZEROS" ALTERNATE NAME FOR $ZEROS
1800	(708)	X'708'	0	$ZERO	"$ZEROS" Another name for $ZEROS
1864	(748)	BITSTRING	4	$ZEROFFF	QUEUE ELEMENT CHAIN MASK
1864	(748)	X'748'	0	$0FFF	"$ZEROFFF" ALTERNATE NAME FOR $ZEROFFF
1868	(74C)	BITSTRING	4	$000F	INDEX ELEMENT MASK
1872	(750)	BITSTRING	4	$ALLFFS	FULLWORD OF X'FF'S
1872	(750)	X'750'	0	$MINUS1	"$ALLFFS" ALTERNATE NAME FOR $ALLFFS
1876	(754)	BITSTRING	4	$MINUS2	CONSTANT -2
		1...		$WSUSER	"X'80'" WS USER CRITERION INDICATION
1880	(758)	BITSTRING	4	$WSBITOF	USED TO TURN USER ID BIT OFF
1884	(75C)	BITSTRING	8	$MAXDBLE	MAX POSITIVE NUMBER IN DOUBLEWORD
1884	(75C)	X'75C'	0	$MAXFULL	"$MAXDBLE,4" MAX POSITIVE NUMBER IN FULLWORD
1884	(75C)	X'75C'	0	$MAXHALF	"$MAXDBLE,2" MAX POSITIVE NUMBER IN HALFWORD
1884	(75C)	X'75C'	0	$7FFF	"$MAXDBLE,2" HIGH BIT OFF MASK
1884	(75C)	X'75C'	0	$HIBITOF	"$MAXDBLE,4" FULL WORD HI-ORDER BIT MASK
1892	(764)	SIGNED	4	$F0	FULLWORD CONSTANT 0
1892	(764)	X'766'	0	$H0	"$F0+2,2,C'H'" HALFWORD CONSTANT 0
1896	(768)	SIGNED	4	$F1	FULLWORD CONSTANT 1
1896	(768)	X'76A'	0	$H1	"$F1+2,2,C'H'" HALFWORD CONSTANT 1
1900	(76C)	SIGNED	4	$F2	FULLWORD CONSTANT 2
1900	(76C)	X'76E'	0	$H2	"$F2+2,2,C'H'" HALFWORD CONSTANT 2
1904	(770)	SIGNED	4	$F3	FULLWORD CONSTANT 3
1904	(770)	X'76F'	0	$H3	"$F2+3,3,C'H'" HALFWORD CONSTANT 3
1908	(774)	SIGNED	4	$F4	FULLWORD CONSTANT 4
1908	(774)	X'776'	0	$H4	"$F4+2,2,C'H'" HALFWORD CONSTANT 4
1912	(778)	SIGNED	4	$F5	FULLWORD CONSTANT 5
1912	(778)	X'77A'	0	$H5	"$F5+2,2,C'H'" HALFWORD CONSTANT 5
1916	(77C)	SIGNED	4	$F6	FULLWORD CONSTANT 6
1916	(77C)	X'77E'	0	$H6	"$F6+2,2,C'H'" HALFWORD CONSTANT 6
1920	(780)	SIGNED	4	$F7	FULLWORD CONSTANT 7

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
1920	(780)	X'782'	0	$H7	"$F7+2,2,C'H'" HALFWORD CONSTANT 7
1924	(784)	SIGNED	4	$F8	FULLWORD CONSTANT 8
1924	(784)	X'786'	0	$H8	"$F8+2,2,C'H'" HALFWORD CONSTANT 8
1928	(788)	SIGNED	4	$F15	FULLWORD CONSTANT 15
1932	(78C)	SIGNED	4	$F255	FULLWORD CONSTANT 255
1932	(78C)	X'78E'	0	$H255	"$F255+2,2,C'H'" HALFWORD CONSTANT 255
1936	(790)	SIGNED	4	$F4096	FULLWORD CONSTANT 4096
1936	(790)	X'792'	0	$H4096	"$F4096+2,2,C'H'" HALFWORD CONSTANT 4096
1940	(794)	SIGNED	4	$F65535	FULLWORD CONSTANT 65535
1944	(798)	SIGNED	4	$HIBITON (0)	FULL WORD HI-ORDER BIT MASK
1944	(798)	X'6AC'	0	$HEXTRAN	"*-C'0'" HEXADECIMAL-TO-EBCDIC
1948	(79C)	CHARACTER	16		TRANSLATE TABLE
1964	(7AC)	BITSTRING	1	$CTLBFFS (0)	X'FF's to test cntl bytes

Comment

SAF CLASS Value. Reference in RACROUTEs should be to name on the EQUate.

End of Comment

1969	(7B1)	ADDRESS	1	$JSPLL	Length of JESSPOOL class
1970	(7B2)	CHARACTER	8	$JSPLV	JESSPOOL class
1970	(7B2)	X'7B1'	0	$JSPL	"$JSPLL,*-$JSPLL,C'X'" JESSPOOL SAF class
1978	(7BA)	BITSTRING	6		Reserved
1984	(7C0)	DBL WORD	8	(0)	Ensure alignment
1984	(7C0)	DBL WORD	8	$CLOCK	LAST INTERVAL TIMER CLOCK VALUE
1992	(7C8)	BITSTRING	16	$MVSWAIT	STCK Time of MVS WAIT
2008	(7D8)	BITSTRING	16	$MVSDISP	STCK Time when JES2 is dispatched from MVS WAIT
2024	(7E8)	ADDRESS	4	$REGSAVC (18)	NON-REENTRANT REG. SAVE AREA
2024	(7E8)	X'7F0'	0	$REGSAVE	"$REGSAVC+2*4,4" NON-REENTRANT REG SAVE AREA (16 WORDS-NOTE OVERLAY DEFINITION)
2096	(830)	ADDRESS	1	$PSWSAVE	NON-REENTRANT PSW CC SAVE BYTE
2097	(831)	ADDRESS	1	$PSWMODE	Non-reentrant PSW ASC save byte (copied from PSVMODE)
2098	(832)	ADDRESS	1	$PSWAMOD	Non-reentrant PSW AMODE save byte (copied from PSVAMODE)
2108	(83C)	BITSTRING	8		Reserved

Comment

The $XCFFLG1 and $XCFFLG2 flags indicate the states of the automatic restart function. $XCFFLG1 can only be modified in the main task. $XCFFLG1 is manipulated by SCAN which can return the field to a previous state. This is done via the method SCAN uses to backup the storage that it is modifying (see $SCANB macro). $XCFFLG2 is modified when JESXCF has failed. The $XCF1STR flag indicates a request to start the automatic restart function (AUTOESYS=ON by the operator). The $XCF1STP flag indicates a request to stop the automatic restart function (AUTOESYS=OFF by the operator). The $XCF1NXC in the off state indicates that the automatic restart function is active (ON). The $XCF1NXC in the on state indicates that the automatic restart function is inactive (OFF). The $XCF1ERR

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
		flag on indicates that the main task XCF function or the group exit has had an error. With the $XCF1ERR flag set, the display for MASDEF will show AUTOESYS=FAILED. The $XCF2ERR flag on indicates that the group exit has had an error. The $XCF1NRS indicates that RESTART=NO was selected on the MASDEF statement. The $XCF1NRS flag off will indicate that RESTART=YES was chosen.			

				End of Comment	
2116	(844)	ADDRESS	1	$XCFFLG1	XCF status flags
		1...		$XCF1NAR	"B'10000000'" Request no auto restart
		.1..		$XCF1NRS	"B'01000000'" No XCF restart from this member
		..1.		$XCF1ERR	"B'00100000'" XCF environment failed
		...1		$XCF1STR	"B'00010000'" Request to set AUTOESYS on
		.... 1...		$XCF1STP	"B'00001000'" Request to set AUTOESYS off
		.... .1..		$XCF1SGO	"B'00000100'" An MVS has left the Sysplex
		.... ..1.		$XCF1MUD	"B'00000010'" A member has changed state
2117	(845)	ADDRESS	1	$XCFFLG2	JESXCF status flag
		1...		$XCF2ERR	"B'10000000'" JESXCF environment failed
2120	(848)	ADDRESS	4	$XCFIXVT	JESXCF Group token this is a copy of the $HCCT field CCTIXVT
2124	(84C)	SIGNED	4	$TOTCKRN	Total number of 4K records in the checkpoint (this includes the checkpoint records, master record and change log)
				Comment	
		Save area (PCE prefix) used by the JES2 dispatcher, JES2 initialization, STAM and JES2 termination. The initialization PCE id is placed in the work area so that if a $WAIT with MVSWAIT=PCEINTID is done, an MVS wait will be performed (rather than a call to the dispatcher with this work area).			
				End of Comment	
2128	(850)	SIGNED	4	(0)	ENSURE FULLWORD BOUNDARY
2128	(850)	BITSTRING	312	$DISPSAV	Dispatcher save area
2128	(850)	BITSTRING	256		Ensure area
2384	(950)	BITSTRING	56		is zero
2128	(850)	CHARACTER	4		Set eye catcher (PCEEYE)
2326	(916)	ADDRESS	1	(2)	Set initialization PCE
2440	(988)	SIGNED	4	$CKPTOAC	TOKEN CURRENT CKPT I/O
2444	(98C)	SIGNED	4	$CKPTONX	TOKEN NEXT SCHED CKPT I/O
2448	(990)	DBL WORD	8	$SIDTIME	TOD OF LAST CKPT FOR THIS SYSTEM
2456	(998)	CHARACTER	4	$SID	Member name (SMF) for this member
2460	(99C)	ADDRESS	4	$OWNNIT	ADDR OF THIS SYSTEM'S NIT ENTRY
2464	(9A0)	CHARACTER	8	$SNV (0)	JES NAME AND VERSION
2464	(9A0)	CHARACTER	4	$SSNM	NAME OF SUBSYSTEM
2468	(9A4)	CHARACTER	4	$SSVS	VERSION, RELEASE, MOD
2472	(9A8)	ADDRESS	3	$SYSID (0)	SYSTEM IDENTIFICATION
2472	(9A8)	ADDRESS	2	$OWNNODE	NUMBER OF THIS NODE
2474	(9AA)	ADDRESS	1	$SIDBUSY	System ID of this member
2475	(9AB)	ADDRESS	1		Reserved for future use
2476	(9AC)	SIGNED	2	$SIDINDX	System ID index (4 * ($SIDBUSY-1))
2478	(9AE)	ADDRESS	1	$SUBTASK	HASP SUBTASK SYSTEM STATUS
2479	(9AF)	ADDRESS	1	$STATUS	HASP SYSTEM STATUS
2480	(9B0)	ADDRESS	4	$IOTPDDB	OFFSET WITHIN IOT OF 1ST PDDB
2484	(9B4)	ADDRESS	4	$CYLMAPL	Direct access allocation map len ($NUMTG/8)
2488	(9B8)	SIGNED	2	$TGAELEN	TRACK GROUP ALLOC AREA LENGTH FOR NON-SPIN PRIMARY ALLOC IOT'S
2490	(9BA)	SIGNED	2	$TGAENUM	NUMBER OF TGAE'S IN PRIMARY ALLOC IOT (MIN 50) - RESET TO ACTUAL VALUE DURING INITIALIZATION

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
2492	(9BC)	ADDRESS	4	$AFFLEN	Number of bytes needed to hold system affinity bits
2492	(9BC)	X'9BE'	0	$AFFLENH	"$AFFLEN+2,2" Halfword of SYSAFF bytes
2492	(9BC)	X'4'	0	$CTLBLEN	"L'$CKLEVNM" Size of the control byte entries CTLB's and CLCB's
2496	(9C0)	BITSTRING	1	$STATUS1 (0)	More HASP status flags

Comment

If a $PJES2,ABEND is issued and a coupling facility checkpoint write is still active, COMM will issue the HASP552 message and wait for a post from CKPT to indicate the write is done. This bit will be set by COMM when CKPT is NOT to wait for XEQ processing to finish before posting COMM that checkpoint processing is complete.

End of Comment

		1...		$SDWNFST	"B'10000000'" Shut down fast. CKPT don't wait for XEQ
		.1..		$JINITIP	"B'01000000'" JES2 initialization is in progress
		..1.		$ST1PJTM	"B'00100000'" $PJES2,TERM issued
		...1		$WRMDONE	"B'00010000'" Warm start completed
		.... 1...		$STOPXEQ	"B'00001000'" $P XEQ issued
		.... .1..		$CATMAX	"B'00000100'" CAT max JOBs has been newly reached or has been $T'ed
		.... ..1.		$WLMDIFF	"B'00000010'" This member at WLM Service definition different from JESplex level
		1		$WLMRGOK	"B'00000001'" Force registration of all queues successful
2497	(9C1)	BITSTRING	1	$STATUS2 (0)	More status
		1...		$BRTCLN	"B'10000000'" PREBERTs owned by ABENDed PCEs exist
		.1..		$XEQINT	"B'01000000'" Call $CATJCNT to initialize CATCURJ (xeq) class cnt
		..1.		$PDYNDET	"B'00100000'" At least one ENDED PCE has been dynamically detached
		...1		$AUTONJE	"B'00010000'" Automatic connect of NJE devices is allowed (NJEDEF CONNECT=YES)
		.... 1...		$AUTORST	"B'00001000'" Automatic restart of NJE devices is allowed
		.... .1..		$MODREFR	"B'00000100'" Refresh of JES2 load modules allowed
		.... ..1.		$BERTNNM	"B'00000010'" BERT shortage inhibits normal processing
		1		$STRTDSI	"B'00000001'" JES2 started without the NODSI PPT/SCHEDxx option
2498	(9C2)	SIGNED	2	$CTLBLNH (0)	Size of cntl bytes
2500	(9C4)	BITSTRING	1		Reserved for future IBM use
2501	(9C5)	BITSTRING	3	$AFFINTY	Our system affinity token
2504	(9C8)	BITSTRING	4	$XCFXEQP	Members $POSTed via XCF for new jobs to execute
2508	(9CC)	ADDRESS	4	$MAXREST	Max resistance of a path
2512	(9D0)	ADDRESS	2	$NODREST	RESISTANCE OF THIS NODE
2514	(9D2)	ADDRESS	2	$NODETOL	PATH RESISTANCE TOLERANCE
2516	(9D4)	ADDRESS	2	$NITESIZ	SIZE OF NIT ELEMENT
2518	(9D6)	BITSTRING	1	$MASPOST	CROSS-SYSTEM POST FLAG BYTES
2519	(9D7)	BITSTRING	1	$PCEPOST	$$POST FLAG BYTE
		1...		$PCEASYN	"B'10000000'" ASYNCH POST FLAG BIT
2520	(9D8)	ADDRESS	2	$BUFLENG	HASP IN-CORE BUFFER SIZE
2522	(9DA)	ADDRESS	2	$SONWORK	SIGN-ON WORK SPACE
2524	(9DC)	ADDRESS	4	$ACTIVE	COUNT OF ACTIVE FUNCTIONS
2528	(9E0)	ADDRESS	4	$ACTVFSS	COUNT OF ACTIVE FSS'S
2532	(9E4)	BITSTRING	8	$SJFJDVT	DEFAULT JDVT NAME
2540	(9EC)	BITSTRING	8	$MSKNODE	MASK NODE NUMBER (MDCTNODE)
2548	(9F4)	ADDRESS	4	$ERRTRCA	"V(HASPTRCA)" TERM/RECOVERY CONTROL AREA
2552	(9F8)	SIGNED	4	$HETOKEN	HASP MAIN TASK ESTAE TOKEN
2556	(9FC)	SIGNED	2	$CHLOGSZ	Change log size this member
2558	(9FE)	SIGNED	2	$RECVCNT	NUMBER OF PCES IN RECOVERY
2560	(A00)	ADDRESS	4	$ERRERPL	ADDR OF ERPL IF $ERROR, ELSE 0
2564	(A04)	ADDRESS	4	$ERRAFF	ADDR of affinity field or token for dump
2568	(A08)	SIGNED	4	$ERRREGS (3)	REGS 15, 0, 1 BEFORE $ERROR

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
2568	(A08)	X'A0C'	0	$ERRREG0	"$ERRREGS+4,4" REG 0 SLOT IN $ERRREGS
2580	(A14)	SIGNED	4	$ERRCODE	CATASTROPHIC ERROR REASON CODE
2584	(A18)	ADDRESS	4	$ERRJQE	Related JQE addr ($ERROR)
2588	(A1C)	ADDRESS	4	$ERREOPT	RECVOPTS name addr ($ERROR)
2592	(A20)	ADDRESS	2	$EXCPCT	ACTIVE HASP I/O COUNT
2594	(A22)	ADDRESS	1	$XWTRFLG	EXTERNAL WRITERS FLAG
		1...		$XWTRACT	"B'10000000'" POST XWTR ACTIVE
2595	(A23)	ADDRESS	1	$MAXCMCT	MAXIMUM CONSOLE MESSAGE COUNT
2596	(A24)	ADDRESS	4	$FSSETIM	TIME INTERVAL FOR ERROR ASSUMED FOR FSS/FSA/ORDERS (5 MINUTES)
2600	(A28)	ADDRESS	4	$RBFADDR	ADDR FOR TERM AS FAILING ADDR AT OUR RB LEVEL, IF NON-ZERO REGS ARE $REGSAVE/$CURPCE (NOT SDWA)
2604	(A2C)	BITSTRING	1	$WARMTYP	Warmstart type descriptor FLAG.

Comment

WARM EQU X'80' Single-member warmstart
HOT EQU X'40' Hot start indicator
QUICK EQU X'20' Quick start indicator
CONFIG EQU X'10' All-member warmstart
ESYS EQU X'08' $E MEMBER(x) warmstart
COLD EQU X'04' Cold start
MVSIPL EQU X'02' MVS was IPLed
COLDFMT EQU X'01' Cold start with format

End of Comment

2605	(A2D)	BITSTRING	1	$BRTDTYP	$DOGBERT working value for BERT type
2606	(A2E)	ADDRESS	2		Reserved for future use
2608	(A30)	SIGNED	4	$WRMINIT (0)	# OF USER REQUESTED WARM PCES
2608	(A30)	SIGNED	2	$WRMREG	# OF PCES FOR REGULAR WARMSTART
2610	(A32)	SIGNED	2	$WRMESYS	# OF PCES FOR $E SYS RESTART
2612	(A34)	ADDRESS	4	$ERDOMID	DOM id for $HASP400 message
2616	(A38)	ADDRESS	4	$ACCMBAD	CMB ADDRESS FOR HASP601 MESSAGE
2620	(A3C)	ADDRESS	4	$NDDOMID	MESSAGE ID FOR HASP607 MSG
2624	(A40)	ADDRESS	4	$SDCMBAD	CMB ADDRESS FOR HASP623 MESSAGE
2628	(A44)	SIGNED	4	$HASP051	HASP051 DOM ID
2632	(A48)	ADDRESS	4	$PBELST	List of PREBERTs
2636	(A4C)	ADDRESS	2	$PITNUM	NUMBER OF PITS FOR SCANTAB ($MAXINIT, LATER $MAXPART)
2638	(A4E)	ADDRESS	2	$NITECNT	COUNT OF NIT ENTRIES FOR SCANTAB, ($MAXNODE, LATER $NUMNODE)
2640	(A50)	ADDRESS	4	$BRTFREC	Free BERT count (accurate only during thrshld proc)

Comment

HASP DEVICE CONTROL TABLE CHAIN POINTERS AND RELATED
FIELDS. LOCAL/LINE/LOGON DCTS ARE CHAINED IN $DCTPOOL USING
THE DCTCHAIN FIELD. ALL OTHER DCTS ARE CHAINED IN $DCTPOL2
USING DCTCHAIN. OTHER DCT CHAINING IS AS COMMENTED BELOW
AND IN THE $DCT MACRO PROLOG.

End of Comment

2644	(A54)	ADDRESS	4	$DCTPOOL	FIRST HASP DCT IN LOCAL DEVICE, LINE, AND LOGON CHAIN
2648	(A58)	ADDRESS	4	$DCTPOL2	FIRST HASP DCT IN CHAIN OF ALL OTHER DCTS
2652	(A5C)	ADDRESS	4	$RDRDCT	FIRST LOCAL READER DCT ADDR
2656	(A60)	ADDRESS	4		Reserved
2660	(A64)	ADDRESS	4	$PRTDCT	FIRST LOCAL PRINTER DCT ADDR
2664	(A68)	ADDRESS	4	$PUNDCT	FIRST LOCAL PUNCH DCT ADDR
2668	(A6C)	ADDRESS	4	$ROUTDCT	FIRST NJE ROUTE DCT ADDR
2672	(A70)	ADDRESS	4	$LNEDCT	FIRST LINE DCT ADDR
2676	(A74)	ADDRESS	4	$MLNEDCT	FIRST MAS LINE DCT ADDR
2680	(A78)	ADDRESS	4	$LOGNDCT	FIRST LOGON DCT ADDR
2684	(A7C)	ADDRESS	4	$SRVDCT	FIRST SERVER DCT

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
2688	(A80)	ADDRESS	4	$XEQDCT	First Request-Job-ID/internal job DCT
2692	(A84)	ADDRESS	4	$NETLDCT	First network xmitter/ receiver DCT
2696	(A88)	ADDRESS	4	$NETDCTS	FIRST FREE NETWORK DCT GROUP ADDR, GROUP CHAIN PTR = DCTDCB, IN-GROUP CHAIN = MDCTDCT
2700	(A8C)	ADDRESS	4	$RMTDCTS	RMT RDR/PRPU DCTS, DCTCHAIN CONNCTS ALL (R1 RDRS/PRTS/PUNS, R2, ETC), IN-RMT VIA RATRDCT/MDCTDCT
2704	(A90)	ADDRESS	4	$OLDDCTS	Chain of unused DCTs that are eligible for reuse (these are not in any other chain of DCTs)
2708	(A94)	ADDRESS	4	$OFFDCT	FIRST OFFLOAD DCT ADDRESS, TRANSMITTERS/RECEIVERS ARE CHAINED OFF THESE DCTS WITH XDCTDCT
2712	(A98)	ADDRESS	4	$OJRDCT	FIRST OFF.JR DCT ADDRESS
2716	(A9C)	ADDRESS	4	$OSRDCT	FIRST OFF.SR DCT ADDRESS
2720	(AA0)	ADDRESS	4	$OJTDCT	FIRST OFF.JT DCT ADDRESS
2724	(AA4)	ADDRESS	4	$OSTDCT	FIRST OFF.ST DCT ADDRESS

Comment

Pointers to active (not drained) DCTs.
Pointers are pairs, heads and tails. Queue is FIFO

End of Comment

2728	(AA8)	ADDRESS	4	$NJEADCT (2)	Network SYSOUT xmitter DCTs
2736	(AB0)	ADDRESS	4	$OFFADCT (2)	Spl offload xmitter DCTs
2744	(AB8)	ADDRESS	4	$LCLADCT (2)	Local printer/punch DCTs

Comment

DCT COUNT FIELDS FOR DEVICES THAT DO NOT CORRESPOND WITH
PROCESSORS (PCES) ON A ONE-FOR-ONE BASIS.

