

z/OS



# JES2 Data Areas

## Volume 2



z/OS



# JES2 Data Areas Volume 2

**Note**

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

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This edition applies to Version 1 Release 13 of z/OS (5694-A01) and to all subsequent releases and modifications until otherwise indicated in new editions.

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## About this information

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

- Programming interfaces
- Needed for debugging or diagnosis.

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

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## Who should use this information

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

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## 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:

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

- 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:

<b>Name</b>	The name of the field, bit, or mask.
<b>Hex Offset</b>	The hexadecimal offset of the field into the data area. For bits, the hexadecimal offset of the field containing the bit.
<b>Hex Value</b>	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:

<b>Name</b>	<b>Hex Offset</b>	<b>Hex Value</b>
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.

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## 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.



## \$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

## \$DSSCB Map

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**

<b>Name</b>	<b>Hex Offset</b>	<b>Hex Value</b>
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





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**\$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	DSWARS1	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

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
16	(10)	CHARACTER	8	DSWANAME	NAME= KEYWORD
24	(18)	CHARACTER	8	DSWACALL	NAME OF \$DSPSERV CALLER
32	(20)	SIGNED	4	DSWABLCM	BLOCKS=(max,) keyword
36	(24)	SIGNED	4	DSWABLCI	BLOCKS=(,init) keyword
40	(28)	SIGNED	4	DSWASTRT	START= keyword

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	Name	Hex Offset	Hex Value
DSWA	0		DSWAI2SL	6	4
DSWAALEF	28	44	DSWAKEY	B	
DSWABLCI	24		DSWALEVL	4	3
DSWABLCM	20		DSWANAME	10	
DSWACALL	18		DSWANCSA	28	28
DSWACERR	28	10	DSWANGEN	28	C8
DSWADSB	C		DSWANOES	28	8
DSWADSPF	28	40	DSWANOST	28	2C
DSWAEEST	28	C	DSWARS1	7	
DSWAEND	2C		DSWASIZE	2C	2C
DSWAIBLK	28	34	DSWASRBF	28	38
DSWAID	0		DSWASTRT	28	
DSWAI1FL1	5		DSWATTKF	28	3C
DSWAI1FL2	6		DSWAVERS	4	
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			

## \$DSWA Cross Reference

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**\$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	DTETOKN	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

## \$DTE Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
SUBTASK INITIALIZATION ECB'S MUST BE KEPT TOGETHER NOTE THAT THESE ECB'S 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 \$DTEISPL
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 \$DTEISUBS
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

### \$DTE Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
DTE	0		DTEVERSN	608	4
DTEABEND	140	80	DTEVRXAD	134	
DTEABESX	140	20	DTEWECEB	F0	
DTEABFLG	140		DTEWORK	608	
DTEABREC	140	8	DTEWXECB	F0	
DTEABSTR	140	10	DTE1ACTV	B0	80
DTEABTRM	140	4	DTE1AUTO	B0	20
DTEABVRA	140	40	DTE1ECB	B0	4
DTEASAVL	578	4A4	DTE1PJ2	B0	1
DTEASID	5E8		DTE1STAE	B0	10
DTEAWRKA	578		DTE1SUB0	B0	8
DTEECBL1	120		DTE1TERM	B0	40
DTEECBL2	124		DTE1XECB	B0	2
DTEERA	144		DTE2\$CD	B1	10
DTEERRCT	B3		DTE2CRTM	B1	20
DTEERRTM	604		DTE2IERR	B1	80
DTEESXAD	138		DTE2TRAC	B1	40
DTEFLAG1	B0		DTE3REQD	B2	80
DTEFLAG2	B1		DTE3RTYP	B2	40
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				
DTELPV	A8				
DTENAME	12C				
DTENEXT	B4				
DTEPARM	5EC	5EC			
DTEPARML	5EC				
DTEPARM2	5EC	5F0			
DTEPCE	D0				
DTEPREV	B8				
DTERTXAD	13C				
DTESECEB	570				
DTESIZE	AE				
DTESTID	AD				
DTETCB	BC				
DTETECB	108				
DTETRCA	330				
DTETTOKN	C0				
DTETXECB	108				
DTEUSER1	5F4				
DTEUSER2	5F8				
DTEUSER3	5FC				
DTEUSER4	600				

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**\$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 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

## \$DTEALOC Map

## \$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.

## \$DTEASST Map

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... ....	1	ASTCRTIN ASCRRECV	General creation info "B'10000000" Creation called under recovery - do not clear MIGR\$ASST
------	-------	------------------------	---	----------------------	--

Comment

Initialization and general information

End of Comment

1550	(60E)	BITSTRING 1... .... .1... ....	1	ASTSRCST ASTALLOC ASTRCMSG	General init info "B'10000000" Member has dataset allocated. "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 ECBlis 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	ASMXBUFFA	Address of message received
1652	(674)	SIGNED	4	ASMXBUFFL	Message length
1656	(678)	ADDRESS	4	ASMSEND A	Address of send buffer

## \$DTEASST Map

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... ....	1	ASMFLAG9 ASM9NMIG	Flag 9 "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	ASMXTOKEN	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... ....	1	ASMAILST ASAS_CRT	Mailbox status "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	M00M1053	"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

## \$DTEASST Map

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	M00M1055 (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	M00M1056	"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 XEYECATCH
1791	(6FF)	CHARACTER	1	ASTXIXAT_XRSV0001	++ RESERVED XRSV0001

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
1792	(700)	CHARACTER	8	ASTXIXAT_XGROUP	++ XGROUP
1800	(708)	CHARACTER	16	ASTXIXAT_XMEMBER	++ XMEMBER
1816	(718)	CHARACTER	8	ASTXIXAT_XRELEASE	++ XRELEASE
1824	(720)	SIGNED	4	ASTXIXAT_XMAINTLVL	++ CONSTANT XMAINTLVL
1828	(724)	SIGNED	4	ASTXIXAT_XGROUPTOKEN	++ 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
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 XRSV0002
1836	(72C)	SIGNED	4	ASTXIXAT_XDIAG	++ XDIAG
1840	(730)	CHARACTER	8	ASTXIXAT_XLINKPARMS	++ FIELD_LABEL XLINKPARMS
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	M00M1057 (0)	IXZXIXMB-1
1784	(6F8)	DBL WORD	8	ASTXIXMB (0)	++ IXZXIXMB PARM LIST
1784	(6F8)	BITSTRING	1	ASTXIXMB_XVERSION	++ INPUT XVERSION
1785	(6F9)	CHARACTER	6	ASTXIXMB_XEYECATCH	++ CONSTANT XEYECATCH
1791	(6FF)	CHARACTER	1	ASTXIXMB_XRSV0001	++ RESERVED XRSV0001
1792	(700)	CHARACTER	16	ASTXIXMB_XMBOXNAME	++ XMBOXNAME
1808	(710)	ADDRESS	4	ASTXIXMB_XPOSTXIT	++ XPOSTXIT
1812	(714)	ADDRESS	4	ASTXIXMB_XPOSTDATA	

## \$DTEASST Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
1816	(718)	SIGNED	4	ASTXIXMB_XPOSTALET	++ XPOSTDATA ++ 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	M00M1058 (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	M00M1059	"ASTXIXDT" ++ IXZXIXDT NAME
1784	(6F8)	DBL WORD	8	ASTXIXDT (0)	++ IXZXIXDT PARM LIST
1784	(6F8)	BITSTRING	1	ASTXIXDT_XVERSION	++ INPUT XVERSION
1785	(6F9)	CHARACTER	6	ASTXIXDT_XEYECATCH	++ CONSTANT XEYECATCH
1791	(6FF)	CHARACTER	1	ASTXIXDT_XRSV0001	

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
1792	(700)	ADDRESS	4	ASTXIXDT_XGROUPTOKEN	++ RESERVED XRSV0001
1796	(704)	CHARACTER	8	ASTXIXDT_XLINKPARMS	++ XGROUPTOKEN
1796	(704)	X'14'	0	ASTXIXDTL	++ FIELD_LABEL XLINKPARMS "-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	M00M1060	"ASTXIXSM" ++ IXZXIXSM NAME
1784	(6F8)	DBL WORD	8	ASTXIXSM (0)	++ IXZXIXSM PARM LIST
1784	(6F8)	BITSTRING	1	ASTXIXSM_XVERSION	++ INPUT XVERSION
1785	(6F9)	CHARACTER	6	ASTXIXSM_XEYECATCH	++ CONSTANT XEYECATCH
1791	(6FF)	BITSTRING	1	ASTXIXSM_XMSGATTR	++ INPUT
		1... ....		ASTXIXSM_XMSGATTR_J3CONNECT	"B'10000000" ++ XMSGATTR.J3CONNECT KEYWORD
		.1... ....		ASTXIXSM_XMSGATTR_EXPRESS	"B'01000000" ++ XMSGATTR.EXPRESS KEYWORD
1792	(700)	CHARACTER	16	ASTXIXSM_XMBOXNAME	++ XMBOXNAME
1808	(710)	CHARACTER	16	ASTXIXSM_XMEMBER	++ XMEMBER
1824	(720)	ADDRESS	4	ASTXIXSM_XDATA	++ XDATA
1828	(724)	SIGNED	4	ASTXIXSM_XDATALEN	++ XDATALEN
1832	(728)	BITSTRING	8	ASTXIXSM_XREQTOKEN	++ XREQTOKEN
1840	(730)	CHARACTER	16	ASTXIXSM_XREQMBOX	++ XREQMBOX
1856	(740)	SIGNED	4	ASTXIXSM_XDATAALET	++ XDATAALET
1860	(744)	SIGNED	4	ASTXIXSM_XRESPDALT	++ XRESPDALT
1864	(748)	SIGNED	4	ASTXIXSM_XECB	++ XECB
1868	(74C)	SIGNED	4	ASTXIXSM_XEXIT	++ XEXIT
1872	(750)	BITSTRING	8	ASTXIXSM_XCONNECT	++ XCONNECT
1880	(758)	SIGNED	4	ASTXIXSM_XGROUPTOKEN	++ XGROUPTOKEN
1884	(75C)	SIGNED	4	ASTXIXSM_XUSERRC	++ XUSERRC
1888	(760)	SIGNED	4	ASTXIXSM_XRESPDATA	++ XRESPDATA
1892	(764)	SIGNED	4	ASTXIXSM_XRESPDLEN	++ XRESPDLEN
1896	(768)	CHARACTER	4	ASTXIXSM_XRSV00001	++ RESERVED XRSV00001

# \$DTEASST Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
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					
IXZXISM-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	M00M1061 (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

### \$DTEASST Cross Reference

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

\$DTEASST Cross Reference

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_J3CIFSS	728	4
ASTXIXAT_XWHICHJES_J3FSS	728	20
ASTXIXATL	730	40
ASTXIXDT	6F8	
ASTXIXDT_XEYECATCH	6F9	
ASTXIXDT_XGROUPTOKEN	700	
ASTXIXDT_XLINKPARMS	704	
ASTXIXDT_XRSV0001	6FF	
ASTXIXDT_XVERSION	6F8	
ASTXIXDTL	704	14
ASTXIXMB	6F8	
ASTXIXMB_XEYECATCH	6F9	
ASTXIXMB_XGROUPTOKEN	71C	
ASTXIXMB_XMBOXNAME	700	
ASTXIXMB_XPOSTALET	718	
ASTXIXMB_XPOSTDATA	714	
ASTXIXMB_XPOSTXIT	710	
ASTXIXMB_XRSV0001	6FF	
ASTXIXMB_XSYSEVENT_NO	720	40
ASTXIXMB_XSYSEVENT_YES	720	80
ASTXIXMB_XSYSEVENTS	720	
ASTXIXMB_XVERSION	6F8	
ASTXIXMBL	720	29
ASTXIXMC	6F8	
ASTXIXMC_XEYECATCH	6F9	
ASTXIXMC_XGROUPTOKEN	710	
ASTXIXMC_XMBOXNAME	700	
ASTXIXMC_XSTB	6FF	
ASTXIXMC_XSTB_NO	6FF	80
ASTXIXMC_XSTB_YES	6FF	40
ASTXIXMC_XVERSION	6F8	

Name	Hex Offset	Hex Value
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	77B	20
ASTXIXSM_KEYUSED_REQMBOX		

## \$DTEASST Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
	77A	20	ASTXIXSM_XSEGTYPE		
ASTXIXSM_KEYUSED_REQTOKEN				779	
	77A	40	ASTXIXSM_XSEGTYPE_ABORT		
ASTXIXSM_KEYUSED_REQTYPE				779	8
	77A	80	ASTXIXSM_XSEGTYPE_FIRST		
ASTXIXSM_KEYUSED_RIPSIZE				779	40
	77B	10	ASTXIXSM_XSEGTYPE_LAST		
ASTXIXSM_KEYUSED_SEGTYPE				779	10
	77A	8	ASTXIXSM_XSEGTYPE_MIDDLE		
ASTXIXSM_XCONNECT				779	20
	750		ASTXIXSM_XSEGTYPE_SINGLE		
ASTXIXSM_XDATA				779	80
	720		ASTXIXSM_XUSERRC		
ASTXIXSM_XDATAALET				75C	
	740		ASTXIXSM_XVERSION		
ASTXIXSM_XDATALEN				6F8	
	724		ASTXIXSML	77B	84
ASTXIXSM_XECB			AST1NORE	60C	0
	748		AST1REQU	60C	
ASTXIXSM_XEXIT			ASWORKP	65C	
	74C		AS1BMERR	658	10
ASTXIXSM_XEYECATCH			AS1ERABN	658	80
	6F9		AS1ERFL1	658	
ASTXIXSM_XGROUPTOKEN			AS1MAILE	658	40
	758		AS1TBERR	658	20
ASTXIXSM_XKEYS			DTE	0	
	77A		M00M1053	0	6F8
ASTXIXSM_XKEYS1			M00M1055	6F8	
	77B		M00M1056	0	6F8
ASTXIXSM_XMBOXNAME			M00M1057	6F8	
	700		M00M1058	6F8	
ASTXIXSM_XMEMBER			M00M1059	0	6F8
	710		M00M1060	0	6F8
ASTXIXSM_XMSGATTR			M00M1061	6F8	
	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				

## \$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 interfaces 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 requester 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)	DBL WORD	8	(0)	Ensure alignment
1544	(608)	X'0'	0	DCCFLEN	"*-DTEWORK" Length of work area

## \$DTECKCF Map

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

## \$DTECKVR Map



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## \$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)	BITSTRING	1	DCNVSTAT	PROCESSOR STATUS BYTE
		1... ....		DCNVAOPN	"B'10000000" ACBS SUCCESSFULLY 'FAKE' OPENED
		..1. ....		DCNV DST	"B'00100000" DATA SET TYPE - BIT ON -> SYSIN BIT OFF -> SYSOUT
1545	(609)	BITSTRING	3	DCNVFRSN (0)	Fake open failure info

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
See HASCDSOC for values					
End of Comment					
1545	(609)	BITSTRING	1	DCNVDSKY	Data set failure occurred on
1546	(60A)	BITSTRING	1	DCNVROUT	Routine that found error
1547	(60B)	BITSTRING	1	DCNVFAIL	Return code from routine
1548	(60C)	SIGNED	4	DCNVSAVE (15)	ESTAE REGISTER SAVE AREA
1608	(648)	ADDRESS	4	DCNVSJBP	ADDRESS OF CONVERSION TASK SJB
1612	(64C)	ADDRESS	4	DCNVIOT	ADDRESS OF ALLOCATION IOT
1616	(650)	ADDRESS	4	DCNVADDR	ADDRESS OF JCL CONVERTER
1620	(654)	ADDRESS	4	DCNVCAT	Address of CAT for job
1624	(658)	ADDRESS	4	DCNVPAD	Addr of current(open) PAD
1628	(65C)	BITSTRING	8	DCNVPCRT	Open PAD create time
1636	(664)	ADDRESS	4	DCNVPD00	Addr of PROC00 PAD
1640	(668)	ADDRESS	4	DCNVJPAD	Address of PAD for job
1644	(66C)	CHARACTER	4		Reserved for future use
1648	(670)	SIGNED	4	DCNVDCB (0)	ALIGN LIST TO FULLWORD
1648	(670)	ADDRESS	1		OPTION BYTE
1649	(671)	ADDRESS	3		DCB ADDRESS
Comment					
PARAMETER LIST FOR EXIT 6. VARIABLES DCNVPARM THRU DCNVCNMB MAKEUP THIS LIST AND SHOULD ALWAYS BE KEPT TOGETHER.					
End of Comment					
1652	(674)	SIGNED	4	DCNVPARM (0)	EXIT 6 PARAMETER LIST
1652	(674)	ADDRESS	4	DCNVUWAA	ADDR OF EXIT 6 USER WORK AREA
1656	(678)	ADDRESS	4	DCNVP2A	IF R0=0 THEN INTERNAL TEXT IMAGE ADDRESS ELSE IF R0=4 THEN CONVERTER RETURN CODE ADDRESS
1660	(67C)	ADDRESS	4	DCNVDTEA	ADDRESS OF DTE
1664	(680)	ADDRESS	4	DCNVJCTA	ADDRESS OF JCT BUFFER
1668	(684)	ADDRESS	4	DCNVCNMB	ADDRESS OF CONVERTER MESSAGE BUFFER
1672	(688)	ADDRESS	4	DCNVCPTR	POINTER TO CONVERTER'S MESSAGE BUFFER
1676	(68C)	ADDRESS	4	DCNVWAVE	ADDR OF THE WAVE CONTROL BLOCK FOR \$SEAS CALLS
1680	(690)	ADDRESS	1	DCNVJBTY	JOB TYPE SAVE AREA
1681	(691)	ADDRESS	3		RESERVED FOR FUTURE USE
1684	(694)	SIGNED	4	DCNVJNUM	Job number save area
Comment					
Start of general work areas, cleared en mass at startup.					
End of Comment					
1684	(694)	X'698'	0	DCNVCLR	*** START OF WORK AREA CLEARED IN CONVERTER SUB-TASK INITIALIZATION
1688	(698)	CHARACTER	8	DCNVDDNM	DDNAME OF PROCLIB NOW OPEN
1696	(6A0)	CHARACTER	120	DCNVCNPR	CONVERTER ENTRY LIST
1816	(718)	CHARACTER	36	DCNVQMPA	QUEUE MNGR PARM AREA
1852	(73C)	SIGNED	4	DCNVSYMA (0)	SYSTEM SYMBOLICS DATA AREA
1852	(73C)	CHARACTER	7	DCNVSYM1	&SYSUID KEYWORD
1859	(743)	CHARACTER	8	DCNVSYMU	&SYSUID PARAMETER VALUE
1868	(74C)	SIGNED	2	DCNVCOM	CONSOLE ID FOR CONVERSION
1872	(750)	ADDRESS	4	DCNVIOT1	Addr of IOT containing last PDDB before 1st input stream PDDB
1876	(754)	SIGNED	4	DCNVPDB1	Offset of above DCNVIOT1 PDDB
1880	(758)	SIGNED	4	DCNVLIND	Index value of last input stream data set processed
1884	(75C)	SIGNED	4	DCNVISNR	Index value of current input stream data set
1888	(760)	ADDRESS	4	DCNVIOTA	INPUT IOT FOR TEXT EXIT
1892	(764)	SIGNED	4	DCNVPDBO	OFFSET OF LAST INPUT PDDB
1896	(768)	CHARACTER	1	DCNVRD	JOB CARD RD= PARAMETER

## \$DTECNV Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
1897	(769)	BITSTRING 1... .. .1... ..	1	DCNVFLG1 DCNV1REO DCNV1CLR	SERIALIZED FLAG BYTE (UPDATE USING OIL/NIL ONLY) "B'10000000" REOPEN PROCLIB DATA SET "B'01000000" CLOSE has been issued once for job in XCNVRTY
1898	(76A)	SIGNED	2	DCNVITDL	LENGTH OF INTERNAL TEXT
1900	(76C)	ADDRESS	4	DCNVAR0	XRT @ for trace ID 13
1904	(770)	CHARACTER	8	DCNVPERF	Performance Group for job from //JOB JCL statement (left justified, blank fill)
1912	(778)	CHARACTER	16	DCNVSCHE	Scheduling environment for job (left justified, blank fill)
1928	(788)	SIGNED	4	DCNVERC1	USER EXIT RETURN CODE 1
1932	(78C)	SIGNED	4	DCNVERC2	USER EXIT RETURN CODE 2
1936	(790)	BITSTRING	168	DCNVESV1	CNVT exit save area 1
2104	(838)	BITSTRING	168	DCNVESV2	CNVT exit save area 2
2272	(8E0)	DBL WORD	8	(0)	
2272	(8E0)	CHARACTER	200	DCNVWORK	MESSAGE WORK AREA
2272	(8E0)	X'8E0'	0	DCNVETXT	"DCNVWORK" END OF TEXT ADDRESS
2272	(8E0)	X'8E8'	0	DCNVUDSN	"DCNVWORK+8" USER DSN ADDRESS
2272	(8E0)	X'8EC'	0	DCNVITXT	"DCNVWORK+12" INTERNAL TEXT ADDRESS
2272	(8E0)	X'8F0'	0	DCNVIDSN	"DCNVWORK+16" INTERNAL TEXT DSN ADDRESS
2272	(8E0)	X'8F4'	0	DCNVPDDB	"DCNVWORK+20" SYSIN PDDB ADDRESS
2472	(9A8)	BITSTRING	16	DCNVUWA	EXIT USER WORK AREA
2488	(9B8)	CHARACTER	8	DCNVJDVT	JDVT NAME

Comment

### START OF SPECIFICATIONS

01 DESCRIPTIVE NAME: JES log control

02 ACRONYM: \$JESLOG

01 MACRO NAME: \$JESLOG

01 DSECT NAME: JLG

01 LABEL PREFIX: JLG

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:

This block is included in JCTs, SJXBs, CATs and CNVWORK. See the description of those "hosting" blocks for storage attributes.

01 SIZE:

See JLLEN

01 CREATED BY:

See "hosting" control blocks

01 POINTED TO BY:

No pointers

01 SERIALIZATION:

None required

01 FUNCTION:

The JESLOG describes how the spinning of JESLOG (JESYSMG and JESJOB LG) is to be supported.

01 METHOD OF ACCESS:

02 ASM:

Specify \$JESLOG as a positional operand on a \$MODULE macro instruction to cause this mapping to be generated. A USING of the following form is used: USING JLG,xxxx where xxxx is the label within the "hosting" block where the JESLOG

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
mapping begins. For example when referencing the JESLOG within the JCT, code USING JLG,JCTJLOG					
02 PL/X: This mapping is not available for compilations.					
01 USED BY: Spin processing for the two JESLOG data sets use the information for their decisions.					
01 DELETED BY: See "hosting" blocks.					
01 FREQUENCY: See "hosting" blocks					
01 RESTRICTIONS: None END OF SPECIFICATIONS					
01 CHANGE ACTIVITY: \$Z02LLRJ=LRJOB HJE7705 001101 J_K2: Long running jobs \$Z02P049=LRJ HJE7705 001218 J_K2: RJI SSOB JESLOG Support \$Z13LSPN=SPIN HJE7780 100818 J_K2: Spin any SPIN data set					
01 A000000-999999 CREATED for JES2 z/OS 1.2					
01 NOTES: The bit definitions in JLGFLAG1 must be the same as the definitions for SPCFLAG1 (\$SPC).					
End of Comment					
2496	(9C0)	BITSTRING	6	DCNVJLOG	JES log control
Comment					
CONVERSION EXIT LIST					
End of Comment					
2504	(9C8)	SIGNED	4	DCNVXLST (0)	CONVERSION EXIT LIST
2504	(9C8)	BITSTRING	1	DCNVXLHD	EXIT LIST HEADER
Comment					
----- Converter exit entries -----					
End of Comment					
2512	(9D0)	BITSTRING	8	DCNVXLTE	INTERNAL TEXT EXIT ENTRY
2520	(9D8)	BITSTRING	8	DCNVXOPN	SYSIN open exit
2528	(9E0)	BITSTRING	8	DCNVXPUT	SYSIN put exit
2536	(9E8)	BITSTRING	1	DCNVXCLS	SYSIN close exit.
2536	(9E8)	X'20'	0	DCNVXLEN	"*-DCNVXLTE" Len of exit list entries
2544	(9F0)	SIGNED	4	DCNVDEBS (0)	ADDRESS OF DEB'S FOR ACB'S
2544	(9F0)	CHARACTER	32	DCNVDEBJ	DEB FOR JCL DATA SET
2576	(A10)	CHARACTER	32	DCNVDEBI	DEB FOR JCL IMAGE DATA SET
2608	(A30)	CHARACTER	32	DCNVDEBM	DEB FOR SYSTEM MSG DATA SET
2640	(A50)	CHARACTER	32	DCNVDEBT	DEB FOR INTERNAL TEXT DATA SET
2672	(A70)	ADDRESS	1	DCNUIDL	USERID LENGTH + VALUE
2672	(A70)	X'A71'	0	DCNUID	"DCNUIDL+1,8,C'C" USERID FOR THIS JOB
2681	(A79)	ADDRESS	1	DCNGRPL	GROUP LENGTH + VALUE
2681	(A79)	X'A7A'	0	DCNGRP	"DCNGRPL+1,8,C'C" GROUP FOR THIS JOB
2690	(A82)	ADDRESS	1	DCNPASL	PASSWORD LENGTH + VALUE
2690	(A82)	X'A83'	0	DCNPAS	"DCNPASL+1,8,C'C" PASSWORD FOR THIS JOB
2699	(A8B)	ADDRESS	1	DCNNPASL	NEW PASSWORD LEN + VALUE
2699	(A8B)	X'A8C'	0	DCNNPAS	"DCNNPASL+1,8,C'C" NEW PASSWORD FOR THIS JOB
2712	(A98)	DBL WORD	8	(0)	Reserved
2712	(A98)	BITSTRING	1	DCNSAVE2	Save area for SYSIN exits

## \$DTECNV Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
-----					
Work Area for SYSIN open exit					
-----					
End of Comment					
2880	(B40)	ADDRESS	4	DCNSPDDB	SYSIN PDDB address
2884	(B44)	BITSTRING	1	DCNDEVTP	1st Byte of device type
2885	(B45)	BITSTRING	3		Reserved
2888	(B48)	ADDRESS	4	DCNIOTL	Address of last IOT
2892	(B4C)	SIGNED	2	DCNIOTCT	Instream IOT count
2894	(B4E)	SIGNED	2	DCNCDLRL	Card lrecl (always 80 for SYSIN exit)
2896	(B50)	SIGNED	2	DCNDEFRLR	Default LRECL ( 80 )
2898	(B52)	BITSTRING	1	DCNDEFRLF	Default record format
2899	(B53)	BITSTRING	1	DCNINFLG	Input flag value
2900	(B54)	SIGNED	4	DCNDSKEY	Dataset key
2904	(B58)	BITSTRING	1	DCNDELRS	Failure reason code
2905	(B59)	BITSTRING	3		Reserved
2908	(B5C)	SIGNED	4	(0)	Align next
2908	(B5C)	BITSTRING	48	DCNCRTSY	Create sysin parm list
2956	(B8C)	BITSTRING	32	DCNOPNSP	Open SPOOL parm list
2988	(BAC)	BITSTRING	1	DCNPUTPL	JRWPUTPL for sysin dataset
2988	(BAC)	X'530'	0	DCNVCLRL	**"DCNVCLR" END OF WORK AREA CLEARED IN CONVERTER SUBTASK INITIALIZATION

Comment					
-----					
DCB for PROCLIB, and ACBs for the JES datasets.					
DCNVPROC DCB FOR PROCLIB DATA SET					
DCNVPROC DCB DSORG=PO,MACRF=R,RECFM=FB,LRECL=80,					
DDNAME= ,EXLST= -					

End of Comment					
3016	(BC8)	SIGNED	4	(0)	DCNVPROC ORIGIN DATA CONTROL BLOCK
3016	(BC8)	SIGNED	4	DCNVPROC (0)	ORIGIN ON WORD BOUNDARY DIRECT ACCESS DEVICE INTERFACE
3016	(BC8)	BITSTRING	16		FDAD, DVTBL
3032	(BD8)	ADDRESS	4		KEYLEN, DEVT, TRBAL COMMON ACCESS METHOD INTERFACE
3036	(BDC)	ADDRESS	1		BUFNO, NUMBER OF BUFFERS
3037	(BDD)	ADDRESS	3		BUFCB, BUFFER POOL CONTROL BLOCK
3040	(BE0)	ADDRESS	2		BUFL, BUFFER LENGTH
3042	(BE2)	BITSTRING	2		DSORG, DATA SET ORGANIZATION
3044	(BE4)	ADDRESS	4		IOBAD FOR EXCP OR RESERVED FOUNDATION EXTENSION
3048	(BE8)	BITSTRING	1		BFTEK, BFALN, DCBE INDICATORS
3049	(BE9)	ADDRESS	3		EODAD (END OF DATA ROUTINE ADDRESS)
3052	(BEC)	BITSTRING	1		RECFM (RECORD FORMAT)
3053	(BED)	ADDRESS	3		EXLST (EXIT LIST ADDRESS) FOUNDATION BLOCK
3056	(BF0)	CHARACTER	8		DDNAME
3064	(BF8)	BITSTRING	1		OFLGS (OPEN FLAGS)
3065	(BF9)	BITSTRING	1		IFLGS (IOS FLAGS)
3066	(BFA)	BITSTRING	2		MACR (MACRO FORMAT) BSAM-BPAM-QSAM INTERFACE
3068	(BFC)	BITSTRING	1		OPTCD, OPTION CODES
3069	(BFD)	ADDRESS	3		CHECK OR INTERNAL QSAM SYNCHRONIZING RTN.
3072	(C00)	ADDRESS	4		SYNAD, SYNCHRONOUS ERROR RTN. (3 BYTES)
3076	(C04)	SIGNED	2		INTERNAL ACCESS METHOD FLAGS
3078	(C06)	ADDRESS	2		BLKSIZE, BLOCK SIZE
3080	(C08)	SIGNED	4		INTERNAL ACCESS METHOD FLAGS
3084	(C0C)	ADDRESS	4		INTERNAL ACCESS METHOD USE BSAM-BPAM INTERFACE
3088	(C10)	ADDRESS	1		NCP, MAX NUM OF OUTSTANDING READ/WRITES
3089	(C11)	ADDRESS	3		EOBR, INTERNAL ACCESS METHOD USE

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
3092	(C14)	ADDRESS	4		EOBW, INTERNAL ACCESS METHOD USE
3096	(C18)	ADDRESS	1	(2)	FLAGS AND EITHER DIRCT OR BUFOFF
3098	(C1A)	ADDRESS	2		LRECL
3100	(C1C)	ADDRESS	4		CNTRL, NOTE, POINT

Comment

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DCNVJCL ACB FOR JCL DATA SET

End of Comment					
3104	(C20)	SIGNED	4	(0)	DCNVJCL ORIGIN
3104	(C20)	SIGNED	4	DCNVJCL (0)	
3104	(C20)	BITSTRING	1		. ACB IDENTIFICATION
3105	(C21)	ADDRESS	1		ACB SUBTYPE X04SVHS
3106	(C22)	ADDRESS	2		. ACB LENGTH X03004HS
3108	(C24)	ADDRESS	4		. AMB LIST POINTER
3112	(C28)	ADDRESS	4		. INTERFACE ROUTINE POINTER
3116	(C2C)	BITSTRING	1		MACRF(1) X04SVHS
3117	(C2D)	BITSTRING	1		MACRF(2) X04SVHS FOR NUMERIC IN PARENS
3118	(C2E)	ADDRESS	1		. NO OF CONCURRENT X04SVHS STRINGS FOR AIX PATH X04SVHS FOR NUMERIC IN PARENS
3119	(C2F)	ADDRESS	1		. NUMBER OF STRINGS X04SVHS FOR NUMERIC IN PARENS
3120	(C30)	ADDRESS	2		. NUMBER OF DATA BUFFERS FOR NUMERIC IN PARENS
3122	(C32)	ADDRESS	2		. NUMBER OF INDEX BUFFERS
3124	(C34)	BITSTRING	1		MACRF(3) X04SVHS FOR NUMERIC IN PARENS
3125	(C35)	ADDRESS	1		SHARED RESOURCE POOL ID
3126	(C36)	ADDRESS	2		. JES BUFFER POOL/NUMBER X04SVHS OF JOURNAL BUFFERS
3128	(C38)	BITSTRING	1		. RECFM=A
3129	(C39)	BITSTRING	1		READ INTEGRITY OPTIONS
3130	(C3A)	BITSTRING	2		. DSORG=ACB
3132	(C3C)	ADDRESS	4		X04SVHS
3136	(C40)	ADDRESS	4		. PASSWORD POINTER
3140	(C44)	ADDRESS	4		. EXIT LIST POINTER
3144	(C48)	CHARACTER	8		
3152	(C50)	BITSTRING	1		OFLAGS
3153	(C51)	ADDRESS	1		. ERFLAGS
3154	(C52)	BITSTRING	1		INFLGS(1) X04SVHS
3155	(C53)	BITSTRING	1		INFLGS(2) X04SVHS
3156	(C54)	ADDRESS	4		. OPENJ JFCB POINTER
3160	(C58)	ADDRESS	4		BUFFER SPACE
3164	(C5C)	ADDRESS	2		. BLOCK SIZE
3166	(C5E)	ADDRESS	2		. RECORD SIZE
3168	(C60)	ADDRESS	4		. USER WORKAREA POINTER
3172	(C64)	ADDRESS	4		CONTROL BLOCK MANIPULATION WORKAREA POINTER
3176	(C68)	ADDRESS	4		. PTR TO APPLICATION NAME X03004

Comment

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DCNVJCLI ACB FOR JCL IMAGES DATA SET

End of Comment					
3180	(C6C)	SIGNED	4	(0)	DCNVJCLI ORIGIN
3180	(C6C)	SIGNED	4	DCNVJCLI (0)	
3180	(C6C)	BITSTRING	1		. ACB IDENTIFICATION
3181	(C6D)	ADDRESS	1		ACB SUBTYPE X04SVHS
3182	(C6E)	ADDRESS	2		. ACB LENGTH X03004HS
3184	(C70)	ADDRESS	4		. AMB LIST POINTER
3188	(C74)	ADDRESS	4		. INTERFACE ROUTINE POINTER
3192	(C78)	BITSTRING	1		MACRF(1) X04SVHS
3193	(C79)	BITSTRING	1		MACRF(2) X04SVHS FOR NUMERIC IN PARENS
3194	(C7A)	ADDRESS	1		. NO OF CONCURRENT X04SVHS STRINGS FOR AIX PATH X04SVHS FOR NUMERIC IN PARENS

## \$DTECNV Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
3195	(C7B)	ADDRESS	1		. NUMBER OF STRINGS X04SVHS FOR NUMERIC IN PARENS
3196	(C7C)	ADDRESS	2		. NUMBER OF DATA BUFFERS FOR NUMERIC IN PARENS
3198	(C7E)	ADDRESS	2		. NUMBER OF INDEX BUFFERS
3200	(C80)	BITSTRING	1		MACRF(3) X04SVHS FOR NUMERIC IN PARENS
3201	(C81)	ADDRESS	1		SHARED RESOURCE POOL ID
3202	(C82)	ADDRESS	2		. JES BUFFER POOL/NUMBER X04SVHS OF JOURNAL BUFFERS
3204	(C84)	BITSTRING	1		. RECFM=A
3205	(C85)	BITSTRING	1		READ INTEGRITY OPTIONS
3206	(C86)	BITSTRING	2		. DSORG=ACB
3208	(C88)	ADDRESS	4		X04SVHS
3212	(C8C)	ADDRESS	4		. PASSWORD POINTER
3216	(C90)	ADDRESS	4		. EXIT LIST POINTER
3220	(C94)	CHARACTER	8		
3228	(C9C)	BITSTRING	1		OFLAGS
3229	(C9D)	ADDRESS	1		. ERFLAGS
3230	(C9E)	BITSTRING	1		INFLGS(1) X04SVHS
3231	(C9F)	BITSTRING	1		INFLGS(2) X04SVHS
3232	(CA0)	ADDRESS	4		. OPENJ JFCB POINTER
3236	(CA4)	ADDRESS	4		BUFFER SPACE
3240	(CA8)	ADDRESS	2		. BLOCK SIZE
3242	(CAA)	ADDRESS	2		. RECORD SIZE
3244	(CAC)	ADDRESS	4		. USER WORKAREA POINTER
3248	(CB0)	ADDRESS	4		CONTROL BLOCK MANIPULATION WORKAREA POINTER
3252	(CB4)	ADDRESS	4		. PTR TO APPLICATION NAME X03004

Comment

DCNVMSG ACB FOR SYSTEM MSGS DATA SET

End of Comment

3256	(CB8)	SIGNED	4	(0)	DCNVMSG ORIGIN
3256	(CB8)	SIGNED	4	DCNVMSG (0)	
3256	(CB8)	BITSTRING	1		. ACB IDENTIFICATION
3257	(CB9)	ADDRESS	1		ACB SUBTYPE X04SVHS
3258	(CBA)	ADDRESS	2		. ACB LENGTH X03004HS
3260	(CBC)	ADDRESS	4		. AMB LIST POINTER
3264	(CC0)	ADDRESS	4		. INTERFACE ROUTINE POINTER
3268	(CC4)	BITSTRING	1		MACRF(1) X04SVHS
3269	(CC5)	BITSTRING	1		MACRF(2) X04SVHS FOR NUMERIC IN PARENS
3270	(CC6)	ADDRESS	1		. NO OF CONCURRENT X04SVHS STRINGS FOR AIX PATH X04SVHS FOR NUMERIC IN PARENS
3271	(CC7)	ADDRESS	1		. NUMBER OF STRINGS X04SVHS FOR NUMERIC IN PARENS
3272	(CC8)	ADDRESS	2		. NUMBER OF DATA BUFFERS FOR NUMERIC IN PARENS
3274	(CCA)	ADDRESS	2		. NUMBER OF INDEX BUFFERS
3276	(CCC)	BITSTRING	1		MACRF(3) X04SVHS FOR NUMERIC IN PARENS
3277	(CCD)	ADDRESS	1		SHARED RESOURCE POOL ID
3278	(CCE)	ADDRESS	2		. JES BUFFER POOL/NUMBER X04SVHS OF JOURNAL BUFFERS
3280	(CD0)	BITSTRING	1		. RECFM=A
3281	(CD1)	BITSTRING	1		READ INTEGRITY OPTIONS
3282	(CD2)	BITSTRING	2		. DSORG=ACB
3284	(CD4)	ADDRESS	4		X04SVHS
3288	(CD8)	ADDRESS	4		. PASSWORD POINTER
3292	(CDC)	ADDRESS	4		. EXIT LIST POINTER
3296	(CE0)	CHARACTER	8		
3304	(CE8)	BITSTRING	1		OFLAGS
3305	(CE9)	ADDRESS	1		. ERFLAGS
3306	(CEA)	BITSTRING	1		INFLGS(1) X04SVHS
3307	(CEB)	BITSTRING	1		INFLGS(2) X04SVHS
3308	(CEC)	ADDRESS	4		. OPENJ JFCB POINTER
3312	(CF0)	ADDRESS	4		BUFFER SPACE



Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
3316	(CF4)	ADDRESS	2		. BLOCK SIZE
3318	(CF6)	ADDRESS	2		. RECORD SIZE
3320	(CF8)	ADDRESS	4		. USER WORKAREA POINTER
3324	(CFC)	ADDRESS	4		CONTROL BLOCK MANIPULATION WORKAREA POINTER
3328	(D00)	ADDRESS	4		. PTR TO APPLICATION NAME X03004

Comment

DCNVTXT ACB FOR INTERNAL TEXT DATA SET

End of Comment

3332	(D04)	SIGNED	4	(0)	DCNVTXT ORIGIN
3332	(D04)	SIGNED	4	DCNVTXT (0)	
3332	(D04)	BITSTRING	1		. ACB IDENTIFICATION
3333	(D05)	ADDRESS	1		ACB SUBTYPE X04SVHS
3334	(D06)	ADDRESS	2		. ACB LENGTH X03004HS
3336	(D08)	ADDRESS	4		. AMB LIST POINTER
3340	(D0C)	ADDRESS	4		. INTERFACE ROUTINE POINTER
3344	(D10)	BITSTRING	1		MACRF(1) X04SVHS
3345	(D11)	BITSTRING	1		MACRF(2) X04SVHS FOR NUMERIC IN PARENS
3346	(D12)	ADDRESS	1		. NO OF CONCURRENT X04SVHS STRINGS FOR AIX PATH X04SVHS FOR NUMERIC IN PARENS
3347	(D13)	ADDRESS	1		. NUMBER OF STRINGS X04SVHS FOR NUMERIC IN PARENS
3348	(D14)	ADDRESS	2		. NUMBER OF DATA BUFFERS FOR NUMERIC IN PARENS
3350	(D16)	ADDRESS	2		. NUMBER OF INDEX BUFFERS
3352	(D18)	BITSTRING	1		MACRF(3) X04SVHS FOR NUMERIC IN PARENS
3353	(D19)	ADDRESS	1		SHARED RESOURCE POOL ID
3354	(D1A)	ADDRESS	2		. JES BUFFER POOL/NUMBER X04SVHS OF JOURNAL BUFFERS
3356	(D1C)	BITSTRING	1		. RECFM=A
3357	(D1D)	BITSTRING	1		READ INTEGRITY OPTIONS
3358	(D1E)	BITSTRING	2		. DSORG=ACB
3360	(D20)	ADDRESS	4		X04SVHS
3364	(D24)	ADDRESS	4		. PASSWORD POINTER
3368	(D28)	ADDRESS	4		. EXIT LIST POINTER
3372	(D2C)	CHARACTER	8		
3380	(D34)	BITSTRING	1		OFLAGS
3381	(D35)	ADDRESS	1		. ERFLAGS
3382	(D36)	BITSTRING	1		INFLGS(1) X04SVHS
3383	(D37)	BITSTRING	1		INFLGS(2) X04SVHS
3384	(D38)	ADDRESS	4		. OPENJ JFCB POINTER
3388	(D3C)	ADDRESS	4		BUFFER SPACE
3392	(D40)	ADDRESS	2		. BLOCK SIZE
3394	(D42)	ADDRESS	2		. RECORD SIZE
3396	(D44)	ADDRESS	4		. USER WORKAREA POINTER
3400	(D48)	ADDRESS	4		CONTROL BLOCK MANIPULATION WORKAREA POINTER
3404	(D4C)	ADDRESS	4		. PTR TO APPLICATION NAME X03004
3404	(D4C)	X'748'	0	DCNVLEN	**-DTEWORK" LENGTH OF THE CNVT DTE DSECT

## \$DTECNV Cross Reference

### \$DTECNV Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
DCNCDLRL	B4E		DCNVJNUM	694	
DCNCRTSY	B5C		DCNVJPAD	668	
DCNDEFRLR	B50		DCNVLEN	D4C	748
DCNDEFRRF	B52		DCNVLIND	758	
DCNDELRS	B58		DCNVMSG	CB8	
DCNDEVTP	B44		DCNVPAD	658	
DCNDSKEY	B54		DCNVPARM	674	
DCNGRP	A79	A7A	DCNVPCRT	65C	
DCNGRPL	A79		DCNVPDBO	764	
DCNINFLG	B53		DCNVPDB1	754	
DCNIOTCT	B4C		DCNVPDDB	8E0	8F4
DCNIOTL	B48		DCNVPD00	664	
DCNNPAS	A8B	A8C	DCNVPERF	770	
DCNNPASL	A8B		DCNVPROC	BC8	
DCNOPNSP	B8C		DCNVP2A	678	
DCNPAS	A82	A83	DCNVQMPA	718	
DCNPASL	A82		DCNVRD	768	
DCNPUTPL	BAC		DCNVR0UT	60A	
DCNSAVE2	A98		DCNVSAVE	60C	
DCNSPDDB	B40		DCNVSCHE	778	
DCNUID	A70	A71	DCNVSJBP	648	
DCNUIDL	A70		DCNVSTAT	608	
DCNVADDR	650		DCNVSYMA	73C	
DCNVAOPN	608	80	DCNVSYMU	743	
DCNVAR0	76C		DCNVSYM1	73C	
DCNVCAT	654		DCNVTXT	D04	
DCNVCLR	694	698	DCNVUDSN	8E0	8E8
DCNVCLRL	BAC	530	DCNVUWA	9A8	
DCNVCNMB	684		DCNVUWAA	674	
DCNVCNPR	6A0		DCNVWAVE	68C	
DCNVCOM	74C	0	DCNVWORK	8E0	
DCNVCPTR	688		DCNVXCLS	9E8	
DCNVDCB	670		DCNVXLEN	9E8	20
DCNVDDNM	698		DCNVXLHD	9C8	
DCNVDEBI	A10		DCNVXLST	9C8	
DCNVDEBJ	9F0		DCNVXLTE	9D0	
DCNVDEBM	A30		DCNVXOPN	9D8	
DCNVDEBS	9F0		DCNVXPUT	9E0	
DCNVDEBT	A50		DCNV1CLR	769	40
DCNVDSKY	609		DCNV1REO	769	80
DCNV DST	608	20	DTE	0	
DCNVDT EA	67C				
DCNVERC1	788				
DCNVERC2	78C				
DCNVESV1	790				
DCNVESV2	838				
DCNVETXT	8E0	8E0			
DCNVFAIL	60B				
DCNVFLG1	769				
DCNVFRSN	609				
DCNVIDSN	8E0	8F0			
DCNVIOT	64C				
DCNVIOTA	760				
DCNVIOT1	750				
DCNVISNR	75C				
DCNVITDL	76A				
DCNVITXT	8E0	8EC			
DCNVJBTY	690				
DCNVJCL	C20				
DCNVJCLI	C6C				
DCNVJCTA	680				
DCNVJDVT	9B8				
DCNVJLOG	9C0				

## \$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

## \$DTEEOM Map

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**\$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 (\$DTEIMG) 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	DIMGLEN	"*-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**

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

## \$DTEIMG Cross Reference



## \$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.

## \$DTEMIGR Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
<p>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.</p> <ul style="list-style-type: none"> <li>-- Migration initialization</li> <li>-- Migration cancel start</li> <li>-- Migration un-initiation</li> </ul> <p>but not:</p> <ul style="list-style-type: none"> <li>-- Perform phase 1 (SPOL PCE monitors completion)</li> <li>-- Perform phase 2 " " "</li> <li>-- Check for excessive ACK wait (Phase 1)</li> <li>-- Migration cancel (SPOL PCE monitors completion)</li> </ul>					
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
		...1 1...		MGR1CHK	"X'18" Check if wait time for for ACK from spool assist have been excessive. Only valid in phase 1.
Comment					
<p>Subtask error flag 1: Set by migrator subtask.            for interpretation by SPOL PCE.</p>					
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 XPF group failed.
Comment					
<p>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:</p> <ul style="list-style-type: none"> <li>-- Requests made of the subtask (via SPOL PCE)</li> <li>-- and acknowledgements of requests which the HOSPMIGR subtask has outstanding.</li> </ul> <p>This subtask is driven by the SPOL PCE and the migration state kept in the source DAS.            Start of ECB list</p>					
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.

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
1564	(61C)	ADDRESS	4	MGMGVOLP	Address of ECB for JESXCF mail box notification. This ECB is posted when mail arrives from spool assistant subtasks. Mail box name - MG\$VOLSER.
1568	(620)	ADDRESS	4	MGRNVOLP	Address of ECB for JESXCF mail box notification. This ECB is posted when mail arrives from MAS member runtime I/O. Mailbox name - RN\$VOLSER.
1572	(624)	ADDRESS	4	MGRNIOP	Address of ECB for I/O I/O completion processing. This ECB is posted when a call to MIGRCOPY is needed.
1576	(628)	ADDRESS	4	MGRNXRQP	Address of ECB for I/O permission completion. This ECB is posted when an XREQ is added to the completed XREQ queue.

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	MGACTION	Copy of original "member @OA36180 active table" used to @OA36180 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	MGRSRMOBJ	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'1000000" Path to SRC dataset lost
		.1.. ....		MGPATHT	"B'0100000" Path to TARG dataset lost
1633	(661)	BITSTRING	3		Reserved for future use
1636	(664)	SIGNED	4	(8)	Reserved for future use

## \$DTEMIGR Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
Migration specific information					
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.
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 successful migration completion.
		...1 ....		MGR5CLER	"B'00010000" RN\$VOLSER mailbox has been cleared.
		.... 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
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 encountered and WTOR presented to operator. ForceComplete was selected so do not ask user again.
		.1.. ..		MGR5CACK	"B'01000000" Phase 2 was called in recovery/resume mode and determined migration is not cancellable. Phase 2 resumes operation

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
<p>-----                      Cancellation status flags - cancellation is complete when all conditions are satisfied.                      -----</p>					
End of Comment					
1672	(688)	BITSTRING 1... ..	1	MGRFLG6 MGR6TSET	Phase 1 status flags "B'10000000" Cancel final timer has been set.
1673	(689)	BITSTRING	1	MGRPERCE	Percent complete
Comment					
<p>Source dataset information                      -- Set by SPOL PCE after HOSPMIGR is attached and before subtask initiation request.                      -- Move and merge.</p>					
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					
<p>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 SPOI PCE in DAS7SET2 (move) or DAS7SET3 (merge). This map is used for initial source to target copy. 1 bit -&gt; 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.</p>					
End of Comment					
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

## \$DTEMIGR Map

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

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
<p>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.</p>					
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
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

## \$DTEMIGR Map

### Offsets

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

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



Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
<p>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.</p>					
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
Comment					
<p>End - Migration recovery section            Subtask status</p> <p>-----            If subtask I/O error - them MGRSERR is set so SPOL PCE subroutine DADMPHA1 or DASMPHA2 may cut the appropriate message.            -----</p>					
End of Comment					
2194	(892)	BITSTRING	1	MGRSERR	Phase 1-2 subtask error id

## \$DTEMIGR Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
<p>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 interpreted 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.</p>					
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 intitiate 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					
<p>End Subtask status  Migration copy service work areas</p>					
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	MGRIB31WL	Length of 31 bit CCW area
2232	(8B8)	ADDRESS	4	MGRIB24WK	24 bit I/O work area
2236	(8BC)	BITSTRING	1	MGRIBFLG1	Migration copy I/O flags
		1... ....		MGRIB1SRC	"B'10000000" I/O error on source
		.1.. ....		MGRIB1TRG	"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	MGRIBFREE	Free track buffers
2248	(8C8)	ADDRESS	8	MGRIBREAD	Active read buffers
2256	(8D0)	ADDRESS	8	MGRIBPEND	Pending write buffers
2264	(8D8)	ADDRESS	8	MGRIBWRIT	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	MGRIBLTRK	Last track read (-1=>done)
2296	(8F8)	DBL WORD	8	MGRIBWORK	General work area
2304	(900)	SIGNED	4	MGRIBECB	I/O request ECB (Call MIGRCOPY when posted)

Comment

Write track level bitmap (MIGRTLW) 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 MGRIBRQW using \$FIFOENQ (CHAIN=XRETCAN-XREQ). These are processed by MIGRCOPY (moved to the MGRIBRQA stack while active). Once the I/O completes, the XREQs are added to the MGRIBRQC and MGRIBRQE ECB is posted. XREQs on the MGRIBRQC queue should be removed with \$FIFODEQ (CHAIN=XRETCAN-XREQ) and ACKed using JESXCF.