End of Comment

2752	(AC0)	SIGNED	2	$NUMLNES	NUMBER OF NJE/RJE LINES
2754	(AC2)	SIGNED	2	$NUMMLNE	NUMBER OF MAS LINES
2756	(AC4)	SIGNED	2	$NETLNES	NUMBER OF NETWORK LINES
2758	(AC6)	SIGNED	2	$NUMLOGS	NUMBER OF LOGON DCTS
2760	(AC8)	SIGNED	2	$NUMSRVS	NUMBER OF SERVER DCTS
2762	(ACA)	SIGNED	2	$NUMOFFS	NUMBER OF OFFLOAD DEVICE DCTS
2764	(ACC)	SIGNED	2		Reserved
2766	(ACE)	ADDRESS	4	$NUMLDEV (0)	Sub-device counts
2766	(ACE)	ADDRESS	1	$NUMNJT	JOB XMITTERS PER NETLNE
2767	(ACF)	ADDRESS	1	$NUMNJR	JOB RECEIVERS PER NETLNE
2768	(AD0)	ADDRESS	1	$NUMNST	SYSOUT XMITTERS PER NETLNE
2769	(AD1)	ADDRESS	1	$NUMNSR	SYSOUT RECEIVERS PER NETLNE
2770	(AD2)	BITSTRING	2		Reserved

Comment

THE HASP PROCESSOR CONTROL ELEMENT (PCE) CHAIN POINTERS AND
COUNT FIELDS. EACH SUBSECTION IS MAPPED USING THE OFFSETS
PROVIDED BELOW. THE PCE TABLE ($PCETAB) ENTRIES IN HASPTABS
CONTAIN HCT OFFSETS TO THESE FIELDS.
EACH PCE CHAIN POINTER POINTS TO THE FIRST PCE OF THAT PCE
TYPE IN THE HASP PCE CHAIN, OR IS ZERO TO INDICATE NO PCES.
EACH PAIR OF PCE COUNTS REPRESENTS THE NUMBER OF PCES OF
THAT TYPE THAT IS 'DEFINED', E.G. THE NUMBER OF DEVICES
(DCTS) DEFINED, AND THE NUMBER FOR WHICH PCES ARE CURRENTLY
EXISTING, RESPECTIVELY.
THE FIRST SETS OF FIELDS MUST BE TOGETHER BECAUSE OF THE
$HCCT MAPPING AND IT'S USE BY $$POST.

End of Comment

2770	(AD2)	X'8'	0	$PCEHCTE	"8" PROCESSOR HCT ENTRY LENGTH

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
2770	(AD2)	X'0'	0	$PCEHCTP	"0,4" PCE POINTER
2770	(AD2)	X'4'	0	$PCEHCTC	"4,4" PROCESSOR COUNTS, WITH FOLLOWING SUBMAPPING OF FIELDS
2770	(AD2)	X'0'	0	$PCEHCTD	"0,2" DEFINED PROCESSOR COUNT
2770	(AD2)	X'2'	0	$PCEHCTA	"2,2" ALLOCATED PROCESSOR COUNT

Comment

SPECIAL PROCESSORS, MAPPING MUST MATCH CCTPCEPE ORDER

End of Comment

2772	(AD4)	SIGNED	4	$POSTELS (0)	START OF PCE ELEMENTS
2772	(AD4)	ADDRESS	4	$COMMPCE	COMMAND PROCESSOR
2776	(AD8)	ADDRESS	2	$NUMCOMM	
2780	(ADC)	ADDRESS	4	$EXECPCE	EXECUTION PROCESSOR
2784	(AE0)	SIGNED	2	$NUMEXEC	
2788	(AE4)	ADDRESS	4	$ASYNPCE	ASYNC I/O PROCESSOR
2792	(AE8)	SIGNED	2	$NUMASYN	
2796	(AEC)	ADDRESS	4	$XTIMPCE	TIME EXCESSION PROCESSOR
2800	(AF0)	SIGNED	2	$NUMXTIM	
2804	(AF4)	ADDRESS	4	$TIMEPCE	STIMER/TTIMER PROCESSOR
2808	(AF8)	SIGNED	2	$NUMTIMR	
2812	(AFC)	ADDRESS	4	$TRCPCE	EVENT TRACE LOG PROCESSOR
2816	(B00)	SIGNED	2	$NUMEVTL	
2820	(B04)	ADDRESS	4	$SPOLPCE	SPOOL MANAGER PROCESSOR
2824	(B08)	SIGNED	2	$NUMSPOL	
2828	(B0C)	ADDRESS	4	$MLLMPCE	LINE MANAGER PROCESSOR
2832	(B10)	SIGNED	2	$NUMMLLM	
2836	(B14)	ADDRESS	4	$SOMPCE	SPOOL OFFLOAD PROCESSOR
2840	(B18)	SIGNED	2	$NUMSOM	
2844	(B1C)	ADDRESS	4	$CKPTPCE	CHECKPOINT PROCESSOR
2848	(B20)	SIGNED	2	$NUMCKPT	
2852	(B24)	ADDRESS	4	$MCONPCE	REMOTE CONSOLE PROCESSOR
2856	(B28)	SIGNED	2	$NUMMCON	
2860	(B2C)	ADDRESS	4	$SFSPCE	SCHEDULER FACILITY SRV PCE
2864	(B30)	SIGNED	2	$NUMSFS	
2868	(B34)	ADDRESS	4	$ENFPCE	ENF LISTEN Processor
2872	(B38)	SIGNED	2	$NUMENF	
2876	(B3C)	ADDRESS	4	$JQRPCE	JQE Request Processor
2880	(B40)	SIGNED	2	$NUMJQR	
2884	(B44)	ADDRESS	4	$MISCPCE	Miscellaneous processor
2888	(B48)	SIGNED	2	$NUMMISC	

Comment

END OF COMMON HCCT MAPPING

End of Comment

2892	(B4C)	ADDRESS	4	$RDRPCE	LOCAL READERS
2896	(B50)	SIGNED	2	$NUMRDRS	
2900	(B54)	ADDRESS	4	$IRCPCE	Internal reader cleanup
2904	(B58)	SIGNED	2	$NUMIRC	
2908	(B5C)	ADDRESS	4	$TPRDPCE	RJE READERS
2912	(B60)	SIGNED	2	$NUMTPRD	
2916	(B64)	ADDRESS	4	$JCLPCE	CONVERSION PROCESSOR
2920	(B68)	SIGNED	2	$NUMCNVT	
2924	(B6C)	ADDRESS	4	$PSOPCE	PSO PROCESSORS
2928	(B70)	SIGNED	2	$NUMPSO	
2932	(B74)	ADDRESS	4	$OUTPCE	OUTPUT PROCESSOR
2936	(B78)	SIGNED	2	$NUMOUT	
2940	(B7C)	ADDRESS	4	$PRTPCE	LOCAL PRINTERS
2944	(B80)	SIGNED	2	$NUMPRTS	
2948	(B84)	ADDRESS	4	$TPPRPCE	RJE PRINTERS
2952	(B88)	SIGNED	2	$NUMTPPR	

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
2956	(B8C)	ADDRESS	4	$PUNPCE	LOCAL PUNCHES
2960	(B90)	SIGNED	2	$NUMPUNS	
2964	(B94)	ADDRESS	4	$TPPUPCE	RJE PUNCHES
2968	(B98)	SIGNED	2	$NUMTPPU	
2972	(B9C)	ADDRESS	4	$PURGPCE	PURGE PROCESSORS
2976	(BA0)	SIGNED	2	$NUMPURG	
2980	(BA4)	ADDRESS	4	$TIPSPCE	TIPS PROCESSOR
2984	(BA8)	SIGNED	2	$NUMTIPS	
2988	(BAC)	ADDRESS	4	$PRTYPCE	PRIORITY AGING PROCESSOR
2992	(BB0)	SIGNED	2	$NUMPRTY	
2996	(BB4)	ADDRESS	4	$PRYOPCE	OUTPUT PRIO AGING PROCESSOR
3000	(BB8)	SIGNED	2	$NUMPRYO	
3004	(BBC)	ADDRESS	4	$WARMPCE	WARM START PROCESSORS
3008	(BC0)	SIGNED	2	$NUMWARM	
3008	(BC0)	X'4'	0	$WARMCNT	"4" Number of $E SYS warmstart PCEs after init complete
3012	(BC4)	ADDRESS	4	$NJTPCE	NJE JOB TRANSMITTERS
3016	(BC8)	SIGNED	2	$NUMNJTS	
3020	(BCC)	ADDRESS	4	$OJTPCE	OFFLOAD JOB TRANSMITTERS
3024	(BD0)	SIGNED	2	$NUMOJTS	
3028	(BD4)	ADDRESS	4	$NJRPCE	NJE JOB RECEIVERS
3032	(BD8)	SIGNED	2	$NUMNJRS	
3036	(BDC)	ADDRESS	4	$OJRPCE	OFFLOAD JOB RECEIVERS
3040	(BE0)	SIGNED	2	$NUMOJRS	
3044	(BE4)	ADDRESS	4	$NSTPCE	NJE SYSOUT TRANSMITTERS
3048	(BE8)	SIGNED	2	$NUMNSTS	
3052	(BEC)	ADDRESS	4	$OSTPCE	OFFLOAD SYSOUT TRANSMITTERS
3056	(BF0)	SIGNED	2	$NUMOSTS	
3060	(BF4)	ADDRESS	4	$NSRPCE	NJE SYSOUT RECEIVERS
3064	(BF8)	SIGNED	2	$NUMNSRS	
3068	(BFC)	ADDRESS	4	$OSRPCE	OFFLOAD SYSOUT RECEIVERS
3072	(C00)	SIGNED	2	$NUMOSRS	
3076	(C04)	ADDRESS	4	$NPMPCE	NETWORK PATH MANAGER
3080	(C08)	SIGNED	2	$NUMNPM	
3084	(C0C)	ADDRESS	4	$NRMPCE	NETWORK RESOURCE MONITOR
3088	(C10)	SIGNED	2	$NUMNRM	
3092	(C14)	ADDRESS	4	$NRRPCE	NJE ROUTE RECEIVER
3096	(C18)	SIGNED	2	$NUMNRR	
3100	(C1C)	ADDRESS	4	$NRTPCE	NJR ROUTE TRANSMITTER
3104	(C20)	SIGNED	2	$NUMNRT	
3108	(C24)	ADDRESS	4	$RESMPCE	RESOURCE MANAGER
3112	(C28)	SIGNED	2	$NUMRESM	
3116	(C2C)	ADDRESS	4	$STACPCE	STATUS/CANCEL PROCESSOR
3120	(C30)	SIGNED	2	$NUMSTAC	
3124	(C34)	ADDRESS	4	$SPINPCE	SPIN PROCESSOR
3128	(C38)	SIGNED	2	$NUMSPIN	
3132	(C3C)	ADDRESS	4	$FCLPCE	FSS CLEANUP ON EOM PCES
3136	(C40)	SIGNED	2	$NUMFCL	
3140	(C44)	ADDRESS	4	$JCMDPCE	Job command processor
3144	(C48)	SIGNED	2	$NUMJCMD	
3148	(C4C)	ADDRESS	4	$XCFPCE	COUPLING PROCESSOR
3152	(C50)	SIGNED	2	$NUMXCF	
3156	(C54)	ADDRESS	4	$XCMPCE	XCF Command processor
3160	(C58)	SIGNED	2	$NUMXCM	
3164	(C5C)	ADDRESS	4	$ARMPCE	ARM SUPPORT PROCESSOR
3168	(C60)	SIGNED	2	$NUMARM	
3172	(C64)	ADDRESS	4	$SNFPCE	SPOOL Management Processor
3176	(C68)	SIGNED	2	$NUMSNF	
3180	(C6C)	ADDRESS	4	$SPIPCE	Sysout API Processor
3184	(C70)	SIGNED	2	$NUMSPI	
3188	(C74)	ADDRESS	4	$DILPCE	Do It Later Processor
3192	(C78)	SIGNED	2	$NUMDIL	
3196	(C7C)	ADDRESS	4	$ALIPCE	Acquire Lock & Initiate
3200	(C80)	SIGNED	2	$NUMALI	Cleanup Executor
3204	(C84)	ADDRESS	4	$EOMPCE	EOM Processor

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
3208	(C88)	SIGNED	2	$NUMEOM	
3212	(C8C)	ADDRESS	4	$DAWNPCE	Distributed Available Work
3216	(C90)	SIGNED	2	$NUMDAWN	Notification processor
3220	(C94)	ADDRESS	4	$CDCPCE	Cross-system Device
3224	(C98)	SIGNED	2	$NUMCDC	Communication processor
3224	(C98)	X'C94'	0	$POSTLST	"*-$PCEHCTE" ADDR OF LAST PCE ELEMENT
3228	(C9C)	BITSTRING	16	$RSV3 (0)	RESERVED FOR FUTURE IBM USE

Comment

HASP PROCESSOR CONTROL ELEMENT DISPATCHER FIELDS

End of Comment

3244	(CAC)	ADDRESS	4	$PCEORG	ADDRESS OF FIRST PCE
3248	(CB0)	ADDRESS	4	$PCELAST	ADDRESS OF LAST PCE
3252	(CB4)	ADDRESS	4	$CURPCE	ADDRESS OF CURRENT PCE (IF ANY)
3256	(CB8)	ADDRESS	4	$PCEPSTC	Non-main task PCE post chn
3260	(CBC)	BITSTRING	4		Reserved
3264	(CC0)	DBL WORD	8	(0)	ALIGN DISPATCHER ECF FIELDS
3264	(CC0)	BITSTRING	8	$HASPECF	MASTER EVENT CONTROL FIELD, IF BIT IS 1 PCES WAITING FOR CORRESPONDING RESOURCE SHOULD BE POSTED
3272	(CC8)	BITSTRING	8	$MASECF	CROSS-SYSTEM EVENT CONTROL FIELD, RESOURCES $POSTED IN THIS ECF WILL BE PROPAGATED TO OTHER MEMBERS
3280	(CD0)	BITSTRING	1	$MLLMECF	LINE MGR ECF, IF BIT IS 1 LINE MGR SHOULD BE $POSTED IF SAME $HASPECF FLAG $POSTED AND $DRMLLM IS ON

Comment

PROCESSOR QUEUES
There are 2 queues of $XECBs in JES2. The first is the queue of $XECBs that have been $WAITed on. This is a double threaded queue with $XECBQF pointing to the first element and $XECBQL pointing to the last. This queue has both converted and unconverted $XECBs on it. The second queue is the queue of converted $XECBs that have been posted. $XECBs are added out of the MVS POST exit and removed by the main task. This is a single threaded stack pointed to by $EXTECBQ. Note: a $XECB can only be placed on this queue if it is currently being $WAITED on (it is on the $XECBQF). To ensure this a CDS is used in JES2's MVS POST exit. This requires the 3 pointers to be arranged with the POSTED queue chain fields be between the 2 waited on chain fields. Do not change the order of these fields.

End of Comment

3288	(CD8)	BITSTRING	0	$XECBQ (0)	Queue head of all $XECBs currently defined to JES2 dispatcher (serialized by JES2 main task)
3288	(CD8)	ADDRESS	4	$XECBQF	1st $XECB on chain
3292	(CDC)	ADDRESS	4	$EXTECBQ	QUEUE HEAD OF XECBS FOR PCES TO BE DISPATCHED.
3296	(CE0)	ADDRESS	4	$XECBQL	Last $XECB on chain
3300	(CE4)	ADDRESS	4	$DRQUES	DISPATCHER RESOURCE WAIT QUEUES, DOUBLE WORDS, FORWARD/BACKWARD POINTERS FOR CIRCULAR QUEUES
3304	(CE8)	SIGNED	4	$READY (0)	PCES READY FOR DISPATCH
3304	(CE8)	ADDRESS	4	$READYF	First $PCE on queue
3308	(CEC)	ADDRESS	4	$READYL	Last $PCE on queue

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
				Comment	
		All variable located between $SAVEBEG and $SAVEEND will be regularly checkpointed by JES2 and will be restored on any warm start of JES2.			
				End of Comment	
3312	(CF0)	DBL WORD	8	$SAVEBEG (0)	Beginning of save area
3312	(CF0)	CHARACTER	4	$MSTRID	MASTER RECORD EYECATCHER
3316	(CF4)	SIGNED	4	$MASTERL	CHECKPOINT MASTER RCD LEN
				Comment	
		New $MSTRVER values require a change to the $SCANTAB for $ACTIVATE/$D ACTIVATE. Also the equates for $MSTRVER must be defined for the $HCCT and $HFCT master record version fields			
				End of Comment	
3320	(CF8)	ADDRESS	1	$MSTRVER	Master record version
3320	(CF8)	X'9'	0	$MSTRHI	"$MSTRZ11" Most current ckpt version
3320	(CF8)	X'6'	0	$MSTRVRN	"6" Pre-OS 240 version #
3320	(CF8)	X'7'	0	$MSTRVR4	"7" OS 240 - OS 210 version #
3320	(CF8)	X'8'	0	$MSTRZ2	"8" z/OS 1.2 version #
3320	(CF8)	X'8'	0	$MSTRV12	"$MSTRZ2" Compatible equate
3320	(CF8)	X'9'	0	$MSTRZ11	"9" z/OS 1.11 version #
				Comment	
		---------- When the size of the checkpoint is updated, the count in $CKPTUPD is updated. If the count in the master record does not match the count on the local member ($CKPTLOC), then the checkpoint has been updated. ----------			
				End of Comment	
3321	(CF9)	BITSTRING	1	$CKPTUPD	CKPT update pending mask
3322	(CFA)	SIGNED	2	$MSTHCTL (0)	Length of CKPT HCT area
3324	(CFC)	ADDRESS	4	$CHLOGLN	LENGTH USED PART CH LOG
3328	(D00)	SIGNED	2	$CKRECN_Z2	Number of 4K CKPT pages (z2 mode only)
3330	(D02)	SIGNED	1	$WCHECK	CKPT WRITE-CHECK-RCD Value
3331	(D03)	BITSTRING	1	$CKPTFLG	CHECKPOINT DISPOSITION
3332	(D04)	BITSTRING	8	$CKPUSER	CHECKPOINTED USER FIELD
3340	(D0C)	BITSTRING	4	$NEWSJQE	OFFSET OF JES2-NEWS JQE OR ZERO
3344	(D10)	BITSTRING	4	$NEWSIOT	MTTR OF JES2-NEWS IOT, OR 0
3348	(D14)	BITSTRING	2	$NEWSCLV	Level of current NEWS (one matching IOT in $NEWSIOT)
3350	(D16)	BITSTRING	2	$NEWSLVL	Level number of news data set being created (same as $NEWSCVL if none being created)
3352	(D18)	ADDRESS	2	$QSELEN	Length of a QSE
3354	(D1A)	ADDRESS	2		Reserved (was $JQEFREC_R4)
3356	(D1C)	ADDRESS	4	$JQFREEI	First free JQE index
				Comment	
		$JQHEADI through $JQRBLDI (including the equate $JQRBDTY) must remain together. The scanning of the job queues depends on this.			
				End of Comment	
3360	(D20)	ADDRESS	4	$JQHEADI (47)	Heads of active job queue element (JQE) chains (JQE index)
3360	(D20)	X'4'	0	$JQHEADL	"4" LENGTH OF JOB QUE HEAD ENTRY

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
3360	(D20)	X'2F'	0	$JQTYPES	"(*-$JQHEADI)/$JQHEADL" NUMBER OF JOB QUEUES
3360	(D20)	X'90'	0	$JQCLSSZ	"36*$JQHEADL" NUMBER OF EXEC JOB CLASS QUEUES
3548	(DDC)	ADDRESS	4	$JQRBLDI	Job Rebuild Queue head (JQE index)
3548	(DDC)	X'30'	0	$JQRBDTY	"(*-$JQHEADI)/$JQHEADL" Number of job queues including rebuild queue
3552	(DE0)	SIGNED	2	$REBLDS	Total number of job/output rebuilds since last cold or all member warm start
3554	(DE2)	SIGNED	2	$KITNUM2	Num KITs in the checkpoint
3556	(DE4)	SIGNED	2	$JQELEN	TOTAL LENGTH OF A JQE
3558	(DE6)	SIGNED	2	$JQEMSKL	LENGTH-1 OF JQE SPLS USED MASK
3560	(DE8)	SIGNED	2	$JQEEXFR	OFFSET TO POSSIBLE FREE EXTENSION AREA IN MASTER RECORD
3562	(DEA)	ADDRESS	2	$MAXEXSZ	Maximum size of extension

Comment

$HASP355 and some $HASP050 resources have a
sysplex scope and need to be CKPTed.
Here we maintain the member id of the JES that
has issued the message for each resource. Also
the threshold for each resource is maintained
here. The time stamp for the HASP355 message
is saved for comparison within the sysplex.
Any new $HASP050 resources with a sysplex scope
must have a SYSID and threshold percent pair,
such as the ones below, added somewhere in the
checkpointed portion of the HCT. Also the list
of resources to be dealt with on a restart must be
updated in HASPIRDA.

End of Comment

3564	(DEC)	SIGNED	2	$RSCTABL (0)	Starting point of member ids and threshold values
3564	(DEC)	BITSTRING	1	$JQSYSID	SYSID for JQE message
3565	(DED)	ADDRESS	2	$JQEPRCT	JQE threshold percentage
3567	(DEF)	BITSTRING	1	$JOSYSID	SYSID for JOE message
3568	(DF0)	ADDRESS	2	$JOEPRCT	JOE threshold percentage
3570	(DF2)	BITSTRING	1	$JNSYSID	SYSID for JOB num message
3571	(DF3)	ADDRESS	2	$JNOPRCT	JOB NUM threshold percent
3573	(DF5)	BITSTRING	1	$TGSYSID	SYSID for TRK GRP message
3574	(DF6)	ADDRESS	2	$TGPRCT	TRK GRP threshold percent
3576	(DF8)	SIGNED	4	$SPFTIME	Time HASP355 message issued

Comment

$LASNIFF and $FASNIFF are used if $FLAG3 bit
$SPLLGDS is off. Otherwise $LASNIFL and $FASNIFL
are used.

End of Comment

3580	(DFC)	ADDRESS	4	$LASNIFF	Extent number, Extent TG offset and bit of last trackgroup examined by sniffer (HASPSNF)
3584	(E00)	BITSTRING	4	$RSOCLDP	RSO cleaned up for mem mask
3588	(E04)	ADDRESS	4	$FASNIFF	Extent number, Extent TG offset and bit of first trackgroup examined by sniffer in "fast" mode
3592	(E08)	SIGNED	4	$SCQJQE	OFFSET OF SHRD COMM QUEUE JQE
3596	(E0C)	BITSTRING	32	$SPLEXST	BIT MSK OF EXISTNG SPLS
3628	(E2C)	BITSTRING	32	$SPLSLCT	SPLS ABLE TO SELECT WRK
3660	(E4C)	BITSTRING	1	$SPLINAC	MASK OF INACTIVE SPOOLS

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
				Comment	
$TGALLOC = $TGTOTAL-$TGFREE The number of track groups in use for all active spool volumes. Note: track groups assigned to the BLOB are considered allocated for purposes of this count $TGTOTAL = Number of track groups on STATUS=ACTIVE spool volumes. $TGDEFND = Number of track groups associated with any spool volume. $TGFREE = Number of track groups available for allocation (on STATUS=ACTIVE spool volumes.) Note: track groups assigned to the BLOB are not considered free for purposes of this count $NUMTG = Initialization Statement number of track groups in the system (size of TGM).					
				End of Comment	
3692	(E6C)	ADDRESS	4	$TGALLOC	NUM OF AVAILABLE TGS ALLOCATED
3696	(E70)	ADDRESS	4	$TGTOTAL	TOTAL NUMBER OF AVAILABLE TGS
3700	(E74)	ADDRESS	4	$TGDEFND	NUMBER OF DEFINED TGS
3704	(E78)	ADDRESS	4	$TGFREE	FREE TG COUNT
3708	(E7C)	ADDRESS	2	$QSEMAX	Number of members possible
3710	(E7E)	ADDRESS	2	$QSENDEF	NUMBER OF DEFINED SYSTEMS
3712	(E80)	SIGNED	4	$CKRECS	Number of 4K CKPT pages (z11 mode only)
3716	(E84)	SIGNED	4	$DASWRKQ	OFFSET OF 1ST DAS ON DAS WORK Q
3720	(E88)	SIGNED	4	$DASTRKQ	OFFSET OF 1ST DAS REP. IN TGM
3724	(E8C)	SIGNED	4	$DATAKEY	MASTER PERIPHERAL DATA SET KEY
3728	(E90)	CHARACTER	4	$HASPID	CHECKPOINT RECORD IDENTIFICATION
3732	(E94)	CHARACTER	8	$NDENAME	Node name
				Comment	
The following 2 fields are used for $HASP050 processing					
				End of Comment	
3740	(E9C)	BITSTRING	1	$BTSYSID	SYSID for BERT message
3741	(E9D)	ADDRESS	2	$BRTPRCT	BERT threshold percentage
3743	(E9F)	BITSTRING	1	$FNCCNT	Number of volumes to fence a job to
3744	(EA0)	SIGNED	4	$ZAPTIME	Time last ZAPJOB executed
3748	(EA4)	ADDRESS	4		Reserved for future use
3752	(EA8)	BITSTRING	8		Reserved for future use
				Comment	
---------- The next two fields represent the highest and lowest VRM (Version, Release, Modification) JES2s active in the JESplex. See the $JES2xxx equates in $HASPEQU. ----------					
				End of Comment	
3760	(EB0)	SIGNED	2	$MASVER (0)	Versions active in JESplex
3760	(EB0)	SIGNED	1	$HIGHVER (0)	Highest active JES2
3761	(EB1)	SIGNED	1	$LOWVER (0)	Lowest active JES2
3762	(EB2)	ADDRESS	2	$PRIRATE	PRIORITY AGING RATE
3764	(EB4)	ADDRESS	1	$PRIHIGH	JOB PRIORITY AGING UPPER
3765	(EB5)	ADDRESS	1	$PRILOW	AND LOWER LIMITS
3766	(EB6)	ADDRESS	2	$PRORATE	OUTPUT PRIORITY AGING RATE
3768	(EB8)	ADDRESS	2	$PRTYOHI	OUTPUT PRIORITY AGING UPPER
3770	(EBA)	ADDRESS	2	$PRTYOLO	AND LOWER LIMITS
3772	(EBC)	BITSTRING	1	$FLAG1	Checkpointed flag byte

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
		1...		$UNSPUN	"B'10000000'" UNPROC SPIN IOTS QUEUED
		.1..		$NONSHR	"B'01000000'" NON-SHARED SPOOLS ALLOWED
		..1.		$MASACTV	"B'00100000'" SPECIFIES MORE THAN ONE RUNNING SYSTEM FOR MAS AND IS SET EVERY CHECKPOINT CYCLE
		...1		$MVFENCE	"B'00010000'" SPOOL FENCING (MINIMUM NUMBER OF VOLUMES PER JOB) IN EFFECT
		.... 1...		$EXECDUP	"B'00001000'" Duplicate job checking is suppressed
		.... .1..		$CNVTWEE	"B'00000100'" Indicates the converter should wait for EXCL ENQs

Comment

EQU B'00000010' Reserved, (was $BRDCST_R2)

End of Comment

		1		$PRUNSP	"B'00000001'" PROCESSING UNSPUN OUTPUT
3773	(EBD)	BITSTRING	1	$FLAG2 (0)	2nd ckptpointed flag byte
		1...		$WTBSYJO	"B'10000000'" AN OUTPUT PROCESSOR IS WAITING AVAILABILITY OF A BUSY JOE
		.1..		$CF1VOL	"B'01000000'" MAS knows CKPT1 is volatile
		..1.		$CF2VOL	"B'00100000'" MAS knows CKPT2 is volatile
		...1		$CKOPVER	"B'00010000'" CKPTDEF OPVERIFY=YES

Comment

The format of MTTRs is controled by the following
4 bits. $SPLADRA and $SPLADRS control whether
relative or absolute track addressing is used.
$SPLLGDS and $SPLMTTT control the number of bits
assigned to the tracks. These bits are only used
when the volume is started.
Track addresses (MTTRs) come in 3 formats:
- absolute track addressing (traditional format)
  TT is a 16 bit absolute track address.
- Relative track addressing (default)
  TT is a 16 bit relative track address.
- Large data set format. Track address format is
  MTTtr, tt is a 20 bit relative track address.

$ $ $ $
S S S S
P P P L
L L L P
A A L M
D D G T
R R D T
A S S T Meaning
0 0 0 0 Absolute track addressing (deprecated)
1 x 0 0 Relative track addressing (always)
0 1 0 0 Relative track addressing (ifneeded)
1 x 1 0 Large data set support is active and
20 bit TTs used if SPOOL data set being
started has >64K tracks.
1 x 1 1 Large data set support is active and
20 bit TTs used for all new SPOOL volumes
$SPLADRA and $SPLADRS are no longer used as of
z/OS 1.7. Relative track addressing is always used
if the volume is started by 1.7.

End of Comment

		.... 1...		$SPLADRA	"B'00001000'" Always use relative addr.
		.... .1..		$SPLADRS	"B'00000100'" Use relative addr as needed

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
				Comment	
		Sniff faster flag. If on, perform sniffing as quickly as possible until a "house call" has been made for all track groups. After all track groups have been sniffed, revert to one house call / week. The MOOB (Extent, offset, bit) where "GCRATE=FAST" began is kept in $FASNIFF.			
				End of Comment	
		.... ..1.		$SNIFAST	"B'00000010'" In "GCRATE=FAST" mode
		1		$SNFNSYM	"B'00000001'" Suppress SYMREC generation during sniffer
				Comment	
		$CKPCTPW is incremented after a checkpoint write (intermediate write or final write). It's used to determine when a primary write is needed.			
				End of Comment	
3774	(EBE)	SIGNED	2	$CKPCTPW	Count of checkpoint writes
3776	(EC0)	SIGNED	4	$OPSPJNO	LAST JOB IN JIX EXAMINED FOR UNSPUN WORK
3780	(EC4)	SIGNED	2	$CLRECN	NUMBER OF 4K RECS IN CH LG
				Comment	
		COLD START INFORMATION - VERSION, SYSID, DATE, TIME			
				End of Comment	
3782	(EC6)	CHARACTER	5	$COLDJSN	NAME OF JOB ENTRY SUBSYSTEM
3787	(ECB)	CHARACTER	8	$COLDVSN	VERSION OF JES2
3795	(ED3)	CHARACTER	11	$COLDJSP	
3806	(EDE)	CHARACTER	4	$COLDSID	SMF SYSID FOLLOWED BY A SPACE
3811	(EE3)	BITSTRING	1	$FLAG5	5th checkpointed flag
		1...		$ZEROTGS	"B'10000000'" Zero just-freed SPOOL TGs
		.1..		$LDSRENA	"B'01000000'" Large dataset range is enabled.
		..1.		$CNVSCHE	"B'00100000'" Use sheduline environ affintiy for conversion
3812	(EE4)	ADDRESS	4		Reserved for future use
3816	(EE8)	SIGNED	4	$COLDDTM (2)	DATE AND TIME STAMP IN 'TIME BIN' FORMAT
3824	(EF0)	SIGNED	4	$LASTCLD	STCK time of cold start
3828	(EF4)	SIGNED	4	$LASTSPV	STCK time of last track group map rebuild
3832	(EF8)	CHARACTER	4	$SPVMNAM	Member name of system doing spool validation
3836	(EFC)	SIGNED	4	$LASTAMW	STCK time of last all member warm start
3840	(F00)	CHARACTER	4	$AMWMNAM	Member name of system doing all member warm start
				Comment	
		THE FOLLOWING FIELDS ARE USED FOR CHECKPOINT VERIFICATION DURING A WARM START OF JES2			
				End of Comment	
3844	(F04)	ADDRESS	2	$NUMNODE	MAXIMUM NUMBER OF NODES
3846	(F06)	CHARACTER	5	$SPOOL	SPOOL VOLUME PREFIX
3851	(F0B)	SIGNED	1	$SPLLEN	NUMBER-1 OF CHARS OF $SPOOL
3852	(F0C)	SIGNED	2	$SPOLNUM	NUMBER OF SPOOL VOLUMES
3852	(F0C)	X'F0D'	0	$SPLNUMB	"$SPOLNUM+1,1" ALLOWED (ONE BYTE VERSION)
3854	(F0E)	ADDRESS	2	$BUFSIZE	HASP BUFFER SIZE
3856	(F10)	ADDRESS	2		Reserved (was $MAXJOBS_R4)
3858	(F12)	CHARACTER	1	$BADJNC	Char for bad jobname

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
3859	(F13)	BITSTRING	1	$FLAG3	3rd ckptpointed flag byte
		1...		$SPLLGDS	"B'10000000'" Large SPOOL DS support active
		.1..		$SPLMTTT	"B'01000000'" Always use new MQTR fmt
		..1.		$SPLLGUS	"B'00100000'" Large data sets was active at least once
		Comment			
		COMPATIBILITY Compatability -- Remove these bits when $ACTIVATE LEVEL=Z2 no longer supported The following 2 fields indicate the environment of the JESplex. $RCY3HET $RCY3HOM RESULT 0 1 OK, verify DASes 1 0 Skip DAS verification now heterogeneous			
		End of Comment			
		...1		$RCY3HET	"B'00010000'" JESplex heterogeneous
		.... 1...		$RCY3HOM	"B'00001000'" JESplex homogeneous
		.... .1..		$DUPZ8	"B'00000100'" Duplicate job management is via DJB (z8 format)
		Comment			
		End compat EQU B'00000010' Reserved (used in z8 thru			
		End of Comment			
		1		$SNFZ7FS	"B'00000001'" Z7 or later fast sniff mode
3860	(F14)	ADDRESS	4	$NUMJOES	NUMBER OF JOB OUTPUT ELEMENTS
3864	(F18)	ADDRESS	2	$NODEID	NUMBER OF THIS NODE
3866	(F1A)	ADDRESS	1	$RECINCR	RECORD ALTERNATION PARAMETER
3867	(F1B)	ADDRESS	1	$TCELSIZ	NBR OF BUFFERS IN A TRAKCELL
3868	(F1C)	ADDRESS	4	$NUMTG	TOTAL NUMBER OF TRACK GROUPS
3872	(F20)	BITSTRING	1	$DESTFLG	USERDEST flag
		1...		$DESTNNN	"B'10000000'" Nnnnn is a userid
		.1..		$DESTRNN	"B'01000000'" Rnnnn is a userid
		..1.		$DESTRMN	"B'00100000'" RMnnnn is a userid
		...1		$DESTRMT	"B'00010000'" RMTnnnn is a userid
		.... 1...		$DESTUNN	"B'00001000'" Unnnn is a userid
		.... .1..		$DESTDLC	"B'00000100'" Display 'LOCAL.' if userid (only set in HCCT)
		.... ..1.		$DESTNNR	"B'00000010'" DEST=userid is not allowed; Must use nodename.userid
3873	(F21)	SIGNED	1	$JIXMPCN	Count of job numbers freed since last JIX map update
3874	(F22)	ADDRESS	2	$JNTSIZE	JNT size (JIX prefix)
3876	(F24)	SIGNED	4	$BERTNUM	Number of BERTs
3880	(F28)		4	$SPLBYTS	Bytes of spool (FP value)
3884	(F2C)	CHARACTER	8	$XCFGPNM	XCF Group Name
3892	(F34)	SIGNED	4	$JQEFRCN	Count of free JQEs
3896	(F38)	ADDRESS	4	$JQENUM	Max number of jobs in the system
3900	(F3C)	SIGNED	2		Reserved for future use
3902	(F3E)	BITSTRING	1	$FLAG4	4th ckptpointed flag byte
		1...		$BERT255	"B'10000000'" Free BERTs < 255
		Comment			
		Remove this bit when z10 no longer supported			
		End of Comment			
		.1..		$A24852	"B'01000000'" OA24852 applied

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
				Comment	
		Bits must be defined with 16 "left" of MIN			
				End of Comment	
		..1.		$BERT16	"B'00100000'" Free BERTs <= 16
		...1		$BERTMIN	"B'00010000'" Free BERTs <= $BERTHRS
		.... 1...		$BERTESH	"B'00001000'" Extreme BERT shortage detected - Q errors expected
		.... .1..		$SPLEASS	"B'00000100'" Extended addressing space (EAS) has been activated at least once. Once set - down level MAS members (<12) may not join. Once set - never unset.
		.... ..1.		$SPLEASA	"B'00000010'" JES2 data set allocation (DISP=old/new) may reside in EAV cyl managed-(EAS) storage. This pertains to spool and checkpoint data sets.
		1		$MCJCLAS	"B'00000001'" At least 1 multi character batch jobclass or job class group exists
3903	(F3F)	BITSTRING	1	$DASEXSZ	DAS extension size
				Comment	
		The following 2 fields are used if $FLAG3 bit $SPLLGDS is on. Otherwise $LASNIFF and $FASNIFF are used.			
				End of Comment	
3904	(F40)	BITSTRING	6	$LASNIFL	Extent number, Extent TG offset and bit of last trackgroup examined by sniffer (HASPSNF)
				Comment	
		---------- The following field represents the MOOB (extent offset bit) of the first track group sniffed while in "GCRATE=FAST" mode. See $SNIFAST flag bit. A zero value in this field means that no "GCRATE= FAST" has ever been done since the last cold start. This field is meaningless unless the $SNIFAST flag is set. This field is set to the current $LASNIFF as soon as the $SNIFAST bit is set. The high order value of STCK is stored in $FASNIFF when "GCRATE=FAST" ends for diagnostic purposes. NOTE GCRATE - Garbage Collection RATE (internally sniff fast). ----------				
				End of Comment	
3910	(F46)	BITSTRING	6	$FASNIFL	Extent number, Extent TG offset and bit of first trackgroup examined by sniffer in "fast" mode
3916	(F4C)	SIGNED	4	$TIPSJBN	TIPS Job number
3920	(F50)	DBL WORD	8	$CLASDUP (0)	Classes with CAT3DUOK on
3928	(F58)	SIGNED	2	$JQXSIZE	JQX array entry size.
3930	(F5A)	SIGNED	2	$RCDSIZE	RECY array entry size.
3932	(F5C)	SIGNED	2	$JOXSIZE	JOX array entry size.
3934	(F5E)	BITSTRING	1	$JXFLAG	JOE index control flags
		1...		$JXFCRT	"B'10000000'" JOE index was created
		.1..		$JXFACT	"B'01000000'" JOE index is active (up to date)
3935	(F5F)	BITSTRING	5		Reserved for future use
3940	(F64)	SIGNED	4	$SAVEEND (0)	End of CKPTed HCT
3940	(F64)	X'274'	0	$SAVELEN	"$SAVEEND-$SAVEBEG" Length of checkpointed HCT

$HCT Cross Reference

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
			Comment		
		HASP R11-ADDRESSABLE PATCH SPACE. CODE IS GENERATED AS S-TYPE ADDRESS CONSTANTS WHEN DSECT=NO. VER/REP LOGIC SHOULD ASSUME S( ) HALFWORDS, NOT ZEROS, IN THIS AREA.			
			End of Comment		
3940	(F64)	X'9C'	0	$HCTPSZ	"4096-(*-HCT)"
3940	(F64)	BITSTRING	1	$PATCHSP (0)	DEFINE PATCH SPACE
3940	(F64)	X'1000'	0	$HCTLEN	"*-HCT" LENGTH OF ENTIRE HCT

$HCT Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
$#INDEXA	234		$BRTFREC	A50	
$ABDNBUF	47E	0	$BRTPRCT	E9D	
$ACCMBAD	A38		$BSCCHEQ	328	
$ACTABLE	160		$BSCFREC	432	0
$ACTIGN	3E5	80	$BSCLGRQ	438	0
$ACTIVE	9DC		$BSCLIM	430	0
$ACTREQ	3E5	40	$BSCNWBF	436	0
$ACTRNUM	E8		$BSCPRCT	42E	50
$ACTVFSS	9E0		$BSCWBF	434	0
$ADDSYNS	3E4	80	$BSPGCT	518	
$AFFINTY	9C5	0	$BSPNTE	519	
$AFFLEN	9BC		$BSPSIZ	51A	1C
$AFFLENH	9BC	9BE	$BTSYSID	E9C	0
$ALIPCE	C7C		$BUFLENG	9D8	0
$ALLFFS	750	FFFFFFFF	$BUFLGRQ	446	0
$AMWMNAM	F00	40404040	$BUFLIM	43E	0
$APPLTBL	164		$BUFNWBF	444	0
$AQSE	168		$BUFPRCT	43C	50
$ARMPCE	C5C		$BUFSIZE	F0E	F98
$ARMVR	62C	8	$BUFWBF	442	0
$ASYNCQ	16C		$BUFXLIM	44C	0
$ASYNPCE	AE4		$BUSYQUE	17C	
$ASYPCIQ	170		$BUSYRQ	180	
$AUTOINV	3D4		$CALCUR	188	
$AUTONJE	9C1	10	$CALONE	184	
$AUTORST	9C1	8	$CATCACH	6C4	
$A24852	F3E	40	$CATMAX	9C0	4
$BADJNC	F12	6F	$CATQUE	18C	
$BADTRTG	324		$CCOMCH	51D	5B
$BERTESH	F3E	8	$CCOMCHR	4E9	5B
$BERTHRS	637	0	$CDCPCE	C94	
$BERTMIN	F3E	10	$CF1VOL	EBD	40
$BERTNNM	9C1	2	$CF2VOL	EBD	20
$BERTNUM	F24	0	$CHLOG	190	
$BERTPTR	174		$CHLOGLN	CFC	
$BERT16	F3E	20	$CHLOGSZ	9FC	0
$BERT255	F3E	80	$CIPERAS	3DE	
$BFSZBSC	50E	208	$CKBCRNT	19C	
$BFSZPP	512	0	$CKC	1A0	
$BFSZSNA	510	190	$CKCSIZE	4D0	0
$BFXLGRQ	454	0	$CKG1	194	
$BFXNWBF	452	0	$CKG2	198	
$BFXPRCT	44A	50	$CKLEVNM	398	39C
$BFXWBF	450	0	$CKOLDLV	3A0	
$BITSONA	178		$CKOPVER	EBD	10
$BLANKS	6E8	40404040	$CKPCTPW	EBE	0
$BRTCLN	9C1	80	$CKPTAR0	670	694
$BRTDTYP	A2D	0	$CKPTDPS	630	10

Name	Hex Offset	Hex Value
$CKPTDPY	630	8
$CKPTDWN	630	80
$CKPTFG1	630	39
$CKPTFG2	631	0
$CKPTFG3	632	0
$CKPTFG4	633	0
$CKPTFG5	636	0
$CKPTFLG	D03	0
$CKPTIO	1A4	
$CKPTLDP	630	1
$CKPTLEV	398	0
$CKPTLOC	635	0
$CKPTLVP	398	398
$CKPTMSG	630	40
$CKPTOAC	988	
$CKPTONX	98C	
$CKPTPCE	B1C	
$CKPTPRI	630	2
$CKPTPTR	1A8	
$CKPTQHD	1B0	
$CKPTSAV	670	670
$CKPTSR0	670	680
$CKPTSR1	670	684
$CKPTTEK	630	4
$CKPTTMD	630	20
$CKPTUPD	CF9	0
$CKPUSER	D04	0
$CKRECN_Z2	D00	0
$CKRECS	E80	0
$CKW	1B4	
$CK1DFLT	630	39
$CK2DIAG	631	8
$CK2FMT	631	10
$CK2INIT	631	1
$CK2LOCK	631	80
$CK2LOKD	631	4
$CK2PRIM	631	2
$CK2READ	631	40
$CK2WRT	631	20
$CK3ACTV	632	1
$CK3BYLK	632	40
$CK3CHLG	632	20
$CK3KRD1	632	80
$CK3NMEM	632	2
$CK3RDCP	632	4
$CK3WTCP	632	8
$CK34KPG	632	10
$CK4CFAB	633	1
$CK4CKPC	633	2
$CK4ECOP	633	80
$CK4ECSA	633	40
$CK4HRSV	633	4
$CK4OPRQ	633	8
$CK4OPVN	633	10
$CK4OPVY	633	20
$CK5ACT	636	40
$CK5QSUS	636	80
$CLASDUP	F50	
$CLCB	1AC	
$CLOCK	7C0	0
$CLRECN	EC4	0
$CMBFREC	48E	0
$CMBLIM	488	0
$CMBPRCT	486	
$CMDPRCT	482	
$CNVSCHE	EE3	20
$CNVTWEE	EBC	4
$COLDDTM	EE8	0
$COLDJSN	EC6	D1C5E2F2
$COLDJSP	ED3	40C3D6D3
$COLDSID	EDE	
$COLDVSN	ECB	40404040
$COMEXTN	1B8	
$COMMABT	62E	20
$COMMDWN	62E	80
$COMMFG1	62E	0
$COMMPCE	AD4	
$COMMQTP	1C0	
$COMMQUE	1BC	
$COMMWAT	62E	40
$CPTMAP	1D0	
$CPTPOOL	1D4	
$CREATE	3E3	1
$CTBADA	538	
$CTLB	1D8	
$CTLBFFS	7AC	FFFFFFFF
$CTLBIO	1DC	
$CTLBLEN	9BC	4
$CTLBLNH	9C2	4
$CTLBX	1E0	
$CURPCE	CB4	
$CYLMAPL	9B4	
$DADEBAD	1E4	
$DASAREA	1E8	
$DASEXSZ	F3F	0
$DASEXT	1F0	
$DASFRST	1EC	
$DASTRKQ	E88	0
$DASWRKQ	E84	0
$DATAKEY	E8C	0
$DAWNPCE	C8C	
$DBGALL	3EF	FF
$DCTPOL2	A58	
$DCTPOOL	A54	
$DDSEGLM	3C8	
$DEBGOPS	3EE	80
$DEBGOP2	3EF	
$DELAYTM	3A8	
$DESTDLC	F20	4
$DESTFLG	F20	0
$DESTNNN	F20	80
$DESTNNR	F20	2
$DESTRMN	F20	20
$DESTRMT	F20	10
$DESTRNN	F20	40
$DESTUNN	F20	8
$DIAGTBL	104	
$DILHEAD	E0	
$DILPCE	C74	
$DILTAIL	E4	
$DISPACE	4A2	A
$DISPCNT	4A0	0
$DISPSAV	850	
$DMNDSET	3E3	4
$DOMIDN	4E0	2
$DOMID1	4DC	
$DOMQUE	1F4	
$DOMQUEA	1F8	
$DOUBLE	698	0
$DPCEACT	590	