End of Comment

2320	(910)	DBL WORD	8	MGRIBRQW (0)	XREQs pending
2320	(910)	ADDRESS	4	MGRIBRQF	chain
2324	(914)	ADDRESS	4	MGRIBRQB	(managed by \$FIFOENQ)
2328	(918)	ADDRESS	4	MGRIBRQA	XREQs active in I/O
2336	(920)	DBL WORD	8	MGRIBRQC (0)	Completed XREQ
2336	(920)	ADDRESS	4	MGRIBRCF	chain
2340	(924)	ADDRESS	4	MGRIBRCB	(managed by \$FIFOENQ)
2344	(928)	SIGNED	4	MGRIBRQE	Completed XREQ ECB

## \$DTEMIGR Map

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... .... .1.. .... ..1. ....	1	MGMAILST MGMG_CRT MGRN_CRT MGATTH	Mailbox info "B'1000000" MG\$VOLSER has been created "B'0100000" RN\$VOLSER has been created "B'0010000" Migrator performed attach of unique XCF group and must also perform detach Note: last 6 characters must be volser name. Note: last 6 characters must be volser name. Note: migration XCF group name. Note: XXX is source DASEXTNO in printable decimal.
2349	(92D)	CHARACTER	16	MGMGVOLS	Member name - used for attach of XCF group
2365	(93D)	CHARACTER	16	MGRNTIME	JESXCF service diag area
2381	(94D)	CHARACTER	8	MGGROUP	JESXCF group token used for MG\$VOLSER and RN\$VOLSER mailbox creation
2389	(955)	CHARACTER	16	MGRMEMNM	ECB - MG\$VOLSER mailbox.
2408	(968)	SIGNED	4	MGJDIAG	ECB - RN\$VOLSER mailbox.
2412	(96C)	ADDRESS	4	MGGPRPTKN	Address of send buffer used for \$XBCAST and also "I/O permission" message ACK response.
2416	(970)	SIGNED	4	MGRBOX1	Length of message to send
2420	(974)	SIGNED	4	MGRBOX2	Address of received data
2424	(978)	ADDRESS	4	MGRSENDL	Received message length
2428	(97C)	SIGNED	4	MGRXBUFA	Address of send buffer for MIGR\$ASST mailbox.
2432	(980)	ADDRESS	4	MGRXBUFL	When subroutine SMGIOPER is called this is the maximum number of I/O permission messages to process.
2436	(984)	SIGNED	4	MGRASSSN	Broadcast type See \$XREQ - XREQINFO XREQPHA1 - phase 1 start XREQPHA2 - phase 2 start XREQCNCL - cancel complete XREQEND - end migration
2440	(988)	ADDRESS	4	MGR#IOCM	Current XCF message token
2444	(98C)	SIGNED	4	MGRBTYPE	
2448	(990)	ADDRESS	1	MGRXTOKN	
2456	(998)	DBL WORD	8		
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 (STCK deltas) and counts					
End of Comment					
2520	(9D8)	DBL WORD	8	MGRTINTT	Init phase time
2528	(9E0)	DBL WORD	8	MGRTSETT	Setup phase time
2536	(9E8)	DBL WORD	8	MGRTCPYT	Copy phase time
2544	(9F0)	SIGNED	4	MGRTCPYC	Copy phase track count
2548	(9F4)	SIGNED	4	MGRTCPYM	Copy phase message count
2552	(9F8)	DBL WORD	8	MGRTCUPC	Catchup phase time
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
2576	(A10)	DBL WORD	8	MGRTNEWT	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
Comment					
List form macros for JESXCF and other services					
End of Comment					
2616	(A38)	DBL WORD	8	(0)	
2616	(A38)	BITSTRING	200	MGRXLST	JESXCF list form macros
2816	(B00)	DBL WORD	8	MGRXEND (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	M00M1064	"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 XEYECATCH
2623	(A3F)	CHARACTER	1	MGRXIXAT_XRSV0001	++ RESERVED XRSV0001
2624	(A40)	CHARACTER	8	MGRXIXAT_XGROUP	++ XGROUP
2632	(A48)	CHARACTER	16	MGRXIXAT_XMEMBER	++ XMEMBER
2648	(A58)	CHARACTER	8	MGRXIXAT_XRELEASE	++ XRELEASE
2656	(A60)	SIGNED	4	MGRXIXAT_XMAINTLVL	++ CONSTANT XMAINTLVL
2660	(A64)	SIGNED	4	MGRXIXAT_XGROUPTOKEN	++ XGROUPTOKEN
2664	(A68)	BITSTRING	1	MGRXIXAT_XFLAG1	++ FIELD_LABEL
		1... ..		MGRXIXAT_XWHICHJES_JES2	"B'10000000" ++ XWHICHJES.JES2 KEYWORD
		.1.. ....		MGRXIXAT_XWHICHJES_JES3	"B'01000000" ++ XWHICHJES.JES3 KEYWORD
		..1. ....		MGRXIXAT_XWHICHJES_J3FSS	"B'00100000" ++ XWHICHJES.J3FSS KEYWORD
		...1 ....		MGRXIXAT_XWHICHJES_INIT	"B'00010000" ++ XWHICHJES.INIT KEYWORD

## \$DTEMIGR Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
		.... 1...		MGRXIXAT_XWHICHJES_COMMON	"B'00001000" ++ XWHICHJES.COMMON KEYWORD
		.... .1..		MGRXIXAT_XWHICHJES_J3CIFSS	"B'00000100" ++ XWHICHJES.J3CIFSS 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 XRSV0002
2668	(A6C)	SIGNED	4	MGRXIXAT_XDIAG	++ XDIAG
2672	(A70)	CHARACTER	8	MGRXIXAT_XLINKPARMS	++ FIELD_LABEL XLINKPARMS
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	M00M1066	"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
		.1.. ....		MGRXIXAC_KEYUSED_DATALEN	"B'01000000" ++ KEYUSED.DATALEN KEYWORD
		..1. ....		MGRXIXAC_KEYUSED_USERRC	

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
		...1 ....		MGRXIXAC_KEYUSED_SYSRC	"B'00100000" ++ KEYUSED.USERRC KEYWORD
		.... 1...		MGRXIXAC_KEYUSED_SYSRSN	"B'00010000" ++ KEYUSED.SYSRC KEYWORD
2657	(A61)	BITSTRING	1	MGRXIXAC_XMSGATTR	"B'00001000" ++ KEYUSED.SYSRSN KEYWORD
		1... ....		MGRXIXAC_XMSGATTR_J3CONNECT	++ INPUT
		.1.. ....		MGRXIXAC_XMSGATTR_EXPRESS	"B'10000000" ++ XMSGATTR.J3CONNECT KEYWORD
2657	(A61)	X'2A'	0	MGRXIXACL	"B'01000000" ++ XMSGATTR.EXPRESS KEYWORD **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	M00M1067 (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	M00M1068 (0)	IXZXIXMB-1
2616	(A38)	DBL WORD	8	MGRXIXMB (0)	++ IXZXIXMB PARM LIST
2616	(A38)	BITSTRING	1	MGRXIXMB_XVERSION	++ INPUT XVERSION
2617	(A39)	CHARACTER	6	MGRXIXMB_XEYECATCH	++ CONSTANT XEYECATCH
2623	(A3F)	CHARACTER	1	MGRXIXMB_XRSV0001	

# \$DTEMIGR Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
2624	(A40)	CHARACTER	16	MGRXIXMB_XMBOXNAME	++ RESERVED XRSV0001 ++ 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	M00M1069 (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
Comment					
----- IXZXIXDT MF=(L,MGRXIXDT) Detach JESXCF group MACDATE -00/02/02-<1>					
End of Comment					
0	(0)	X'A38'	0	M00M1070	"MGRXIXDT" ++ IXZXIXDT NAME



Offsets						
Dec	Hex	Type/Value	Len	Name (Dim)	Description	
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	M00M1071 (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	
		1... ....		MGRXIXRM_KEYUSED_MSGFETCH	"B'10000000" ++ KEYUSED.MSGFETCH KEYWORD	
2661	(A65)	X'2E'	0	MGRXIXRML	**MGRXIXRM" ++ LENGTH OF PLIST	

# \$DTEMIGR Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
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 -02/15/11-<4>					
End of Comment					
0	(0)	X'A38'	0	M00M1072	"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_DISCARDATA	"7" ++ XREQUEST.DISCARDATA 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_PCIEFIX	"16" ++ XREQUEST.PCIEFIX KEYWORD
2617	(A39)	X'11'	0	MGRIR64L_XREQUEST_PCIEUNFIX	"17" ++ XREQUEST.PCIEUNFIX KEYWORD
2618	(A3A)	BITSTRING	1	MGRIR64L_XFLAGS0	++ FIELD_LABEL
		1... ..		MGRIR64L_XMOTKNSOURCE_SYSTEM	"B'10000000" ++ XMOTKNSOURCE.SYSTEM KEYWORD
		.1.. ..		MGRIR64L_XMOTKNCREATOR_SYSTEM	"B'01000000" ++ XMOTKNCREATOR.SYSTEM KEYWORD
		..1. ....		MGRIR64L_XMATCH_MOTOKEN	"B'00100000" ++ XMATCH.MOTOKEN KEYWORD
2619	(A3B)	BITSTRING	1	MGRIR64L_XKEY	++

Offsets						
Dec	Hex	Type/Value	Len	Name (Dim)	Description	
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_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			
				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_XSVCUMPRGN_NO	"B'00000100" ++ XSVCUMPRGN.NO KEYWORD
				.... ..1.	MGRIR64L_XV64SHARED_NO	"B'00000010" ++ XV64SHARED.NO KEYWORD
				.... ...1	MGRIR64L_XSVCUMPRGN_ALL	"B'00000001" ++ XSVCUMPRGN.ALL KEYWORD
				2623	(A3F)	BITSTRING
1... ....	MGRIR64L_XLONG_NO	"B'10000000" ++ XLONG.NO KEYWORD				
.1.. ....	MGRIR64L_XCLEAR_NO	"B'01000000" ++ XCLEAR.NO KEYWORD				
..1. ....	MGRIR64L_XVIEW_READONLY	"B'00100000" ++ XVIEW.READONLY KEYWORD				
...1 ....	MGRIR64L_XVIEW_SHAREDWRITE	"B'00010000" ++ XVIEW.SHAREDWRITE KEYWORD				

## \$DTEMIGR Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
		.... 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	"B'00000001" ++ XOWNERCOM.BYASID KEYWORD
2738	(AB2)	BITSTRING	1	MGRIR64L_XFLAGS6	++ FIELD_LABEL
		1... ....		MGRIR64L_XV64COMMON_NO	"B'10000000" ++ XV64COMMON.NO KEYWORD

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
		.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
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 KEYWORD
		.1.. ....		MGRIR64L_XPAGEFRAMESIZE_DREF1MEG	"B'01000000" ++ XPAGEFRAMESIZE.DREF1MEG KEYWORD
2742	(AB6)	BITSTRING	2	MGRIR64L_XOWNERASID	++
2744	(AB8)	BITSTRING	1	MGRIR64L_XOPTIONVALUE	++
2745	(AB9)	CHARACTER	8	MGRIR64L_XRSV0001	++ RESERVED
2753	(AC1)	CHARACTER	8	MGRIR64L_XOWNERJOBNAME	++
2761	(AC9)	CHARACTER	7	MGRIR64L_XRSV0004	++ RESERVED
2768	(AD0)	ADDRESS	8	MGRIR64L_XDMAPAGETABLE	++
2768	(AD0)	X'AD8'	0	MGRIR64L_PL_END	*** ++ END OF BASE PLIST
2648	(A58)	DBL WORD	8	MGRIR64L_XOUTMOTKN	

## \$DTEMIGR Cross Reference

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
2648	(A58)	DBL WORD	8	MGRIR64L_XMOTKN	++
2776	(AD8)	X'A0'	0	MGRIR64LL	++ **MGRIR64L" ++ LENGTH OF PLIST
Comment					
IARV64-4					
End of Comment					
2776	(AD8)	ADDRESS	8	MGRIRNGL (0)	Range list for PAGEFIX
2776	(AD8)	ADDRESS	8	MGRIRNGA	Address of area to fix
2784	(AE0)	DBL WORD	8	MGRIRNGP	Number of pages to fix
2784	(AE0)	X'A38'	0	MGRIRAR64	"MGRIR64L,*-MGRIR64L" IARV64 MF=L symbol/length
2792	(AE8)	ADDRESS	2	(0)	Ensure area fits
2816	(B00)	X'608'	0	MGRCLEAR	"MGRSTART" Area to be zeroed
2816	(B00)	X'4F8'	0	MGRLLLEN	**DTEWORK" Length of work area

## \$DTEMIGR Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
DTE	0		MGRCLEAR	B00	608
MGACTCPY	634		MGRDCB	7EE	784
MGASRCHI	740		MGRDCBE	7B8	C4C3C2C5
MGASRCST	738		MGRDCBMF	784	
MGASSIST	891	8	MGRENQTK	759	
MGATGSTR	860		MGRFLG3	684	
MGATGTTG	878		MGRFLG4	685	
MGATGWRT	864		MGRFLG5	686	
MGATTACH	60D	8	MGRFLG52	687	
MGATTH	92C	20	MGRFLG6	688	
MGECBLST	610		MGRHITG	750	
MGECBLS2	614		MGRIRAR64	AE0	A38
MGEXITID	638		MGRIBATI	8E0	
MGFULL	891	20	MGRIBATO	8E4	
MGGENEID	640		MGRIBITM	8E8	
MGGENERE	63C		MGRIBUFC	8B0	
MGGENERP	614		MGRIBUFP	8A0	
MGGROUP	94D	E2E8E2D4	MGRIBUFR	898	
MGRPTKN	96C		MGRIECB	900	
MGHEARID	648		MGRIFLG1	8BC	
MGHEARTE	644		MGRIFREE	8C0	
MGHEARTP	618		MGRILTRK	8F0	
MGJDIAG	968		MGRIPEND	8D0	
MGMAILST	92C		MGRIREAD	8C8	
MGMEMCAN	891	40	MGRIRNGA	AD8	
MGMEMREC	891	80	MGRIRNGL	AD8	
MGMG_CRT	92C	80	MGRIRNGP	AE0	
MGMGVOLP	61C		MGRIR64L	A38	
MGMGVOLS	92D	E2E8E2D1	MGRIR64L_KEYUSED_CONVERTSIZE64		
MGMIGRAT	891	10		A3C	4
MGPATHL	660		MGRIR64L_KEYUSED_CONVERTSTART		
MGPATHS	660	80		A3C	10
MGPATHT	660	40	MGRIR64L_KEYUSED_DUMP		
MGPSTSPL	608			AB3	80
MGR#IOCM	98C		MGRIR64L_KEYUSED_GUARDSIZE64		
MGRALLOC	758	80		A3C	8
MGRASSSN	988		MGRIR64L_KEYUSED_KEY		
MGRBMHDL	734			A3C	80
MGRBMHDR	730		MGRIR64L_KEYUSED_MOTKN		
MGRBOX1	970			A3C	2
MGRBOX2	974		MGRIR64L_KEYUSED_OPTIONVALUE		
MGRBTYPE	990			AB3	40

Name	Hex Offset	Hex Value
MGRIR64L_KEYUSED_OWNERJOBNAME	A3C	1
MGRIR64L_KEYUSED_SVCDUMPRGN	AB3	20
MGRIR64L_KEYUSED_TTOKEN	A3C	20
MGRIR64L_KEYUSED_USERTKN	A3C	40
MGRIR64L_PL_END		
MGRIR64L_XAFFINITY_SYSTEM	AD0	AD8
MGRIR64L_XALETVALUE	A3E	40
MGRIR64L_XAMOUNTSIZE_1MEG	A80	
MGRIR64L_XAMOUNTSIZE_4K	AB2	2
MGRIR64L_XATTRIBUTE_DEFS	AB2	4
MGRIR64L_XATTRIBUTE_NOTOWNERGONE	AB3	10
MGRIR64L_XATTRIBUTE_OWNERGONE	AB3	4
MGRIR64L_XCHANGEACCESS_GLOBAL	AB3	8
MGRIR64L_XCLEAR_NO	A3D	8
MGRIR64L_XCOND_YES	A3F	40
MGRIR64L_XCONTROL_AUTH	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		

Name	Hex Offset	Hex Value
MGRIR64L_XFLAGS0	AB1	80
MGRIR64L_XFLAGS1	A3A	
MGRIR64L_XFLAGS2	A3C	
MGRIR64L_XFLAGS3	A3D	
MGRIR64L_XFLAGS4	A3E	
MGRIR64L_XFLAGS5	A3F	
MGRIR64L_XFLAGS6	AB1	
MGRIR64L_XFLAGS7	AB2	
MGRIR64L_XFLAGS8	AB3	
MGRIR64L_XFPROT_NO	AB5	
MGRIR64L_XGUARDLOC_HIGH	A3D	40
MGRIR64L_XGUARDSIZE	A3D	10
MGRIR64L_XGUARDSIZE64	A78	
MGRIR64L_XKEEPREAL_NO	AA0	
MGRIR64L_XKEY	A3F	1
MGRIR64L_XLOCALSYSAREA_YES	A3B	
MGRIR64L_XLONG_NO	AB2	8
MGRIR64L_XMATCH_MOTOKEN	A3F	80
MGRIR64L_XMATCH_USERTOKEN	A3A	20
MGRIR64L_XMEMLIMIT_NO	A3E	80
MGRIR64L_XMEMOBJSTART	AB2	40
MGRIR64L_XMOTKN	A70	
MGRIR64L_XMOTKNCREATOR_SYSTEM	A58	
MGRIR64L_XMOTKNSOURCE_SYSTEM	A3A	40
MGRIR64L_XNUMRANGE	A3A	80
MGRIR64L_XOPTIONVALUE	A84	
MGRIR64L_XORDER_DUMPPRIORITY	AB8	
MGRIR64L_XORIGIN	AB1	40
MGRIR64L_XOUTMOTKN	A60	
MGRIR64L_XOWNER_NO	A58	
MGRIR64L_XOWNER_NO	A3E	10
MGRIR64L_XOWNERASID	AB6	
MGRIR64L_XOWNERCOM_BYASID	AB1	1





\$DTEMIGR Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
MGRPERCE	689		MGRWRKA	650	0
MGRRECOV	891		MGRWRKB	658	
MGRSBITA	708		MGRXBUFA	980	
MGRSBITB	710		MGRXBUFL	984	
MGRSBITR	71C		MGRXIXAC	A38	
MGRSBTAS	72C		MGRXIXAC_KEYUSED_DATA		
MGRSBTRK	718			A60	80
MGRSECKD	758	20	MGRXIXAC_KEYUSED_DATALEN		
MGRSENDA	978			A60	40
MGRSENDL	97C		MGRXIXAC_KEYUSED_SYSRC		
MGRSERR	892			A60	10
MGRSRBYT	74C		MGRXIXAC_KEYUSED_SYSRSN		
MGRSRCST	73C			A60	8
MGRSRDAS	704		MGRXIXAC_KEYUSED_USERRC		
MGRSRDBB	694	694		A60	20
MGRSRDBE	694	6B4	MGRXIXAC_XDATA		
MGRSRDEB	694			A48	
MGRSRDTD	758	10	MGRXIXAC_XDATALEN		
MGRSRECT	754			A4C	
MGRSREXT	690	0	MGRXIXAC_XEYECATCH		
MGRSRINF	758			A39	
MGRSRREL	758	40	MGRXIXAC_XGROUPTOKEN		
MGRSRRPS	6C4	0		A54	
MGRSRTRC	748		MGRXIXAC_XKEYS		
MGRSRTRK	744			A60	
MGRSRVOL	68A		MGRXIXAC_XMSGATTR		
MGRSTART	608			A61	
MGRSTMSL	9A0	18	MGRXIXAC_XMSGATTR_EXPRESS		
MGRSTMST	9A0	0		A61	40
MGRSWTRD	758	8	MGRXIXAC_XMSGATTR_J3CONNECT		
MGRTCLNT	A08			A61	80
MGRTCPYC	9F0		MGRXIXAC_XMSGTOKEN		
MGRTCPYM	9F4			A40	
MGRTCPYT	9E8		MGRXIXAC_XSTB		
MGRTCUPC	A00			A3F	
MGRTCUPM	A04		MGRXIXAC_XSTB_NO		
MGRTCUPT	9F8			A3F	80
MGRTDAST	874		MGRXIXAC_XSTB_YES		
MGRTECKD	890	80		A3F	40
MGRTGBYT	880		MGRXIXAC_XSYSRC		
MGRTGDBB	7F0	7F0		A58	
MGRTGDBE	7F0	810	MGRXIXAC_XSYSRSN		
MGRTGDEB	7F0			A5C	
MGRTGENT	888		MGRXIXAC_XUSERRC		
MGRTGEXT	782	0		A50	
MGRTGINF	890		MGRXIXAC_XVERSION		
MGRTGRPS	820	0		A38	
MGRTGSTT	884		MGRXIXACL	A61	2A
MGRTGTG	87C		MGRXIXAT	A38	
MGRTGTRC	870		MGRXIXAT_XDIAG		
MGRTGTRK	86C			A6C	
MGRTGVOL	77C		MGRXIXAT_XEYECATCH		
MGRTGWRT	868			A39	
MGRTINTT	9D8		MGRXIXAT_XFLAG1		
MGRTMSGC	A30			A68	
MGRTNEWT	A10		MGRXIXAT_XFLAG2		
MGRTOVRT	A18			A69	
MGRTRDTD	890	40	MGRXIXAT_XGROUP		
MGRTRECT	88C			A40	
MGRTSETT	9E0		MGRXIXAT_XGROUPTOKEN		
MGRTSRPS	890	10		A64	
MGRTSTRT	A20		MGRXIXAT_XJ3CONNECT_NO		
MGRTWTRD	890	20		A69	80
MGRWBSTL	908		MGRXIXAT_XJ3CONNECT_YES		
MGRWBSTR	904			A69	40

## \$DTEMIGR Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
MGRXIXAT_XLINKPARMS	A70			A69	
MGRXIXAT_XMAINTLVL	A60		MGRXIXMC_XGROUPTOKEN	A80	
MGRXIXAT_XMEMBER	A48		MGRXIXMC_XMBOXNAME	A70	
MGRXIXAT_XRELEASE	A58		MGRXIXMC_XSTB	A6F	
MGRXIXAT_XRSV0001	A3F		MGRXIXMC_XSTB_NO	A6F	80
MGRXIXAT_XRSV0002	A6A		MGRXIXMC_XSTB_YES	A6F	40
MGRXIXAT_XVERSION	A38		MGRXIXMC_XVERSION	A68	
MGRXIXAT_XWHICHJES_COMMON	A68	8	MGRXIXMCL	A80	1C
MGRXIXAT_XWHICHJES_INIT	A68	10	MGRXIXMD	A38	
MGRXIXAT_XWHICHJES_JES2	A68	80	MGRXIXMD_XEYECATCH	A39	
MGRXIXAT_XWHICHJES_JES3	A68	40	MGRXIXMD_XGROUPTOKEN	A50	
MGRXIXAT_XWHICHJES_J3CIFSS	A68	4	MGRXIXMD_XMBOXNAME	A40	
MGRXIXAT_XWHICHJES_J3FSS	A68	20	MGRXIXMD_XSTB	A3F	
MGRXIXATL	A70	40	MGRXIXMD_XSTB_NO	A3F	80
MGRXIXDT	A38		MGRXIXMD_XSTB_YES	A3F	40
MGRXIXDT_XEYECATCH	A39		MGRXIXMD_XVERSION	A38	
MGRXIXDT_XGROUPTOKEN	A40		MGRXIXMDL	A50	1C
MGRXIXDT_XLINKPARMS	A44		MGRXIXRM	A38	
MGRXIXDT_XRSV0001	A3F		MGRXIXRM_KEYUSED_MSGFETCH	A65	80
MGRXIXDT_XVERSION	A38		MGRXIXRM_XDATA	A50	
MGRXIXDTL	A44	14	MGRXIXRM_XDATALEN	A54	
MGRXIXMB	A38		MGRXIXRM_XEYECATCH	A39	
MGRXIXMB_XEYECATCH	A39		MGRXIXRM_XGROUPTOKEN	A60	
MGRXIXMB_XGROUPTOKEN	A5C		MGRXIXRM_XKEYS	A65	
MGRXIXMB_XMBOXNAME	A40		MGRXIXRM_XMBOXNAME	A40	
MGRXIXMB_XPOSTALET	A58		MGRXIXRM_XMSGFETCH	A64	
MGRXIXMB_XPOSTDATA	A54		MGRXIXRM_XMSGFETCH_ACKS	A64	10
MGRXIXMB_XPOSTXIT	A50		MGRXIXRM_XMSGFETCH_ALL	A64	80
MGRXIXMB_XRSV0001	A3F		MGRXIXRM_XMSGFETCH_MESSAGES	A64	40
MGRXIXMB_XSYSEVENT_NO	A60	40	MGRXIXRM_XMSGFETCH_SYSEVENT	A64	20
MGRXIXMB_XSYSEVENT_YES	A60	80	MGRXIXRM_XMSGTOKEN	A58	
MGRXIXMB_XSYSEVENTS	A60		MGRXIXRM_XRSV0001	A3F	
MGRXIXMB_XVERSION	A38		MGRXIXRM_XVERSION	A38	
MGRXIXMBL	A60	29	MGRXIXRML	A65	2E
MGRXIXMC	A68		MGRXTOKN	998	
MGRXIXMC_XEYECATCH			MGR1CANC	60C	14
			MGR1CHK	60C	18

Name	Hex Offset	Hex Value
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
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	
MGRSRMOBJ	65C	
MG1BITMB	60D	10
MG1ERABN	60D	80
MG1ERFL1	60D	
MG1MGBAD	60D	40
MG1RNBAD	60D	20
M00M1064	0	A38
M00M1066	0	A38
M00M1067	A62	
M00M1068	A38	
M00M1069	A38	
M00M1070	0	A38
M00M1071	A38	
M00M1072	0	A38

## \$DTEMIGR Cross Reference

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**\$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:** \$DTEOFF 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 \$\$ command against a drained device. The subtask (and DTE) definitions are defined in the \$DTEOFF 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 \$\$ command. The JES2 \$DTEOFF 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

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
1565	(61D)	ADDRESS	3		BUFCB, BUFFER POOL CONTROL BLOCK
1568	(620)	ADDRESS	2		BUFL, BUFFER LENGTH
1570	(622)	BITSTRING	2		DSORG, DATA SET ORGANIZATION
1572	(624)	ADDRESS	4		IOBAD FOR EXCP OR RESERVED FOUNDATION EXTENSION
1576	(628)	BITSTRING	1		BFTEK, BFALN, DCBE INDICATORS
1577	(629)	ADDRESS	3		EODAD (END OF DATA ROUTINE ADDRESS)
1580	(62C)	BITSTRING	1		RECFM (RECORD FORMAT)
1581	(62D)	ADDRESS	3		EXLST (EXIT LIST ADDRESS) FOUNDATION BLOCK
1584	(630)	CHARACTER	8		DDNAME
1592	(638)	BITSTRING	1		OFLGS (OPEN FLAGS)
1593	(639)	BITSTRING	1		IFLGS (IOS FLAGS)
1594	(63A)	BITSTRING	2		MACR (MACRO FORMAT) BSAM-BPAM-QSAM INTERFACE
1596	(63C)	BITSTRING	1		OPTCD, OPTION CODES
1597	(63D)	ADDRESS	3		CHECK OR INTERNAL QSAM SYNCHRONIZING RTN.
1600	(640)	ADDRESS	4		SYNAD, SYNCHRONOUS ERROR RTN. (3 BYTES)
1604	(644)	SIGNED	2		INTERNAL ACCESS METHOD FLAGS
1606	(646)	ADDRESS	2		
1608	(648)	SIGNED	4		INTERNAL ACCESS METHOD FLAGS
1612	(64C)	ADDRESS	4		INTERNAL ACCESS METHOD USE BSAM-BPAM INTERFACE
1616	(650)	ADDRESS	1		NCP, MAX NUM OF OUTSTANDING READ/WRITES
1617	(651)	ADDRESS	3		EOBR, INTERNAL ACCESS METHOD USE
1620	(654)	ADDRESS	4		EOBW, INTERNAL ACCESS METHOD USE
1624	(658)	ADDRESS	1	(2)	FLAGS AND EITHER DIRCT OR BUFOFF
1626	(65A)	ADDRESS	2		LRECL
1628	(65C)	ADDRESS	4		CNTRL, NOTE, POINT
1628	(65C)	X'608'	0	DOFDCB	"DOFDCBST,*-DOFDCBST" DEFINE BASE AND LENGTH OF DCB

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

## \$DTEOFF Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
1700	(6A4)	ADDRESS	4		AREA ADDRESS
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



Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
1922	(782)	ADDRESS	2	DOFDATU8 (3)	LABEL=
1928	(788)	ADDRESS	1	DOFDALBL	LABEL TYPE (SL,NL,AL,...)
1929	(789)	ADDRESS	2	DOFDATU9 (3)	RETENTION PERIOD
1935	(78F)	ADDRESS	2	DOFDARPD	IN DAYS
1937	(791)	ADDRESS	2	DOFDATUA (2)	SAF PROTECTION OPTION
1941	(795)	ADDRESS	2	DOFDATUB (2)	UNIT=(,DEFER)
1945	(799)	CHARACTER	1	DOFDATNN (0)	End of text units

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

## \$DTEOFF Cross Reference

Offsets		Type/Value	Len	Name (Dim)	Description
Dec	Hex				
2032	(7F0)	ADDRESS	4		REPLY ECB ADDRESS
2036	(7F4)	ADDRESS	4		CONNECT ID
2040	(7F8)	BITSTRING	2		DESCRIPTOR CODES
2042	(7FA)	ADDRESS	2		RESERVED
2044	(7FC)	BITSTRING	16		
2060	(80C)	BITSTRING	2		MESSAGE TYPE
2062	(80E)	ADDRESS	2		MESSAGE'S PRIORITY
2064	(810)	CHARACTER	8		JOB ID
2072	(818)	CHARACTER	8		JOB NAME
2080	(820)	CHARACTER	8		RETRIEVAL KEY
2088	(828)	ADDRESS	4		TOKEN FOR DOM
2092	(82C)	ADDRESS	4		CONSOLE ID
2096	(830)	CHARACTER	8		SYSTEM NAME
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	** -DOFMSGAL"
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		DOFDAVOL	781	
DOFABND	6C0		DOFDCB	65C	608
DOFCHEKR	608	C	DOFDCBE	696	660
DOFCLOSR	608	8	DOFDCBES	660	C4C3C2C5
DOFDADDN	757		DOFDCBST	608	
DOFDADSN	71E		DOFDCTPT	7D0	
DOFDADSP	750	1	DOFDECB	698	0
DOFDAERR	6DC	0	DOFDUDDN	7BE	
DOFDALBL	788		DOFDURB	7A0	
DOFDARB	6D8		DOFDUST	79C	
DOFDARPD	78F		DOFDUTPP	7A8	
DOFDAST	6D4		DOFDUTP1	7B4	
DOFDATNN	799		DOFDUTU1	7B8	
DOFDATPA	710		DOFEODAD	7D8	40
DOFDATPB	714		DOFFLAG	7D8	0
DOFDATPP	6E0		DOFHDATE	6B4	0
DOFDATP1	6EC		DOFHDBUF	6AC	0
DOFDATP2	6F0		DOFHDLN	6B8	14
DOFDATP3	6F4		DOFHNODE	6B8	40404040
DOFDATP4	6F8		DOFHTIME	6B0	0
DOFDATP5	6FC		DOFHVRSN	6AC	
DOFDATP6	700		DOFHVRS1	6AC	2
DOFDATP7	704		DOFMSG	84E	40404040
DOFDATP8	708		DOFMSGAL	7DC	
DOFDATP9	70C		DOFMSGL	848	70
DOFDATUA	791		DOFMSGAL	84C	
DOFDATUB	795		DOFOPENR	608	4
DOFDATU1	718		DOFOPRM	7C8	
DOFDATU2	74A		DOFSYBUF	7D8	7B6
DOFDATU3	751		DOFSYNAD	7D8	80
DOFDATU4	75F		DOFWLEN	84E	2AA
DOFDATU5	766		DOFWSTRT	608	
DOFDATU6	76D		DOFWTECB	7D4	0
DOFDATU7	77B		DTE	0	
DOFDATU8	782				
DOFDATU9	789				
DOFDAUCT	765				
DOFDAUNI	773				