Name	Hex Offset	Hex Value
$DPCEALC	58A	
$DPCEDEF	588	
$DPCEDSF	594	C
$DPCEDSM	594	4
$DPCEDSN	594	8
$DPCEDSO	594	14
$DPCEDSX	594	18
$DPCEDSY	594	10
$DPCEEND	58C	
$DPCEFLG	594	
$DPCELEN	594	D
$DPCETMD	594	20
$DPCETMX	594	C0
$DPCETOF	594	40
$DPCETON	594	80
$DPCETSF	594	60
$DPCETSO	594	A0
$DRQUES	CE4	
$DSPXITA	7C	
$DSTRSTK	158	
$DTEALOC	11C	
$DTEASST	128	
$DTECKCF	144	
$DTECKVR	140	
$DTECNVT	138	
$DTEEOM	14C	
$DTEGSUB	148	
$DTEIMAG	118	
$DTELAST	114	
$DTELIST	5DE	5A0
$DTELIS2	5B5	5A0
$DTELSTF	5A0	
$DTELST2	5A0	
$DTEMIG	124	
$DTEOFF	13C	
$DTEORG	110	
$DTESMF	12C	
$DTESPOL	120	
$DTEVTM	130	
$DTEWTO	134	
$DUPZ8	F13	4
$DWAHEAD	B8	
$DWATAIL	BC	
$DWORK	6A0	0
$DWORK2	6A8	0
$ECBEXTN	78	1800000
$ECKTRMJ	62C	1
$EMEMAFF	1FC	0
$ENFPCE	B34	
$EOMPCE	C84	
$ERDM497	4DC	
$ERDOMID	A34	
$ERRAFF	A04	
$ERRCODE	A14	0
$ERREOPT	A1C	
$ERRERPL	A00	
$ERRJQE	A18	
$ERRREGS	A08	
$ERRREG0	A08	A0C
$ERRTABA	200	
$ERRTRCA	9F4	
$ESTBYTE	3FC	
$ESTIME	420	
$ESTIM9L	420	4
$ESTLNCT	408	
$ESTLN9L	408	6
$ESTMX9L	3FC	6
$ESTPAGE	3F0	
$ESTPG9L	3F0	8
$ESTPN9L	414	8
$ESTPUN	414	
$ESTTCNT	3F0	5
$EST1	3F0	
$EXCPCT	A20	0
$EXCPEXA	8C	
$EXECDUP	EBC	8
$EXECDWN	62F	80
$EXECFG1	62F	0
$EXECPCE	ADC	
$EXECSPN	62F	40
$EXTECBQ	CDC	
$EZAADDR	204	
$FASNIFF	E04	
$FASNIFL	F46	0
$FCLPCE	C3C	
$FIXCHLG	208	
$FIXLIST	20C	
$FLAG1	EBC	0
$FLAG2	EBD	18
$FLAG3	F13	0
$FLAG4	F3E	0
$FLAG5	EE3	0
$FNCCNT	E9F	0
$FREEJOE	EC	
$FSSETIM	A24	
$F0	764	0
$F1	768	1
$F15	788	F
$F2	76C	2
$F255	78C	FF
$F3	770	3
$F4	774	4
$F4096	790	1000
$F5	778	5
$F6	77C	6
$F65535	794	FFFF
$F7	780	7
$F8	784	8
$GENSYS	5A0	0
$GENWORK	5A0	
$GENWRKL	62C	8C
$GETWKSF	670	674
$GETWKSV	670	0
$GETWKS1	670	67C
$GETWKS2	670	680
$GETWRKA	218	
$GTWKTAB	214	
$HASCB	21C	
$HASPDCB	220	
$HASPECB	74	
$HASPECF	CC0	0
$HASPID	E90	D1C5E2F2
$HASPMAP	64	
$HASPPRM	2C8	C8C1E2D7
$HASPRB	224	
$HASPTCB	228	
$HASP051	A44	0
$HCCT	31C	
$HCTLEN	F64	1000
$HCTPSZ	F64	9C

Name	Hex Offset	Hex Value
$HETOKEN	9F8	0
$HEXTRAN	798	6AC
$HFAM	22C	
$HIBITOF	75C	75C
$HIBITON	798	80000000
$HIGHVER	EB0	58
$HTDIST	51E	A
$H0	764	766
$H1	768	76A
$H2	76C	76E
$H255	78C	78E
$H3	770	76F
$H4	774	776
$H4096	790	792
$H5	778	77A
$H6	77C	77E
$H7	780	782
$H8	784	786
$ICEFREC	47A	0
$ICEFRZC	47C	0
$ICELIM	478	0
$ICELOST	230	
$ICEPRCT	476	50
$IMAGE	150	
$INIWARM	238	
$INTRDCB	62C	4
$IOTPDDB	9B0	
$IPCSLVL	61	
$IRCPCE	B54	
$JAXPTR	108	
$JCLPCE	B64	
$JCMDPCE	C44	
$JCOPYLM	51C	
$JESACCT	23C	
$JESSECL	24C	40404040
$JESTOKA	240	
$JESUSER	244	40404040
$JES2_LEVEL	354	
$JINITIP	9C0	40
$JIXMPCN	F21	0
$JNEW	254	
$JNOPRCT	DF3	
$JNSYSID	DF2	0
$JNTPTR	258	
$JNTSIZE	F22	
$JOBQBUF	25C	
$JOBQPTR	260	
$JOEPRCT	DF0	
$JOEWRKA	6C0	
$JOSYSID	DEF	0
$JOTABLE	264	
$JOTPOST	268	
$JOXPTR	274	
$JOXSIZE	F5C	0
$JQCLSSZ	D20	90
$JQEEXFR	DE8	0
$JQEEXT	26C	
$JQEFRCN	F34	0
$JQELEN	DE4	0
$JQEMSKL	DE6	3
$JQENUM	F38	
$JQEPRCT	DED	
$JQFREEI	D1C	
$JQHEADI	D20	
$JQHEADL	D20	4
$JQRBDTY	DDC	30
$JQRBLDI	DDC	
$JQRPCE	B3C	
$JQSYSID	DEC	0
$JQTYPES	D20	2F
$JQXPTR	270	
$JQXSIZE	F58	0
$JSPL	7B2	7B1
$JSPLL	7B1	
$JSPLV	7B2	D1C5E2E2
$JWEHAVT	27C	
$JWELTBL	278	
$JXFACT	F5E	40
$JXFCRT	F5E	80
$JXFLAG	F5E	0
$KITNUM	3AC	
$KITNUM2	DE2	0
$KITPTR	280	
$LASNIFF	DFC	
$LASNIFL	F40	0
$LASTAMW	EFC	0
$LASTCLD	EF0	0
$LASTSPV	EF4	0
$LBFREC	440	0
$LBXFREC	44E	0
$LCKPTR	284	
$LCLADCT	AB8	
$LDSRENA	EE3	40
$LEVEL	354	A961D6E2
$LINECT	3E6	
$LIRCT	52C	1
$LMTPBOT	70	
$LMT1	68	
$LMT1C	6C	
$LNEDCT	A70	
$LOCKOUT	3B0	3E8
$LOGNDCT	A78	
$LOWVER	EB1	58
$LSEPDBL	4CE	10
$LSEPFUL	4CE	20
$LSEPHAF	4CE	40
$LSEPNON	4CE	80
$LSPTR	288	
$MACVERS	60	F6
$MAILMSG	3E7	80
$MAINSTK	154	
$MASACTV	EBC	20
$MASECF	CC8	0
$MASPOST	9D6	0
$MASTER	28C	
$MASTERI	290	
$MASTERL	CF4	0
$MASVER	EB0	
$MAXCMCT	A23	
$MAXDBLE	75C	7FFFFFFF
$MAXDELT	3CC	78
$MAXDORM	3C4	1F4
$MAXEXSZ	DEA	4E20
$MAXFAIL	4C4	0
$MAXFULL	75C	75C
$MAXHALF	75C	75C
$MAXHOP	3D2	0
$MAXINT	3BC	
$MAXMSGQ	3CE	C8
$MAXPART	522	3

Name	Hex Offset	Hex Value
$MAXREST	9CC	
$MAXSESS	474	0
$MAXVUSE	4C0	0
$MCJCLAS	F3E	1
$MCONACT	62D	80
$MCONFG1	62D	0
$MCONMSG	294	
$MCONNPM	62D	20
$MCONPCE	B24	
$MCONWAT	62D	40
$MCONWPM	62D	10
$MCT	F4	
$MG607FL	492	
$MG607F1	492	0
$MG607F2	493	0
$MG607TM	494	0
$MIGRIOQ	1C8	
$MIGRQCD	1C8	
$MIGRQSQ	1CC	
$MINDORM	3C0	64
$MINHOLD	3B4	5F5E0FF
$MINUS1	750	750
$MINUS2	754	FFFFFFFE
$MISCPCE	B44	
$MLBFSIZ	50C	190
$MLLMECF	CD0	0
$MLLMPCE	B0C	
$MLNEDCT	A74	
$MODREFR	9C1	4
$MSAVE	638	
$MSKNODE	9EC	80402010
$MSTHCTL	CFA	274
$MSTRHI	CF8	9
$MSTRID	CF0	D4E2E3D9
$MSTRVER	CF8	
$MSTRVRN	CF8	6
$MSTRVR4	CF8	7
$MSTRV12	CF8	8
$MSTRZ11	CF8	9
$MSTRZ2	CF8	8
$MVFENCE	EBC	10
$MVSDISP	7D8	
$MVSWAIT	7C8	
$MWORK	298	
$M581DVN	588	
$M581ERR	594	
$M581FGF	598	80
$M581FLG	598	
$M581FL1	598	40
$M581FL2	598	20
$M581FNT	598	10
$M581INF	596	
$M581RC	590	
$M607AAS	493	40
$M607ACM	493	8
$M607ACT	492	20
$M607CKR	493	2
$M607CRS	492	4
$M607DIL	493	10
$M607ESP	493	80
$M607HLD	492	10
$M607IO	492	80
$M607LCK	492	8
$M607NET	493	20
$M607PCE	492	1
$M607SPM	493	4
$M607SPN	492	2
$M607WTO	492	40
$NDDOMID	A3C	
$NDENAME	E94	40404040
$NETACCT	29C	
$NETDCTS	A88	
$NETLDCT	A84	
$NETLNES	AC4	0
$NEWSCLV	D14	0
$NEWSIOT	D10	0
$NEWSJQE	D0C	0
$NEWSLVL	D16	0
$NHBFREC	46A	0
$NHBLGRQ	470	0
$NHBLIM	468	0
$NHBNWBF	46E	0
$NHBPRCT	466	50
$NHBWBF	46C	0
$NIPFCB	4FC	5C5C5C5C
$NIPFLSH	504	5C5C5C5C
$NIPUCS	500	C7C6F1F0
$NITABLE	2A0	
$NITCPTR	2A4	
$NITCSEQ	2A8	0
$NITECNT	A4E	0
$NITESIZ	9D4	0
$NJEADCT	AA8	
$NJEOPTS	3E7	
$NJRPCE	BD4	
$NJTPCE	BC4	
$NMSGFRE	49C	0
$NMSGNUM	498	0
$NMSGPRC	490	
$NODEID	F18	1
$NODETOL	9D2	0
$NODREST	9D0	64
$NONSHR	EBC	40
$NOPRCCW	4CC	
$NOPUCCW	4CD	
$NPMPCE	C04	
$NRMPCE	C0C	
$NRRPCE	C14	
$NRTPCE	C1C	
$NSRPCE	BF4	
$NSTPCE	BE4	
$NUCFIXD	2AC	
$NUMACE	520	14
$NUMALI	C80	10000
$NUMARM	C60	10000
$NUMASYN	AE8	10000
$NUMAUTO	3D6	0
$NUMBSC	42C	0
$NUMBUF	43A	FFFF
$NUMBUFX	448	FFFF
$NUMCDC	C98	10000
$NUMCKPT	B20	10000
$NUMCMBS	484	64
$NUMCMDS	480	0
$NUMCNVT	B68	A0000
$NUMCOMM	AD8	
$NUMCPTS	38A	0
$NUMDAWN	C90	10000
$NUMDIL	C78	70000
$NUMENF	B38	10000

Name	Hex Offset	Hex Value
$NUMEOM	C88	30000
$NUMEVTL	B00	10000
$NUMEXEC	AE0	10000
$NUMFAIL	4C8	0
$NUMFCL	C40	10000
$NUMIRC	B58	20000
$NUMJCMD	C48	10000
$NUMJOES	F14	
$NUMJQR	B40	A0000
$NUMLDEV	ACE	
$NUMLNES	AC0	0
$NUMLOGS	AC6	0
$NUMMCON	B28	10000
$NUMMISC	B48	10000
$NUMMLLM	B10	10000
$NUMMLNE	AC2	0
$NUMNHB	464	FFFF
$NUMNJR	ACF	
$NUMNJRS	BD8	0
$NUMNJT	ACE	
$NUMNJTS	BC8	0
$NUMNODE	F04	1
$NUMNPM	C08	10000
$NUMNRM	C10	10000
$NUMNRR	C18	0
$NUMNRT	C20	0
$NUMNSR	AD1	
$NUMNSRS	BF8	0
$NUMNST	AD0	
$NUMNSTS	BE8	0
$NUMOFFS	ACA	0
$NUMOJRS	BE0	0
$NUMOJTS	BD0	0
$NUMOSRS	C00	0
$NUMOSTS	BF0	0
$NUMOUT	B78	A0000
$NUMPATH	3D0	1
$NUMPRTS	B80	0
$NUMPRTY	BB0	10000
$NUMPRYO	BB8	10000
$NUMPSO	B70	20000
$NUMPUNS	B90	0
$NUMPURG	BA0	A0000
$NUMRDRS	B50	0
$NUMRESM	C28	10000
$NUMSFS	B30	10000
$NUMSMFB	4A4	5
$NUMSNF	C68	20000
$NUMSOM	B18	10000
$NUMSPI	C70	A0000
$NUMSPIN	C38	30000
$NUMSPOL	B08	10000
$NUMSRVS	AC8	0
$NUMSTAC	C30	20000
$NUMTG	F1C	
$NUMTIMR	AF8	10000
$NUMTIPS	BA8	10000
$NUMTPPR	B88	0
$NUMTPPU	B98	0
$NUMTPRD	B60	0
$NUMVTAM	456	0
$NUMWARM	BC0	10000
$NUMXCF	C50	10000
$NUMXCM	C58	10000
$NUMXTIM	AF0	10000

Name	Hex Offset	Hex Value
$NWECB	90	
$OFFADCT	AB0	
$OFFDCT	A94	
$OJRDCT	A98	
$OJRPCE	BDC	
$OJTDCT	AA0	
$OJTPCE	BCC	
$OLDDCTS	A90	
$OPSPJNO	EC0	0
$OPTCOLD	3E0	40
$OPTCONS	3E0	2
$OPTFMT	3E0	80
$OPTINTR	3E5	10
$OPTLIST	3E0	10
$OPTLOG	3E0	8
$OPTQWIK	3E0	1
$OPTREQ	3E0	20
$OPTSTAT	3E0	38
$OPTSTA1	3E1	0
$OPTSTA2	3DF	0
$OPTSTD	3E0	38
$OPT1STD	3E1	0
$OP1CKPT	3E1	40
$OP1PJS2	3E1	20
$OP1SFCE	3E1	8
$OP1SPEC	3E1	80
$OP1SVAL	3E1	10
$OP1SVLH	3E1	2
$OP1UNAC	3E1	4
$OP2COMP	3DF	80
$OP2FULF	3DF	40
$ORIGMHD	3B8	0
$OSRDCT	A9C	
$OSRPCE	BFC	
$OSTDCT	AA4	
$OSTPCE	BEC	
$OUTPCE	B74	
$OWNNIT	99C	
$OWNNODE	9A8	1
$PADDR	2B4	
$PATCHSP	F64	0
$PBELST	A48	
$PCEASYN	9D7	80
$PCEHCTA	AD2	2
$PCEHCTC	AD2	4
$PCEHCTD	AD2	0
$PCEHCTE	AD2	8
$PCEHCTP	AD2	0
$PCELAST	CB0	
$PCEORG	CAC	
$PCEPOST	9D7	0
$PCEPSTC	CB8	
$PDYNDET	9C1	20
$PERFCB	2B8	
$PITABLE	2C0	
$PITNUM	A4C	0
$PLVL	35C	
$PLXDYNI	350	0
$POSTELS	AD4	
$POSTEXA	84	
$POSTLST	C98	C94
$POSTSAV	650	0
$PPBSIZE	388	
$PRFDATA	2BC	
$PRFXFLG	4EB	20

Name	Hex Offset	Hex Value
$PRIHIGH	EB4	
$PRILOW	EB5	
$PRIOOPT	3E2	2
$PRIOUT	38C	
$PRIRATE	EB2	0
$PRMDEND	5B0	80
$PRMDFLG	5B0	
$PRMDINX	5A8	
$PRMDSAV	5A0	
$PRMDTBL	2C4	
$PRMDWKL	5B0	11
$PRMMEMB	2D0	40404040
$PROCDDN	2B0	0
$PROCDFT	62C	3
$PROCESS	62C	3
$PRODISP	62C	10
$PRONEWS	62C	80
$PRORATE	EB6	0
$PRPUSRV	F0	
$PRSCNWB	62C	20
$PRTBOPT	3E3	80
$PRTCALL	4E8	80
$PRTDCT	A64	
$PRTFCB	4F4	F6404040
$PRTOPTS	3E3	
$PRTOPT2	4E8	80
$PRTPCE	B7C	
$PRTRANS	3E3	8
$PRTUCS	4F8	F0404040
$PRTYJOB	3E2	1
$PRTYOHI	EB8	FF0
$PRTYOLO	EBA	0
$PRTYOUT	3E2	4
$PRTYPCE	BAC	
$PRUNSP	EBC	1
$PRYOPCE	BB4	
$PSLIST	2D8	
$PSOPCE	B6C	
$PSOTOK	DC	
$PSWAMOD	832	
$PSWMODE	831	
$PSWSAVE	830	
$PUNBOPT	3E3	40
$PUNDCT	A68	
$PUNPCE	B8C	
$PURGPCE	B9C	
$QINDEXA	2DC	
$QSELEN	D18	C8
$QSEMAX	E7C	20
$QSENDEF	E7E	1
$QSE1	2E0	
$QVERDAT	3E8	0
$QVERRSN	3EC	
$QVRNART	3EC	C
$QVRNBDC	3EC	6
$QVRNBDF	3EC	7
$QVRNBDI	3EC	8
$QVRNBDQ	3EC	5
$QVRNBER	3EC	51
$QVRNCER	3EC	61
$QVRNCQ1	3EC	9A
$QVRNCQ2	3EC	9B
$QVRNCQ3	3EC	9C
$QVRNCQ4	3EC	9D
$QVRNCQ5	3EC	9E
$QVRNCQ6	3EC	9F
$QVRNCQ7	3EC	A0
$QVRNCQ8	3EC	A1
$QVRNDJA	3EC	1D
$QVRNDJB	3EC	1E
$QVRNDJC	3EC	1F
$QVRNDJE	3EC	1C
$QVRNDJF	3EC	20
$QVRNDJN	3EC	18
$QVRNDJQ	3EC	1A
$QVRNDJX	3EC	19
$QVRNDJZ	3EC	1B
$QVRNENF	3EC	43
$QVRNETH	3EC	41
$QVRNETO	3EC	42
$QVRNFRC	3EC	3
$QVRNFRE	3EC	2
$QVRNJAR	3EC	AD
$QVRNJBC	3EC	21
$QVRNJOE	3EC	AE
$QVRNJQC	3EC	12
$QVRNJQL	3EC	16
$QVRNJQO	3EC	15
$QVRNJTE	3EC	1
$QVRNJXE	3EC	A
$QVRNJXM	3EC	B
$QVRNMJN	3EC	9
$QVRNOCC	3EC	8D
$QVRNOCE	3EC	89
$QVRNOCO	3EC	8A
$QVRNOCQ	3EC	8B
$QVRNOC1	3EC	8C
$QVRNOC2	3EC	8E
$QVRNOJE	3EC	82
$QVRNORE	3EC	84
$QVRNORQ	3EC	83
$QVRNOR2	3EC	85
$QVRNOR3	3EC	86
$QVRNOR4	3EC	87
$QVRNOR5	3EC	88
$QVRNOTE	3EC	81
$QVRNOWC	3EC	91
$QVRNOWE	3EC	8F
$QVRNOWQ	3EC	90
$QVRNOW1	3EC	92
$QVRNOW2	3EC	93
$QVRNOW3	3EC	94
$QVRNOW4	3EC	95
$QVRNOW5	3EC	96
$QVRNOW6	3EC	97
$QVRNOW7	3EC	98
$QVRNOW8	3EC	99
$QVRNRQE	3EC	4
$QVRNTCE	3EC	AC
$QVRNTPE	3EC	A9
$QVRNTP2	3EC	AA
$QVRNTP3	3EC	AB
$QVRNTQE	3EC	A2
$QVRNTRE	3EC	A3
$QVRNTR2	3EC	A4
$QVRNTUE	3EC	A5
$QVRNTU2	3EC	A6
$QVRNTU3	3EC	A7
$QVRNTU4	3EC	A8
$QVRNWQE	3EC	10

Name	Hex Offset	Hex Value
$QVRNWQN	3EC	11
$QVRNWQP	3EC	13
$QVRNWQX	3EC	14
$QVRNWWQ	3EC	17
$QVRNXTF	3EC	F
$QVRNXTH	3EC	D
$QVRNXTO	3EC	E
$RASSIGN	62C	2
$RATABLE	2E4	
$RBDM497	4E0	
$RBFADDR	A28	
$RCDFRST	2E8	
$RCDSIZE	F5A	0
$RCOMCHR	4EA	5B
$RCY3HET	F13	10
$RCY3HOM	F13	8
$RDRAREA	525	E9
$RDRDCT	A5C	
$RDRPCE	B4C	
$READY	CE8	
$READYF	CE8	
$READYL	CEC	
$REBLDS	DE0	0
$RECINCR	F1A	
$RECVCNT	9FE	0
$REGSAVC	7E8	
$REGSAVE	7E8	7F0
$RESMPCE	C24	
$RETRYCT	530	2
$RJEOPTS	3E4	
$RJOBOPT	3E5	
$RMTDCTS	A8C	
$RMTNUM	508	0
$RMTSON	2F0	
$ROTDISP	580	
$ROTJOE	57C	
$ROTJQE	578	
$ROUTDCT	A6C	
$RPLCOMQ	2EC	
$RPRBOPT	3E3	20
$RPUBOPT	3E3	10
$RSCTABL	DEC	
$RSEPDBL	4CE	1
$RSEPFUL	4CE	2
$RSEPHAF	4CE	4
$RSEPNON	4CE	8
$RSOCLDP	E00	0
$RSRVCKG	4D4	
$RSV3	C9C	0
$RTIMTAB	2F4	
$RUNOPTS	3E2	2
$RWL	94	
$RWLNJRS	A4	
$RWLNJTS	A8	
$RWLNSRS	AC	
$RWLNSTS	B0	
$RWLPRTS	9C	
$RWLPUNS	A0	
$RWLRDRS	98	
$SAPCACH	C0	
$SAPTOK	D4	
$SAVAREA	2F8	
$SAVEARS	2FC	
$SAVEBEG	CF0	
$SAVEBOF	62	
$SAVEEND	F64	
$SAVELEN	F64	274
$SCANMDL	534	64
$SCANPDL	532	40
$SCANWKA	5A0	
$SCANXWA	588	40404040
$SCLPEND	4E4	
$SCNDL16	5A0	5A0
$SCNDL24	5A0	
$SCNDWKA	5A0	5A0
$SCNDWKB	5A0	5A8
$SCNDWKC	5A0	5B0
$SCNLLIM	5B8	
$SCOPSPL	4EB	10
$SCOPSYS	4EB	20
$SCQADDR	304	
$SCQJQE	E08	0
$SCT	308	
$SDCMBAD	A40	
$SDWNFST	9C0	80
$SEPPAGE	4CE	
$SFSPCE	B2C	
$SFWA	300	
$SID	998	40404040
$SIDBUSY	9AA	
$SIDINDX	9AC	0
$SIDTIME	990	0
$SINGLE	698	698
$SJFJDVT	9E4	0
$SLVL	35D	
$SMFBUSY	30C	
$SMFFREC	4AA	0
$SMFPRCT	4A6	
$SNFNSYM	EBD	1
$SNFPCE	C64	
$SNFZ7FS	0	1
$SNIFAST	EBD	2
$SNV	9A0	
$SOCKTBL	314	
$SOMPCE	B14	
$SONWORK	9DA	0
$SPFTIME	DF8	0
$SPINACT	4BF	
$SPINJQE	62C	40
$SPINPCE	C34	
$SPIPCE	C6C	
$SPLADRA	EBD	8
$SPLADRS	EBD	4
$SPLBYTS	F28	0
$SPLEASA	F3E	2
$SPLEASS	F3E	4
$SPLEXST	E0C	0
$SPLINAC	E4C	0
$SPLIOER	15C	A
$SPLLEN	F0B	
$SPLLGDS	F13	80
$SPLLGUS	F13	20
$SPLMTTT	F13	40
$SPLNUMB	F0C	F0D
$SPLSLCT	E2C	0
$SPMSKWA	6C8	0
$SPOFERR	524	
$SPOLMSG	517	
$SPOLNUM	F0C	20
$SPOLPCE	B04	

Name	Hex Offset	Hex Value
$SPOOL	F06	E2D7D6D6
$SPOOLCB	4D8	
$SPOOLQ	310	
$SPVLRSN	3ED	
$SPVMNAM	EF8	40404040
$SPV1BRT	3ED	5
$SPV1OPT	3ED	3
$SPV1QER	3ED	1
$SPV1SPL	3ED	4
$SPV1VAL	3ED	2
$SRVDCT	A7C	
$SSNM	9A0	5C5C5C5C
$SSVS	9A4	5C5C5C5C
$STABNDA	B4	
$STACPCE	C2C	
$STACTOK	D8	
$STARTCP	650	6C8
$STARTTM	650	638
$STATUS	9AF	
$STATUS1	9C0	40
$STATUS2	9C1	18
$STDFORM	4EC	E2E3C440
$STERSTK	15C	
$STIMASK	516	
$STIMBUF	516	80
$STIMDCT	516	20
$STIMSBT	516	10
$STIMTIM	516	40
$STKEWRK	6B0	0
$STOPXEQ	9C0	8
$STQEACT	320	
$STRTDSI	9C1	1
$STUBCNT	C8	0
$STUBPTR	CC	
$STWORK	318	
$ST1PJTM	9C0	20
$SUBTASK	9AE	
$SXADDR	100	
$SYMBM	10C	
$SYNCTOL	390	
$SYSID	9A8	
$TBLNUM	368	2
$TCELSIZ	F1B	
$TGAELEN	9B8	0
$TGAENUM	9BA	32
$TGALLOC	E6C	
$TGBAD	368	
$TGDEFND	E74	
$TGFREE	E78	
$TGFREEB	4B0	7FFFFFFF
$TGMADDR	360	
$TGMAP	364	
$TGMHEAD	360	
$TGPRCT	DF6	
$TGRADDR	36C	
$TGRHDR	36C	28
$TGSIZE	4AE	1E
$TGSYSID	DF5	0
$TGTOTAL	E70	
$TIMEPCE	AF4	
$TIPSJBN	F4C	0
$TIPSPCE	BA4	
$TJEVTOK	D0	
$TOTCKRN	84C	
$TOTCKSZ	3A4	
$TPPRPCE	B84	
$TPPUPCE	B94	
$TPRDPCE	B5C	
$TQEQUE	32C	
$TRCDWN	634	1
$TRCFG1	634	0
$TRCPCE	AFC	
$TRCSYSX	634	80
$TRGENER	330	
$TRTIME	528	
$TTBPRCT	4B4	
$UCT	FC	
$UNSPUN	EBC	80
$UPADDR	370	
$USERSET	3E3	2
$USER1	378	
$USER2	37C	
$USER3	380	
$USER4	384	0
$USER5	386	0
$USXADDR	374	
$UVERS	58	40404040
$VERSACT	4BE	80
$VERSFRE	4BA	0
$VERSINI	4BE	10
$VERSION	50	E2D740F5
$VERSKPT	4BE	20
$VERSNUM	4B8	0
$VERSSTT	4BE	10
$VERSWRN	4BC	50
$VLOGQUE	334	
$VTMFREC	45C	0
$VTMLGRQ	462	0
$VTMLIM	45A	0
$VTMNWBF	460	0
$VTMPRCT	458	50
$VTMWBF	45E	0
$WARMACT	3AE	0
$WARMCNT	BC0	4
$WARMPCE	BBC	
$WARMTYP	A2C	
$WCHECK	D02	0
$WLMDATA	338	
$WLMDIFF	9C0	2
$WLMRGOK	9C0	1
$WORK16	6A8	698
$WORK24	6A8	698
$WRMDONE	9C0	10
$WRMESYS	A32	1
$WRMINIT	A30	
$WRMREG	A30	1
$WSAPTR	33C	
$WSBITOF	758	7F
$WSUSER	754	80
$WTBSYJO	EBD	80
$XCFFLG1	844	
$XCFFLG2	845	
$XCFGPNM	F2C	40404040
$XCFIXVT	848	
$XCFPCE	C4C	
$XCFXEQP	9C8	0
$XCF1ERR	844	20
$XCF1MUD	844	2
$XCF1NAR	844	80
$XCF1NRS	844	40

Name	Hex Offset	Hex Value
$XCF1SGO	844	4
$XCF1STP	844	8
$XCF1STR	844	10
$XCF2ERR	845	80
$XCMPCE	C54	
$XCPECBX	88	1800000
$XCWFLAG	C4	0
$XCWSCEN	C4	80
$XECBQ	CD8	
$XECBQF	CD8	
$XECBQL	CE0	
$XEQDCT	A80	
$XEQINT	9C1	40
$XFRACTV	340	
$XFRBEND	344	
$XFRDEND	348	
$XFRECBX	80	1800000
$XITADDR	34C	
$XMASADR	210	
$XTIMPCE	AEC	
$XWTRACT	A22	80
$XWTRFLG	A22	
$ZAPTIME	EA0	0
$ZERO	708	708
$ZEROES	708	708
$ZEROFFF	748	FFFFFF
$ZEROS	708	0
$ZEROTGS	EE3	80
$0FFF	748	748
$000F	74C	FF
$7FFF	75C	75C
HCT	0	

$HFAM Information

$HFAM Programming Interface information

Programming Interface information

$HFAM

End of Programming Interface information

$HFAM Heading Information

Common Name: HASP File Allocation Map
Macro ID: $HFAM
DSECT Name: HFAM
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: HFAM
Offset: HFAMID-HFAM
Length: L'HFAMID
Storage Attributes: Subpool: 0
Key: 1
Residency: Virtual and real storage are anywhere in the JES2 address space.
Size: See HFAMLEN
Created by: JES2 Initialization
Pointed to by: $HFAM field of the $HCT data area
Serialization: The JES2 Checkpoint data set lock ($QSUSE) is used.
NOTE: This is a checkpointed control block and part of check record. Any change to this control block will be reflected across systems.
Function: This dsect is used to map file identification and use information about the two checkpoint data sets and their backups (NEWCKPTS). For the mapping of the individual entries, see the $HFAME control block.

$HFAM Map

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	0	HFAM	HASP FILE ALLOCATION MAP
0	(0)	CHARACTER	308	HFAMREC (0)	Offset table needs hard coded length
0	(0)	CHARACTER	4	HFAMID	HFAM EYE CATCHER
4	(4)	ADDRESS	1	HFAMVER	CONTROL BLOCK VERSION NUMBER
4	(4)	X'3'	0	HFAMVERN	"03" CONTROL BLOCK VER. NUMBER
5	(5)	BITSTRING	1	HFAMLSYS	System # of last system to update the ckpt.($SIDBUSY)
6	(6)	BITSTRING	1	HFAMFLAG	FLAG BYTE
		1...		HFAMDPLX	"B'10000000'" 0 - COMPLEX IS IN DUAL MODE 1 - COMPLEX IS IN DUPLEX MODE
		.1..		HFAMIDSN	"B'01000000'" IGNORE DSN/VOL IN HFAMES
7	(7)	BITSTRING	1		RESERVED FOR FUTURE USE
8	(8)	SIGNED	4	HFAMCSTR (2)	COLD START TIME STAMP
16	(10)	SIGNED	4	HFAMUSR1	RESERVED FOR USER
20	(14)	CHARACTER	72	HFAMCKP1	DATA SET SPEC FOR CHECKPOINT 1
92	(5C)	CHARACTER	72	HFAMCKP2	DATA SET SPEC FOR CHECKPOINT 2
164	(A4)	CHARACTER	72	HFAMCKN1	DATA SET SPEC FOR NEW CKPT1
236	(EC)	CHARACTER	1	HFAMCKN2	DATA SET SPEC FOR NEW CKPT2
236	(EC)	X'134'	0	HFAMLEN	"*-HFAM" LENGTH OF HFAM
308	(134)	ADDRESS	2	(0)	Ensure hardcoded value
308	(134)	ADDRESS	2	(0)	is accurate

$HFAM Cross Reference

Name	Hex Offset	Hex Value
HFAM	0	
HFAMCKN1	A4	
HFAMCKN2	EC	
HFAMCKP1	14	
HFAMCKP2	5C	
HFAMCSTR	8	
HFAMDPLX	6	80
HFAMFLAG	6	
HFAMID	0	C8C6C1D4
HFAMIDSN	6	40
HFAMLEN	EC	134
HFAMLSYS	5	
HFAMREC	0	
HFAMUSR1	10	
HFAMVER	4	
HFAMVERN	4	3

$HFAME Information

$HFAME Programming Interface information

Programming Interface information

$HFAME

End of Programming Interface information

$HFAME Heading Information

Common Name: HASP File Allocation Map Entry
Macro ID: $HFAME
DSECT Name: HFE
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: None
Storage Attributes: Subpool: N/A
Key: N/A
Residency: See $HFAM control block, or $HCCT control block, or $CKPRECV control block.
Size: See HFELEN
Created by: See $HFAM control block, or $HCCT control block, or $CKPRECV control block.
Pointed to by: HFAMCKP1 field of the $HFAM data area
HFAMCKP2 field of the $HFAM data area
HFAMCKN1 field of the $HFAM data area
HFAMCKN2 field of the $HFAM data area
CCTCKPT1 field of the $HCCT data area
CCTCKPT2 field of the $HCCT data area
CKRHFAME field of the $CKPRECV data area
Various fields in the processor work areas and parameter lists.
Serialization: None required
Function: This dsect maps the entry for one file in the HASP File Allocation Map (HFAM). See $HFAM control block for more information.

$HFAME Map

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	0	HFE	HASP FILE ALOC MAP ELEMENT
		Comment			
		HFEDSVOL IS USED AS RNAME FOR RESERVE/DEQ MACROS. DO NOT CHANGE THE ORDER OF VOLSER AND DSNAME.			
		End of Comment			
0	(0)	CHARACTER	0	HFESPEC (0)	Data set spec
0	(0)	CHARACTER	0	HFEDASD (0)	Data set volser and dsn (Used as RNAME when ckpt is on DASD)
0	(0)	CHARACTER	6	HFEVOL	VOL SERIAL NUMBER OF DS
6	(6)	CHARACTER	44	HFEDSN	NAME OF DATA SET
50	(32)	CHARACTER	16	HFESTR	XES Structure name
66	(42)	BITSTRING	1	HFEFLAG1	FLAG BYTE FOR DATA SET
		1...		HFE1INUS	"B'10000000'" DATA SET IN USE
		.1..		HFE1DASD	"B'01000000'" Checkpoint is on DASD
		..1.		HFE1CF	"B'00100000'" Checkpoint is on CF
67	(43)	BITSTRING	1		RESERVED FOR FUTURE USE
68	(44)	SIGNED	4	HFEUSER1	RESERVED FOR USER
68	(44)	X'48'	0	HFELEN	"*-HFE" LENGTH OF HFAME

$HFAME Cross Reference

Name	Hex Offset	Hex Value
HFE	0	
HFEDASD	0	
HFEDSN	6	
HFEFLAG1	42	
HFELEN	44	48
HFESPEC	0	
HFESTR	32	
HFEUSER1	44	
HFEVOL	0	
HFE1CF	42	20
HFE1DASD	42	40
HFE1INUS	42	80

$HFCT Information

$HFCT Programming Interface information

Programming Interface information

$HFCT

End of Programming Interface information

$HFCT Heading Information

Common Name: HASP FSS Communication Table
Macro ID: $HFCT
DSECT Name: HFCT
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: MIT entry for HASPFSSM ('MIT HASPFSSM')
Offset: 0
Length: 12
Storage Attributes: Subpool: The subpool of the HASPFSSM load module.
Key: 1
Residency: Virtual and real storage are below 16M, in the private storage of an FSS address space.
Size: See the HFCTLEN equate.
Created by: The HASPFSSM load module is loaded during an FSS CONNECT request through the Functional Subsystem Interface (FSI). The HFCT is part of HASPFSSM.
Pointed to by: - As one of the key JES2 control blocks for processing from an FSS address space, the HFCT address is usually in general purpose register 11 in the assembly environment known as FSS.
- Label HASPFCT in HASPFSSM, defined as an external symbol for code in the HASPFSSM load module, is the address of the HFCT.
- The HFCT is at the front of the HASPFSSM load module so the module storage address in the MVS CDE for HASPFSSM (if one exists) points to the HFCT.
- The FSSHFCT field of the FSS's FSSCB common storage control block points to the FSS's HFCT.
Serialization: The HFCT is loaded and altered during an FSS CONNECT FSI request. From that point in time on, multiple tasks may be executing under the FSS and its Functional Subsystem Applications (FSAs). The HFCT fields are read-only, or used with compare-and-swap techniques.
Function: The HFCT is the central control block used for JES2 processing in the address space of a Functional Subsystem (FSS) connected to the JES2 subsystem. It is used for most processing within Functional Subsystem Interface (FSI) requests made by FSSs and their applications (FSAs), or directed to them.

The HFCT address is normally in general purpose register 11 during processing in the FSS assembly environment. Register 11 addressing for the HFCT is assumed in FSS-oriented JES2 service macros, routines, exits, and general linkage.

$HFCT Map

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	0	HFCT	HASP FSS COMMUNICATION TABLE
0	(0)	BITSTRING	80		HASPFSSM Module Info Table
80	(50)	CHARACTER	8	HFCTVER	Permanently set to SP 5.3.0

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
				Comment	
				Keep the next three fields intact.	
				End of Comment	
88	(58)	BITSTRING	10	HFCTJES2_LEVEL (0)	
					Level information
88	(58)	CHARACTER	8	HFCTLEVL	HASP Version <---+
96	(60)	ADDRESS	1	HFCTPLVL	Product Level |
97	(61)	ADDRESS	1	HFCTSLVL	Service Level <---+
98	(62)	SIGNED	2		Reserved for future use
				Comment	
				HASPFSSM ENTRY POINTS FOR FUNCTIONAL SUBSYSTEM INTERFACE SUPPORTED FSS FUNCTIONS.	
				End of Comment	
100	(64)	SIGNED	4	HFCTFSSF (0)	FSI SUPPORTED FSS FUNCTIONS
100	(64)	ADDRESS	4	HFCTSCNI	CONNECT IDENTIFIER
104	(68)	ADDRESS	4	HFCTSCNA	"V(FSMCONCT)" CONNECT ENTRY POINT
108	(6C)	ADDRESS	4	HFCTSDCI	DISCONNECT IDENTIFIER
112	(70)	ADDRESS	4	HFCTSDCA	"V(FSMCONCT)" DISCONNECT ENTRY POINT
116	(74)	ADDRESS	4	HFCTSGDI	GETDS IDENTIFIER
120	(78)	ADDRESS	4	HFCTSGDA	"V(FSMERROR)" GETDS UNSUPPORTED ON FSS LEVEL
124	(7C)	ADDRESS	4	HFCTSRDI	RELDS IDENTIFIER
128	(80)	ADDRESS	4	HFCTSRDA	"V(FSMERROR)" RELDS UNSUPPORTED ON FSS LEVEL
132	(84)	ADDRESS	4	HFCTSGRI	GETREC IDENTIFIER
136	(88)	ADDRESS	4	HFCTSGRA	"V(FSMERROR)" GETREC UNSUPPORTED ON FSS LEVEL
140	(8C)	ADDRESS	4	HFCTSFRI	FREEREC IDENTIFIER
144	(90)	ADDRESS	4	HFCTSFRA	"V(FSMERROR)" FREEREC UNSUPPORTD ON FSS LEVEL
148	(94)	ADDRESS	4	HFCTSCKI	CHKPT IDENTIFIER
152	(98)	ADDRESS	4	HFCTSCKA	"V(FSMERROR)" CHKPT UNSUPPORTED ON FSS LEVEL
156	(9C)	ADDRESS	4	HFCTSSNI	SEND IDENTIFIER
160	(A0)	ADDRESS	4	HFCTSSNA	"V(FSMSEND)" SEND ENTRY POINT
160	(A0)	X'6'	0	HFCTSIDN	"(*-HFCTSGDI)/8" NUM OF HASPFSSM ENTRY PTS
				Comment	
				HASPFSSM ENTRY POINTS FOR FUNCTIONAL SUBSYSTEM INTERFACE FSA SUPPORTED FUNCTIONS.	
				End of Comment	
164	(A4)	SIGNED	4	HFCTFSAF (0)	FSI SUPPORTED FSA FUNCTIONS
164	(A4)	ADDRESS	4	HFCTACNI	CONNECT IDENTIFIER
168	(A8)	ADDRESS	4	HFCTACNA	"V(FSMERROR)" CONNECT UNSUPPORTD ON FSA LEVEL
172	(AC)	ADDRESS	4	HFCTADCI	DISCONNECT IDENTIFIER
176	(B0)	ADDRESS	4	HFCTADCA	"V(FSMERROR)" DISCONT UNSUPPORTD ON FSA LEVEL
180	(B4)	ADDRESS	4	HFCTAGDI	GETDS IDENTIFIER
184	(B8)	ADDRESS	4	HFCTAGDA	"V(FSMGETDS)" GETDS ENTRY POINT
188	(BC)	ADDRESS	4	HFCTARDI	RELDS IDENTIFIER
192	(C0)	ADDRESS	4	HFCTARDA	"V(FSMRELDS)" RELDS ENTRY POINT
196	(C4)	ADDRESS	4	HFCTAGRI	GETREC IDENTIFIER
200	(C8)	ADDRESS	4	HFCTAGRA	"V(FSMGETRC)" GETREC ENTRY POINT
204	(CC)	ADDRESS	4	HFCTAFRI	FREEREC IDENTIFIER
208	(D0)	ADDRESS	4	HFCTAFRA	"V(FSMFRERC)" FREEREC ENTRY POINT
212	(D4)	ADDRESS	4	HFCTACKI	CHKPT IDENTIFIER
216	(D8)	ADDRESS	4	HFCTACKA	"V(FSMCHKPT)" CHKPT ENTRY POINT
220	(DC)	ADDRESS	4	HFCTASNI	SEND IDENTIFIER
224	(E0)	ADDRESS	4	HFCTASNA	"V(FSMSEND)" SEND ENTRY POINT