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**\$DTESPL Programming Interface information**

Programming Interface information

**\$DTESPL**

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 \$DTEIDYD 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	SPLFCBA	Address of ECB for subtask
1552	(610)	ADDRESS	4	SPLTGMA	Volume TGM work area
1556	(614)	BITSTRING	32	SPLFNQTK	ISGENQ token
1588	(634)	SIGNED	4	(10)	Reserved for future use
1588	(634)	X'54'	0	SPLNCLCA	** -SPLUCBPT" Length to be *not* zeroed
1628	(65C)	CHARACTER	1	SPLCSTR1 (0)	Fields to be zeroed
1628	(65C)	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
1629	(65D)	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.
1630	(65E)	.... ...1	1	SPL2SIZE	"B'00000001" Data set size error
		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
1631	(65F)	.... ...1	1	SPL3RPS	"B'00000001" Extent supports RPS
		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
1632	(660)	SIGNED	4	SPLNUMTC	\$\$\$SPL and this field contains the number of cylinders or tracks requested for a new volume if the \$\$\$SPL SPACE parm was specified
1636	(664)	BITSTRING	1	SPLFLG5	Additional flag byte
		1... ....		SPL5MAX	"B'10000000" MAX - \$\$\$SPL and MAX has been specified on SPACE keyword parm
		.1.. ....		SPL5CYLS	"B'01000000" CYL - \$\$\$SPL and CYL has been specified on SPACE keyword parm
		..1. ....		SPL5TRKS	"B'00100000" TRK - \$\$\$SPL 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).
1637	(665)	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 DSNL requested in z2 mode
		..1. ....		SPL6XTER	"B'00100000" Extend spool failure
1638	(666)	BITSTRING	1	SPLFLG7	Additional request flg byte
		1... ....		SPL7XTND	"B'10000000" The HOSPOOL subtask request is EXTEND SPOOL
1639	(667)	BITSTRING	1		Ensure alignment
1640	(668)	SIGNED	4	SPLURC	UCBINFO return code
1644	(66C)	SIGNED	4	SPLURSN	UCBINFO reason code
1648	(670)	ADDRESS	4	SPLCHAIN	ADDRESS OF NEXT WORK AREA
1652	(674)	ADDRESS	4	SPLDYNAL	ADDRESS OF DYNAMIC ALLOCATE RB
1656	(678)	SIGNED	4	SPLDYNRB (0)	Dynamic allocate req block
1676	(68C)	SIGNED	4	(0)	Ensure alignment
1676	(68C)	BITSTRING	36	SPLDYRBX	Request block extension
1712	(6B0)	SIGNED	4	(0)	Ensure alignment
1712	(6B0)	ADDRESS	4	SPLDYMPA	Address of DYNALLOC alloc error message parameter list
1716	(6B4)	ADDRESS	4	SPLDMSG1	Address of returned MSG #1 for DYNALLOC failure
1720	(6B8)	ADDRESS	4	SPLDMSG2	Address of returned MSG #2 for DYNALLOC failure
1724	(6BC)	BITSTRING	540	SPLDYMSP	The parm list + returned formatted messages area
2264	(8D8)	SIGNED	4	SPLOBTER	Obtain error return code
2268	(8DC)	ADDRESS	4	SPLTEXT (0)	LIST OF TEXT UNIT POINTERS
2268	(8DC)	ADDRESS	4	SPLDDTA	POINTER TO DDNAME TEXT UNIT

## \$DTESPL Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
2272	(8E0)	ADDRESS	4	SPLDSNTA	POINTER TO DSNAME TEXT UNIT
2276	(8E4)	ADDRESS	4	SPLUDSPA (0)	POINTER TO DISP. TEXT UNIT FOR UNALLOCATION REQUESTS
2276	(8E4)	ADDRESS	4	SPLVOLTA	POINTER TO VOLUME SERIAL TXT UNIT
2280	(8E8)	ADDRESS	4	SPLUNITA	POINTER TO UNIT NAME TEXT UNIT
2284	(8EC)	ADDRESS	4	SPLDSPTA	POINTER TO DISPOSITION TEXT UNIT
----- Comment -----					
----- End of text unit pointers common for both deallocation and allocation. -----					
----- End of Comment -----					
2288	(8F0)	ADDRESS	4	SPLFASTA	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 -----					
2292	(8F4)	ADDRESS	4	SPLTRKNA	Pointer to track requested text unit
2296	(8F8)	ADDRESS	4	SPLNUMTA	Pointer to number of units requested - text unit
2300	(8FC)	ADDRESS	4	SPLCONTA	Pointer to contiguous storage requested - text unit
2304	(900)	ADDRESS	4	SPLDKEPA	Pointer to data space disposition (KEEP) - TEXT unit
2308	(904)	ADDRESS	4	SPLDSORA	Pointer to DSORG requested text unit
2312	(908)	ADDRESS	4	SPLDSTYA	Pointer to data set type specification
2316	(90C)	BITSTRING	6	SPLDDTXT	DDNAME TEXT
2322	(912)	CHARACTER	8	SPLDDNAM	DDNAME
2330	(91A)	BITSTRING	6	SPLDSTXT	DSNAME TEXT
2336	(920)	CHARACTER	44	SPLDSNAM	DSNAME
2380	(94C)	BITSTRING	6	SPLVLTXT	VOLUME SERIAL TEXT
2386	(952)	CHARACTER	6	SPLVOLID	VOLUME SERIAL
2392	(958)	BITSTRING	6	SPLUNTXT	UNIT TEXT
2398	(95E)	CHARACTER	5	SPLUNIT	Unit Name (or Type)
2406	(966)	BITSTRING	7	SPLDPTXT	DISPOSITION TEXT, DISPOSITION
2413	(96D)	BITSTRING	4	SPLTRACK	Tracks requested text
2417	(971)	BITSTRING	9	SPLNUMTK	Number units requested text
2426	(97A)	BITSTRING	7	SPLCONTX	Contig storage request text
2433	(981)	BITSTRING	8	SPLDSORT	Data set organization text
2441	(989)	BITSTRING	7	SPLDSKEP	Data set disp (KEEP) text
2448	(990)	BITSTRING	7	SPLDSTYP	Data set type = basic or large format
2455	(997)	BITSTRING	7	SPLFASTX	Data set may or may not reside in EAS storage
2464	(9A0)	SIGNED	4	SPLCMLST (4)	CAMLST FOR OBTAIN
2480	(9B0)	DBL WORD	8	SPLDSCB (0)	OBTAIN WORK AREA
2628	(A44)	SIGNED	4	SPLDEVTL (0)	LENGTH OF PARAMETER LIST
2629	(A45)	ADDRESS	1		VERSION OF PARAMETER LIST
2630	(A46)	BITSTRING	2		Flags & reserved
2632	(A48)	ADDRESS	4		ADDRESS OF UCB LIST OR DD NAME
2636	(A4C)	ADDRESS	4		NUMBER OF UCBS IN LIST
2640	(A50)	ADDRESS	4		ADDRESS OF RESULT AREA
2644	(A54)	ADDRESS	4		SIZE OF RESULT AREA
2648	(A58)	ADDRESS	4		ADDRESS OF INFO LIST (DEVTYPE INFO=)
2648	(A58)	X'18'	0	SPLDEVTL	"*-SPLDEVTL" Length of list form
2652	(A5C)	SIGNED	4	(0)	Ensure alignment
2652	(A5C)	BITSTRING	20	SPLDEVO	DEVTYPE output area
2672	(A70)	BITSTRING	140	SPLLLSTO	LSPACE output area
2812	(AFC)	SIGNED	4	(0)	Ensure alignment
2812	(AFC)	SIGNED	4	(0)	

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
2812	(AFC)	CHARACTER	4	SPLLSPAC	EBCDIC 'LSPA' FOR LSPACE
2816	(B00)	ADDRESS	2		LENGTH OF PARAMETER LIST
2818	(B02)	ADDRESS	1		PARAMETER FLAG BYTE
2819	(B03)	BITSTRING	1		TIMEOUT VAL 1ST LSPACE I/O
2820	(B04)	SIGNED	4	(0)	DIAGNOSTIC INFORMATION
2820	(B04)	BITSTRING	1		LSPACE RETURN CODE
2821	(B05)	BITSTRING	1		SUBFUNCTION ID
2822	(B06)	BITSTRING	1		SUBFUNCTION RETURN CODE
2823	(B07)	BITSTRING	1		SUBFUNCTION REASON CODE
2824	(B08)	ADDRESS	4		UCB ADDRESS
2828	(B0C)	ADDRESS	4		ADDRESS OF DATA RETURN AREA (OR ZERO)
2832	(B10)	ADDRESS	4		ADDRESS OF FORMAT 4 DSCB RETURN AREA (OR ZERO)
2836	(B14)	ADDRESS	1		Parameter flag byte 2
2837	(B15)	BITSTRING	3		Unused flag bytes
2840	(B18)	BITSTRING	20		Reserved
2840	(B18)	X'B2C'	0	LSPA1074E	*** END OF PARAMETER LIST
2840	(B18)	X'30'	0	SPLLSPAL	**SPLLSPAC" Length of list form
2860	(B2C)	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
2864	(B30)	SIGNED	4	(0)	Ensure alignment
2864	(B30)	CHARACTER	8	SPLSTRCC (0)	VOLUME'S FIRST EXTENT
2864	(B30)	SIGNED	2	SPLLOWLIM (2)	LOWER CCcch of 1st extent Note: stored in absolute format
2868	(B34)	SIGNED	2	SPLUPLIM (2)	UPPER CCcch of 1st extent Note: stored in absolute format
2872	(B38)	SIGNED	4	SPLCRC	IOSCDR return code
2876	(B3C)	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

2880	(B40)	DBL WORD	8	SPLABS (0)	DS start/end absolute track
2880	(B40)	SIGNED	4	SPLWABS	Start absolute track no.
2884	(B44)	SIGNED	4	SPLUPABS	End absolute track number
2888	(B48)	DBL WORD	8	SPLTRK (0)	SPOOL start and end track
2888	(B48)	SIGNED	4	SPLWTRK	Start track value
2892	(B4C)	SIGNED	4	SPLUPTRK	End track value
2896	(B50)	SIGNED	4	SPLSTRK	Base track address (if relative addressing used)
2900	(B54)	SIGNED	4	SPL ECB	DIRECT ACCESS I/O WAIT ECB
2904	(B58)	BITSTRING	44	SPLIOB	Direct access IOB
2948	(B84)	BITSTRING	48	SPLIOBE	Reserve space for IOB extension
2996	(BB4)	SIGNED	4	(0)	Ensure word alignment
2996	(BB4)	BITSTRING	48	SPLIEDB	Reserve space for I/O error data block DATA CONTROL BLOCK
3044	(BE4)	SIGNED	4	SPLDCBMF (0)	ORIGIN ON WORD BOUNDARY DIRECT ACCESS DEVICE INTERFACE
3044	(BE4)	ADDRESS	4		DCBE ADDRESS
3048	(BE8)	BITSTRING	12		FDAD, DVTBL
3060	(BF4)	ADDRESS	4		KEYLEN, DEVT, TRBAL COMMON ACCESS METHOD INTERFACE
3064	(BF8)	ADDRESS	1		BUFNO, NUMBER OF BUFFERS
3065	(BF9)	ADDRESS	3		BUFCB, BUFFER POOL CONTROL BLOCK

## \$DTESPL Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
3068	(BFC)	ADDRESS	2		BUFL, BUFFER LENGTH
3070	(BFE)	BITSTRING	2		DSORG, DATA SET ORGANIZATION
3072	(C00)	ADDRESS	4		IOBAD FOR EXCP OR RESERVED FOUNDATION EXTENSION
3076	(C04)	BITSTRING	1		BFTEK, BFALN, DCBE INDICATORS
3077	(C05)	ADDRESS	3		EODAD (END OF DATA ROUTINE ADDRESS)
3080	(C08)	BITSTRING	1		RECFM (RECORD FORMAT)
3081	(C09)	ADDRESS	3		EXLST (EXIT LIST ADDRESS) FOUNDATION BLOCK
3084	(C0C)	CHARACTER	8		DDNAME
3092	(C14)	BITSTRING	1		OFLGS (OPEN FLAGS)
3093	(C15)	BITSTRING	1		IFLGS (IOS FLAGS)
3094	(C16)	BITSTRING	2		MACR (MACRO FORMAT)
Comment					
DATA CONTROL BLOCK EXTENSION.					
End of Comment					
3096	(C18)	SIGNED	4	SPLDCBE (0)	0 Alignment and identifier
3100	(C1C)	SIGNED	2		4 Length of DCBE, minimum is 56
3102	(C1E)	BITSTRING	2		6 Reserved, should be zero
3104	(C20)	ADDRESS	4		8 0 if not open, OPEN points to DCB
3108	(C24)	BITSTRING	4		C Disk address of current member
3112	(C28)	BITSTRING	1		10 Flags set by system
3113	(C29)	BITSTRING	1		11 Flags set by user
3114	(C2A)	SIGNED	2		12 Number of stripes if extended format
3116	(C2C)	BITSTRING	1		14 Flags set by user
3117	(C2D)	BITSTRING	3		15 Reserved
3120	(C30)	BITSTRING	4		18 Reserved
3124	(C34)	ADDRESS	4		1C Block size
3128	(C38)	BITSTRING	8		20 Reserved & number of blocks in ds
3136	(C40)	ADDRESS	4		28 End of data routine address or 0
3140	(C44)	ADDRESS	4		2C I/O error routine (synchronous) or 0
3144	(C48)	BITSTRING	6		30 Reserved, should be zero
3150	(C4E)	ADDRESS	1	(2)	36 MULTACC and MULTSDN
Comment					
SHORTEST POSSIBLE DCBE IN ANY RELEASE.					
End of Comment					
3150	(C4E)	X'BE4'	0	SPLDCB	"SPLDCBMF,*-SPLDCBMF" DCB/DCBE length
3152	(C50)	BITSTRING	1	SPLDEB	SPOOL DEB address
3152	(C50)	X'C50'	0	SPLDEBB	"SPLDEB,DEBBASIZ" DEB basic
3152	(C50)	X'C70'	0	SPLDEBE	"SPLDEB+DEBBASIZ,DEBEXLEN" Single DA extent
3200	(C80)	ADDRESS	4	SPLNVL	NVL address (during init)
3204	(C84)	ADDRESS	4	SPLTCBPT	TCB ADDRESS (USED DURING INIT.)
3208	(C88)	SIGNED	4	SPLTKCYL	NUMBER OF HEADS PER CYLINDER
3212	(C8C)	SIGNED	2	SPLNORTK	NUMBER OF RECORDS PER TRACK
3214	(C8E)	SIGNED	2	SPLNOTGP	NUMBER OF TRACKS PER GROUP
3216	(C90)	SIGNED	4	SPLINTRK	Expected number of tracks or zero (set from DAS on warm start)
3220	(C94)	SIGNED	4	SPLNMTRK	Number of tracks in extent
3224	(C98)	SIGNED	4	SPLNOBYM	Number of bytes in TGM
3228	(C9C)	SIGNED	4	SPLNUMTG	NUMBER OF USABLE TRACK GROUPS
3232	(CA0)	SIGNED	4	SPLMAXTG	Copy of \$NUMTG from HCT
3236	(CA4)	ADDRESS	4	SPLFMTWA	SPFORMAT work area address
3240	(CA8)	SIGNED	4	SPLFMTWL	SPFORMAT work area size
3244	(CAC)	ADDRESS	4	SPLFMTWD	Work area data section ptr
3248	(CB0)	ADDRESS	4	SPLFMTDA	Format buffer write area
3256	(CB8)	DBL WORD	8	SPLCCWS (0)	CCWS FOR READ COUNT-KEY-DATA
3256	(CB8)	DBL WORD	8	SPLCCW1	1ST CCW
3264	(CC0)	DBL WORD	8	SPLCCW2	2ND CCW
3272	(CC8)	DBL WORD	8	SPLCCW3	3RD CCW



Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
3280	(CD0)	DBL WORD	8	SPLRDCT	READ-IN AREA
3288	(CD8)	ADDRESS	4	SPLCFLDS	POINTER TO 8 BEFORE 1ST COUNT FLD

Comment

Fields used as input to SPFORMAT

End of Comment

3296	(CE0)	DBL WORD	8	(0)	Alignment
3296	(CE0)	CHARACTER	7	SPLFMSTR	MBBCCHH of the first/only track to be formatted
3303	(CE7)	CHARACTER	1		Reserved
3304	(CE8)	CHARACTER	7	SPLFMEND	MMBCCHH of last track to be formatted.
3311	(CEF)	CHARACTER	1		Reserved

Comment

Input parameters for SPMINIFM (mapped by SFMPARM in HASPSPOL)

End of Comment

3312	(CF0)	BITSTRING	1	SPLMFPRM	SPMINIFM parameter list
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Comment

SPLOUTP and SPOUTPL describe an output area used by the UCBINFO and IOSCDR macros.

End of Comment

3344	(D10)	ADDRESS	4	SPLOUTP	Address of output area
3348	(D14)	SIGNED	4	SPOUTPL	Length of output area
3352	(D18)	SIGNED	4	SPLCDRAS	Size of IOSCDR output area necessary
3356	(D1C)	SIGNED	4	SPLDIAGR	DIAGNOSE return code
3360	(D20)	BITSTRING	1	SPLCHPID	CHPID used for IOSCDR
3361	(D21)	BITSTRING	3		Reserved for future use
3364	(D24)	SIGNED	4	(4)	Reserved for future use
3380	(D34)	SIGNED	4	SPLOPCL (0)	ALIGN LIST TO FULLWORD
3380	(D34)	ADDRESS	1		OPTION BYTE
3381	(D35)	ADDRESS	3		DCB ADDRESS
3381	(D35)	X'4'	0	SPLOCLEN	**-SPLOPCL" Length of OPEN, CLOSE workarea
3384	(D38)	ADDRESS	4	SPLRECTK	DVCT OR UCB ADDR, OR DEVTYPE
3388	(D3C)	BITSTRING	1		FLAG BYTE
3389	(D3D)	BITSTRING	1		RESERVED
3390	(D3E)	ADDRESS	2		TRACK BALANCE
3392	(D40)	ADDRESS	1		RECORD NUMBER
3393	(D41)	ADDRESS	1		KEY LENGTH
3394	(D42)	ADDRESS	2		DATA LENGTH
3394	(D42)	X'C'	0	SPLTKLEN	**-SPLRECTK" LENGTH OF WORK AREA (FOR DTESPL IPCS MODEL)

Comment

MACDATE = 08/19/88

End of Comment

3396	(D44)	BITSTRING	24	SPLSTIM	REMOTE STIMERM SET PARM LIST
3396	(D44)	X'18'	0	SPLSTIML	**-SPLSTIM" Length of MF=L form
3424	(D60)	DBL WORD	8	SPLXDS (0)	
3424	(D60)	CHARACTER	1		
3424	(D60)	X'64'	0	SPLXDLN	**-SPLXDS" Length of parm list
3524	(DC4)	SIGNED	4	SPLMXTRK	Maximum number of tracks allowed in a SPOOL.

# \$DTESPL Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
3528	(DC8)	BITSTRING	1	SPLXTNO	Extent number
3529	(DC9)	CHARACTER	1		Reserved for alignment
Comment					
MACDATE -01/22/01-<1>					
End of Comment					
0	(0)	X'DD0'	0	M00M1082	"SPLCAPU" ++ IOSCAPU NAME
3536	(DD0)	DBL WORD	8	SPLCAPU (0)	++ IOSCAPU PARM LIST
3536	(DD0)	BITSTRING	1	SPLCAPU_XVERSION	++ INPUT XVERSION
3537	(DD1)	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
3538	(DD2)	CHARACTER	2	SPLCAPU_XRESERVED1	++ FIELD_LABEL XRESERVED1
3540	(DD4)	ADDRESS	4	SPLCAPU_XUCBPTR	++ XUCBPTR
3544	(DD8)	ADDRESS	4	SPLCAPU_XCAPTPTR	++ XCAPTPTR
3548	(DDC)	CHARACTER	1	SPLCAPU_XRESERVED2	++ FIELD_LABEL XRESERVED2
3549	(DDD)	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
3550	(DDE)	BITSTRING	2	SPLCAPU_XASID	++ XASID
3552	(DE0)	CHARACTER	16	SPLCAPU_XRESERVED3	++ FIELD_LABEL XRESERVED3
3552	(DE0)	X'20'	0	SPLCAPUL	** -SPLCAPU" ++ LENGTH OF PLIST
Comment					
IOSCAPU-1					
End of Comment					
0	(0)	X'9B0'	0	SPLMSG	"SPLDSCB,80" SUBTASK MESSAGE AREA
0	(0)	X'A00'	0	SPLWORK	"SPLDSCB+L'SPLMSG,10" SUBTASK MESSAGE WORK AREAS
0	(0)	X'A0A'	0	SPLCC	"SPLWORK+L'SPLWORK,4" SUBTASK ABEND COMPLETION CODE
3568	(DF0)	DBL WORD	8	(0)	MACDATE -10/28/08-<3>
0	(0)	X'DF0'	0	M00M1084	"SPLUCBIF" ++ UCBINFO NAME
3568	(DF0)	DBL WORD	8	SPLUCBIF (0)	++ UCBINFO PARM LIST
3568	(DF0)	BITSTRING	1	SPLUCBIF_XVERSION	

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
3569	(DF1)	BITSTRING	1	SPLUCBIF_XFLAGS	++ INPUT XVERSION
		1... ....		SPLUCBIF_KEYUSED_DEVCOUNT	++ FIELD_LABEL "B'10000000" ++ KEYUSED.DEVCOUNT KEYWORD
		.1.. ....		SPLUCBIF_KEYUSED_PRFXDATA	"B'01000000" ++ KEYUSED.PRFXDATA KEYWORD
		..1. ....		SPLUCBIF_KEYUSED_PATHMAP	"B'00100000" ++ KEYUSED.PATHMAP KEYWORD
		...1 ....		SPLUCBIF_KEYUSED_DEVN	"B'00010000" ++ KEYUSED.DEVN KEYWORD
		.... 1...		SPLUCBIF_KEYUSED_GETCDR	"B'00001000" ++ KEYUSED.GETCDR KEYWORD
		.... .1..		SPLUCBIF_KEYUSED_PATHINFO	"B'00000100" ++ KEYUSED.PATHINFO KEYWORD
		.... ..1.		SPLUCBIF_KEYUSED_DEVINFO	"B'00000010" ++ KEYUSED.DEVINFO KEYWORD
		.... ...1		SPLUCBIF_KEYUSED_PAVINFO	"B'00000001" ++ KEYUSED.PAVINFO KEYWORD
3570	(DF2)	BITSTRING	1	SPLUCBIF_XDEVCLASS	++ XDEVCLASS
3570	(DF2)	X'0'	0	SPLUCBIF_XDEVCLASS_ALL	"0" ++ XDEVCLASS.ALL KEYWORD
3570	(DF2)	X'1'	0	SPLUCBIF_XDEVCLASS_TAPE	"1" ++ XDEVCLASS.TAPE KEYWORD
3570	(DF2)	X'2'	0	SPLUCBIF_XDEVCLASS_COMM	"2" ++ XDEVCLASS.COMM KEYWORD
3570	(DF2)	X'3'	0	SPLUCBIF_XDEVCLASS_DASD	"3" ++ XDEVCLASS.DASD KEYWORD
3570	(DF2)	X'4'	0	SPLUCBIF_XDEVCLASS_DISP	"4" ++ XDEVCLASS.DISP KEYWORD
3570	(DF2)	X'5'	0	SPLUCBIF_XDEVCLASS_UREC	"5" ++ XDEVCLASS.UREC KEYWORD
3570	(DF2)	X'6'	0	SPLUCBIF_XDEVCLASS_CHAR	"6" ++ XDEVCLASS.CHAR KEYWORD
3570	(DF2)	X'7'	0	SPLUCBIF_XDEVCLASS_CTC	"7" ++ XDEVCLASS.CTC KEYWORD
3571	(DF3)	BITSTRING	1	SPLUCBIF_XFLAGS2	++ FIELD_LABEL
		1... ....		SPLUCBIF_KEYUSED_DEVTIME	"B'10000000" ++ KEYUSED.DEVTIME KEYWORD
		.1.. ....		SPLUCBIF_KEYUSED_SERVICE	"B'01000000" ++ KEYUSED.SERVICE KEYWORD
		..1. ....		SPLUCBIF_KEYUSED_RESPONSE	"B'00100000" ++ KEYUSED.RESPONSE KEYWORD
		...1 ....		SPLUCBIF_KEYUSED_RESET	"B'00010000" ++ KEYUSED.RESET KEYWORD
		.... 1...		SPLUCBIF_XSCHINFO_YES	"B'00001000" ++ XSCHINFO.YES KEYWORD
		.... .1..		SPLUCBIF_XPAVINFORM_YES	"B'00000100" ++ XPAVINFORM.YES KEYWORD
		.... ..1.		SPLUCBIF_KEYUSED_HYPERPAVALIASES	"B'00000010" ++ KEYUSED.HYPERPAVALIASES KEYWORD
		.... ...1		SPLUCBIF_KEYUSED_SCHSET	"B'00000001" ++ KEYUSED.SCHSET KEYWORD
3572	(DF4)	SIGNED	4	SPLUCBIF_XCOUNT	++
3576	(DF8)	ADDRESS	4	SPLUCBIF_XUCBPTR	++
3580	(DFC)	ADDRESS	4	SPLUCBIF_XUCBPAREA_ADDR	++ ADDR
3584	(E00)	SIGNED	4	SPLUCBIF_XUCBPAREA_ALET	++ ALET
3588	(E04)	CHARACTER	8	SPLUCBIF_XAREA	