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
				Comment	
		ENTRY POINTS FOR PC ROUTINES			
				End of Comment	
228	(E4)	SIGNED	4	HFCTPCS (0)	PC ROUTINE ID/ADDR PAIRS
228	(E4)	ADDRESS	4	HFCTORDI	ORDER IDENTIFIER
232	(E8)	ADDRESS	4	HFCTORDA	"V(FSMORDER)" ORDER ENTRY POINT
236	(EC)	ADDRESS	4	HFCTPSTI	POST IDENTIFIER
240	(F0)	ADDRESS	4	HFCTPSTA	"V(FSMPOST)" POST ENTRY POINT
240	(F0)	X'2'	0	HFCTPCNO	"(*-HFCTPCS)/8" NUMBER OF PC ROUTINES
240	(F0)	X'54'	0	HFCTETDL	"ETDLEN+(HFCTPCNO*ETDELEN)" LENGTH OF ETD CNTL BLOCK
				Comment	
		DEFINED CONSTANTS			
				End of Comment	
244	(F4)	CHARACTER	8	HFCTBLNK	DOUBLEWORD OF BLANKS
252	(FC)	BITSTRING	64	HFCTZERO	Lots of zeroes
252	(FC)	X'FC'	0	HFCT0000	"HFCTZERO" ALTERNATE NAME FOR HFCTZERO
316	(13C)	BITSTRING	4	HFCT000F	FULLWORD LOW ORDER BYTE MASK
320	(140)	BITSTRING	4	HFCT00FF	FULLWORD LOW HALFWORD MASK
324	(144)	BITSTRING	4	HFCT0FFF	FULLWORD 3 BYTE MASK
328	(148)	BITSTRING	4	HFCTALLF	FULLWORD ALL X'FF'S
328	(148)	X'148'	0	HFCTFFFF	"HFCTALLF" ALTERNATE NAME FOR HFCTALLF
332	(14C)	ADDRESS	4	HFCTBADA (16)	BAD value
				Comment	
		DEFINITIONS FOR GENERAL USE			
				End of Comment	
396	(18C)	ADDRESS	4	HFCTFSSA	ADDR OF FSSCB
400	(190)	ADDRESS	4	HFCTHCCT	ADDR OF HCCT
404	(194)	SIGNED	2	HFCTJQLN	JQE length
406	(196)	BITSTRING	14		Reserved
				Comment	
		DEFINITIONS FOR QUICKCELL POOL MANAGEMENT			
				End of Comment	
420	(1A4)	ADDRESS	4	HFCTGTQC	"V(FSMGETQC)" ADDR OF GET QUICKCELL ROUTINE
424	(1A8)	ADDRESS	4	HFCTFRQC	"V(FSMFREQC)" ADDR OF FREE QUICKCELL ROUTINE
428	(1AC)	ADDRESS	4	HFCTBLQC	"V(FSMBLDQC)" ADDR OF BUILD CELLPOOL ROUTINE
432	(1B0)	ADDRESS	4	HFCTQCSU	"V(FSMQCT)" ADDR OF QCT SETUP ROUTINE
436	(1B4)	ADDRESS	4	HFCTQCTH	ADDR OF FIRST QCT
440	(1B8)	SIGNED	4	HFCTQCS1 (18)	FSMBLDQC + FSMEXTQC SAVE AREA
512	(200)	SIGNED	4	HFCTQCS2 (18)	VSM BLDCPOOL MACRO SAVE AREA
				Comment	
		DEFINITIONS FOR SAVE AREA AND ERROR SERVICES, ETC			
				End of Comment	
584	(248)	ADDRESS	4	HFCTSAVE	"V(FSMSAVE)" FSMSAVE $SAVE ROUTINE ADDR
588	(24C)	ADDRESS	4	HFCTRET	"V(FSMRETRN)" FSMRETRN $RETURN ROUTINE ADDR
592	(250)	ADDRESS	4		Reserved for future use
596	(254)	SIGNED	4	HFCTSVSV (18)	SAVE AREA FOR FSMSAVE
668	(29C)	SIGNED	4	HFCTSRBS (18)	SAVE AREA FOR SRBS (FSMRCRTN)
740	(2E4)	SIGNED	4	HFCTESAV (18)	SAVE AREA FOR $ERRORS

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
812	(32C)	ADDRESS	4	HFCTETCB	TCB OWNING $ERROR SAVE
816	(330)	BITSTRING	1	HFCTESVS	$ERROR SAVE AREA SERIALIZATION
817	(331)	BITSTRING	1	HFCTSAVF	SAVE AREA FLAG BYTE
818	(332)	BITSTRING	1	HFCTCONF	FSS CONNECT/DISCONNECT FLAG
		1...		HFCTGTMN	"B'10000000'" FSVT/ETD/ETC GETMAIN WAS DONE
		.1..		HFCTAXRS	"B'01000000'" AXRES WAS DONE FOR FSS AX
		..1.		HFCTAXST	"B'00100000'" AXSET WAS DONE FOR FSS AX
		...1		HFCTLXRS	"B'00010000'" LXRES WAS DONE FOR FSS LX
		.... 1...		HFCTETCR	"B'00001000'" ETCRE WAS DONE FOR FSS ETD
		.... .1..		HFCTATST	"B'00000100'" ATSET WAS DONE FOR JES2 AX
819	(333)	BITSTRING	1		RESERVED FOR FUTURE USE
		Comment			
		SERVICE ROUTINE ENTRY POINTS			
		End of Comment			
820	(334)	ADDRESS	4	HFCTFSIL	"V(FSMFSLNK)" FSSLINK SERVICE ROUTINE
824	(338)	ADDRESS	4	HFCTGTLK	"V(FSMGETLK)" GETLOCK SERVICES ROUTINE
828	(33C)	ADDRESS	4	HFCTFRLK	"V(FSMFRELK)" FRELOCK SERVICES ROUTINE
832	(340)	ADDRESS	4	HFCTGBLK	"V(FSMGTBLK)" GETBLOCK SERVICE ROUTINE
836	(344)	ADDRESS	4	HFCTRBLK	"V(FSMRTBLK)" RETBLOCK SERVICE ROUTINE
840	(348)	ADDRESS	4	HFCTCATE	"V(FSMCATER)" ADDR OF CAT ERROR ROUTINE
		Comment			
		HASPFSSM R11-ADDRESSABLE PATCH SPACE. CODE IS GENERATED AS S-TYPE ADDRESS CONSTANTS WHEN DSECT=NO. VER/REP LOGIC SHOULD ASSUME S( ) HALFWORDS, NOT ZEROS, IN THIS AREA.			
		End of Comment			
840	(348)	X'CB4'	0	HFCTPSZ	"4096-(*-HFCT)"
844	(34C)	BITSTRING	1	HFCTPCH (0)	DEFINE PATCH SPACE
844	(34C)	X'1000'	0	HFCTLEN	"*-HFCT" Length of the HFCT

$HFCT Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
HFCT	0		HFCTCONF	332	0
HFCTACKA	D8		HFCTESAV	2E4	0
HFCTACKI	D4		HFCTESVS	330	0
HFCTACNA	A8		HFCTETCB	32C	
HFCTACNI	A4		HFCTETCR	332	8
HFCTADCA	B0		HFCTETDL	F0	54
HFCTADCI	AC		HFCTFFFF	148	148
HFCTAFRA	D0		HFCTFRLK	33C	
HFCTAFRI	CC		HFCTFRQC	1A8	
HFCTAGDA	B8		HFCTFSAF	A4	
HFCTAGDI	B4		HFCTFSIL	334	
HFCTAGRA	C8		HFCTFSSA	18C	
HFCTAGRI	C4		HFCTFSSF	64	
HFCTALLF	148	FFFFFFFF	HFCTGBLK	340	
HFCTARDA	C0		HFCTGTLK	338	
HFCTARDI	BC		HFCTGTMN	332	80
HFCTASNA	E0		HFCTGTQC	1A4	
HFCTASNI	DC		HFCTHCCT	190	
HFCTATST	332	4	HFCTJES2_LEVEL		
HFCTAXRS	332	40		58	
HFCTAXST	332	20	HFCTJQLN	194	0
HFCTBADA	14C		HFCTLEN	34C	1000
HFCTBLNK	F4	40404040	HFCTLEVL	58	A961D6E2
HFCTBLQC	1AC		HFCTLXRS	332	10
HFCTCATE	348		HFCTORDA	E8	

$HFCT Cross Reference

Name	Hex Offset	Hex Value
HFCTORDI	E4	
HFCTPCH	34C	0
HFCTPCNO	F0	2
HFCTPCS	E4	
HFCTPLVL	60	
HFCTPSTA	F0	
HFCTPSTI	EC	
HFCTPSZ	348	CB4
HFCTQCSU	1B0	
HFCTQCS1	1B8	0
HFCTQCS2	200	0
HFCTQCTH	1B4	
HFCTRBLK	344	
HFCTRET	24C	
HFCTSAVE	248	
HFCTSAVF	331	0
HFCTSCKA	98	
HFCTSCKI	94	
HFCTSCNA	68	
HFCTSCNI	64	
HFCTSDCA	70	
HFCTSDCI	6C	
HFCTSFRA	90	
HFCTSFRI	8C	
HFCTSGDA	78	
HFCTSGDI	74	
HFCTSGRA	88	
HFCTSGRI	84	
HFCTSIDN	A0	6
HFCTSLVL	61	
HFCTSRBS	29C	0
HFCTSRDA	80	
HFCTSRDI	7C	
HFCTSSNA	A0	
HFCTSSNI	9C	
HFCTSVSV	254	0
HFCTVER	50	E2D740F5
HFCTZERO	FC	0
HFCT0FFF	144	FFFFFF
HFCT00FF	140	FFFF
HFCT000F	13C	FF
HFCT0000	FC	FC

$HJCT Information

$HJCT Heading Information

Common Name: JES2 Monitor Communication Table
Macro ID: $HJCT
DSECT Name: HJCT
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: HJCT
Offset: JMTID-HJCT
Length: L'JMTID
Storage Attributes: Subpool: 1
Key: 1
Residency: Virtual is in 31 bit storage and real can in in 64 bit storage. The $HJCT resides in the JES2 monitor address space.
Size: See JMTSIZE
Created by: HASJMON
Pointed to by: - MHBHJCT field of the MONCB data area
- MWEHJCT field of the MWE data area
- General register 11 when executing code in the 'MONITOR' execution environment.
Serialization: None required
Function: The HJCT is the anchor private storage control block for the JES2 monitor address space

$HJCT Map

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	0	HJCT	, HASP Communications Table
0	(0)	CHARACTER	4	JMTID	Eyecatcher
4	(4)	ADDRESS	1	JMTVRSN	HJCT version
4	(4)	X'1'	0	JMTVRNUM	"1" Current version number
5	(5)	BITSTRING	3		Reserved (and frozen)
8	(8)	ADDRESS	4	JMTOFSTB	Address of offset table, at HJCT offset +8
12	(C)	SIGNED	4		Reserved (and frozen)
16	(10)	ADDRESS	4	JMTHCT	HCT address
20	(14)	ADDRESS	4	JMTHCCT	HCCT address
24	(18)	ADDRESS	4	JMTMONCB	MONCB address
28	(1C)	ADDRESS	4	JMTMODMP	Monitor module map
32	(20)	ADDRESS	4	JMTBADA (16)	BAD address value
96	(60)	SIGNED	4	JMTZEROS (16)	Constant zeros
160	(A0)	SIGNED	4	JMTJES2A	JES2 address space ALET
164	(A4)	ADDRESS	4	JMTJASCB	JES2 ASCB address
168	(A8)	CHARACTER	4	JMTSSNM	JES2 subsystem name
172	(AC)	ADDRESS	4	JMTJ2WAT	JES2 Main MVS wait
176	(B0)	ADDRESS	4	JMTMWE	JES2 monitor work areas
180	(B4)	ADDRESS	4	JMTMSD	Monitor sampling data
184	(B8)	CHARACTER	1	JMTCOMCH	CONCHAR for termination messages
185	(B9)	BITSTRING	1	JMTJSTAT	JES2 status flags (set by sampler)
		1...		JMTJSINI	"B'10000000'" JES2 in initialization
		.1..		JMTJSTRM	"B'01000000'" JES2 is terminating
186	(BA)	BITSTRING	2		Reserved
188	(BC)	ADDRESS	4	JMTMWT	MVS Wait list

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
			Comment		
	General work area (for MF=L areas messages, etc).				
			End of Comment		
192	(C0)	BITSTRING	128	JMTGWORK	General work area
320	(140)	SIGNED	4	JMTLWTO (0)	
320	(140)	ADDRESS	2		TEXT LENGTH
322	(142)	BITSTRING	2		MCSFLAGS
324	(144)	ADDRESS	4		MESSAGE TEXT ADDRESS
328	(148)	ADDRESS	1		VERSION LEVEL
329	(149)	BITSTRING	1		MISCELLANEOUS FLAGS
330	(14A)	ADDRESS	1		REPLY LENGTH
331	(14B)	ADDRESS	1		LENGTH OF WPX
332	(14C)	BITSTRING	2		EXTENDED MCS FLAGS
334	(14E)	ADDRESS	2		RESERVED
336	(150)	ADDRESS	4		REPLY BUFFER ADDRESS
340	(154)	ADDRESS	4		REPLY ECB ADDRESS
344	(158)	ADDRESS	4		CONNECT ID
348	(15C)	BITSTRING	2		DESCRIPTOR CODES
350	(15E)	ADDRESS	2		RESERVED
352	(160)	BITSTRING	16		
368	(170)	BITSTRING	2		MESSAGE TYPE
370	(172)	ADDRESS	2		MESSAGE'S PRIORITY
372	(174)	CHARACTER	8		JOB ID
380	(17C)	CHARACTER	8		JOB NAME
388	(184)	CHARACTER	8		RETRIEVAL KEY
396	(18C)	ADDRESS	4		TOKEN FOR DOM
400	(190)	ADDRESS	4		CONSOLE ID
404	(194)	CHARACTER	8		SYSTEM NAME
412	(19C)	CHARACTER	8		CONSOLE NAME
420	(1A4)	ADDRESS	4		REPLY CONSOLE NAME/ID ADDR
424	(1A8)	ADDRESS	4		CART ADDRESS
428	(1AC)	ADDRESS	4		WSPARM ADDRESS
428	(1AC)	X'70'	0	JMTLWTOL	"*-JMTLWTO" WTO work area length
432	(1B0)	DBL WORD	8	(0)	
			Comment		
	---------- HEX translate table ----------				
			End of Comment		
432	(1B0)	X'C0'	0	JMTXTRAN	"*-C'0'" Hexadecimal-to-EBCDIC
432	(1B0)	CHARACTER	16		translate table
			Comment		
	Probe message areas (mapped by PRBM DSECT in $MSD)				
			End of Comment		
448	(1C0)	DBL WORD	8	JMTPROBL (0)	Probe message list
448	(1C0)	ADDRESS	4	JMTPMAIN	Main task activity
452	(1C4)	ADDRESS	4	JMTPBRTL	Bert lock contention
456	(1C8)	ADDRESS	4	JMTPJOBL	Job lock contention
460	(1CC)	ADDRESS	4	JMTPCKPH	Long CKPT hold time
464	(1D0)	ADDRESS	4	JMTPLCMD	Long command processing
464	(1D0)	X'5'	0	JMTPROBC	"(*-JMTPROBL)/4" Count of message areas

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
				Comment	
		Active notice table and flags			
				End of Comment	
468	(1D4)	ADDRESS	4	JMTNOTMT	Notify message table addr
				Comment	
		Notice message table mapping			
				End of Comment	
468	(1D4)	X'0'	0	JMTNMSK	"0,8" JMTNOTIC mask
468	(1D4)	X'8'	0	JMTNFLG1	"8,1" Flag byte
		1...		JMTN1CRT	"B'10000000'" Critical notice
				Comment	
		EQU 9,3 Reserved			
				End of Comment	
468	(1D4)	X'C'	0	JMTNLEN	"12,2" Message length
468	(1D4)	X'E'	0	JMTNTXT	"14,71" Message text
				Comment	
		EQU 85,7 Reserved			
				End of Comment	
468	(1D4)	X'50'	0	JMTNMSNX	"92-12" Length from JMTNLEN to end
468	(1D4)	X'5C'	0	JMTNSIZ	"92" Size of an entry
				Comment	
		Notice flags			
				End of Comment	
472	(1D8)	DBL WORD	8	(0)	Align
472	(1D8)	BITSTRING	8	JMTNOTIC (0)	Current notices
472	(1D8)	BITSTRING	2	JMTNOT01	Notice flag bytes 1
472	(1D8)	BITSTRING	0	JMTN1JNA	"B'1000000000000000'" JES2 A.S. not active
472	(1D8)	BITSTRING	0	JMTN1JIN	"B'0100000000000000'" JES2 initializing
472	(1D8)	BITSTRING	0	JMTN1JTR	"B'0010000000000000'" JES2 terminating
472	(1D8)	BITSTRING	0	JMTN1CRF	"B'0001000000000000'" CKPT RECONFIG in progress
472	(1D8)	BITSTRING	0	JMTN1BOS	"B'0000100000000000'" Member is not BOSS
472	(1D8)	BITSTRING	0	JMTN1ASP	"B'0000010000000000'" A.S. waiting for SPOOL sp
472	(1D8)	BITSTRING	0	JMTN1IPL	"B'0000001000000000'" JES2 IPL required
472	(1D8)	BITSTRING	0	JMTN1JST	"B'0000000100000000'" JES2 stopped, $S needed
		1...		JMTN1JPX	"B'0000000010000000'" JES2 was $PXEQed
		.1..		JMTN1PEN	"B'0000000001000000'" A PCE has ended
		..1.		JMTN1NSP	"B'0000000000100000'" All SPOOLs not available
		...1		JMTN1PSP	"B'0000000000010000'" PCES waiting for SPOOL sp
		.... 1...		JMTN1FGC	"B'0000000000001000'" Fast SPOOL garbage coll
		.... .1..		JMTN1NPM	"B'0000000000000100'" NPM functions suspended
		.... ..1.		JMTN1NNC	"B'0000000000000010'" Node info not in ckpt
		1		JMTN1LNC	"B'0000000000000001'" Local node name changed
474	(1DA)	BITSTRING	2	JMTNOT02	Notice flag bytes 2
474	(1DA)	BITSTRING	0	JMTN2WDF	"B'1000000000000000'" WLM policy difference
474	(1DA)	BITSTRING	0	JMTN2DUB	"B'0100000000000000'" JES2 dubbed but not perm

$HJCT Cross Reference

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
474	(1DA)	BITSTRING	0	JMTN2CLO	"B'0010000000000000'" Ckpt lockout detected
474	(1DA)	BITSTRING	0	JMTN2AHL	"B'0001000000000000'" SPOOL automatically halted
474	(1DA)	BITSTRING	0	JMTN2LIM	"B'0000100000000000'" Independent mode (local)
474	(1DA)	BITSTRING	0	JMTN2SIM	"B'0000010000000000'" Independent mode (Other)
474	(1DA)	BITSTRING	0	JMTN2ANJ	"B'0000001000000000'" NJEDEF CONNECT=NO
474	(1DA)	BITSTRING	0	JMTN2ANR	"B'0000000100000000'" $PNET/$ENET issued
		1...		JMTN2DST	"B'0000000010000000'" Non-default DESTDEF set
		.1..		JMTN2BRT	"B'0000000001000000'" BERT shortage inhibiting
		..1.		JMTN2CDR	"B'0000000000100000'" Cross system data retrieval subtask gone
476	(1DC)	BITSTRING	2	JMTNOT03	Notice flag bytes 3
478	(1DE)	BITSTRING	2	JMTNOT04	Notice flag bytes 4

Comment

Patch space for code that uses R11 addressability
to the HJCT

End of Comment

480	(1E0)	SIGNED	4		Reserved
488	(1E8)	DBL WORD	8	(0)	
488	(1E8)	BITSTRING	256	JMTPATCH (2)	Patch space for R11-HJCT code
1000	(3E8)	DBL WORD	8	(0)	Ensure alignment
1000	(3E8)	X'3E8'	0	JMTSIZE	"*-HJCT" HJCT length

$HJCT Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
HJCT	0		JMTN1CRT	1D4	80
JMTBADA	20		JMTN1FGC	1D8	8
JMTCOMCH	B8		JMTN1IPL	1D8	200
JMTGWORK	C0	0	JMTN1JIN	1D8	4000
JMTHCCT	14		JMTN1JNA	1D8	8000
JMTHCT	10		JMTN1JPX	1D8	80
JMTID	0	C8D1C3E3	JMTN1JST	1D8	100
JMTJASCB	A4		JMTN1JTR	1D8	2000
JMTJES2A	A0	0	JMTN1LNC	1D8	1
JMTJSINI	B9	80	JMTN1NNC	1D8	2
JMTJSTAT	B9		JMTN1NPM	1D8	4
JMTJSTRM	B9	40	JMTN1NSP	1D8	20
JMTJ2WAT	AC		JMTN1PEN	1D8	40
JMTLWTO	140		JMTN1PSP	1D8	10
JMTLWTOL	1AC	70	JMTN2AHL	1DA	1000
JMTMODMP	1C		JMTN2ANJ	1DA	200
JMTMONCB	18		JMTN2ANR	1DA	100
JMTMSD	B4		JMTN2BRT	1DA	40
JMTMWE	B0		JMTN2CDR	1DA	20
JMTMWT	BC		JMTN2CLO	1DA	2000
JMTNFLG1	1D4	8	JMTN2DST	1DA	80
JMTNLEN	1D4	C	JMTN2DUB	1DA	4000
JMTNMSK	1D4	0	JMTN2LIM	1DA	800
JMTNMSNX	1D4	50	JMTN2SIM	1DA	400
JMTNOTIC	1D8		JMTN2WDF	1DA	8000
JMTNOTMT	1D4		JMTOFSTB	8	
JMTNOT01	1D8		JMTPATCH	1E8	0
JMTNOT02	1DA		JMTPBRTL	1C4	
JMTNOT03	1DC		JMTPCKPH	1CC	
JMTNOT04	1DE		JMTPJOBL	1C8	
JMTNSIZ	1D4	5C	JMTPLCMD	1D0	
JMTNTXT	1D4	E	JMTPMAIN	1C0	
JMTN1ASP	1D8	400	JMTPROBC	1D0	5
JMTN1BOS	1D8	800	JMTPROBL	1C0	
JMTN1CRF	1D8	1000	JMTSIZE	3E8	3E8

Name	Hex Offset	Hex Value
JMTSSNM	A8	D1C5E2F2
JMTVRNUM	4	1
JMTVRSN	4	
JMTXTRAN	1B0	C0
JMTZEROS	60	0

$ICE Information

$ICE Programming Interface information

Programming Interface information

$ICE

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

- ICE#MSTR
- ICEACPTN
- ICEALCHN
- ICEAPCHN
- ICEFLAGS
- ICEFLGS2
- ICEFLGS3
- ICEFRZRC
- ICEINCT
- ICEINDEX
- ICEINHD
- ICEINLM
- ICEINTL
- ICELOST
- ICENJEF1
- ICENJEF2
- ICEOUTBF
- ICEOUTCT
- ICEOUTHD
- ICEOUTLM
- ICEOUTTL
- ICERCPTN
- ICERCVST
- ICERSPCT
- ICERULEN
- ICESDCT
- ICESNDST
- ICESTAT
- ICESUSFL
- ICETEA
- ICETNTRY
- ICETTIME
- ICEXRFBK
- ICEXTWRK

End of Programming Interface information

$ICE Heading Information

Common Name: Interface Control Element
Macro ID: $ICE
DSECT Name: ICE ICETNTRY
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: None
Storage Attributes: Subpool: 0
Key: 1
Residency: Virtual and real storage are above 16M, in the private storage of the JES2 address space.
Size: See ICESIZE
Created by: HASPIRRE
HASPSNA
Pointed to by: $ICELOST field of the $HCT data area
MDCTICE field of the $DCT data area
ICEAPCHN field of the $ICE data area
ICEALCHN field of the $ICE data area
ICETEMP field of the $ICE data area
MLMICEQ field of the $MLMWORK data area
MLMICEQ2 field of the $MLMWORK data area
MLMXICE field of the $MLMWORK data area
MLMWRKIQ field of the $MLMWORK data area
Serialization: Normal PCE dispatch serialization
Function: The ICE control block represents a VTAM session between JES2 and an NJE or RJE partner. The ICE is used to hold information about that session.

At the end of the ICE there is a rolling trace. Entries are added to this trace whenever a significant event occurs on this session. The trace entries are mapped by the ICETNTRY DSECT.

$ICE Map

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	0	ICE	INTERFACE CONTROL ELEMENT DSECT
0	(0)	BITSTRING	1	ICESTAT	ICE STATUS INDICATORS
		1...		ICEDRAIN	"B'10000000'" ICE DRAIN REQ PENDING
		.1..		ICEALLOC	"B'01000000'" ICE ALLOCATED INDICATOR
		..1.		ICETIMER	"B'00100000'" ICE AWAITING TIMER INTRPT
		...1		ICEHOLD	"B'00010000'" ICE TEMPORARY HOLD STATUS
		.... 1...		ICERTRPD	"B'00001000'" ICE AWAITING RTR STATUS
		.... .1..		ICERCVSP	"B'00000100'" ICE RECEIVE CS STATUS
		.... ..1.		ICEABORT	"B'00000010'" ICE ABORT INDICATOR
		1		ICECLOSE	"B'00000001'" ICE CLOSE INDICATOR
		1111 1111		ICEAVAIL	"B'11111111'" ICE AVAILABLE INDICATOR
1	(1)	BITSTRING	1	ICEFLAGS	SESSION STATUS INDICATORS
		1...		ICEINBND	"B'10000000'" SESSION INBOUND ALLOCATED HDX-FF
		.1..		ICEOUTBD	"B'01000000'" SESSION OUTBOUND ALLOCATED HDX-FF
		..1.		ICEREVFL	"B'00100000'" SESSION REVERSED DIRECTION HDX-FF
		...1		ICEINBRK	"B'00010000'" SESSION IN BRACKET STATE
		.... 1...		ICEBBPND	"B'00001000'" SESSION BB PENDING STATE
		.... .1..		ICEEBPND	"B'00000100'" SESSION EB PENDING STATE
		.... ..1.		ICECHDIR	"B'00000010'" SESSION CD PENDING STATE
		1		ICECNECT	"B'00000001'" SESSION IS CONNECTED (OPNDST)
		...1 11..		ICEBRCKT	"B'00011100'" BRACKET STATUS INDICATOR
2	(2)	BITSTRING	1	ICERCVST	RECEIVE PATH INDICATORS

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
3	(3)	BITSTRING	1	ICESNDST	SEND PATH INDICATORS
4	(4)	ADDRESS	1	ICEINDEX	SERVICE ROUTINE INDEX POINTER
5	(5)	ADDRESS	1	ICERSPCT	CNT OF OUTSTANDING RESPONSES
6	(6)	ADDRESS	2	ICERULEN	MAXIMUM REQUEST UNIT LENGTH
8	(8)	CHARACTER	8	ICESYMB	VTAM SYMBOLIC NAME OF TERMINAL
8	(8)	X'10'	0	ICETRCLN	"*-ICESTAT" Len. of ICE trace ID 5 info
16	(10)	BITSTRING	4	ICECID	VTAM COMMUNICATION IDENTIFIER
20	(14)	ADDRESS	4	ICEAPCHN	ADDR OF NEXT LOGGED ON ICE
24	(18)	ADDRESS	4	ICEALCHN	ADDR OF NEXT ALLOCATED ICE
28	(1C)	BITSTRING	1	ICESUSFL	ICE SUSPEND FLAG
		1...		ICESIMPL	"B'10000000'" IMPLIED SUSPEND WITHOUT FM HEADER
		.1..		ICESUSPD	"B'01000000'" SUSPEND IN PROGRESS. $WAIT NEEDED
29	(1D)	BITSTRING	1	ICEFRZRC	ICE FREEZE REASON CODE
29	(1D)	X'1'	0	ICEFRZAB	"1" ACTIVE BUFFER FOUND
29	(1D)	X'2'	0	ICEFRZNL	"2" NOT ON LOGON CHAIN
29	(1D)	X'3'	0	ICEFRZCR	"3" CRITICAL ERROR
29	(1D)	X'4'	0	ICEFRZRE	"4" HASPSICE RECOVERY
30	(1E)	BITSTRING	2		RESERVED
32	(20)	ADDRESS	2	ICEINLM	INBOUND QUEUE LIMIT
34	(22)	ADDRESS	2	ICEINCT	INBOUND QUEUE COUNTER
36	(24)	BITSTRING	1	ICEACPTN	COMPACTION TABLE NUMBER ACTIVE
37	(25)	BITSTRING	1	ICERCPTN	COMPACTION TABLE LAST REQUESTED
38	(26)	BITSTRING	1	ICEXRFBK	EXCEPTION RESPONSE FEEDBACK BITS
		1...		ICEXRDNA	"B'10000000'" DEST NOT ACCEPTING FURTHER DATA
		.1..		ICEXRCPY	"B'01000000'" DEST NOT HANDLING MULTIPLE COPIES
		..1.		ICENSXIT	"B'00100000'" NSXIT SCHEDULED FLAG
		...1		ICEQUIES	"B'00010000'" QUIESCE THEN SHUTDOWN FLAG
		.... 1...		ICERSTSR	"B'00001000'" RESETSR CS MODE RPL ISSUED
39	(27)	BITSTRING	1	ICE#MSTR	NUMBER OF MASTERS
40	(28)	ADDRESS	4	ICEINHD	INBOUND QUEUE HEAD BUFFER PTR
44	(2C)	ADDRESS	4	ICEINTL	INBOUND QUEUE TAIL BUFFER PTR
48	(30)	ADDRESS	2	ICEOUTLM	OUTBOUND QUEUE LIMIT
50	(32)	ADDRESS	2	ICEOUTCT	OUTBOUND QUEUE COUNTER
52	(34)	ADDRESS	4	ICEOUTBF	OUTBOUND OUTSTANDING BUFFER PTR
56	(38)	ADDRESS	4	ICEOUTHD	OUTBOUND QUEUE HEAD BUFFER PTR
60	(3C)	ADDRESS	4	ICEOUTTL	OUTBOUND QUEUE TAIL BUFFER PTR
64	(40)	ADDRESS	4	ICEADCT	ADDR OF ASSOCIATED LOGON DCT
68	(44)	ADDRESS	4	ICELDCT	ADDR OF ASSOCIATED LINE DCT
72	(48)	ADDRESS	4	ICERDCT	ADDR OF ASSOCIATED REMOTE DCT (RAT addr during autologon)
76	(4C)	ADDRESS	4	ICESDCT	ADDR OF FIRST SUSPND RJE DCT ADDR OF NEXT TO POST NJE DCT
80	(50)	ADDRESS	4	ICEBUFAD	ADDR OF CURRENLY SCHED BUFFER
84	(54)	ADDRESS	4	ICECPT	SESSION COMPACTION TABLE ADDR
88	(58)	ADDRESS	4	ICEDCPT	SESSION DECOMPACTION TABLE ADDR
92	(5C)	ADDRESS	4	ICEATE	ADDR OF SESS PARTNRS APT ENTRY
96	(60)	BITSTRING	4	ICEWTIME	SESSION ALLOC WAIT TIME STAMP
100	(64)	ADDRESS	4	ICECNTRS (0)	SESSION STATISTICS COUNTERS
100	(64)	ADDRESS	4	ICETOTAL	SESSION TOTAL SEND/REC COUNT
104	(68)	ADDRESS	4	ICEXRESP	SESSION EXECPTION RESP COUNT
108	(6C)	ADDRESS	4	ICELUSTA	SESSION LOG UNIT STATUS COUNT
112	(70)	ADDRESS	4	ICEBDREJ	SESSION BID REJECTED COUNT
116	(74)	ADDRESS	4	ICETEMP	SESSION TEMPORARY ERROR COUNT
120	(78)	BITSTRING	1	ICEFLGS2	SESSION STATUS FLAGS
		1...		ICEFREEZ	"B'10000000'" ICE FREEZE INDICATOR
		.1..		ICEBDS	"B'01000000'" BEGIN DESTINATION SEL. RCVD
		..1.		ICEEDS	"B'00100000'" END DESTINATION SEL. RECVD
		...1		ICESTATI	"B'00010000'" STATE ERROR DETECTED
		.... 1...		ICE1STLU	"B'00001000'" FIRST SESSION FOR SMF
		.... .1..		ICESIGNL	"B'00000100'" DATAFLOW INRPT PENDING
		.... ..1.		ICEOUTBK	"B'00000010'" DF INRPT OUTBD FOR OUTBD
		1		ICEBREAK	"B'00000001'" DATAFLOW BREAK PENDING
121	(79)	BITSTRING	1	ICENJEF1	NJE FLAG BYTE1-SESS START FLAG
		1...		ICENJE	"B'10000000'" ICE BEING USED BY NJE SESSION

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
		.1..		ICEPRIME	"B'01000000'" ICE REPRESENTS PRIMARY NJE APPL
		.... 1...		ICEFMHR4	"B'00001000'" NJE FMH (TYPE 4) RECEIVED
		.... .1..		ICEFMHRV	"B'00000100'" ALL NJE HDRS (INCLUDING TYPE 3 IF REQ'D) RECEIVED
		.... ..1.		ICEFMHS4	"B'00000010'" NJE FM HDR 4 SUCCESSFULLY SENT (+RSP TO HDR RECEIVED)
		1		ICEFMHST	"B'00000001'" ALL NJE HDRS (INCLUDING TYPE 3 IF REQ'D) SUCCESSFULLY SENT
122	(7A)	BITSTRING	1	ICENJEF2	NJE FLAG BYTE2-SESS SHTDWN FLAG
		1...		ICEQUIET	"B'10000000'" ORDERLY SHUTDOWN IN PROGRESS
		.1..		ICEUNBD	"B'01000000'" UNBIND RECEIVED FROM PLU
		..1.		ICERSHUT	"B'00100000'" REQUEST SHUTDOWN CONTROL RCVD
		...1		ICETERMS	"B'00010000'" TERMSESS ISSUED
		.... 1...		ICETSC	"B'00001000'" TERMSESS COMPLETE
		.... .1..		ICERCON	"B'00000100'" ICE ALLOCATED TO RCP
		.... ..1.		ICERSCN	"B'00000010'" RESCAN LINES FOR PASSWORD
123	(7B)	BITSTRING	1	ICEFLGS3	ADDITIONAL SESSION STATUS
		1...		ICE3SIMI	"B'10000000'" SIMLOGON ISSUED
		.1..		ICE3SIMA	"B'01000000'" SIMLOGON ACCEPTED
		..1.		ICE3SIMC	"B'00100000'" SIMLOGON COMPLETE
		...1		ICE3LOGX	"B'00010000'" LOGON EXIT18 INVOKED
		.... 1...		ICE3RATA	"B'00001000'" ICERDCT FIELD CONTAINS A RAT ADDRESS
		.... .1..		ICE3WINC	"B'00000100'" Wait for inbound buffer count to go to zero
124	(7C)	BITSTRING	40	ICEBAREA (0)	BIND/NSP DATA AREA
124	(7C)	BITSTRING	36	ICEBIND	SESSION BIND IMAGE
160	(A0)	BITSTRING	4		Additional space for NSP
164	(A4)	ADDRESS	4	ICELOST	Chain of frozen ICEs
168	(A8)	DBL WORD	8	ICEXTWRK (0)	VTAM EXIT ROUTINE WORK AREA
168	(A8)	SIGNED	4	ICEXTWCD (0)	VTAM EXIT ROUT ACTION CODE WORD
168	(A8)	BITSTRING	3		RESERVED
171	(AB)	BITSTRING	1	ICEXTCOD	VTAM EXIT ROUTINE ACTION CODE
172	(AC)	ADDRESS	4	ICEXTCHN	VTAM EXIT ROUTINE ICE CHAIN
176	(B0)	CHARACTER	8	ICELMODE	VTAM LOGMODE
184	(B8)	DBL WORD	8	ICECLR (0)	End of area to be cleared when ICE is initialized

Comment

ICE Trace area
This trace area is updated regularly with activity related to this ICE. ICETEA is the address of the current (last used) trace area. The trace wraps when it reaches the end.

End of Comment

184	(B8)	X'C'	0	ICETNUM	"12" Number of entries in trace
184	(B8)	ADDRESS	4	ICETEA	Addr of current trace entry
188	(BC)	SIGNED	4		Reserved
192	(C0)	DBL WORD	8	ICETTIME	Time of last trace
200	(C8)	DBL WORD	8	ICET1ST (0)	First trace entry
200	(C8)	BITSTRING	0	(0)	Actual trace entries
848	(350)	BITSTRING	1	ICETEND (0)	End of ICE trace table
848	(350)	DBL WORD	8	(0)	Double word align ICE
848	(350)	X'350'	0	ICESIZE	"*-ICE" LENGTH OF ICE DSECT

Comment

ICERCVST/ICESNDST

End of Comment

		1111	ICEDSTRM	"B'11110000'" STATE MASK
		....	ICERESUM	"B'00000000'" RESUME SUSPENDED DATA SET
		...1	ICENMEND	"B'00010000'" NORMAL END OF DATA SET
		..1.	ICEBEGIN	"B'00100000'" BEGINNING OF DATA SET
		..11	ICEODS	"B'00110000'" BEGIN/END OF DATA SET

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
		.1..		ICESPEND	"B'01000000'" SUSPEND DATA SET
		.1.1		ICEABEND	"B'01010000'" ABORT DATA SET (NO RESUME)
		.11.		ICECONT	"B'01100000'" CONTINUE DESTINATION
		.111		ICESTRS1	"B'01110000'" RESERVED
		1...		ICESTRS2	"B'10000000'" RESERVED
		1..1		ICESTRS3	"B'10010000'" RESERVED
		1.1.		ICESTRS4	"B'10100000'" RESERVED
		1.11		ICESTRS5	"B'10110000'" RESERVED
		11..		ICESTRS6	"B'11000000'" RESERVED
		11.1		ICESTRS7	"B'11010000'" RESERVED
		111.		ICENOFMH	"B'11100000'" DATAFLOW HAS NO FMH PENDING
		1111		ICEINSTR	"B'11110000'" DATAFLOW NO FMH PEND
		.... 1...		ICEINCHN	"B'00001000'" DATAFLOW IN CHAIN STATE
		.... .1..		ICEOCPND	"B'00000100'" DATAFLOW EOC PEND STATE
		.... ..1.		ICECNCEL	"B'00000010'" DATAFLOW CHAIN CANCELED
		1		ICEWTRSP	"B'00000001'" DATAFLOW WAITING FOR RESPONSE

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	0	ICETNTRY	, ICE trace entry DSECT
0	(0)	SIGNED	2	ICETTYPE (0)	Trace identifier
0	(0)	BITSTRING	1	ICETID1	Trace identifier 1
0	(0)	X'1'	0	ICETBUF	"1" Buffer end proc
0	(0)	X'2'	0	ICETICE	"2" ICE exit processing
0	(0)	X'3'	0	ICETPEND	"3" TPEND exit processing
0	(0)	X'4'	0	ICETSRMT	"4" Start Remote
0	(0)	X'5'	0	ICETERPL	"5" Execute RPL
0	(0)	X'6'	0	ICETFBUF	"6" Buffer free
0	(0)	X'7'	0	ICETSSAL	"7" Autolog SAF completion
1	(1)	BITSTRING	1	ICETID2	Trace identifier 2 (Meaning based on id 1)
1	(1)	X'2'	0	ICETCLC1	"*-ICETNTRY" Length for compare
2	(2)	SIGNED	2	ICETSEQ	Trace sequence number
4	(4)	BITSTRING	1	ICETREST (0)	Used to skip SEQ in CLC

Comment

ICE status fields

End of Comment

4	(4)	BITSTRING	1	ICETSTAT	ICESTAT
5	(5)	BITSTRING	1	ICETFLGS	ICEFLAGS
6	(6)	BITSTRING	1	ICETRCTS	ICERCVST
7	(7)	BITSTRING	1	ICETSNDS	ICESNDST
8	(8)	BITSTRING	1	ICETINDX	ICEINDEX
9	(9)	BITSTRING	2	ICETCID	ICECID+2
11	(B)	BITSTRING	1	ICETSUSF	ICESUSFL
12	(C)	BITSTRING	1	ICETFLG2	ICEFLGS2
13	(D)	BITSTRING	1	ICETFLG3	ICEFLGS3
14	(E)	BITSTRING	1	ICETNJF1	ICENJEF1
15	(F)	BITSTRING	1	ICETNJF2	ICENJEF2

Comment

RPL status fields (if no RPL then all fields are X'FF')

End of Comment

16	(10)	ADDRESS	4	ICETRPLA	RPL address

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
20	(14)	BITSTRING	1	ICETRREQ	RPLREQ
21	(15)	BITSTRING	1	ICETSRTY	RPLSRTYP
22	(16)	BITSTRING	2	ICETSEQN	RPLSEQNO
24	(18)	BITSTRING	1	ICETVFL2	RPLVTFL2
25	(19)	BITSTRING	3	ICETCNTR	RPLCNTRL
28	(1C)	BITSTRING	1	ICETCHN	RPLCHN
29	(1D)	BITSTRING	1	ICETRH3	RPLRH3
30	(1E)	BITSTRING	1	ICETRTNC	RPLRTNCD
31	(1F)	BITSTRING	1	ICETFDB2	RPLFDB2
32	(20)	BITSTRING	4	ICETFDBK	RPLFDBK2
36	(24)	BITSTRING	1	ICETRWHH	RPLWHRCH
37	(25)	BITSTRING	1	ICETRWH2	RPLWHRC2

Comment

LOGON DCT fields (if no DCT then all fields are X'FF')

End of Comment

38	(26)	BITSTRING	1	ICETASTA	Logon DCTSTAT
39	(27)	BITSTRING	1	ICETAFLS	Logon DCTFLAGS
40	(28)	BITSTRING	1	ICETAFL2	Logon DCTFLAG2
41	(29)	BITSTRING	1	ICETAMST	Logon MDCTSTAT

Comment

LINE DCT fields (if no DCT then all fields are X'FF')

End of Comment

42	(2A)	BITSTRING	1	ICETLSTA	Line DCTSTAT
43	(2B)	BITSTRING	1	ICETLFLS	Line DCTFLAGS
44	(2C)	BITSTRING	1	ICETLFL2	Line DCTFLAG2
45	(2D)	BITSTRING	1	ICETLMST	Line MDCTSTAT

Comment

DEVICE DCT fields (if no device DCT - ICERDCT - then all fields are X'FF')

End of Comment

46	(2E)	BITSTRING	1	ICETRSTA	Device DCTSTAT
47	(2F)	BITSTRING	1	ICETRFLS	Device DCTFLAGS
48	(30)	BITSTRING	1	ICETRFL2	Device DCTFLAG2
49	(31)	BITSTRING	1	ICETRDID	Device DCTDEVID

Comment

ICETCNT is a count of the number of events which have occured which would have created trace entries which were identical except for the sequence number. The trace entry contains the most recent sequence number.

End of Comment

52	(34)	BITSTRING	1		Reserved for future

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
52	(34)	X'31'	0	ICETCLC2	"*-ICETREST" Length for compare
53	(35)	BITSTRING	1	ICETCNT	Count of duplicate traces
53	(35)	X'36'	0	ICETEALN	"*-ICETNTRY" Length of a single entry

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	0	ICE	Re-establish ICE DSECT

$ICE Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
ICE	0		ICEINBRK	1	10
ICE	0		ICEINCHN	350	8
ICE#MSTR	27		ICEINCT	22	
ICEABEND	350	50	ICEINDEX	4	
ICEABORT	0	2	ICEINHD	28	
ICEACPTN	24	0	ICEINLM	20	
ICEADCT	40		ICEINSTR	350	F0
ICEALCHN	18		ICEINTL	2C	
ICEALLOC	0	40	ICELDCT	44	
ICEAPCHN	14		ICELMODE	B0	40404040
ICEATE	5C		ICELOST	A4	
ICEAVAIL	0	FF	ICELUSTA	6C	
ICEBAREA	7C		ICENJE	79	80
ICEBBPND	1	8	ICENJEF1	79	0
ICEBDREJ	70		ICENJEF2	7A	0
ICEBDS	78	40	ICENMEND	350	10
ICEBEGIN	350	20	ICENOFMH	350	E0
ICEBIND	7C	0	ICENSXIT	26	20
ICEBRCKT	1	1C	ICEOCPND	350	4
ICEBREAK	78	1	ICEODS	350	30
ICEBUFAD	50		ICEOUTBD	1	40
ICECHDIR	1	2	ICEOUTBF	34	
ICECID	10	0	ICEOUTBK	78	2
ICECLOSE	0	1	ICEOUTCT	32	
ICECLR	B8		ICEOUTHD	38	
ICECNCEL	350	2	ICEOUTLM	30	
ICECNECT	1	1	ICEOUTTL	3C	
ICECNTRS	64		ICEPRIME	79	40
ICECONT	350	60	ICEQUIES	26	10
ICECPT	54		ICEQUIET	7A	80
ICEDCPT	58		ICERCON	7A	4
ICEDRAIN	0	80	ICERCPTN	25	0
ICEDSTRM	350	F0	ICERCVSP	0	4
ICEEBPND	1	4	ICERCVST	2	0
ICEEDS	78	20	ICERDCT	48	
ICEFLAGS	1	0	ICERESUM	350	0
ICEFLGS2	78	0	ICEREVFL	1	20
ICEFLGS3	7B	0	ICERSCN	7A	2
ICEFMHRV	79	4	ICERSHUT	7A	20
ICEFMHR4	79	8	ICERSPCT	5	
ICEFMHST	79	1	ICERSTSR	26	8
ICEFMHS4	79	2	ICERTRPD	0	8
ICEFREEZ	78	80	ICERULEN	6	
ICEFRZAB	1D	1	ICESDCT	4C	
ICEFRZCR	1D	3	ICESIGNL	78	4
ICEFRZNL	1D	2	ICESIMPL	1C	80
ICEFRZRC	1D		ICESIZE	350	350
ICEFRZRE	1D	4	ICESNDST	3	0
ICEHOLD	0	10	ICESPEND	350	40
ICEINBND	1	80	ICESTAT	0	0

Name	Hex Offset	Hex Value
ICESTATI	78	10
ICESTRS1	350	70
ICESTRS2	350	80
ICESTRS3	350	90
ICESTRS4	350	A0
ICESTRS5	350	B0
ICESTRS6	350	C0
ICESTRS7	350	D0
ICESUSFL	1C	
ICESUSPD	1C	40
ICESYMB	8	40404040
ICETAFLS	27	0
ICETAFL2	28	0
ICETAMST	29	0
ICETASTA	26	0
ICETBUF	0	1
ICETCHN	1C	0
ICETCID	9	0
ICETCLC1	1	2
ICETCLC2	34	31
ICETCNT	35	0
ICETCNTR	19	0
ICETEA	B8	
ICETEALN	35	36
ICETEMP	74	
ICETEND	350	
ICETERMS	7A	10
ICETERPL	0	5
ICETFBUF	0	6
ICETFDBK	20	0
ICETFDB2	1F	0
ICETFLGS	5	0
ICETFLG2	C	0
ICETFLG3	D	0
ICETICE	0	2
ICETID1	0	
ICETID2	1	
ICETIMER	0	20
ICETINDX	8	0
ICETLFLS	2B	0
ICETLFL2	2C	0
ICETLMST	2D	0
ICETLSTA	2A	0
ICETNJF1	E	0
ICETNJF2	F	0
ICETNTRY	0	
ICETNUM	B8	C
ICETOTAL	64	
ICETPEND	0	3
ICETRCLN	8	10
ICETRCTS	6	0
ICETRDID	31	0
ICETREST	4	
ICETRFLS	2F	0
ICETRFL2	30	0
ICETRH3	1D	0
ICETRPLA	10	
ICETRREQ	14	0
ICETRSTA	2E	0
ICETRTNC	1E	0
ICETRWHH	24	0
ICETRWH2	25	0
ICETSC	7A	8
ICETSEQ	2	
ICETSEQN	16	0
ICETSNDS	7	0
ICETSRMT	0	4
ICETSRTY	15	0
ICETSSAL	0	7
ICETSTAT	4	0
ICETSUSF	B	0
ICETTIME	C0	
ICETTYPE	0	
ICETVFL2	18	0
ICET1ST	C8	
ICEUNBD	7A	40
ICEWTIME	60	0
ICEWTRSP	350	1
ICEXRCPY	26	40
ICEXRDNA	26	80
ICEXRESP	68	
ICEXRFBK	26	0
ICEXTCHN	AC	
ICEXTCOD	AB	0
ICEXTWCD	A8	
ICEXTWRK	A8	
ICE1STLU	78	8
ICE3LOGX	7B	10
ICE3RATA	7B	8
ICE3SIMA	7B	40
ICE3SIMC	7B	20
ICE3SIMI	7B	80
ICE3WINC	7B	4

$INIWARM Information

$INIWARM Heading Information

Common Name: HASPIR* to HASPWARM Communications block.
Macro ID: $INIWARM
DSECT Name: INW
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: INIW
Offset: INWID
Length: 4
Storage Attributes: Subpool: 0
Key: 1
Residency: Real and virtual anywhere
Size: See INWSIZE
Created by: HASPIRA
Pointed to by: $INIWARM field of the $HCT data area
Serialization: None necessary. HASPIR* modules are only modules updating the area.
Function: There is data and circumstances uncovered by initialization modules which need to be known by warmstart. The warmstart PCE is created late in initialization and thus is unavailable for storing the data. The initialization PCE is removed after initialization completes and thus is unavailable to warmstart. This block fills the gap.