## \$DTESPL Map

Offsets		Type/Value	Len	Name (Dim)	Description
Dec	Hex				
3596	(E0C)	ADDRESS	4	SPLUCBIF_XIOCTOKEN_ADDR	++ FIELD_LABEL
3600	(E10)	SIGNED	4	SPLUCBIF_XIOCTOKEN_ALET	++ ADDR
3604	(E14)	BITSTRING	2	SPLUCBIF_XDEVN	++ ALET
3606	(E16)	CHARACTER	10	SPLUCBIF_XRESERVED2	++
3616	(E20)	BITSTRING	1	SPLUCBIF_XPATHMASK	++ FIELD_LABEL
3617	(E21)	BITSTRING	1	SPLUCBIF_XGROUP	++
3617	(E21)	X'0'	0	SPLUCBIF_XGROUP_DEVICECLASS	++ XGROUP
3617	(E21)	X'1'	0	SPLUCBIF_XGROUP_OTHER	"0" ++ XGROUP.DEVICECLASS KEYWORD
3618	(E22)	BITSTRING	1	SPLUCBIF_XSUBCHANNELSET	"1" ++ XGROUP.OTHER KEYWORD
3618	(E22)	X'0'	0	SPLUCBIF_XSUBCHANNELSET_ID	++ XSUBCHANNELSET
3618	(E22)	X'1'	0	SPLUCBIF_XSUBCHANNELSET_ALL	"0" ++ XSUBCHANNELSET.ID KEYWORD
3619	(E23)	BITSTRING	1	SPLUCBIF_XSCHSET	"1" ++ XSUBCHANNELSET.ALL KEYWORD
3620	(E24)	CHARACTER	12	SPLUCBIF_XAAREA	++
3620	(E24)	X'E30'	0	SPLUCBIF_PL_END	++ FIELD_LABEL
3588	(E04)	ADDRESS	4	SPLUCBIF_XMAPAREA_ADDR	*** ++ END OF BASE PLIST
3592	(E08)	SIGNED	4	SPLUCBIF_XMAPAREA_ALET	++ ADDR
3588	(E04)	ADDRESS	4	SPLUCBIF_XPATHAREA_ADDR	++ ALET
3592	(E08)	SIGNED	4	SPLUCBIF_XPATHAREA_ALET	++ ADDR
3588	(E04)	ADDRESS	4	SPLUCBIF_XDEVIAREA_ADDR	++ ALET
3592	(E08)	SIGNED	4	SPLUCBIF_XDEVIAREA_ALET	++ ADDR
3620	(E24)	ADDRESS	4	SPLUCBIF_XCDRAREA	++ ALET
3624	(E28)	SIGNED	4	SPLUCBIF_XCDRAREA_ALET	++
3628	(E2C)	SIGNED	4	SPLUCBIF_XCDRLLEN	++ ALET
3620	(E24)	ADDRESS	4	SPLUCBIF_XPAVAREA	++
3624	(E28)	SIGNED	4	SPLUCBIF_XPAVAREA_ALET	++ ALET
3628	(E2C)	SIGNED	4	SPLUCBIF_XPAVLEN	++
3620	(E24)	SIGNED	4	SPLUCBIF_XSERVICE	++
3624	(E28)	SIGNED	4	SPLUCBIF_XRESPONSE	++
3570	(DF2)	BITSTRING	1	SPLUCBIF_XDEVGROU	++
3570	(DF2)	X'0'	0	SPLUCBIF_XDEVGROU_PAVBASE	++ XDEVGROU
3570	(DF2)	X'1'	0	SPLUCBIF_XDEVGROU_PAVALIAS	"0" ++ XDEVGROU.PAVBASE KEYWORD
3632	(E30)	X'40'	0	SPLUCBIFL	"1" ++ XDEVGROU.PAVALIAS KEYWORD
					"*-SPLUCBIF" ++ LENGTH OF PLIST

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
UCBINFO-3					
End of Comment					
3632	(E30)	DBL WORD	8	(0)	MACDATE -06/30/09-<2>
0	(0)	X'E30'	0	M00M1085	"SPLIOSCD" ++ IOSCDR NAME
3632	(E30)	DBL WORD	8	SPLIOSCD (0)	++ IOSCDR PARM LIST
3632	(E30)	BITSTRING	1	SPLIOSCD_XVERSION	++ INPUT XVERSION
3633	(E31)	BITSTRING	1	SPLIOSCD_XKEYUSED_FLAGS	++ FIELD_LABEL
		1... ....		SPLIOSCD_KEYUSED_TIME	"B'10000000" ++ KEYUSED.TIME KEYWORD
		.1.. ....		SPLIOSCD_KEYUSED_IOCTOKEN	"B'01000000" ++ KEYUSED.IOCTOKEN KEYWORD
		..1. ....		SPLIOSCD_KEYUSED_STATUS	"B'00100000" ++ KEYUSED.STATUS KEYWORD
		...1 ....		SPLIOSCD_KEYUSED_CDRSIZE	"B'00010000" ++ KEYUSED.CDRSIZE KEYWORD
		.... 1...		SPLIOSCD_XREAD_IO	"B'00001000" ++ XREAD.IO KEYWORD
		.... .1..		SPLIOSCD_XREAD_COND	"B'00000100" ++ XREAD.COND KEYWORD
		.... ..1.		SPLIOSCD_XREAD_NOIO	"B'00000010" ++ XREAD.NOIO KEYWORD
		.... ...1		SPLIOSCD_KEYUSED_NODE_DESCRIPTOR	"B'00000001" ++ KEYUSED.NODE_DESCRIPTOR KEYWORD
3634	(E32)	BITSTRING	2	SPLIOSCD_XDEVN	++
3636	(E34)	CHARACTER	8	SPLIOSCD_XTIME	++
3644	(E3C)	ADDRESS	4	SPLIOSCD_XIOCTOKEN_ADDR	++ ADDR
3648	(E40)	ADDRESS	4	SPLIOSCD_XCDRAREA	++
3652	(E44)	SIGNED	4	SPLIOSCD_XCDRLLEN	++
3656	(E48)	SIGNED	4	SPLIOSCD_XCDRSIZE	++
3660	(E4C)	BITSTRING	1	SPLIOSCD_XSTATUS	++
3661	(E4D)	BITSTRING	1	SPLIOSCD_XSCHSET	++
3662	(E4E)	BITSTRING	1	SPLIOSCD_XCHPID	++
3663	(E4F)	BITSTRING	1	SPLIOSCD_XKEYUSED_FLAGS2	++ FIELD_LABEL
		1... ....		SPLIOSCD_KEYUSED_SCHSET	"B'10000000" ++ KEYUSED.SCHSET KEYWORD
		.1.. ....		SPLIOSCD_KEYUSED_WWPN	"B'01000000" ++ KEYUSED.WWPN KEYWORD
3664	(E50)	ADDRESS	4	SPLIOSCD_XNODE_DESCRIPTOR	++
3664	(E50)	X'E54'	0	SPLIOSCD_PL_END	*** ++ END OF BASE PLIST
3664	(E50)	X'24'	0	SPLIOSCDL	** -SPLIOSCD" ++ LENGTH OF PLIST
Comment					
IOSCDR-2					
End of Comment					

## \$DTESPL Cross Reference

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
3672	(E58)	DBL WORD	8	(0)	EST DOUBLE WORD ALIGNMENT
3672	(E58)	X'65C'	0	SPLCLEAR	"SPLCSTRT" Area to be zeroed
3672	(E58)	X'7FC'	0	SPLCLRLN	**-"SPLCSTRT" Length of area to clear
3672	(E58)	X'850'	0	DSPLLEN	**-"DTEWORK" Length of work area

## \$DTESPL Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
DSPLLEN	E58	850	SPLCHPID	D20	
DTE	0		SPLCLEAR	E58	65C
LSPA1074E	B18	B2C	SPLCLRLN	E58	7FC
M00M1082	0	DD0	SPLCMLST	9A0	
M00M1084	0	DF0	SPLCONTA	8FC	
M00M1085	0	E30	SPLCONTX	97A	
SPLABS	B40		SPLCRC	B38	
SPLCAPU	DD0		SPLCRSN	B3C	
SPLCAPU_KEYUSED_ASID	DD1	10	SPLCSTRT	65C	
SPLCAPU_KEYUSED_CAPTOACT	DD1	20	SPLDCB	C4E	BE4
SPLCAPU_KEYUSED_CAPTPTR	DD1	4	SPLDCBE	C18	C4C3C2C5
SPLCAPU_KEYUSED_CAPTUCB	DD1	80	SPLDCBMF	BE4	
SPLCAPU_KEYUSED_UCAPTUCB	DD1	40	SPLDDNAM	912	
SPLCAPU_KEYUSED_UCBPTR	DD1	8	SPLDDTA	8DC	
SPLCAPU_XASID	DDE		SPLDDTXT	90C	
SPLCAPU_XCAPTCOM_NEVER	DDD	10	SPLDEB	C50	
SPLCAPU_XCAPTCOM_YES	DDD	20	SPLDEBB	C50	C50
SPLCAPU_XCAPTPTR	DD8		SPLDEBE	C50	C70
SPLCAPU_XFLAGS1	DD1		SPLDEVO	A5C	
SPLCAPU_XLASTING_YES	DDD	40	SPLDEVT	A44	18
SPLCAPU_XMASK	DDD		SPLDEVTL	A58	18
SPLCAPU_XMSIFREE_YES	DDD	80	SPLDIAGR	D1C	
SPLCAPU_XRESERVED1	DD2		SPLDKEPA	900	
SPLCAPU_XRESERVED2	DDC		SPLDMSG1	6B4	
SPLCAPU_XRESERVED3	DE0		SPLDMSG2	6B8	
SPLCAPU_XUCBPTR	DD4		SPLDPTXT	966	
SPLCAPU_XVERSION	DD0		SPLDSCB	9B0	
SPLCAPUL	DE0	20	SPLDSKEP	989	
SPLCC	0	A0A	SPLDSNAM	920	
SPLCCWS	CB8		SPLDSNTA	8E0	
SPLCCW1	CB8		SPLDSORA	904	
SPLCCW2	CC0		SPLDSORT	981	
SPLCCW3	CC8		SPLDSPTA	8EC	
SPLCDRAS	D18		SPLDSTXT	91A	
SPLCFLDS	CD8		SPLDSTYA	908	
SPLCHAIN	670		SPLDSTYP	990	
			SPLDYMPA	6B0	
			SPLDYMSP	6BC	
			SPLDYNAL	674	
			SPLDYNRB	678	
			SPLDYRBX	68C	
			SPLEAS	B2C	80
			SPLEASTA	8F0	
			SPLEASTX	997	
			SPLECB	B54	
			SPLECBA	60C	
			SPLENQTK	614	
			SPLEXDLN	D60	64
			SPLEXDS	D60	
			SPLEXTNO	DC8	
			SPLFLG1	65C	
			SPLFLG2	65D	
			SPLFLG3	65E	
			SPLFLG4	65F	
			SPLFLG5	664	

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
SPLFLG6	665		SPLLSTO	A70	
SPLFLG7	666		SPLMAXTG	CA0	
SPLFMEND	CE8		SPLMFPRM	CF0	
SPLFMSTR	CE0		SPLMSG	0	9B0
SPLFMTDA	CB0		SPLMXTRK	DC4	
SPLFMTWA	CA4		SPLNCLEA	634	54
SPLFMTWD	CAC		SPLNMTRK	C94	
SPLFMTWL	CA8		SPLNOBYM	C98	
SPLIEDB	BB4		SPLNORTK	C8C	
SPLINEAS	B2C		SPLNOTGP	C8E	
SPLINTRK	C90		SPLNUMTA	8F8	
SPLIOB	B58		SPLNUMTC	660	
SPLIOBE	B84		SPLNUMTG	C9C	
SPLIOSCD	E30		SPLNUMTK	971	
SPLIOSCD_KEYUSED_CDRSIZE			SPLNVL	C80	
E31	10		SPLOBTER	8D8	
SPLIOSCD_KEYUSED_IOCTOKEN			SPLOCLEN	D35	4
E31	40		SPLOPCL	D34	
SPLIOSCD_KEYUSED_NODE_DESCRIPTOR			SPLOUTP	D10	
E31	1		SPLOUTPL	D14	
SPLIOSCD_KEYUSED_SCHSET			SPLWABS	B40	
E4F	80		SPLWLIM	B30	
SPLIOSCD_KEYUSED_STATUS			SPLWTRK	B48	
E31	20		SPLRDCT	CD0	
SPLIOSCD_KEYUSED_TIME			SPLRECTK	D38	
E31	80		SPLSTART	608	
SPLIOSCD_KEYUSED_WWPN			SPLSTIM	D44	0
E4F	40		SPLSTIML	D44	18
SPLIOSCD_PL_END			SPLSTRCC	B30	
E50	E54		SPLSTRK	B50	
SPLIOSCD_XCDRAREA			SPLTCBPT	C84	
E40			SPLTEXT	8DC	
SPLIOSCD_XCDRLN			SPLTGMA	610	
E44			SPLTKCYL	C88	
SPLIOSCD_XCDRSIZE			SPLTKLEN	D42	C
E48			SPLTRACK	96D	
SPLIOSCD_XCHPID			SPLTRK	B48	
E4E			SPLTRKNA	8F4	
SPLIOSCD_XDEVN			SPLUCBIF	DF0	
E32			SPLUCBIF_KEYUSED_DEVCOUNT		
SPLIOSCD_XIOCTOKEN_ADDR			DF1	80	
E3C			SPLUCBIF_KEYUSED_DEVINFO		
SPLIOSCD_XKEYUSED_FLAGS			DF1	2	
E31			SPLUCBIF_KEYUSED_DEVN		
SPLIOSCD_XKEYUSED_FLAGS2			DF1	10	
E4F			SPLUCBIF_KEYUSED_DEVTIME		
SPLIOSCD_XNODE_DESCRIPTOR			DF3	80	
E50			SPLUCBIF_KEYUSED_GETCDR		
SPLIOSCD_XREAD_COND			DF1	8	
E31	4		SPLUCBIF_KEYUSED_HYPERPAVALIASES		
SPLIOSCD_XREAD_IO			DF3	2	
E31	8		SPLUCBIF_KEYUSED_PATHINFO		
SPLIOSCD_XREAD_NOIO			DF1	4	
E31	2		SPLUCBIF_KEYUSED_PATHMAP		
SPLIOSCD_XSCHSET			DF1	20	
E4D			SPLUCBIF_KEYUSED_PAVINFO		
SPLIOSCD_XSTATUS			DF1	1	
E4C			SPLUCBIF_KEYUSED_PRFXDATA		
SPLIOSCD_XTIME			DF1	40	
E34			SPLUCBIF_KEYUSED_RESET		
SPLIOSCD_XVERSION			DF3	10	
E30			SPLUCBIF_KEYUSED_RESPONSE		
SPLIOSCDL	E50	24	DF3	20	
SPLLSPAC	AFC	D3E2D7C1	SPLUCBIF_KEYUSED_SCHSET		
SPLLSPAL	B18	30	DF3	1	

## \$DTESPL Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
SPLUCBIF_KEYUSED_SERVICE	DF3	40		E04	
SPLUCBIF_PL_END	E24	E30	SPLUCBIF_XPATHAREA_ALET	E08	
SPLUCBIF_XAAREA	E24		SPLUCBIF_XPATHMASK	E20	
SPLUCBIF_XAREA	E04		SPLUCBIF_XPAVAREA	E24	
SPLUCBIF_XCDRAREA	E24		SPLUCBIF_XPAVAREA_ALET	E28	
SPLUCBIF_XCDRAREA_ALET	E28		SPLUCBIF_XPAVINFORM_YES	DF3	4
SPLUCBIF_XCDRLEN	E2C		SPLUCBIF_XPAVLEN	E2C	
SPLUCBIF_XCOUNT	DF4		SPLUCBIF_XRESERVED2	E16	
SPLUCBIF_XDEVCLASS	DF2		SPLUCBIF_XRESPONSE	E28	
SPLUCBIF_XDEVCLASS_ALL	DF2	0	SPLUCBIF_XSCHINFO_YES	DF3	8
SPLUCBIF_XDEVCLASS_CHAR	DF2	6	SPLUCBIF_XSCHSET	E23	
SPLUCBIF_XDEVCLASS_COMM	DF2	2	SPLUCBIF_XSERVICE	E24	
SPLUCBIF_XDEVCLASS_CTC	DF2	7	SPLUCBIF_XSUBCHANNELSET	E22	
SPLUCBIF_XDEVCLASS_DASD	DF2	3	SPLUCBIF_XSUBCHANNELSET_ALL	E22	1
SPLUCBIF_XDEVCLASS_DISP	DF2	4	SPLUCBIF_XSUBCHANNELSET_ID	E22	0
SPLUCBIF_XDEVCLASS_TAPE	DF2	1	SPLUCBIF_XUCBPAREA_ADDR	DFC	
SPLUCBIF_XDEVCLASS_UREC	DF2	5	SPLUCBIF_XUCBPAREA_ALET	E00	
SPLUCBIF_XDEVGROUP	DF2		SPLUCBIF_XUCBPTR	DF8	
SPLUCBIF_XDEVGROUP_PAVALIAS	DF2	1	SPLUCBIF_XVERSION	DF0	
SPLUCBIF_XDEVGROUP_PAVBASE	DF2	0	SPLUCBIFL	E30	40
SPLUCBIF_XDEVIAREA_ADDR	E04		SPLUCBPT	608	
SPLUCBIF_XDEVIAREA_ALET	E08		SPLUDSPA	8E4	
SPLUCBIF_XDEVN	E14		SPLUNIT	95E	
SPLUCBIF_XFLAGS	DF1		SPLUNITA	8E8	
SPLUCBIF_XFLAGS2	DF3		SPLUNTXT	958	
SPLUCBIF_XGROUP	E21		SPLUPABS	B44	
SPLUCBIF_XGROUP_DEVICECLASS	E21	0	SPLUPLIM	B34	
SPLUCBIF_XGROUP_OTHER	E21	1	SPLUPTRK	B4C	
SPLUCBIF_XIOCTOKEN_ADDR	E0C		SPLURC	668	
SPLUCBIF_XIOCTOKEN_ALET	E10		SPLURSN	66C	
SPLUCBIF_XMAPAREA_ADDR	E04		SPLVLTXT	94C	
SPLUCBIF_XMAPAREA_ALET	E08		SPLVOLID	952	
SPLUCBIF_XPATHAREA_ADDR			SPLVOLTA	8E4	
			SPLWORK	0	A00
			SPL1ALLO	65C	8
			SPL1BAD	65C	4
			SPL1FMT	65C	80
			SPL1MFMT	65C	20
			SPL1NFMT	65C	40
			SPL1UNAL	65C	10
			SPL1WFMT	65C	2
			SPL2ABND	65D	8
			SPL2DVTP	65D	4
			SPL2EXT	65D	2
			SPL2FMT	65D	40
			SPL2OBT	65D	80
			SPL2RDER	65D	20



<b>Name</b>	<b>Hex Offset</b>	<b>Hex Value</b>
SPL2SIZE	65D	1
SPL2UNAL	65D	10
SPL3ECKD	65E	40
SPL3LGDS	65E	4
SPL3NLGD	65E	2
SPL3RDTD	65E	20
SPL3RELT	65E	8
SPL3RPS	65E	1
SPL3TGBG	65E	80
SPL3WTRD	65E	10
SPL4CDRF	65F	20
SPL4DIAG	65F	8
SPL4ENQF	65F	80
SPL4LIMT	65F	1
SPL4LSPA	65F	2
SPL4NNED	65F	10
SPL4NQSK	65F	4
SPL4UCBF	65F	40
SPL5CYLS	664	40
SPL5DSET	664	10
SPL5EASA	664	8
SPL5MAX	664	80
SPL5TRKS	664	20
SPL6DSNL	665	40
SPL6TRKG	665	80
SPL6XTER	665	20
SPL7XTND	666	80

## \$DTESPL Cross Reference

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**\$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	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	
DSUBQTIM	640	
DSUBRNAM	620	
DSUBRTIM	648	
DSUBSAVE	614	
DSUBSQD	60C	
DSUB1DEC	608	40
DSUB1NSQ	608	80
DTE	0	

## \$DTESUBS Cross Reference

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**\$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 DVTMLLEN equate for the length of a VTAM DTE extension.

**Created by:** \$DTEEDYN 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 \$DTEEDYN 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	DVTMLLEN	"*-DTEWORK" LENGTH OF WORK AREA



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## \$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:** \$DTEWTO ATTACH called during JES2 initialization. The subtask (and DTE) definitions are defined by the \$DTEWTO 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

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
1685	(695)	BITSTRING	2		EXTENDED MCS FLAGS
1687	(697)	ADDRESS	2		RESERVED
1689	(699)	ADDRESS	4		REPLY BUFFER ADDRESS
1693	(69D)	ADDRESS	4		REPLY ECB ADDRESS
1697	(6A1)	ADDRESS	4		CONNECT ID
1701	(6A5)	BITSTRING	2		DESCRIPTOR CODES
1703	(6A7)	ADDRESS	2		RESERVED
1705	(6A9)	BITSTRING	16		
1721	(6B9)	BITSTRING	2		MESSAGE TYPE
1723	(6BB)	ADDRESS	2		MESSAGE'S PRIORITY
1725	(6BD)	CHARACTER	8		JOB ID
1733	(6C5)	CHARACTER	8		JOB NAME
1741	(6CD)	CHARACTER	8		RETRIEVAL KEY
1749	(6D5)	ADDRESS	4		TOKEN FOR DOM
1753	(6D9)	ADDRESS	4		CONSOLE ID
1757	(6DD)	CHARACTER	8		SYSTEM NAME
1765	(6E5)	CHARACTER	8		CONSOLE NAME
1773	(6ED)	ADDRESS	4		REPLY CONSOLE NAME/ID ADDR
1777	(6F1)	ADDRESS	4		CART ADDRESS
1781	(6F5)	ADDRESS	4		WSPARM ADDRESS
1781	(6F5)	X'6F9'	0	CSAWPXEN	*** END OF WPX

Comment

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

End of Comment

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

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	CSATRIL	*** START OF TRAILER FIELDS
1556	(614)	X'6C'	0	CSALSIZ	"CSAMLEND-CSATRIL" Length of WPX plus MLWTO extensions

Comment

-----  
 End of WPL parameter list area  
 -----

End of Comment

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

## \$DTEWTO Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
1808	(710)	ADDRESS	4	CSACID	CID for current CMB
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					
MGCRC work area					
End of Comment					
1864	(748)	DBL WORD	8	(0)	Alignment
1864	(748)	SIGNED	2	CSAMGMF (0)	MGCRC 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 'MGCRC'
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" MGCRC 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**

<b>Name</b>	<b>Hex Offset</b>	<b>Hex Value</b>
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

## \$DTEWTO Cross Reference

## \$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 \$DILTAL 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
8	(8)	ADDRESS	4	DWANEXT	Address of next DWA
12	(C)	ADDRESS	4	DWAPREV	Address of previous DWA
16	(10)	BITSTRING	4	DWAPARM0	Parameter for register 0
20	(14)	BITSTRING	4	DWAPRMA1	Parameter for AR1
24	(18)	ADDRESS	4	DWARTN	Address of routine
28	(1C)	BITSTRING	4	DWAIMMED	Immediate instruction to executed

## \$DWA Map

### Offsets

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

<b>Name</b>	<b>Hex Offset</b>	<b>Hex Value</b>
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

## \$DWA Cross Reference

## \$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	ENFPTR	Area for ENFPTR - required by ENFREQ macro
64	(40)	X'44'	0	ENFPSIZE	"*-ENFPARM" Size of parameter area

## \$ENFPARM Cross Reference

## \$ENFPARM Cross Reference

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

---

**\$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	256	ENNPARGS	EVT parameter data
592	(250)	DBL WORD	8	(0)	Force double-word alignment
592	(250)	X'118'	0	ENNPCEWS	"*-PCEWORK" Length of \$ENF PCE

## \$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

## \$EOMWORK Map



---

**\$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 implicitly, 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	ERAERAVN	CONTROL BLOCK VERSION NUMBER
6	(6)	BITSTRING	2	ERAERAVN	CONTROL BLOCK VERSION NUMBER
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

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
72	(48)	X'48'	0	ERAESRG0	"ERAESRGS,4" REG 0 ON ENTRY TO ESTAE ROUTINE
72	(48)	X'4C'	0	ERAESRG1	"ERAESRGS+4,4" REG 1 ON ENTRY TO ESTAE ROUTINE
72	(48)	X'4C'	0	ERASDWA	"ERAESRG1,4,C'A" ADDRESS OF SDWA
72	(48)	X'50'	0	ERAESRG2	"ERAESRGS+8,4" REG 2 ON ENTRY TO ESTAE ROUTINE
84	(54)	CHARACTER	8	ERAMODN	Mod name for event record
92	(5C)	CHARACTER	8	ERAMODO	Mod offset for event record
100	(64)	ADDRESS	4	ERAPRE	A(ASSOCIATED PRE)
104	(68)	ADDRESS	4	ERAPREV	ACTIVE ERA, IF ANY, WHEN ERROR OCCURRED- OTHERWISE 0
108	(6C)	ADDRESS	4	ERAPSVAD	SAVE AREA LEVEL ASSOCIATED WITH ERR
112	(70)	ADDRESS	4	ERACPCE	VALUE OF \$CURPCE AT TIME OF ERR
116	(74)	SIGNED	2	ERAPRECT	NUMBER OF PRES POINTING TO ERA

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 EXCEPTION 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

## \$ERA Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
300	(12C)	SIGNED	4	ERAREG12	REGISTER 12
304	(130)	SIGNED	4	ERAREG13	REGISTER 13
308	(134)	SIGNED	4	ERAREG14	REGISTER 14
312	(138)	SIGNED	4	ERAREG15	REGISTER 15
316	(13C)	BITSTRING	64	ERAHRGS	High half reg save area
316	(13C)	SIGNED	4	ERAHRG0	High half register 0
320	(140)	SIGNED	4	ERAHRG1	High half register 1
324	(144)	SIGNED	4	ERAHRG2	High half register 2
328	(148)	SIGNED	4	ERAHRG3	High half register 3
332	(14C)	SIGNED	4	ERAHRG4	High half register 4
336	(150)	SIGNED	4	ERAHRG5	High half register 5
340	(154)	SIGNED	4	ERAHRG6	High half register 6
344	(158)	SIGNED	4	ERAHRG7	High half register 7
348	(15C)	SIGNED	4	ERAHRG8	High half register 8
352	(160)	SIGNED	4	ERAHRG9	High half register 9
356	(164)	SIGNED	4	ERAHRG10	High half register 10
360	(168)	SIGNED	4	ERAHRG11	High half register 11
364	(16C)	SIGNED	4	ERAHRG12	High half register 12
368	(170)	SIGNED	4	ERAHRG13	High half register 13
372	(174)	SIGNED	4	ERAHRG14	High half register 14
376	(178)	SIGNED	4	ERAHRG15	High half register 15
380	(17C)	BITSTRING	64	ERAAREGS	Access register save area
380	(17C)	SIGNED	4	ERAAR0	Access Register 0
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	Interrupt 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					
ERASETTRP BIT DEFINITIONS					
End of Comment					
		1... ....		ERATRPTM	"X'80" TERMINATE
		.1.. ....		ERATRPPC	"X'40" PERCOLATE
		..1. ....		ERATRPRE	"X'20" RESUME
		...1 ....		ERAHVRS	"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		ERAHVRS	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 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 associated 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
12	(C)	CHARACTER	8	ERPLSEQ	SEQ number of \$ERROR

## \$ERPL Cross Reference

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
20	(14)	BITSTRING 1... .... .1.. .... ..1. .... ...1 ....	1	ERPLFLG2 ERPLDAFT ERPLDAFF ERPLDMAS ERPLNDMP	Flags "B'10000000" AFTOKEN specified for dump "B'01000000" AFFIELD specified for dump "B'00100000" Dump all MAS members "B'00010000" Take no SDUMP
21	(15)	BITSTRING	1		Reserved for future use
22	(16)	BITSTRING 1... .... ..1. .... ...1 .... .... 1... .... .1.. .... ..1.	1	ERPLFLAG ERPLTXTF ERPLTERM ERPLRIPL ERPLTREG ERPLDIS ERPLRVO ERPLHCT	FLAGS "X'80" IF ON THIS ERPL HAS TEXT, ELSE ERPLTEXT CONTAINS ADDR. OF ERPL CONTAINING TEXT "X'40" TERMINATE, IF ON RECOVERY ATTEMPTS NOT PERMITTED "X'20" INDICATES AN ERROR REQUIRING RE-IPL "X'10" On indicates R0 at ABEND has addr of error text "X'08" \$DISTERR in disguise "X'04" RECVOPTS was specified "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		ERPLLENG	1C	24
DISSYM	1B		ERPLMOD	4	
DISTEXT	1		ERPLNDMP	14	10
DISTITLE	0		ERPLRCVO	1C	
DISTLEN	1B	22	ERPLRIPL	16	20
ERPL	0		ERPLRVO	16	4
ERPLCODE	0		ERPLSEQ	C	
ERPLDAFF	14	40	ERPLTERM	16	40
ERPLDAFT	14	80	ERPLTEXT	18	
ERPLDIS	16	8	ERPLTREG	16	10
ERPLDMAS	14	20	ERPLTXTF	16	80
ERPLFLAG	16		ERPLTXTL	17	
ERPLFLG2	14				
ERPLHCT	16	2			



## \$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:** \$ERRTAB 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	

## \$ERRTAB Cross Reference

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**\$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

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
16	(10)	CHARACTER	48		Event 57 parameters
16	(10)	CHARACTER	24		Event 62 parameters
16	(10)	CHARACTER	256		Event 58
16	(10)	CHARACTER	152		70
272	(110)	X'100'	0	EVTPARML	**_EVTPARMS" Length of largest parms
272	(110)	DBL WORD	8	(0)	Round length to double word
272	(110)	X'110'	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	110	110
EVTNEXT	8	
EVTPARML	110	100
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

## \$EVT Cross Reference

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**\$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**

<b>Name</b>	<b>Hex Offset</b>	<b>Hex Value</b>
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 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

## \$FCLWORK Map

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**\$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	FSAJQECF	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					
153	(99)	BITSTRING	1	FSA6DSNA FSAFLAG7	"B'10000000" Data set was not allocated in previous GETDS 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

# \$FSACB Map

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

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FSAFLAGO

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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

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FSAFLAGR Note: Use NIL/OIL to update.