$INIWARM Map

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	0	INW	,
0	(0)	CHARACTER	4	INWID	Eye catcher
4	(4)	BITSTRING	200	INWQSE	Qse for this member that existed before initialization began
204	(CC)	BITSTRING	1	INWFLAG1	Flags
		.1..		INW1BRTD	"B'01000000'" BERT $DISTERR issued
205	(CD)	ADDRESS	4	INDOM493	DOM id for HASP493 issued from initialization
212	(D4)	ADDRESS	4	INWBRTMP	BERT usage map
Comment					

The TSUCLASS, STCCLASS and JOBCLASS defaults are mapped by the Converter parameter list, IEFCNPRM. The following data definitions are copied from $CIRWORK in case installation processing wants to change the default values. $ADD JOBCLASS uses these values post initialization.					

End of Comment					
216	(D8)	CHARACTER	24	INWROPSL	TSUCLASS defaults
240	(F0)	CHARACTER	24	INWROPST	STCCLASS defaults
264	(108)	CHARACTER	24	INWROPSU	JOBCLASS defaults

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
				Comment	
		If there is a STEPLIB in the JES2 PROC, INWSTEPL points to a data area that contains the data sets in the STEPLIB concatenation. This area is mapped using the INIDSN mapping below.			
				End of Comment	
288	(120)	ADDRESS	4	INWSTEPL	STEPLIB data set info
				Comment	
		The following maps the initialization data sets used when JES2 was started and the number of cards read from each. This area is mapped using the INIDSN mapping below.			
				End of Comment	
292	(124)	ADDRESS	4	INWDECKL	Init deck info address
				Comment	
		Command used to start JES2			
				End of Comment	
296	(128)	CHARACTER	126	INWSTRCM	Command used to start JES2
424	(1A8)	DBL WORD	8	(0)	Ensure alignment
424	(1A8)	X'1A8'	0	INWSIZE	"*-INW" Length of INIWARM

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	0	INIDSN	, Data set list header
0	(0)	CHARACTER	4	IDSNID	Eyecatcher
4	(4)	SIGNED	4	IDSNLEN	Total length of area
8	(8)	ADDRESS	4	IDSNFRST	First data set number
12	(C)	ADDRESS	4	IDSNLAST	and last data set number
16	(10)	CHARACTER	8	IDSNTYPE	Type of data sets
24	(18)	DBL WORD	8	IDSNSTRT (0)	Start of DSN list
24	(18)	BITSTRING	18432	(0)	Default number of entries
18456	(4818)	DBL WORD	8	(0)	End of header
18456	(4818)	X'4818'	0	IDSNSIZE	"*-INIDSN" Default area length

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	0	INIDSNE	, Data set list entry
0	(0)	CHARACTER	54	IDSENAME (0)	Data set name (and member)
0	(0)	CHARACTER	44	IDSEDSN	Data set name
44	(2C)	CHARACTER	10	IDSEMEMA (0)	Member area
44	(2C)	CHARACTER	1	IDSEMEMO	Open parenthesis
45	(2D)	CHARACTER	8	IDSEMEMB	Member name
53	(35)	CHARACTER	1	IDSEMEMC	Close parenthesis
54	(36)	BITSTRING	6	IDSEVOL	First VOLSER
60	(3C)	BITSTRING	8	IDSEUNIT	First UNIT address
68	(44)	SIGNED	4	IDSECNT	Type dependent count
72	(48)	DBL WORD	8	(0)	Alignment
72	(48)	X'48'	0	IDSESIZE	"*-INIDSNE" Data set entry length

$INIWARM Cross Reference

Name	Hex Offset	Hex Value
IDSECNT	44	
IDSEDSN	0	
IDSEMEMA	2C	
IDSEMEMB	2D	
IDSEMEMC	35	
IDSEMEMO	2C	
IDSENAME	0	
IDSESIZE	48	48
IDSEUNIT	3C	
IDSEVOL	36	
IDSNFRST	8	
IDSNID	0	C9C4E2D5
IDSNLAST	C	
IDSNLEN	4	
IDSNSIZE	4818	4818
IDSNSTRT	18	
IDSNTYPE	10	
INDOM493	CD	
INIDSN	0	
INIDSNE	0	
INW	0	
INWBRTMP	D4	
INWDECKL	124	
INWFLAG1	CC	
INWID	0	C9D5C9E6
INWQSE	4	
INWROPSL	D8	F0F0F0F0
INWROPST	F0	F0F0F0F0
INWROPSU	108	F0F0F0F0
INWSIZE	1A8	1A8
INWSTEPL	120	
INWSTRCM	128	
INW1BRTD	CC	40

$IOT Information

$IOT Programming Interface information

Programming Interface information

$IOT

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

- IOTTGADR

End of Programming Interface information

$IOT Heading Information

Common Name: JES2 Input/Output Table
Macro ID: $IOT
DSECT Name: IOT
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: IOT
Offset: IOTID-IOT
Length: L'IOTID
Storage Attributes: Subpool: 0 for Main Task, 230 for User Environment, 231 for Spin IOT.
Key: 1 for Main Task, 5 for User Environment, 1 for Spin IOT.
Residency: The $IOT is a JES2 spool resident control block. Real and virtual storage can be anywhere (above or below 16M).
Size: See IOTLENG
Created by: Primary Allocation IOT - Most commonly created at reader time (HASPRDR), but also created dynamically when spin data sets are allocated.
Secondary Allocation IOT - $TRACK routine in HASPTRAK and $STRAK routine in HASCSRIC as are needed.
PDDB only IOT - HASPNET, HASPRDR, HASCDSAL or HASCJBST.
Pointed to by: CHKIOTTC field of the $CHK data area (addr on spool)
GCBIOTTR field of the $GCB data area (addr on spool)
CCTSPIOT field of the $HCCT data area (LIFO spin Q)
CCTSPIOT field of the $HCCT data area (FIFO spin Q)
$NEWSIOT field of the $HCT data area (addr on spool)
JCTSPIOT field of the $JCT data area (addr on spool)
JCTIOT field of the $JCT data area (addr on spool)
JIBIOT field of the $JIB data area
JIBIOTTR field of the $JIB data area (addr on spool)
JIBFIOTR field of the $JIB data area (addr on spool)
JNEWIOTT field of the $JNEW data area (addr on spool)
JOEIOTTR field of the $JOE data area (addr on spool)
JQETRAK field of the $JQE data area (addr on spool)
MTLMTTR field of the $MTL data area (addr on spool)
PDBPLIOT field of the $PDDB data area
PDBSPTTR field of the $PDDB data area (addr on spool)
PSOIOT field of the $PSO data area (addr on spool)
PSOANCHR field of the $PSO data area (addr on spool)
SDBPIOT field of the $SDB data area
SDBAIOT field of the $SDB data area
SJBIOT field of the $SJB data area
SJBSPIOT field of the $SJB data area
SJXBSIOT field of the $SJXB data area
SJXRIOT field of the $SJXB data area
TABAIOT field of the $TAB data area
Various fields in the processor work areas and parameter lists.
Serialization: While a job is in execution, the IOT resides in the user address space, so that no other JES2 PCE will update the IOT. At other times, various types of serialization are used for the different types of IOTs. ENQ/DEQ logic is used for Secondary Allocation IOTs. Compare-and-swap logic is used for Spin IOTs.

Function: The IOT is a spool resident control block that describes the spool space used by a job (all the space allocated to data sets, control blocks, etc.). It also holds the information on the job's data sets.

$IOT Map

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	0	IOT	HASP INPUT/OUTPUT TABLE DSECT
				Comment	

				The following fields are defined over the buffer prefix in order to ensure that they are never written to SPOOL.	

				BUFMEMD1, BUFMEMW1, BUFMEMW2, BUFMEMW3, and BUFMEMW5 are used by HAM when writing out IOTs for SYSOUT data sets. They cannot be used in the IOT if it could be written by HASCHAM.	
				End of Comment	
0	(0)	X'3C'	0	IOTJOE	"BUFMEMD1-BFPDSECT+4+IOT,4" Offset of JOE for SPIN IOT while in HASPSPIN
0	(0)	X'50'	0	IOTFLAG4	"BUFMFLG1-BFPDSECT+IOT,1" Fourth flag byte (memory resident only)
0	(0)	X'80'	0	IOT4CKPT	"BUFM1CKP" Rewrite this IOT
0	(0)	X'51'	0	IOTFLAG5	"BUFMEMF2-BFPDSECT+IOT,1" Fifth flag byte (memory resident only)
0	(0)	X'80'	0	IOT5CSDB	"BFD2CSDB" B'10000000' Write IOT in HAM (under the SDB)
0	(0)	X'40'	0	IOT5CSFR	"BFD2CSFR" B'01000000' HAM CEA should free IOT
0	(0)	X'10'	0	IOT5IOE	"BFD2IOE" B'00010000' I/O error (HAM PUT only)
0	(0)	X'38'	0	IOTCSASP	"BUFMEMD1-BFPDSECT+IOT,4" CSA spin IOT chain pointer
0	(0)	X'58'	0	IOTJCT	"BUFMEMW6-BFPDSECT+IOT,4" Storage address of JCT (referenced only in allocation IOTs)
0	(0)	X'5C'	0	IOTIOT	"BUFMEMW7-BFPDSECT+IOT,4" Storage address of next IOT
0	(0)	X'64'	0	IOTBWP	"BUFWRTBK-BFPDSECT+IOT,4" Storage address of prev IOT
				Comment	

				The following fields are used ONLY in the CSA SPIN IOT. They can be used because the only buffer prefix field used in the CSA queued SPIN IOT is the CSA chaining field.	

				End of Comment	
24	(18)	CHARACTER	8	IOTNTEYE	Eye catcher
32	(20)	CHARACTER	32	IOTNOTPL	Parm list storage for $HNOTIFY call from DSAL
				Comment	

				End of buffer prefix fields	

				End of Comment	
0	(0)	BITSTRING	1	(0)	BUFFER CONTROL INFORMATION
0	(0)	X'68'	0	IOTSTART	"*" START OF DATA WRITTEN TO SPOOL

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

		The following sub-section, generated by the SPID macro, must reside immediately after the I/O control data in every spool buffer. The following fields are defined: Eyecatcher - 4 bytes Job name - 8 bytes Job number - 4 bytes Job key - 4 bytes Dataset key - 4 bytes (or reserved if not applicable)			

			End of Comment		
104	(68)	CHARACTER	4	IOTID	Eyecatcher
108	(6C)	CHARACTER	8	IOTJNAME	Job name
116	(74)	SIGNED	4	IOTJBNUM	Job number
120	(78)	SIGNED	4	IOTJBKEY	Job key
124	(7C)	BITSTRING	4		Reserved
124	(7C)	X'18'	0	IOTSPLNG	"*-IOTID"
128	(80)	ADDRESS	2	IOTLENG	LENGTH OF IOT INCLUDING PREFIX
130	(82)	BITSTRING	1	IOTFLAG1	FIRST FLAG BYTE
131	(83)	BITSTRING	1	IOTFLAG2	SECOND FLAG BYTE
132	(84)	BITSTRING	4	IOTTRACK	TRACK ADDRESS OF THIS IOT
136	(88)	BITSTRING	4	IOTIOTTR	TRACK ADDRESS OF NEXT IOT
			Comment		

		IOTMTHER is the allocation IOT associated with the PDDBs in this IOT. It is the job allocation IOT in non-spin PDDB-only IOTs, and the spin 'mother' IOT in spin-daughter PDDB IOTs. It is zero in the job (primary) allocation IOT and spin mother (primary) allocation IOTs and in secondary allocation IOTs. IOTMTHER is not normally set until JOEs are built that point, via JOTIOTTR, to the IOT.			

			End of Comment		
140	(8C)	SIGNED	4	IOTMTHER	MTTR of mother alloc IOT
144	(90)	SIGNED	4	IOTMULTR	MTTR of Multiple Output Charact- eristic (MOC) spool chain
148	(94)	SIGNED	4		Reserved
140	(8C)	BITSTRING	6	IOTPRMQT	MQTR of primary alloc IOT
146	(92)	BITSTRING	2		Reserved
148	(94)	BITSTRING	4	IOTTGATR	TRACK ADDRESS OF NEXT SECONDARY ALLOCATION IOT
152	(98)	SIGNED	2	IOTTGOFL	Offset of 1st MQT Version 1 IOTs only. Must be zero in version 0 IOTs
154	(9A)	SIGNED	2	IOTTGOFF	Offset of free TGAE space
156	(9C)	SIGNED	4	IOTJQOFF	JQE OFFSET
160	(A0)	BITSTRING	1	IOTFLAG3	Third flag byte
			Comment		
		IOTFLAG3			
			End of Comment		
		1...		IOT3NUTK	"B'10000000'" New track obtained after a close failure
		.1..		IOT3MOCF	"B'01000000'" Mother instance counting has failed

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
				Comment	
				TGAEs in IOTs come in 3 flavors. Version 0 - Old style IOT with all TGAEs being 3 bytes in length Version 1 - An IOT that started off as a version 0 IOT with 3 byte TGAEs but an M of X'FF' was added to convert remaining TGAEs to 5 byte TGAEs Version 2 - An IOT with all 5 byte TGAEs	
				End of Comment	
161	(A1)	BITSTRING	1	IOTVER	IOT Version number
161	(A1)	X'0'	0	IOTVER0	"0" Vrsn 0 IOT (short TGAEs)
161	(A1)	X'1'	0	IOTVER1	"1" Vrsn 1 IOT (Mixed TGAEs)
161	(A1)	X'2'	0	IOTVER2	"2" Vrsn 2 IOT (long TGAEs)
162	(A2)	BITSTRING	2		Reserved for future use
164	(A4)	SIGNED	4	(2)	Reserved for future use
172	(AC)	SIGNED	4	IOTPDDBP	OFFSET BEYOND LAST PDDB IN IOT
176	(B0)	SIGNED	4	IOTPDDB	OFFSET TO FIRST PDDB IN IOT
180	(B4)	SIGNED	4	IOTDSCT	Offset of DSCT in IOT
184	(B8)	BITSTRING	4	IOTCKRC	MTTR OF CHK SPL REC - SPIN IOTS
188	(BC)	SIGNED	4	IOTMUCTR	Multiple Output Characteristics (MOC) Counter
192	(C0)	SIGNED	4	IOTCKTKN	Checkpoint token for spin data sets
196	(C4)	CHARACTER	8	IOTUSER	Userid which allocated datasets in this IOT (Only set by spool reload)
208	(D0)	DBL WORD	8		Reserved for future use
				Comment	
				ALLOCATION IOT (BOTH PRIMARY AND SECONDARY)	
				End of Comment	
216	(D8)	DBL WORD	8	IOTMSTAB (0)	MASTER TAB (DWORD ALIGNED FOR CDS ON TABMTTR)
228	(E4)	SIGNED	4		Reserved
232	(E8)	DBL WORD	8	(0)	ALIGN FOLLOWING DOUBLEWORD
232	(E8)	SIGNED	4	IOTCYMXM	MAX TTR THIS TRACK GROUP
236	(EC)	SIGNED	4	IOTCELL	MTTR OF NEXT AVAILABLE TRAKCELL
236	(EC)	X'E8'	0	IOTRCPBA	"IOTCYMXM,*-IOTCYMXM" BACK-UP AREA FOR RCPXTTR FOR MAS SPOOL MESSAGES IN RTAM
240	(F0)	BITSTRING	32	IOTSPMSK	MASK OF SPOOLS ALLOCATED ON
272	(110)	BITSTRING	32	IOTSAMSK	SPOOLS ALLOWED MASK
304	(130)	SIGNED	3	IOTFAMLY	Family ID for MOCA IOTs
307	(133)	BITSTRING	1		Reserved for future use
308	(134)	ADDRESS	4		Reserved for future use
312	(138)	DBL WORD	8		Reserved for future use
312	(138)	X'3'	0	IOTTGAEL	"3" Length of short TGAE (MTT)
312	(138)	X'5'	0	IOTTGA2L	"5" Long TGAE length (MQT)
312	(138)	X'140'	0	IOTTGAE	"*" START OF TRACK GROUP ALLOCATION ENTRIES (TGAE'S)
				Comment	
				NON-ALLOCATION IOT (PDDB IOT)	
				End of Comment	
216	(D8)	DBL WORD	8	(2)	RESERVED FOR FUTURE USE
232	(E8)	SIGNED	4	IOTPDDB1 (0)	FIX IOT OFFSET TO LOCATION OF FIRST PDDB WITHIN A PDDB IOT

$IOT Cross Reference

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
				Comment	
		IOTFLAG1			
				End of Comment	
		.1..		IOT1UNSP	"B'01000000'" IOT IS UNSPUN
		..1.		IOT1ALO2	"B'00100000'" IOT IS SECONDARY ALLOCATION IOT
		...1		IOT1SPIN	"B'00010000'" IOT TYPE IS SPIN
		.... 1...		IOT1ALOC	"B'00001000'" IOT IS AN ALLOCATION IOT
		.... .1..		IOT1NTPR	"B'00000100'" TO BE PROC. BY SPIN/HOLD
		.... ..1.		IOT1NEWS	"B'00000010'" JESNEWS IOT
		1		IOT1NEW	"B'00000001'" 2NDARY ALLOC IOT HAS BEEN BUILT
				Comment	
		IOTFLAG2			
				End of Comment	
		1...		IOT2UNAL	"B'10000000'" IOT HAS BEEN UNALLOCATED
		.1..		IOT2RUBL	"B'01000000'" IOT IS REUSABLE
		..1.		IOT2RUED	"B'00100000'" IOT HAS BEEN REUSED
		...1		IOT2NLPL	"B'00010000'" IOT CONTAINS ONLY NULL PLACEHOLDER PDDBS
		.... 1...		IOT2NSPN	"B'00001000'" SPIN IOT WAS UNALLOCATED AS NO-SPIN
		.... .1..		IOT2DSCT	"B'00000100'" DSCT contains valid info
		.... ..1.		IOT2SPNB	"B'00000010'" IOT is busy in HASPSPIN
		1		IOT2SPER	"B'00000001'" I/O error incurred writing IOT

$IOT Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
IOT	0		IOTPDDBP	AC	
IOTBWP	0	64	IOTPDDB1	E8	
IOTCELL	EC		IOTPRMQT	8C	
IOTCKRC	B8		IOTRCPBA	EC	E8
IOTCKTKN	C0		IOTSAMSK	110	
IOTCSASP	0	38	IOTSPLNG	7C	18
IOTCYMXM	E8		IOTSPMSK	F0	
IOTDSCT	B4		IOTSTART	0	68
IOTFAMLY	130		IOTTGAE	138	140
IOTFLAG1	82		IOTTGAEL	138	3
IOTFLAG2	83		IOTTGATR	94	
IOTFLAG3	A0		IOTTGA2L	138	5
IOTFLAG4	0	50	IOTTGOFF	9A	
IOTFLAG5	0	51	IOTTGOFL	98	
IOTID	68		IOTTRACK	84	
IOTIOT	0	5C	IOTUSER	C4	
IOTIOTTR	88		IOTVER	A1	
IOTJBKEY	78		IOTVER0	A1	0
IOTJBNUM	74		IOTVER1	A1	1
IOTJCT	0	58	IOTVER2	A1	2
IOTJNAME	6C		IOT1ALOC	140	8
IOTJOE	0	3C	IOT1ALO2	140	20
IOTJQOFF	9C		IOT1NEW	140	1
IOTLENG	80		IOT1NEWS	140	2
IOTMSTAB	D8		IOT1NTPR	140	4
IOTMTHER	8C		IOT1SPIN	140	10
IOTMUCTR	BC		IOT1UNSP	140	40
IOTMULTR	90		IOT2DSCT	140	4
IOTNOTPL	20		IOT2NLPL	140	10
IOTNTEYE	18		IOT2NSPN	140	8
IOTPDDB	B0		IOT2RUBL	140	40

Name	Hex Offset	Hex Value
IOT2RUED	140	20
IOT2SPER	140	1
IOT2SPNB	140	2
IOT2UNAL	140	80
IOT3MOCF	A0	40
IOT3NUTK	A0	80
IOT4CKPT	0	80
IOT5CSDB	0	80
IOT5CSFR	0	40
IOT5IOE	0	10

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