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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
FSADDEVN	38		FSAFSID	4	
FSADRAN	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	
FSAJBSV	4C	
FSAJOECT	52	
FSAJQECF	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

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**\$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	FAXBJCP	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	FAXBLEN	"*-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					
<p>THE FIELDS THROUGH FAXBBSTO MUST REMAIN TOGETHER AND IN THE SAME ORDER AS THE CORRESPONDING FIELDS STARTING AT FAXBFRRMS. THESE FIELD REPRESENT THE DEFAULT AT THE TIME OPERATOR INTERVENTION WAS ORIGINATED. IF THE DEVICE IS RESTARTED VIA A CANCEL, RESTART OR INTERRUPT COMMAND THE DEFAULTS WILL BE RESET USING THESE FIELDS.</p>					
End of Comment					
485	(1E5)	BITSTRING	8	FAXBFRRMO	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					
<p>Work area for ASAXWC macros MACDATE -06/16/09-&lt;0&gt;</p>					

End of Comment					
0	(0)	X'23C'	0	M00M1091	"FAXLIST" ++ ASAXWC NAME
572	(23C)	SIGNED	4	FAXLIST (0)	++ ASAXWC PARM LIST
572	(23C)	CHARACTER	4	FAXLIST_XPARAMAREA1	++ FIELD_LABEL
576	(240)	CHARACTER	24	FAXLIST_XPARAMAREA2	++ 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	Name	Hex Offset	Hex Value
FAXAREA	258			240	
FAXB	0		FAXLIST_XPPPATTERNSTRLEN	244	
FAXBBRST	1E0		FAXLIST_XPPSTRING_ADDR	240	
FAXBBSTO	239		FAXLIST_XPPSTRINGLEN	244	
FAXBCBID	0		FAXLIST_XPPZEROORMORE_ADDR	248	
FAXBDLEN	1E0	55	FAXLIST_XSTRING_ADDR	244	
FAXBFCB	1D8		FAXLIST_XSTRINGLEN	248	
FAXBFCBO	231		FAXLISTL	258	1C
FAXBFLSD	1E1		M00M1091	0	23C
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_XPARAMAREA1	23C				
FAXLIST_XPARAMAREA2	240				
FAXLIST_XPATTERNSTR_ADDR	23C				
FAXLIST_XPATTERNSTRLEN	240				
FAXLIST_XPPDELIMITER_ADDR	250				
FAXLIST_XPPONECHAR_ADDR	24C				
FAXLIST_XPPPATTERNINFO_ADDR	23C				
FAXLIST_XPPPATTERNSTR_ADDR					

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## \$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



Offsets

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

# \$FSSCB Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
135	(87)	BITSTRING .... ...1	1	FSSFLAG3 FSSLMASK	FLAG BYTE - RAS USE "B'0001" MASK FOR FSSFLAG3 IN FSSLMASK
136	(88)	SIGNED	4	FSSWORK	Work area
140	(8C)	SIGNED	4	FSSDOMID	DOMID FOR HASP706 MESSAGE
144	(90)	BITSTRING	8		RESERVED FOR FUTURE IBM USE
152	(98)	DBL WORD	8	FSSASTKN	FSS address space STKN
160	(A0)	CHARACTER	8	FSSAPARN	HASPFSSM APARNUM value
168	(A8)	CHARACTER	8	FSSPTFN	HASPFSSM PTFNUM value
176	(B0)	CHARACTER	8	FSSJOBID	Job id of the FSS

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

Offsets		Type/Value	Len	Name (Dim)	Description
Dec	Hex				
		1... ....		FSSCNCT1	"B'10000000" FSS CONNECTING (LOCKS FSS CONNECT AND STAYS ON WHEN CONNECTED)
		.1.. ....		FSSCNCT2	"B'01000000" FSS HAS COMPLETED CONNECT
		..1. ....		FSSDCON	"B'00100000" FSS IS(WILL) DISCONNECTING
		...1 ....		FSSDCONX	"B'00010000" JES2 IS READY FOR DISCONNECT
		.... 1..		FSSEOM	"B'00001000" FSS MEMORY HAS ENDED
		.... .1..		FSSEOT	"B'00000100" FSS CONNECTING TCB HAS ENDED
		.... ..1.		FSSRCOK	"B'00000010" FSS RECONNECT SRB SUCCESSFUL
		.... ...1		FSSRCERR	"B'00000001" FSS ERROR IN RECONNECT SRB RTN

**\$FSSCB Cross Reference**

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



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**\$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 FSWLNPTH 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)	

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
376	(178)	X'40'	0	FSWHLGTH	** -PCEWORK" FSS PCE WORK AREA HEADER LENGTH
Comment					
<p>-----</p> <p>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 message work area (256 bytes), since it is the largest of the 3 extensions.</p> <p>-----</p>					
End of Comment					
376	(178)	CHARACTER	24	FSWJIBWK	JIB RELDS MVCP WORK AREA
376	(178)	CHARACTER	212		JIB GETDS MVCS WORK AREA
376	(178)	CHARACTER	256	FSWRK	Message work area
632	(278)	SIGNED	4	(0)	INSURE FULLWORD ALIGNMENT
632	(278)	X'140'	0	FSWLNPTH	"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	
FSWLNPTH	278	140
FSWNRcnt	168	
FSWORDID	13A	
FSWPASCB	164	
FSWPECB	160	
FSWPELMT	15C	
FSWPERET	15C	
FSWRK	178	
FSWTIME	168	12C
FSWTQE	150	
PCE	0	

## \$FSSWORK Cross Reference



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**\$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 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: PSP1  
 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

## \$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 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 anywhere, 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	GPQTOK	TCB token of requesting task
16	(10)	X'20'	0	GPQLEN	"*-GPQE" LENGTH OF AREA

## \$GPQE Map



## \$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 Milliseconds
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
		..1. ....		GTWT1QGT	"B'00100000" \$QGET
		...1 ....		GTWT1PSO	"B'00010000" PSO

# \$GTW Map

## Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
59	(3B)	BITSTRING	96	GTWWS	Device work selection list
155	(9B)	BITSTRING	29	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 DCTPJQOE/WSPPJQOE
		..1. ....		GTW2NO	"B'00100000" NO WORK FOUND
		.... ...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
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	GTWJQID1	qualifier 1
194	(C2)	SIGNED	2	GTWJQID2	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

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
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
232	(E8)	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		CLASS LIST ADDRESS
236	(EC)	ADDRESS	4		ADDRESS OF JQE
240	(F0)	ADDRESS	1		CLASS LIST LENGTH
241	(F1)	ADDRESS	1		QUEUE TYPE SPECIFIED
242	(F2)	ADDRESS	1		WORK SELECTION TYPE FLAG
243	(F3)	ADDRESS	1		RESERVED FOR FUTURE USE
243	(F3)	X'14'	0	GTWQGT	**GTWQGT" Length of \$QGET parm list
244	(F4)	CHARACTER	36	GTWCLST	Class list for JES init WS (actual length used is in \$QGET parameter list)
244	(F4)	X'F4'	0	GTWWSCN	"GTWCLST,8" Service class for WLM inits
280	(118)	SIGNED	4	GTWQGTRC	\$QGET return code

Comment

-----  
End of GTW  
-----

End of Comment

284	(11C)	X'114'	0	GTWSIZE	**GTWSTART" SIZE OF \$#GET TRACE RECORD
284	(11C)	X'4'	0	GTWVERSN	"4" Version number
284	(11C)	X'11C'	0	GTWLEN	**GTW" LEN OF GTW WORK AREA

## \$GTW Cross Reference

### \$GTW Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
GTW	0		GTWWSTAB	24	
GTWBEST	1C		GTWWTRCT	DC	
GTWCALER	20		GTWX14RC	B8	
GTWCHCNT	C4		GTWX14TM	BC	
GTWCHSEL	C8		GTWX49SK	CC	
GTWCLASS	D8		GTWX49TM	C4	
GTWCLST	F4		GTW1ALM	B9	2
GTWDCT	B8		GTW1CNT	B9	10
GTWDCTN	28		GTW1CYES	B9	8
GTWFLAGP	5		GTW1HYES	B9	20
GTWFLAG1	B9		GTW1NET	B9	40
GTWFLAG2	BA		GTW1NSAF	B9	4
GTWFLAG3	BB		GTW1WS	B9	80
GTWID	0		GTW2FAST	BA	80
GTWJBNUM	CC		GTW2NO	BA	20
GTWJNUM	14		GTW2SAFF	BA	1
GTWJOACT	18				
GTWJOES	BC				
GTWJOID1	C0				
GTWJOID2	C2				
GTWJONAM	B8				
GTWJQFRE	DC				
GTWJQMAX	D8				
GTWJQNAM	C4				
GTWJQTYP	D0				
GTWJSCR	10				
GTWLEN	11C	11C			
GTWMASK	9B				
GTWNODE	CC				
GTWORG	B8				
GTWPITN	28	28			
GTWPSTCT	D8				
GTWPSTSP	E8				
GTWPSTWR	E0				
GTWPTIME	5	80			
GTWQFLG1	D0				
GTWQGT	E0				
GTWQGTL	F3	14			
GTWQGTRC	118				
GTWQJQAN	D4				
GTWQNUM	C0				
GTWQUEUE	D1				
GTWQ1WLM	D0	10			
GTWQ1W49	D0	20			
GTWQ1X14	D0	80			
GTWQ1X49	D0	40			
GTWRMT	CE				
GTWROUTE	CC				
GTWSIZE	11C	114			
GTWSPICT	E4				
GTWSTART	8				
GTWTFLG1	3A				
GTWTIME	8				
GTWT1GET	3A	80			
GTWT1PSO	3A	10			
GTWT1PST	3A	40			
GTWT1QGT	3A	20			
GTWUSER	D0				
GTWVERS	4				
GTWVERSN	11C	4			
GTWWS	3B				
GTWWSCN	F4	F4			
GTWWSPCT	D4				

---

## \$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... ....	1	HSBFLAG	Flag byte, use CS to modify
6	(6)	SIGNED	2	HSBDJWEL	"B'10000000" Dispose JWEL flag
8	(8)	SIGNED	4	HSBASID	ASID
				HSBCRSYS	CROSS SYSTEM REQUEST COUNT

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
<p>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.</p>					
End of Comment					
12	(C)	ADDRESS	4	HSBHASXB	ADDR OF HASP ADDR SP EXT BLOCK
16	(10)	ADDRESS	4	HSBPCL	Addr of PCL for NETSRV address spaces

Comment					
<p>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).</p>					
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
32	(20)	BITSTRING	8	HSBSTOKN	STOKEN OF ADDRESS SPACE
40	(28)	DBL WORD	8	HSBTRETM	Oldest time TRE made active
40	(28)	X'30'	0	HSBLEN	**HASB" LENGTH OF \$HASB DSECT

**\$HASB Cross Reference**

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

## \$HASB Cross Reference



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## \$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"

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	X'4'	0	AR4	"4"
0	(0)	X'5'	0	AR5	"5"
0	(0)	X'6'	0	AR6	"6"
0	(0)	X'7'	0	AR7	"7"
0	(0)	X'8'	0	AR8	"8"
0	(0)	X'9'	0	AR9	"9"
0	(0)	X'A'	0	AR10	"10"
0	(0)	X'B'	0	AR11	"11"
0	(0)	X'C'	0	AR12	"12"
0	(0)	X'D'	0	AR13	"13"
0	(0)	X'E'	0	AR14	"14"
0	(0)	X'F'	0	AR15	"15"

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

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 \$\$ 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'

# \$HASPEQU Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	X'4'	0	\$DRBUF	"4" 'Need/freed JES2 buffer'
0	(0)	X'5'	0	\$DRJOT	"5" 'Need/added selectable JOEs'
0	(0)	X'6'	0	\$DRJOE	"6" 'Need/freed unused JOE'
0	(0)	X'7'	0	\$DRTRACK	"7" 'Need/freed spool track group'
0	(0)	X'8'	0	\$DRJOB	"8" 'Need job/changed a job's status'
0	(0)	X'9'	0	\$DRUNIT	"9" 'Need/set device (DCT) undrained'
0	(0)	X'A'	0	\$DRCKPT	"10" 'Need/--- CKPT WRITE cycle'
0	(0)	X'B'	0	\$DRCKPTP	"11" '---/completed CKPT WRITE cycle'
0	(0)	X'C'	0	\$DRCKPTL	"12" 'Lurking for CKPT READ'
0	(0)	X'D'	0	\$DRCKPTW	"13" 'Need/completed CKPT WRITE cycle'
0	(0)	X'E'	0	\$DRCMB	"14" 'Need/freed unused CMB'
0	(0)	X'F'	0	\$DRSMF	"15" 'Need/freed unused SMF buffer'
0	(0)	X'10'	0	\$DRLOCK	"16" 'Need/freed a job lock'
0	(0)	X'11'	0	\$DRMAIN	"17" 'Need/freed main storage'
0	(0)	X'12'	0	\$DRFSS	"18" 'FSS ORDER serialization'
0	(0)	X'13'	0	\$DRPSO	"19" 'Want/added elements to PSO queue'
0	(0)	X'14'	0	\$DRPURGE	"20" 'Want/added JQEs to PURGE queue'
0	(0)	X'15'	0	\$DRTIPS	"21" 'PCE - update JOE BERT transaction information'
0	(0)	X'16'	0	\$DRCNVT	"22" 'Want/added JQEs to CNVT queue'
0	(0)	X'17'	0	\$DRHOPE	"23" 'Want/added JQEs to OUTPUT queue'
0	(0)	X'18'	0	\$DRPCETM	"24" 'PCE waiting to be detached by resource manager'
0	(0)	X'19'	0	\$DRRMWT	"25" 'PCE waiting to be \$POSTed by resource manager'
0	(0)	X'1A'	0	\$DRSTAC	"26" 'STATUS/CANCEL resource type'
0	(0)	X'1B'	0	\$DRNEWS	"27" 'PCE waiting for a JNEW update (part of JESNEWS process)'
0	(0)	X'1C'	0	\$DRGENL	"28" 'General resource - used by COMM/RDR for S INIT'
0	(0)	X'1D'	0	\$DRSPIN	"29" 'Want/added: spin IOT on CCT or JQE on spin queue'
0	(0)	X'1E'	0	\$DRJCMD	"30" 'PCE waiting for a JQE to restart or cancel'
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'

Comment

Type 34,WSLOK was deleted in z7

End of Comment

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'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.
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Offsets

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

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

Comment

HASP status bit definitions

End of Comment

# \$HASPEQU Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
		1... ..		\$QSONDA	"X'80" SHARED QUEUES ARE ON DA
		.1... ..		\$ALMSGSW	"X'40" ALL AVAILABLE FUNCTIONS MSG ISSUED
		..1. ....		\$DRAINED	"X'20" THIS SYSTEM IS DRAINED, FLAG IS ON
		...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

-----  
 \$TKNLN 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	\$TKNLN	"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.		\$MVS IPL	"X'02" MVS WAS IPL'D
		.... ...1		\$COLD FMT	"X'01" COLD START WITH FORMAT
0	(0)	X'1F4'	0	\$WARMHD	"500" Minimum number of hundredths 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
		...1 ....		\$PPVERIU	SETPRT OPTION * BIT DEFINITION * * "X'10" UCS VERIFY BIT SPPVERIU

Comment

\$RRTWA bit definitions

End of Comment

		1... ..		\$RRTJOB	"B'10000000" JOB-LEVEL CHECKING REQ'D
--	--	---------	--	----------	---------------------------------------

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
HASPR TAM 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	\$MINBUFEX	"10" Minimum # of CB buffers
0	(0)	X'270F'	0	\$MAXBUFEX	"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

## \$HASPEQU Map

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 maximum 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 maximum 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)	X'98967F'	0	\$MAXDSKY	"9999999" MAXIMUM NUMBER OF DS PER 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 route code 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	\$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

Comment

Rolling Trace Equates

End of Comment

0	(0)	X'3E8'	0	\$ROTQNUM	"1000" Nr of elements in JQE tbl
0	(0)	X'3E8'	0	\$ROTONUM	"1000" 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

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

## \$HASPEQU Map

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

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
---	-----	------	---	-----------	---------------------------

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
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... ....		\$CKRNTP	"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
Comment					
THESE NEXT TWO BIT DEFINITIONS MUST NOT BE THE SAME AS \$CKRIOE OR \$CKRNIOE. (MAPPED OVER \$CKRTOP AND \$CKRNTP 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 \$CKRNTP 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

## \$HASPEQU Map

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

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
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	\$ENFPOL	"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
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

# \$HASPEQU Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
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	\$SACTCM	"27" \$ACTIVATE command
0	(0)	X'1C'	0	\$SCZAPCM	"28" \$ZAP command
0	(0)	X'1D'	0	\$SCMGCMD	"29" \$MIGRATE command
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

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
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 field containing length
		..1. ....		HTABFADD	"B'00100000" HTABTEL contains offset of field containing address of next 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

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

## \$HASPEQU Map

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

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



Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
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'BO'	0	SCNDR67	"SCNDR66+4,4" PTR TO DIAGFUFD 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'CO'	0	SCNDR71	"SCNDR70+4,4" PTR TO DIAGLNSH MSG ADDR
0	(0)	X'C4'	0	SCNDR72	"SCNDR71+4,4" PTR TO DIAGRJR 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 DIAGPLX 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 DIAGSMND MSG ADDR
0	(0)	X'118'	0	SCNDR93	"SCNDR92+4,4" PTR TO DIAGNXEQ MSG ADDR
0	(0)	X'11C'	0	SCNDR94	"SCNDR93+4,4" Ptr to DIAGQERR msg addr
0	(0)	X'120'	0	SCNDR95	"SCNDR94+4,4" Ptr to DIAGNBRT msg addr
0	(0)	X'124'	0	SCNDR96	"SCNDR95+4,4" Ptr to DIAGNTSN msg addr
0	(0)	X'128'	0	SCNDR97	"SCNDR96+4,4" Ptr to DIAGLPRM msg addr
0	(0)	X'12C'	0	SCNDR98	"SCNDR97+4,4" Ptr to DIAGINCL msg addr
0	(0)	X'130'	0	SCNDR99	"SCNDR98+4,4" Ptr to DIAGSTX msg addr
0	(0)	X'134'	0	SCNDR100	"SCNDR99+4,4" Ptr to DIAGDPRM 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

# \$HASPEQU Map

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

Comment

HASP599 BLDMSG Parm list mapping

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

HASP446 BLDMSG Parm list mapping

(keep in synch with \$CKEMIGR  
macro in HASPIRDA)

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	\$NTNODE	"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

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
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

Comment

EQU B'01111111' Do not attempt to use other

End of Comment

Comment

Constants used to process the performance 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'C'	0	PRFDLEN	"12" Length of table entry

## \$HASPEQU Map

### Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
-----					
<p>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.</p>					
-----					
End of Comment					
0	(0)	X'1000'	0	XCFMSIZE	"4096" Size of the data area
0	(0)	X'0'	0	XCFMTHM	"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	XCFMEMM	"0,16,C'C'" XCF member name
0	(0)	X'10'	0	XCFMEMMR	"16,1,C'X'" Reason 'NOT US'
0	(0)	X'11'	0	XCFMEMMF	"17,1,C'X'" Copy of XMAUSFLG
0	(0)	X'12'	0	XCFMEMMC	"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					
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 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

Offsets

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

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

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

# \$HASPEQU Map

## Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
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 - AMERICAN NATIONAL STD USER LABEL
Comment					
Miscellaneous DYNALLOCF 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	GTWKTFGL	"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

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
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
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
0	(0)	X'2'	0	\$GTPARML	"2" \$#GET Parameter list length
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					
		1... ....		\$REMPURG	"B'10000000" PURGE THE SPIN IOT TRACKS

## \$HASPEQU Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
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					
\$SJJOBIT macro option flags					
End of Comment					
	1..	....		\$SJITMP	"B'10000000" TEMPORARY SJJOB REQUESTED
	.1.	....		\$SJIFREE	"B'01000000" FREE SJJOB REQUESTED
	..1.	....		\$SJINSJB	"B'00100000" NO SJB REQUIRED
	...1	....		\$SJINIT	"B'00010000" INIT SJJOB REQUESTED
	....	1..		\$SJIGNYC	"B'00001000" UNCONDITIONAL GET SJJOB
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					
<p>\$DCBDYN macro option flags</p>					
End of Comment					
	1...	....		\$BDYNATT	"B'10000000" DCB ATTACH REQUEST
	.1..	....		\$BDYNDET	"B'01000000" DCB DETACH REQUEST
Comment					
<p>\$DCTDYN macro option flags</p>					
End of Comment					
	1...	....		\$DDYNATT	"B'10000000" DCT ATTACH REQUEST
	.1..	....		\$DDYNFND	"B'01000000" DCT FIND REQUEST
Comment					
<p>\$DTEDYN macro option flags</p>					
End of Comment					
	1...	....		\$DTEPARM	"B'10000000" PARM PARAMETER SPECIFIED
	.1..	....		\$DTEPECB	"B'01000000" ECB TYPE WAIT SPECIFIED
	..1.	....		\$DTEPCB	"B'00100000" XECB TYPE WAIT SPECIFIED
Comment					
<p>\$ENTRY macro eyecatcher fields            Normal \$ENTRY work area            EQU 0,4 Initial jump instruction            EQU 4,4 Fill characters (\$\$\$\$)</p>					
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					
<p>SSI \$ENTRY work area            EQU 0,4 Initial jump instruction            EQU 4,4 Secondary jump or (\$\$\$\$)</p>					
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					
<p>\$EXCP macro option flags</p>					
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

# \$HASPEQU Map

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

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
<p>\$JQESERV Macro option flags</p>					
End of Comment					
0	(0)	BITSTRING	0	\$JSRBERT	"B'1000000000000000" BERTLOCK=YES specified
0	(0)	BITSTRING	0	\$JSRGSP	"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		\$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'000000000001000" REQUEST=QUERY
Comment					
<p>\$MODLOAD macro option flags</p>					
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					
<p>\$PBLOCK macro options flags</p>					
End of Comment					
		1... ....		\$PBLKSLT	"B'10000000" SLANT WAS SPECIFIED
		.1.. ....		\$PBLKCTR	"B'01000000" CENTER WAS SPECIFIED
Comment					
<p>\$PCEDYN macro option flags</p>					
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

# \$HASPEQU Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
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'184'	0	\$QWALEN	"388" 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)
		.... ...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

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
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					
\$\$DUMP 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	\$\$SEANNEWS	"\$\$SEARRT+1" JESNEWS UPDATE AUTH CALL
0	(0)	X'17'	0	\$\$SEANWBL	"\$\$SEANNEWS+1" JESNEWS TOKEN BUILD CALL
0	(0)	X'18'	0	\$\$SEAVERS	"\$\$SEANWBL+1" Subtask VERIFY (build ACEE)
0	(0)	X'19'	0	\$\$SEAAUD	"\$\$SEAVERS+1" Audit for job in error
0	(0)	X'1A'	0	\$\$SEADCHK	"\$\$SEAAUD+1" \$DESTCHK AUTH call
0	(0)	X'1B'	0	\$\$SEATSOC	"\$\$SEADCHK+1" TRACE SYSOUT DS CREATE
0	(0)	X'1C'	0	\$\$SEASSOC	"\$\$SEATSOC+1" SYSTEM SYSOUT DS CREATE
0	(0)	X'1D'	0	\$\$SEANSOC	"\$\$SEASSOC+1" NEWS SYSOUT DS CREATE
0	(0)	X'1E'	0	\$\$SEASOX	"\$\$SEANSOC+1" SYSOUT XMIT/OFFLOAD
0	(0)	X'1F'	0	\$\$SEANJEV	"\$\$SEASOX+1" NJE/OFFLOAD SYSOUT VERIFYX
0	(0)	X'20'	0	\$\$SEAJOX	"\$\$SEANJEV+1" JOB XMIT/OFFLOAD
0	(0)	X'21'	0	\$\$SEASPBC	"\$\$SEAJOX+1" RESERVED
0	(0)	X'22'	0	\$\$SEASPBO	"\$\$SEASPBC+1" SPOOL BROWSE DATA SET OPEN
0	(0)	X'23'	0	\$\$SEASFS	"\$\$SEASPBO+1" Scheduler Service TOKNXTR
0	(0)	X'24'	0	\$\$SEASSWM	"\$\$SEASFS+1" SWM Modify ALTER AUTH

## \$HASPEQU Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
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
Comment					
<p>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)</p>					
End of Comment					
0	(0)	X'2A'	0	\$SEAUSED	"\$SEASPLR" 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
Comment					
High order bit on					
End of Comment					
	1... ..			\$EQUHBIT	"B'10000000" TURN ON HIGH ORDER BIT

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
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
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

# \$HASPEQU Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
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'CO'	0	\$ERRC192	"192" A caller of \$SJBQR 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'FO'	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" TBL0B 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.

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



Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
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 Flag(\$DEBGOPS) in 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
.... 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

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
---	-----	-------	---	-----------	------------------------------

# \$HASPEQU Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
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
		..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
Comment					
JOB TRANSMITTER MISCELLANEOUS EQUATES					
End of Comment					
		11.. ....		SRCBJH	"X'C0" JOB HEADER SRCB
		111. ....		SRCBD SH	"X'E0" DATA SET HEADER SRCB
		11.1 ....		SRCBJT	"X'D0" JOB TRAILER SRCB
Comment					
MISCELLANEOUS EQUATES					
End of Comment					
		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

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
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'10000000000000000000000000000000"
0	(0)	BITSTRING	0	\$CONER02	"B'01000000000000000000000000000000"
0	(0)	BITSTRING	0	\$CONER03	"B'00100000000000000000000000000000"
0	(0)	BITSTRING	0	\$CONER04	"B'00010000000000000000000000000000"
0	(0)	BITSTRING	0	\$CONER05	"B'00001000000000000000000000000000"
0	(0)	BITSTRING	0	\$CONER06	"B'00000100000000000000000000000000"
0	(0)	BITSTRING	0	\$CONER07	"B'00000010000000000000000000000000"
0	(0)	BITSTRING	0	\$CONER08	"B'00000001000000000000000000000000"
0	(0)	BITSTRING	0	\$CONER09	"B'00000000100000000000000000000000"
0	(0)	BITSTRING	0	\$CONER10	"B'00000000010000000000000000000000"
0	(0)	BITSTRING	0	\$CONER11	"B'00000000001000000000000000000000"
0	(0)	BITSTRING	0	\$CONER12	"B'00000000000100000000000000000000"
0	(0)	BITSTRING	0	\$CONER13	"B'00000000000010000000000000000000"
0	(0)	BITSTRING	0	\$CONER14	"B'00000000000001000000000000000000"

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

## \$HASPEQU Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
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					
<p>JECL validity Equates.</p> <p>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.</p> <p>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.</p> <p>The name of each equate will be in the form:</p> <p style="padding-left: 20px;">\$JECvvo</p> <p>where vv is the verb (see examples below) and oo is the operand for that verb</p> <p>Make sure that \$JECMAX is always at least one greater than the highest index defined.</p>					
End of Comment					
0	(0)	X'0'	0	\$JECDE	"0" DEL
0	(0)	X'1'	0	\$JEC EO	"1" EOF
0	(0)	X'2'	0	\$JECPU	"2" PURGE
0	(0)	X'3'	0	\$JECJP	"3" JOBPARM
0	(0)	X'4'	0	\$JECMS	"4" MESSAGE
0	(0)	X'5'	0	\$JECNA	"5" NETACCT
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)

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
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
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

## \$HASPEQU Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
<p>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.</p>					
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					
<p>-----            \$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.</p>					
End of Comment					
0	(0)	X'60000'	0	\$MAX_MSTR_SIZE	"(96*4096)" Max master record size
Comment					
<p>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.</p>					
End of Comment					
0	(0)	X'5'	0	\$JES2510	"5" JES2 SP 5.1.0
0	(0)	X'A'	0	\$JES2520	"10" JES2 SP 5.2.0
0	(0)	X'F'	0	\$JES2110	"15" JES2 OS/390 release 1
0	(0)	X'14'	0	\$JES2130	"20" JES2 OS/390 release 3
0	(0)	X'19'	0	\$JES2240	"25" JES2 OS/390 release 4
0	(0)	X'1E'	0	\$JES2250	"30" JES2 OS/390 release 5
0	(0)	X'23'	0	\$JES2270	"35" JES2 OS/390 release 7
0	(0)	X'28'	0	\$JES2280	"40" JES2 OS/390 release 8
0	(0)	X'2D'	0	\$JES2210	"45" JES2 OS/390 release 10
0	(0)	X'32'	0	\$JES2Z102	"50" JES2 z/OS 1.2
0	(0)	X'37'	0	\$JES2Z104	"55" JES2 z/OS 1.4
0	(0)	X'3C'	0	\$JES2Z105	"60" JES2 z/OS 1.5
0	(0)	X'41'	0	\$JES2Z107	"65" JES2 z/OS 1.7
0	(0)	X'46'	0	\$JES2Z108	"70" JES2 z/OS 1.8

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
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'55'	0	\$JES2HI	"\$JES2Z113" 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
---	-----	-------	---	----------	----------------------------

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

End of Comment

0	(0)	X'26'	0	\$J2PZ109	"38" JES2 z/OS 1.9
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

## \$HASPEQU Cross Reference

### \$HASPEQU Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
\$AFTMASK	0	0	\$CONER09	0	8000
\$AFTOFF	0	1	\$CONER10	0	4000
\$AFTOKEN	0	3	\$CONER11	0	2000
\$AIDNDEF	0	C	\$CONER12	0	1000
\$AIDNVAL	0	10	\$CONER13	0	800
\$AIDOK	0	0	\$CONER14	0	400
\$AIDUSED	0	4	\$CONFIG	0	10
\$AIDUTRK	0	8	\$CPNHBMX	0	190
\$ALMSGSW	0	40	\$CPRIMXT	0	C8
\$AUDDEL	0	C	\$CSBID	0	0
\$AUDINER	0	14	\$CSBPRFX	0	8
\$AUDIO	0	4	\$CSBSPLN	0	4
\$AUDLOST	0	8	\$CS2PRFX	0	10
\$AUDMOVE	0	10	\$DBGBERT	0	80
\$AUDSUB	0	18	\$DBGCKPT	0	40
\$BDYNATT	0	80	\$DBGMISC	0	4
\$BDYNDET	0	40	\$DBGSAF	0	1
\$CF1R004	0	4	\$DBGSTRG	0	8
\$CF1R008	0	8	\$DBGSYMR	0	2
\$CF1R012	0	C	\$DBGVERB	0	10
\$CF1R036	0	24	\$DBGVERS	0	20
\$CHECINH	0	80	\$DDYNATT	0	80
\$CHECNWA	0	40	\$DDYNFND	0	40
\$CHECPST	0	20	\$DILINDR	0	1
\$CKADEF	0	20	\$DRABIT	0	1
\$CKANEW	0	40	\$DRAINED	0	20
\$CKAOLD	0	80	\$DRALICE	0	2B
\$CKPAMWS	0	80	\$DRALOC	0	2
\$CKPBLDQ	0	2	\$DRARMS	0	20
\$CKPDAMG	0	8	\$DRBERTL	0	27
\$CKPGDEF	0	64	\$DRBERTW	0	26
\$CKPLOBK	0	20	\$DRBREG	0	28
\$CKPPOST	0	80	\$DRBUF	0	4
\$CKPSPVL	0	40	\$DRCCAN	0	24
\$CKPTRSV	0	1	\$DRCKPT	0	A
\$CKPTW	0	10	\$DRCKPTL	0	C
\$CKPUNK	0	40	\$DRCKPTP	0	B
\$CKRCKP1	0	20	\$DRCKPTW	0	D
\$CKRCKP2	0	8	\$DRCMB	0	E
\$CKRDEL	0	80	\$DRCNVT	0	16
\$CKRIOE	0	2	\$DRDAWN	0	2E
\$CKRNDEL	0	40	\$DRDILBERT	0	29
\$CKRNIOE	0	1	\$DREOM	0	2C
\$CKRNKP1	0	10	\$DRFSS	0	12
\$CKRNKP2	0	4	\$DRGENL	0	1C
\$CKRNSTR	0	40	\$DRHOMOG	0	21
\$CKRNTOP	0	40	\$DRHOPE	0	17
\$CKRSTRT	0	80	\$DRIMAGE	0	3
\$CKRTOP	0	80	\$DRIRCLEAN	0	2D
\$CMBDEF	0	64	\$DRJCMD	0	1E
\$CMDDYNA	0	1	\$DRJOB	0	8
\$CMDNORM	0	0	\$DRJOE	0	6
\$CMDNUM	0	2	\$DRJOT	0	5
\$COLD	0	4	\$DRLOCK	0	10
\$COLDFMT	0	1	\$DRMAIN	0	11
\$CONER01	0	800000	\$DRMFMT	0	23
\$CONER02	0	400000	\$DRMLLM	0	0
\$CONER03	0	200000	\$DRNEWS	0	1B
\$CONER04	0	100000	\$DRPCETM	0	18
\$CONER05	0	80000	\$DRPSO	0	13
\$CONER06	0	40000	\$DRPURGE	0	14
\$CONER07	0	20000	\$DRQUEL	0	8
\$CONER08	0	10000	\$DRRMWT	0	19



## \$HASPEQU Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
\$DRSMF	0	F	\$ERRC192	0	C0
\$DRSPI	0	25	\$ERRC196	0	C4
\$DRSPIN	0	1D	\$ERRC200	0	C8
\$DRSTAC	0	1A	\$ERRC204	0	CC
\$DRTIPS	0	15	\$ERRC212	0	D4
\$DRTOTAL	0	40	\$ERRC216	0	D8
\$DRTRACK	0	7	\$ERRC224	0	E0
\$DRUNIT	0	9	\$ERRC228	0	E4
\$DRWARM	0	1F	\$ERRC232	0	E8
\$DRXMITJOB	0	2A	\$ERRC236	0	EC
\$DTEPARM	0	80	\$ERRC240	0	F0
\$DTEPECB	0	40	\$ERRC244	0	F4
\$DTEPXCBC	0	20	\$ERRC248	0	F8
\$DYNLOCF	0	1708	\$ERRC252	0	FC
\$DYNNEW	0	4	\$ERRC256	0	100
\$ENFPOL	0	F1	\$ERRC260	0	104
\$ENTCADR	0	10	\$ERRC264	0	108
\$ENTNAME	0	8	\$ERRC268	0	10C
\$ENTSDSC	0	10	\$ERRC272	0	110
\$ENTSEXL	0	3A	\$ERRC276	0	114
\$ENTSFG1	0	39	\$ERRC280	0	118
\$ENTSNAM	0	8	\$ERRC284	0	11C
\$ENTSNUM	0	38	\$ERRC288	0	120
\$ENTS1AU	0	80	\$ERRC292	0	124
\$ENTYLEN	0	27	\$ERRC296	0	128
\$EQUHBIT	0	80	\$ERRC300	0	12C
\$ERRCDE	0	0	\$ERRC304	0	130
\$ERRC000	0	0	\$ERRC308	0	134
\$ERRC004	0	4	\$ERRC316	0	13C
\$ERRC008	0	8	\$ERRC320	0	140
\$ERRC012	0	C	\$ERRC324	0	144
\$ERRC016	0	10	\$ERRC328	0	148
\$ERRC028	0	1C	\$ERRC332	0	14C
\$ERRC032	0	20	\$ERRC336	0	150
\$ERRC036	0	24	\$ERRC340	0	154
\$ERRC040	0	28	\$ERRC344	0	158
\$ERRC076	0	4C	\$ERRC348	0	15C
\$ERRC080	0	50	\$ERRC352	0	160
\$ERRC084	0	54	\$ERRC356	0	164
\$ERRC088	0	58	\$ERRC360	0	168
\$ERRC092	0	5C	\$ERRC364	0	16C
\$ERRC096	0	60	\$ERRENTY	0	2E
\$ERRC100	0	64	\$ERRTEXT	0	4
\$ERRC104	0	68	\$ESYS	0	8
\$ERRC108	0	6C	\$EWFHOLD	0	8
\$ERRC112	0	70	\$EWFIO	0	20
\$ERRC116	0	74	\$EWFOPER	0	40
\$ERRC120	0	78	\$EWFPOST	0	80
\$ERRC124	0	7C	\$EWFWORK	0	10
\$ERRC128	0	80	\$EXCPMT	0	20
\$ERRC132	0	84	\$EXCPVR	0	80
\$ERRC136	0	88	\$EXCPWT	0	40
\$ERRC140	0	8C	\$EXTPCLO	0	3
\$ERRC144	0	90	\$EXTPGET	0	1
\$ERRC148	0	94	\$EXTPNCL	0	4
\$ERRC152	0	98	\$EXTPOPE	0	0
\$ERRC156	0	9C	\$EXTPPUT	0	2
\$ERRC160	0	A0	\$EXTPREA	0	5
\$ERRC164	0	A4	\$EXTPWRI	0	6
\$ERRC168	0	A8	\$FBUFMLT	0	80
\$ERRC172	0	AC	\$FCMBCNT	0	80
\$ERRC176	0	B0	\$GBUFWT	0	80
\$ERRC180	0	B4	\$GSMFBLG	0	40
\$ERRC184	0	B8	\$GSMFBWT	0	80
\$ERRC188	0	BC	\$GTCHNNO	0	40

## \$HASPEQU Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
\$GTCOUNT	0	1	\$JES2520	0	A
\$GTHAVNO	0	80	\$JEXTFRE	0	80
\$GTIOTYS	0	20	\$JEXTLEN	0	2
\$GTNET	0	10	\$JEXTMAX	0	7FFF
\$GTNOSAF	0	2	\$JEXTTGN	0	0
\$GTPARML	0	2	\$JIXFOMT	0	10
\$GTWKCND	0	80	\$JIXFREE	0	40
\$GTWKLOC	0	20	\$JIXGET	0	80
\$GTWKRO	0	10	\$JIXSWAP	0	20
\$GTWKWAT	0	40	\$JIXVERI	0	8
\$GTWRKSL	0	8	\$JIXWNO	0	0
\$GTWSP	0	4	\$JIXWYES	0	1
\$HASPEQU	0		\$JMPREDO	0	32
\$HOT	0	40	\$JQEDEF	0	3E8
\$HOURPLUS	0	E4C	\$JSRBERT	0	8000
\$ILPFLG1	0	1	\$JSRFREE	0	400
\$ILPFLG2	0	2	\$JSRGSPL	0	4000
\$ILPFLG3	0	3	\$JSRJQA	0	800
\$ILPSIZE	0	0	\$JSRRWAT	0	2000
\$INDMODE	0	8	\$JSRSTC	0	100
\$IOTRBGN	0	3E8	\$JSRTADD	0	1
\$IOTRLMT	0	5	\$JSRTCAN	0	7
\$IPUSER	0	C	\$JSRTCKP	0	2
\$JCXLOCL	0	8000	\$JSRTFRE	0	6
\$JECDE	0	0	\$JSRTMOD	0	3
\$JECEO	0	1	\$JSRTOBT	0	5
\$JECJP	0	3	\$JSRTQRY	0	8
\$JECJPRE	0	1F	\$JSRTREM	0	4
\$JECJPSA	0	1E	\$JSRTSU	0	200
\$JECMAX	0	20	\$JSRWAIT	0	1000
\$JECMS	0	4	\$JWEBULK	0	40
\$JECNA	0	5	\$JWECRTM	0	4
\$JECNO	0	6	\$JWEDVID	0	C
\$JECNOK	0	4	\$JWEFLAG	0	F
\$JECNV	0	E	\$JWEFLG1	0	0
\$JECOC	0	F	\$JWELEN	0	10
\$JECOK	0	0	\$JWELONG	0	80
\$JECOU	0	7	\$JWENUM	0	4
\$JECPR	0	8	\$JWEPTR	0	0
\$JECPU	0	2	\$JWETBLL	0	8
\$JECRO	0	9	\$JW1NCLR	0	80
\$JECROXQ	0	C	\$J2PZ109	0	26
\$JECSC	0	A	\$J2PZ110	0	27
\$JECSE	0	B	\$J2PZ111	0	28
\$JECXM	0	D	\$J2PZ112	0	29
\$JECXQ	0	C	\$J2PZ113	0	2A
\$JES2HI	0	55	\$J2PZ250	0	1D
\$JES2Z102	0	32	\$KCPMI2M	0	0
\$JES2Z104	0	37	\$KCPM2MI	0	1
\$JES2Z105	0	3C	\$LABAL	0	40
\$JES2Z107	0	41	\$LABAUL	0	48
\$JES2Z108	0	46	\$LABBLP	0	10
\$JES2Z109	0	49	\$LABNL	0	1
\$JES2Z110	0	4C	\$LABNSL	0	4
\$JES2Z111	0	4F	\$LABSL	0	2
\$JES2Z112	0	52	\$LABSUL	0	A
\$JES2Z113	0	55	\$LRGSMFB	0	8000
\$JES2110	0	F	\$LVALONE	0	80
\$JES2130	0	14	\$L01R004	0	4
\$JES2210	0	2D	\$MAX_MSTR_SIZE		
\$JES2240	0	19		0	60000
\$JES2250	0	1E	\$MAXACCT	0	8F
\$JES2270	0	23	\$MAXBERT	0	F4240
\$JES2280	0	28	\$MAXBERT_Z2	0	7A120
\$JES2510	0	5	\$MAXBSC	0	270F

## \$HASPEQU Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
\$MAXBUF	0	7D0	\$MINBUFX	0	A
\$MAXBUFX	0	270F	\$MINCMB	0	4
\$MAXCMB	0	270F	\$MINCMDB	0	4
\$MAXCMDB	0	270F	\$MINJDEF	0	1
\$MAXCMPT	0	63	\$MINNHB	0	A
\$MAXCPLN	0	7FFF	\$MINTINT	0	F
\$MAXCPPG	0	7FFF	\$MINVTAM	0	A
\$MAXCPTM	0	7FFF	\$MLDIRL	0	20
\$MAXCYL	0	1111	\$MLDLPA	0	10
\$MAXDA	0	FD	\$MLJ2MOD	0	40
\$MAXDISP	0	98967F	\$MLMSGI	0	8
\$MAXDSKY	0	98967F	\$MLMSGS	0	4
\$MAXESIZ	0	4E20	\$MLMSGY	0	80
\$MAXFORM	0	8	\$MLREPL	0	2
\$MAXICES	0	7FFF	\$MLREPLC	0	1
\$MAXINIT	0	270F	\$MQTRLEN	0	6
\$MAXIPLN	0	7F	\$MSGPFXL	0	2
\$MAXJDEF	0	270F	\$MTTRLEN	0	4
\$MAXJNUM	0	F423F	\$MVS IPL	0	2
\$MAXJOEP	0	14	\$MWORKSZ	0	120
\$MAXJOID	0	F5E0FF	\$MXCKPCT	0	63
\$MAXLCK	0	8	\$MXSYSBY	0	4
\$MAXLCYL	0	11111	\$M064DAD	0	10
\$MAXLNES	0	FFFF	\$M064IBE	0	80
\$MAXLOGS	0	3E7	\$M064MIG	0	8
\$MAXLTRV	0	FFFFF	\$M064NIB	0	40
\$MAXNHB	0	270F	\$M064RD	0	4
\$MAXNJEQ	0	7	\$M064SNS	0	20
\$MAXNJQE	0	61A80	\$M064WRT	0	2
\$MAXNJQE_Z2	0	30D40	\$M068DEV	0	80
\$MAXNMSG	0	C8	\$M068LDV	0	20
\$MAXNODE	0	7FFF	\$M068NDV	0	40
\$MAXNPRO	0	E10	\$M120INR	0	40
\$MAXOFFS	0	8	\$M120OTH	0	80
\$MAXPATH	0	8	\$M260CLD	0	80
\$MAXPPBF	0	1F4	\$M260NCL	0	40
\$MAXPRDV	0	8	\$M281ALL	0	80
\$MAXPRMD	0	FF	\$M281SOM	0	40
\$MAXPRTS	0	7FFF	\$M291CC1	0	80
\$MAXPUNS	0	63	\$M291CC2	0	40
\$MAXRCLN	0	12	\$M291NCW	0	20
\$MAXRDRS	0	63	\$M291SNS	0	10
\$MAXRJE	0	7FFF	\$M416LNG	0	80
\$MAXROUT	0	7FFF	\$M416SHR	0	40
\$MAXRST	0	7D0	\$M443ATT	0	80
\$MAXSAFL	0	80	\$M443LEV	0	20
\$MAXSJFR	0	1F4	\$M443NUM	0	40
\$MAXSNML	0	4	\$M445CKP	0	C
\$MAXSRVS	0	3E7	\$M445DSN	0	14
\$MAXSSZZ	0	1E	\$M445MIG	0	10
\$MAXSYS	0	20	\$M445OTH	0	8
\$MAXSYSN	0	20	\$M458CK1	0	80
\$MAXTGBE	0	FF	\$M458CK2	0	40
\$MAXTGS	0	E81200	\$M478CK1	0	80
\$MAXTGS_Z2	0	FD0240	\$M478CK2	0	40
\$MAXTGV	0	20000	\$M479INT	0	20
\$MAXTINT	0	1F4	\$M479IO	0	80
\$MAXTLOG	0	FFFFFFF	\$M479SID	0	40
\$MAXTRC	0	BB8	\$M479VAL	0	10
\$MAXTRV	0	FFFF	\$M565CON	0	40
\$MAXVRSN	0	32	\$M565LNE	0	80
\$MAXVTAM	0	270F	\$M568APT	0	40
\$MINBERT	0	64	\$M568LGN	0	8
\$MINBSC	0	A	\$M568LIN	0	4
\$MINBUF	0	A	\$M568NIT	0	80

## \$HASPEQU Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
\$M568NSV	0	10	\$REMPURG	0	80
\$M568SCK	0	20	\$ROTDNUM	0	7D0
\$NJETCP_PORT	0	AF	\$ROTONUM	0	3E8
\$NJETCP_PORT_SSL	0	8CC	\$ROTQNUM	0	3E8
\$NPMDOWN	0	2	\$RRTJOB	0	80
\$NPRICHG	0	20	\$SCACMDS	0	C
\$NPRODEF	0	12C	\$SCACTCM	0	1B
\$NTNNODE	0	0	\$SCCCMDS	0	14
\$NTNONDE	0	10	\$SCCOCMD	0	16
\$NTNOTUS	0	8	\$SCDCMDS	0	4
\$NTNOUSR	0	18	\$SCDDIAL	0	9
\$NTPARML	0	0	\$SCDOCMD	0	6
\$ODANY	0	F	\$SCECMDA	0	10
\$ODANYWP	0	1F	\$SCECMDS	0	B
\$ODHOLD	0	4	\$SCHCMDS	0	12
\$ODKEEP	0	2	\$SCIDIAL	0	E
\$ODLEAVE	0	1	\$SCIRPL	0	2
\$ODPURGE	0	10	\$SCIRPLC	0	3
\$ODWRITE	0	8	\$SCLCMDS	0	1A
\$PBLKCTR	0	40	\$SCLOCMD	0	19
\$PBLKSLT	0	80	\$SCLTCMD	0	F
\$PBUFLIM	0	3E8	\$SCMGCMD	0	1D
\$PDYNALT	0	10	\$SCOCMDS	0	18
\$PDYNAT	0	80	\$SCOPTS	0	1
\$PDYNDCT	0	2	\$SCPCMDS	0	8
\$PDYNDT	0	40	\$SCPOCMD	0	17
\$PDYNDTT	0	20	\$SCRCMDS	0	D
\$PDYNPCE	0	8	\$SCRLCMD	0	13
\$PDYNTAB	0	4	\$SCSCMDS	0	5
\$PGESIZE	0	1000	\$SCSDIAL	0	A
\$PGSFIX	0	40	\$SCSTCMD	0	7
\$PGSFREE	0	20	\$SCTOCMD	0	15
\$PGSPRO	0	8	\$SCWHOTS	0	40
\$PGSRPSL	0	10	\$SCWIBM	0	3C
\$PGSRVRL	0	80	\$SCWINST	0	3
\$PGSUPRO	0	4	\$SCWOBS	0	80
\$PLXPCEL	0	14	\$SCZAPCM	0	1C
\$PLXSCEL	0	14	\$SCZCMDS	0	11
\$PPVERIU	0	10	\$SDAPPND	0	40
\$PRWRATE	0	A	\$SDDEFT	0	20
\$PRWTHSH	0	8	\$SDHOME	0	80
\$PSTJOE	0	0	\$SDRETRN	0	10
\$PSTJQE	0	4	\$SDWAIT	0	8
\$PSTKEPJ	0	40	\$SDXSYS	0	4
\$PSTMASP	0	80	\$SEAAUD	0	19
\$PSTMSG	0	C	\$SEACMD	0	C
\$PSTNSPN	0	20	\$SEADCHK	0	1A
\$PSTXMIT	0	8	\$SEADEL	0	E
\$QADJQA	0	8	\$SEADEVA	0	12
\$QGTINWS	0	20	\$SEADIRA	0	29
\$QGTLST	0	40	\$SEAFAIL	0	8
\$QGTLSTC	0	80	\$SEAINIT	0	1
\$QGTWLMQ	0	10	\$SEAJOX	0	20
\$QINDXL	0	100	\$SEAMAX	0	FF
\$QMDHJCT	0	2	\$SEAND	0	4
\$QMDKEEP	0	10	\$SEANEWS	0	16
\$QMDNX51	0	4	\$SEANJEA	0	13
\$QMDOVAL	0	1	\$SEANJES	0	0
\$QSNPCHG	0	40	\$SEANJEV	0	1F
\$QSONDA	0	80	\$SEANSOC	0	1D
\$QUICK	0	20	\$SEANSON	0	28
\$QWALEN	0	184	\$SEANSTO	0	C
\$REMKPJQ	0	10	\$SEANUSE	0	F
\$REMLOCK	0	20	\$SEANWBL	0	17
			\$SEAOK	0	0

## \$HASPEQU Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
\$SEAPRT	0	D	\$WARMHD	0	1F4
\$SEAPSO	0	9	\$WSFRJE	0	80
\$SEAPSS	0	A	\$WSJSREC	0	40
\$SEAREXT	0	14	\$XMLOSTP	0	80
\$SEARJES	0	11	\$XMPASCB	0	8
\$SEARRT	0	15	\$XMPECB	0	C
\$SEASAPI	0	25	\$XMPECBP	0	4
\$SEASCLA	0	26	\$XMPERET	0	0
\$SEASCLE	0	27	\$1E0C004	0	4
\$SEASFS	0	23	\$1E0C008	0	8
\$SEASIC	0	5	\$1E0C012	0	C
\$SEASIP	0	7	\$1E0C016	0	10
\$SEASOC	0	6	\$1E0ET01	0	1
\$SEASOP	0	8	\$1E0ET02	0	2
\$SEASOX	0	1E	\$1E0ET03	0	3
\$SEASPBC	0	21	\$1E0ET04	0	4
\$SEASPBO	0	22	\$1E0ET05	0	5
\$SEASPLR	0	2A	\$1E0ET06	0	6
\$SEASSOC	0	1C	\$1E0ET07	0	7
\$SEASSWM	0	24	\$1E0ET08	0	8
\$SEATBLD	0	10	\$1E0ET09	0	9
\$SEATCAN	0	B	\$1E0ET10	0	A
\$SEATSOC	0	1B	\$1E0ET11	0	B
\$SEAUSED	0	2A	\$1E0ET12	0	C
\$SEAVERC	0	2	\$1E0ET13	0	D
\$SEAVERD	0	3	\$446CVER	0	A
\$SEEVERS	0	18	\$446MVER	0	9
\$SEAXTRT	0	4	\$599LEN	0	C
\$SEGLMDF	0	64	\$599PIT	0	0
\$SJIFREE	0	40	\$599SQD	0	4
\$SJIGNYC	0	8	\$599XINI	0	8
\$SJINIT	0	10	AB02AR0C	0	C
\$SJINSJB	0	20	AB02AR04	0	4
\$SJITEMP	0	80	AB02AR08	0	8
\$SMFDEF	0	5	AB02AR1C	0	1C
\$SPCSAF	0	E7	AB02AR10	0	10
\$SPIN_LINES	0	8	AB02AR14	0	14
\$SPIN_OPERATOR	0	0	AB02AR18	0	18
\$SPIN_SEGMENT	0	0	AB02AR2C	0	2C
\$SPIN_TIME	0	C	AB02AR20	0	20
\$SP0	0	0	AB02AR24	0	24
\$SP132	0	84	AB02AR28	0	28
\$SP233	0	E9	AB02AR3C	0	3C
\$SQINDXL	0	100	AB02AR30	0	30
\$SSIRCVR	0	1	AB02AR34	0	34
\$STMT	0	80	AB02AR38	0	38
\$STMTCOM	0	40	AB02AR4C	0	4C
\$STMTERR	0	10	AB02AR40	0	40
\$STMTWAR	0	20	AB02AR44	0	44
\$STSUBP	0	E5	AB02AR48	0	48
\$SUBERR	0	80	AB02AR50	0	50
\$SUBMULT	0	40	AB02AR54	0	54
\$SYSEXIT	0	4	AR0	0	0
\$TGDEF	0	3FA0	AR1	0	1
\$TIMETST	0	80	AR10	0	A
\$TKNLEN	0	50	AR11	0	B
\$TKNVERN	0	1	AR12	0	C
\$TRK000D	0	0	AR13	0	D
\$VOLFLDL	0	18	AR14	0	E
\$VOLLEN	0	6	AR15	0	F
\$VOLMAX	0	4	AR2	0	2
\$VOLMSKL	0	20	AR3	0	3
\$WARM	0	80	AR4	0	4
			AR5	0	5
			AR6	0	6

## \$HASPEQU Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
AR7	0	7	HTABFADD	0	20
AR8	0	8	HTABFLGB	0	9
AR9	0	9	HTABFNCK	0	8
BATPOOL	0	5	HTABFOFF	0	40
BSCPOOL	0	6	HTABFTRQ	0	80
B32KPOOL	0	A	HTABF0TB	0	10
CBPOOL	0	7	HTABTABL	0	A
CFPOOL	0	13	HTABTEL	0	0
CFREQ_FMT	0	6	HTABTIDF	0	6
CFREQ_LOCK	0	4	HTABTIDL	0	8
CFREQ_READ2	0	2	HTABTMCT	0	2
CFREQ_T1IO	0	1	HTABTUFB	0	4
CFREQ_UNLCK	0	5	ICEPOOL	0	1A
CFREQ_WRITE	0	3	IECITMOD	0	18
CIDPOOL	0	1D	IPCALLER	0	2
CKPCLBCL	0	8	IPEYE	0	14
CKPCLCKP	0	1	IPNODE	0	4
CKPCLCMW	0	40	IPOUTLEN	0	0
CKPCLCRW	0	80	IPRETC	0	4
CKPCLMRK	0	F	IPTUOUT	0	18
CKPCLRDC	0	2	IPWJOA	0	4
CKPCLRDP	0	4	JIXVRSN	0	2
CKPTPOOL	0	4	JOTMXJOE_Z2	0	7A120
CMBPOOL	0	14	LEAVE_JOES_BUSY		
DIAGADDR	0	0		0	0
DIAGKLEN	0	5	MAPADDR	0	8
DIAGKLOC	0	4	MAPBASE	0	C
DYNL3203	0	250	MAPENTL	0	10
DYNL3211	0	23A	MAPMITA	0	8
DYNL3800	0	10E	MAPNAME	0	0
DYNL4245	0	250	M474BTRN	0	18
DYNL4248	0	100	M474ENBT	0	0
DYNT EYE	0	0	M474ENHI	0	8
DYNTLEN	0	18	M474ENLO	0	4
DYNTLMT	0	C	M474ENT1	0	0
DYNTNEXT	0	4	M474ENT2	0	C
DYNTTAB	0	8	M474E1BT	0	0
DYNTTYPE	0	10	M474E1HI	0	8
EXTPLCMD	0	0	M474E1LO	0	4
EXTPLDAT	0	4	M474E2BT	0	C
EXTPLLEN	0	1	M474E2HI	0	14
EXTPLSIZ	0	8	M474E2LO	0	10
FF	0	FF	M474PRML	0	1C
FFFF	0	FFFF	M565LNEN	0	11
FP0	0	0	M565NDEN	0	1
FP2	0	2	M565NSVN	0	9
FP4	0	4	M565RAPP	0	B
FP6	0	6	M565RBUF	0	7
GPQPOOL	0	1F	M565RBUS	0	8
GTWKDIS	0	30	M565RINT	0	A
GTWKMAX	0	2000	M565RNDE	0	5
GTWKRO	0	10	M565RND1	0	1
GTWKTANY	0	20	M565RND2	0	2
GTWKTCEL	0	10	M565RNET	0	9
GTWKTESZ	0	18	M565RNIL	0	3
GTWKTFLG	0	5	M565RNPM	0	6
GTWKTMSZ	0	2	M565RNSK	0	4
GTWKTNAM	0	8	M565RSN	0	0
GTWKT NXT	0	C	M710DOWN	0	2
GTWKTPID	0	4	M710ENT	0	0
GTWKTSIZ	0	0	M710MEM	0	0
GTWKTUSE	0	14	M710RSN	0	4
HASPPPOOL	0	8	M710UP	0	1
HAVTNLOG	0	80	M791GRP	0	4
HEDRPOOL	0	16	M791LEN	0	1C

## \$HASPEQU Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
M791NAME	0	0	SCNDR102	0	13C
M791PLX	0	C	SCNDR103	0	140
M791PXID	0	14	SCNDR104	0	144
NATPOOL	0	9	SCNDR105	0	148
NMAPPOOL	0	B	SCNDR106	0	14C
NONE	0	0	SCNDR107	0	150
NSAPPOOL	0	C	SCNDR108	0	154
NTQPOOL	0	D	SCNDR109	0	158
PAGEPOOL	0	E	SCNDR11	0	28
PAIRDYN	0	8	SCNDR110	0	15C
PAIRHASP	0	4	SCNDR111	0	160
PAIRLEN	0	C	SCNDR112	0	164
PAIRUSER	0	0	SCNDR113	0	168
PCEPOOL	0	19	SCNDR114	0	16C
PERFPOOL	0	18	SCNDR115	0	170
PLXPOOL	0	15	SCNDR116	0	174
PPPOOL	0	F	SCNDR117	0	178
PRFDCKPT	0	7	SCNDR118	0	17C
PRFDCPUS	0	5	SCNDR119	0	180
PRFDDEVG	0	9	SCNDR12	0	2C
PRFDEVNT	0	6	SCNDR120	0	184
PRFDIND	0	8	SCNDR121	0	188
PRFDINTS	0	1	SCNDR122	0	18C
PRFDLEN	0	C	SCNDR123	0	190
PRFDMIGR	0	A	SCNDR124	0	194
PRFDNAME	0	0	SCNDR125	0	198
PRFDPCES	0	3	SCNDR126	0	19C
PRFDQSUS	0	2	SCNDR127	0	1A0
PRFDSAMP	0	4	SCNDR128	0	1A4
PRFDSUBT	0	8	SCNDR13	0	30
PSOPOOL	0	1B	SCNDR130	0	1A8
PSTVRSN	0	2	SCNDR131	0	1AC
RACDSECL	0	24	SCNDR132	0	1B0
REGANSI	0	A0	SCNDR133	0	1B4
RJOBNOFF	0	0	SCNDR134	0	1B8
RJOBOFFL	0	1	SCNDR135	0	1BC
RNTPOOL	0	1C	SCNDR136	0	1C0
RSOVRSN	0	1	SCNDR137	0	1C4
R0	0	0	SCNDR138	0	1C8
R1	0	1	SCNDR139	0	1CC
R10	0	A	SCNDR14	0	34
R11	0	B	SCNDR140	0	1D0
R12	0	C	SCNDR141	0	1D4
R13	0	D	SCNDR142	0	1D8
R14	0	E	SCNDR143	0	1DC
R15	0	F	SCNDR144	0	1E0
R2	0	2	SCNDR145	0	1E4
R3	0	3	SCNDR146	0	1E8
R4	0	4	SCNDR147	0	1EC
R5	0	5	SCNDR17	0	38
R6	0	6	SCNDR18	0	3C
R7	0	7	SCNDR19	0	40
R8	0	8	SCNDR21	0	44
R9	0	9	SCNDR22	0	48
SCNDR01	0	4	SCNDR23	0	4C
SCNDR03	0	8	SCNDR24	0	50
SCNDR04	0	C	SCNDR25	0	54
SCNDR05	0	10	SCNDR26	0	58
SCNDR06	0	14	SCNDR27	0	5C
SCNDR07	0	18	SCNDR28	0	60
SCNDR08	0	1C	SCNDR39	0	64
SCNDR09	0	20	SCNDR40	0	68
SCNDR10	0	24	SCNDR41	0	6C
SCNDR100	0	134	SCNDR43	0	70
SCNDR101	0	138	SCNDR44	0	74

## \$HASPEQU Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
SCNDR45	0	78	SRCBMCH	0	10
SCNDR46	0	7C	SRCBMID	0	4
SCNDR52	0	80	SRCBPAGE	0	30
SCNDR54	0	84	SRCBSPAN	0	C
SCNDR55	0	88	SRCB1ST	0	8
SCNDR56	0	8C	TGMVRSN	0	1
SCNDR57	0	90	TINTPOOL	0	17
SCNDR58	0	94	TMAPADDC	0	18
SCNDR59	0	98	TMAPENTL	0	1C
SCNDR62	0	9C	TMAPLMOD	0	10
SCNDR63	0	A0	TRCCWSP1	0	9
SCNDR64	0	A4	TRCCWSP2	0	11
SCNDR65	0	A8	TRCCWSP3	0	19
SCNDR66	0	AC	TRCLRECL	0	79
SCNDR67	0	B0	UNBUSY_JOES	0	1
SCNDR68	0	B4	VTAMPOOL	0	10
SCNDR69	0	B8	WAVEPOOL	0	22
SCNDR70	0	BC	XCFMLIST	0	8
SCNDR71	0	C0	XCFMMEMC	0	12
SCNDR72	0	C4	XCFMMEMF	0	11
SCNDR73	0	C8	XCFMMEMN	0	0
SCNDR74	0	CC	XCFMMEMR	0	10
SCNDR75	0	D0	XCFMRSCS	0	C
SCNDR76	0	D4	XCFMRSJ2	0	4
SCNDR77	0	D8	XCFMRSNM	0	8
SCNDR78	0	DC	XCFMSIZE	0	1000
SCNDR79	0	E0	XCFMTHM	0	0
SCNDR80	0	E4	XCFMUS	0	4
SCNDR81	0	E8	XEQPHDWT	0	78
SCNDR82	0	EC	XEQPHFWT	0	3C
SCNDR83	0	F0	XEQPHIWT	0	1E
SCNDR84	0	F4	XRQPOOL	0	11
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			



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## \$HASXB Programming Interface information

Programming Interface information

### \$HASXB

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

- HXBDSB
- HXBSAPID
- HXBWRKSP

End of Programming Interface information

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## \$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
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 Jobld 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	HXBTR	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	HXBJSJOB	Permanent SJJOB 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

## \$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	
HXBSJOB	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

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## \$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
- CCTSCIDS
- CCTSJWEL
- CCTSLKST
- CCTSLKUS
- CCTSPOOL
- CCTTIMER
- CCTTRPCE
- CCTXESEV
- CCTXSTIM
- CCT1SAP
- CCT1SAPC

End of Programming Interface information

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## \$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
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# \$HCCT Map

## Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
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

Comment

## HEX translate table

End of Comment

306	(132)	X'44'	0	CCTXTRAN	**-'C'0" 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.
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



Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
472	(1D8)	ADDRESS	4	CCTRLMT	SPIN IOT REUSE FAILURE LIMIT
476	(1DC)	ADDRESS	4	CCTEXTBL	ADDRESS OF REASON TEXTABLE
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. SIMILAR FIELDS ALSO EXIST IN THE \$HCT AND THE \$\$JXB. DO NOT USE THE RESERVED FIELDS FOR ANYTHING OTHER THAN ESTIMATED COUNT TYPE OF INFORMATION AND VERIFY THAT THE \$HCT AND \$\$JXB 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

## \$HCCT Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
584	(248)	SIGNED	4		PUNCH default estimate
588	(24C)	BITSTRING	12	(0)	Keep next 12 bytes together
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 ELAPSED 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 (\$RJOB OPT)
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)	BITSTRING	12		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 <--

# \$HCCT Map

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 CCTSUUSE.					
-----					
End of Comment					
956	(3BC)	BITSTRING	10	CCTJES2_LEVEL (0)	
956	(3BC)	CHARACTER	8	CCTLEVEL	<-+ Level information   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	CCTDRSC	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

## \$HCCT Map

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	1	CCTJXCFD	JESXCF diagnostic area
Comment					
<p>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.</p>					
End of Comment					
Comment					
<p>Start of often updated HCCT fields            USER COMMON STORAGE FIELDS.</p>					
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'FFFFFFF" 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)
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

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
1350	(546)	.... .1..	1	CCT1PJSA	"B'00000100" \$PJES2,ABEND issued
		.... ..1.		CCT1PJAC	"B'00000010" \$PJES2,ABEND seen
		.... ...1		CCT1E58D	"B'00000001" ENF 58 debug option (internal)
		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
1351	(547)	.... ...1	1	CCT2PSO	"B'00000001" PSO scan needed
1352	(548)	1... ....	1	CCTDEBUG	Debug options (\$DEBGOPS)
1353	(549)	.... ...1	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 queue
		.... 1..		CCT3NEOM	"B'00001000" An SJB has been newly placed on the EOM queue
		.... .1..		CCT3PJ2T	"B'00000100" \$P JES2,TERM has begun
		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
1354	(54A)	..1. ....	2	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.
		.... ...1		CCT4CRBR	Reserved
		.... ...1		CCT4CRBR	Reserved
		.... ...1		CCT4CRBR	Reserved
		.... ...1		CCT4CRBR	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
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

# \$HCCT Map

## Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
<p>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.</p>					
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	1	CCTXSYSF CCTNXSYS	CROSS-SYSTEM REQUESTS ACCEPTED FLAG "X'01" NO NEW CROSS-SYSTEM REQUESTS ARE TO BE ACCEPTED
1404	(57C)	SIGNED	4	CCTXSYSN	COUNT OF CROSS-SYSTEM REQ'S
Comment					
<p>\$\$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.</p>					
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 1... ....	5	CCTJOB CCTJOBPF	\$EXECPCPE - XEQ services "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					
<p>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.</p>					
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

## \$HCCT Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
<p>-----</p> <p>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.</p> <p>-----</p>					
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	CCTBEGN	Number of times \$\$SIBEGN removed stale HASBs - update using CS logic
1596	(63C)	ADDRESS	4	CCTCSHED	Head of STAC FIFO queue
1600	(640)	ADDRESS	4	CCTCSTAI	Tail of STAC FIFO queue
1604	(644)	ADDRESS	4	CCTPSO	Head of PSO LIFO queue
1608	(648)	ADDRESS	4	CCTPSOQ	Addr of MTQH for PSO
1612	(64C)	ADDRESS	4	CCTSPIOT	CHAIN OF IOTS AWAITING SPIN
1616	(650)	ADDRESS	4	CCTFIFOQ	FIFO REORDERED SPIN/HOLD REQUESTS
1620	(654)	SIGNED	4	CCTSPINC	COUNT OF SPIN IOTS SPUN
1624	(658)	DBL WORD	8	(0)	Ensure CCT1SAP aligned <---
1624	(658)	ADDRESS	4	CCT1SAP	Address of first SAPID in   the SAPID data space
1628	(65C)	SIGNED	4	CCT1SAPC	Counter used in CDS <---
1632	(660)	SIGNED	4	CCTSJWEL	Last unique JWEL key assigned to a SAPID
1636	(664)	ADDRESS	4	CCTSAPIQ	Address of MTQH for SAPI requests
1640	(668)	ADDRESS	4	CCTTINA	Address of TINA (WTO D S)
1644	(66C)	SIGNED	4	CCTTINAA	ALET for TINA (WTO D S)
1648	(670)	ADDRESS	4	CCTSFERR	SPOOL PROCESSOR I/O ERROR QUEUE
1652	(674)	ADDRESS	4	CCTNOUSQ	Notify User Request Queue
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					
1656	(678)	DBL WORD	8	CCTSFREQ (0)	Scheduler Facility Request Q
1656	(678)	ADDRESS	4		Request queue header
1660	(67C)	SIGNED	4	CCTSSRCT	Count of SFRBs on Request Q
1664	(680)	ADDRESS	4	CCTSFPNQ	Scheduler Facility Pending Q
1668	(684)	SIGNED	4	CCTSSNCT	Count of SFRBs on Pending Q
1672	(688)	ADDRESS	4	CCTSFPRQ	Scheduler Facility Process Q
1676	(68C)	SIGNED	4	CCTSSPCT	Count of SFRBs on Process Q
1680	(690)	SIGNED	4	CCTSSMAX	Maximum no.of SFRBs
1684	(694)	BITSTRING	1	CCTSSSTAT	Status flag for Sched.Serv
		1... ....		CCTSSDWN	"B'10000000" Scheduler PCE disabled
		.1... ....		CCTSSDIS	"B'01000000" Scheduler PCE disabling
1685	(695)	ADDRESS	3		Reserved for future IBM use
1688	(698)	ADDRESS	4	CCTFSSCB	ADDR OF FIRST FSSCB IN CHAIN

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
SPOOL DATA MANAGEMENT					
End of Comment					
1692	(69C)	ADDRESS	4	CCTSRCH	TGB ENTRY TO BEGIN TG SEARCH FROM FOR \$STRAK AND \$TRACK
1696	(6A0)	ADDRESS	4	CCTPDDDB1	OFFSET WITHIN IOT OF 1ST PDDDB
1700	(6A4)	ADDRESS	4	CCTTGAEI	TGAE AREA LENGTH FOR A NON-SPIN PRIMARY ALLOCATION IOT
1704	(6A8)	SIGNED	2	CCTNBUFX	Copy of \$NUMBUFX from HCT (can update via command)
1706	(6AA)	SIGNED	2		Reserved
1712	(6B0)	DBL WORD	8	(0)	Doubleword alignment to force optimum MVC performance
1712	(6B0)	BITSTRING	32	CCTMTSPL	SPOOLS WHICH HAVE SPACE
1744	(6D0)	BITSTRING	32	CCTSPLAF	Spools with affinity for this member
1776	(6F0)	BITSTRING	32	CCTVBLOB	Spools with space in the BLOB
1808	(710)	BITSTRING	12	CCTTGBA (0)	TGB VALUES FOR BLOB
1808	(710)	ADDRESS	4	CCTTGBF	FIRST TGB ENTRY ADDRESS
1812	(714)	ADDRESS	4	CCTTGBS	TGB ENTRY SIZE
1816	(718)	ADDRESS	4	CCTTGBl	Last TGB entry
1820	(71C)		4	CCTBYTS	Bytes of spool ( FP value)
1824	(720)	BITSTRING	1	CCTNQCNT	SPOOL ENQ COUNTER
1825	(721)	BITSTRING	1	CCTFNCNT	Number of volumes to fence a job to
1826	(722)	BITSTRING	2		Reserved for future use
1828	(724)	SIGNED	4	CCTTGDEF	Number of defined TGs (\$TGDEFND)
1832	(728)	DBL WORD	8	(0)	FORCE DOUBLEWORD ALIGNMENT
1832	(728)	ADDRESS	4	CCTTGASC	TGB REQUEST ASCB
1836	(72C)	ADDRESS	4	CCTTGECB	TGB REQUEST ECB
1840	(730)	ADDRESS	4	CCTELCMB	Addr of first CMB for reset ckpt lock command. Use CS logic to update.
1844	(734)	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  $\neq$  CCTCKTAC and TOKEN  $\neq$  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  $\neq$  QSESITIM then the write never happened.

End of Comment					
1848	(738)	SIGNED	4	CCTCKTAC	Active CKPT I/O token
1852	(73C)	SIGNED	4	CCTCKTNX	Next CKPT I/O token
1856	(740)	BITSTRING	8	CCTSITIM	TOD of last CKPT write

## \$HCCT Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
Queue heads for ENF LISTEN Event processor.					
End of Comment					
1864	(748)	DBL WORD	8	CCTENFQ (0)	EVT queue
1864	(748)	ADDRESS	4	CCTENFQH	EVT head
1868	(74C)	ADDRESS	4	CCTENFQT	EVT tail
Comment					
Queue heads for JQE Request processor					
End of Comment					
1872	(750)	DBL WORD	8	CCTJQRBQ (0)	JQE Request block queue
1872	(750)	ADDRESS	4	CCTJQRBH	JQRB head
1876	(754)	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					
1880	(758)	SIGNED	4	CCTXESEV	Structure avail ENF count
1884	(75C)	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					
1888	(760)	SIGNED	4	CCTHCRC1	Number of 4K records needed by CKPT1
1892	(764)	SIGNED	4	CCTHCRC2	Number of 4K records needed by CKPT2
1896	(768)	SIGNED	4	CCTHCBRT	Number of BERTs needed
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					
1904	(770)	DBL WORD	8	(0)	
1904	(770)	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 prevent massive reassemblies of modules if the length of \$HCCT is changed in an APAR. -----					
End of Comment					
2416	(970)	SIGNED	2	CCTSCAT (0)	SYSOUT CLASS ATTRIBUTE TABLE
2416	(970)	BITSTRING	1	(0)	SYSOUT CLASSES A-Z, 0-9
2416	(970)	X'CO'	0	CCTSTLEN	"*-CCTSCAT" LENGTH OF SCAT TABLE
2608	(A30)	ADDRESS	2	(0)	Force asmbly error if SCAT not last

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
2608	(A30)	DBL WORD	8	(0)	Ensure alignment
2608	(A30)	X'A30'	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

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
104	(68)	BITSTRING	20		Reserved
128	(80)	DBL WORD	8	(0)	Ensure alignment
128	(80)	X'80'	0	STBLEN	**-CCTSTUB" Length of stub area

## \$HCCT Cross Reference

### \$HCCT Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
CCT#INDX	1E8		CCTEXTBL	1DC	
CCTABEND	510	FFFFFF	CCTFFS	78	
CCTALLFF	78	78	CCTFIFOQ	650	
CCTAMVEC	164		CCTFIXL	5E4	38
CCTASCB	5E4	5DC	CCTFLAG0	1C7	0
CCTASDS	1FC		CCTFLAG1	545	0
CCTASYNC	590	0	CCTFLAG2	546	0
CCTAUXCB	17C		CCTFLAG3	548	
CCTAXL	378		CCTFLAG4	549	
CCTAXN	378		CCTFMAX	E0	E0
CCTAXV	37A		CCTFNCNT	721	0
CCTBADA	E8		CCTFSSCB	698	
CCTBATMD	2B4		CCTF1	B8	1
CCTBDJNC	131		CCTF12	CC	C
CCTBEGN	638	0	CCTF16	D0	10
CCTBFSIZ	214		CCTF2	BC	2
CCTBLANK	5E4	8	CCTF255	D4	FF
CCTBLNKS	18	40404040	CCTF4	C0	4
CCTBMAPS	184		CCTF4096	D8	1000
CCTBYTS	71C	0	CCTF6	C4	6
CCTCADDR	148		CCTF8	C8	8
CCTCALLC	5D0	0	CCTGGDKB	3E4	
CCTCBRT	188		CCTGGDKL	3E0	
CCTCDCTQ	208		CCTGGDKN	3DC	
CCTCFREE	5D4	0	CCTGGFKB	3E8	
CCTCGECB	5E8	0	CCTGGRSV	3DE	
CCTCKCON	54C		CCTGPNM	39C	
CCTCKPTP	5AC	0	CCTGRADR	3B0	
CCTCKPT1	2E8	40404040	CCTGRECX	3B4	
CCTCKPT2	330	40404040	CCTGRPEX	3B8	
CCTCKTAC	738		CCTHASP	510	
CCTCKTNX	73C		CCTHAVT	178	
CCTCMDMX	55C		CCTHCBRT	768	
CCTCMQTP	56C		CCTHCRC1	760	
CCTCOLDT	3FC		CCTHCRC2	764	
CCTCOMCH	1C5	40	CCTHCT	154	
CCTCOMCT	558		CCTHECBA	5E4	5D8
CCTCOMM	588	0	CCTHECBK	5E4	5E4
CCTCOMMQ	554		CCTHIBIT	E4	
CCTCPIDX	150		CCTHIGHV	516	
CCTCSACH	5CC		CCTHMAX	E0	E0
CCTCSHED	63C		CCTHOTST	510	80
CCTCSTAI	640		CCTHTCBA	158	
CCTCTABS	14C		CCTH1	B8	BA
CCTCUCT	4F8		CCTH12	CC	CE
CCTDAS1	18C		CCTH16	D0	D2
CCTDCB	354	354	CCTH2	BC	BE
CCTDEBFX	388		CCTH255	D4	D6
CCTDEBUG	547		CCTH4	C0	C2
CCTDFCB	75C		CCTH4096	D8	DA
CCTDOM86	550		CCTH6	C4	C6
CCTDSB	210		CCTH8	C8	CA
CCTDSTFL	1C6	0	CCTIINFO	198	
CCTECF	580	0	CCTILVL	7	
CCTELCMB	730		CCTIMETB	258	
CCTENFP	5B8	0	CCTINTRE	540	
CCTENFQ	748		CCTINXTB	1E0	
CCTENFQH	748		CCTIOERR	670	
CCTENFQT	74C		CCTIPDDB	1F8	
CCTENFST	204		CCTIRSMD	2B0	
CCTEST1	21C		CCTIXVT	398	
CCTETDEF	190		CCTJACCT	1F0	
CCTEVTA	200		CCTJDVT	390	

## \$HCCT Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
CCTJES2_LEVEL			CCTNQCNT	720	0
	3BC		CCTNSPB	216	217
CCTJLMAX	62C	0	CCTNSPL	216	0
CCTJOB	58C	0	CCTNXSYS	57B	1
CCTJOBPF	58C	80	CCTOFFM	5A8	0
CCTJOPTS	281	0	CCTOFSTB	8	
CCTJPCLS	600		CCTOTINT	228	
CCTJPNUM	608		CCTPATCH	770	0
CCTJPWLM	604		CCTPCEFL	5C4	0
CCTJQELN	1AE	0	CCTPCENO	5C0	F
CCTJQRBH	750		CCTPCEPE	588	
CCTJQRBQ	750		CCTPCT	29C	
CCTJQRBT	754		CCTPDDDB1	6A0	
CCTJQRP	5BC	0	CCTPGINT	21C	
CCTJRENQ	618		CCTPIT	1B0	
CCTJSPL	129	128	CCTPITNM	1B4	0
CCTJSPLL	128		CCTPJCLQ	734	
CCTJSPLV	129	D1C5E2E2	CCTPJES2	510	1
CCTJSTKN	15C	0	CCTPLVL	3C4	
CCTJTEOM	61C		CCTPOSTE	5D8	
CCTJTERM	614		CCTPOSTW	5E4	4
CCTJVJOB	2DC		CCTPSO	644	
CCTJVSTC	2D4		CCTPSOQ	648	
CCTJVTSU	2D8		CCTPUINT	240	
CCTJXCFD	464		CCTPVRSN	10	
CCTJXCLS	60C		CCTQINDX	1E4	
CCTJXNUM	610		CCTQNAM	3EC	
CCTJ2DSP	528	0	CCTRBGN	1D4	
CCTJ2WAT	518	0	CCTRCOMC	1C4	40
CCTKAC	170		CCTRCPCQ	5B0	0
CCTKEYTB	38C		CCTRCPCQ	53C	
CCTLEN	A30	A30	CCTDRSC	404	C9D5E3D9
CCTLEVEL	3BC		CCTRDT	2A4	
CCTLINCT	282		CCTRDTA	2A8	
CCTLMT1	C		CCTREQJI	2C0	
CCTLNINT	234		CCTRLMT	1D8	
CCTLOWV	517		CCTROPTS	280	0
CCTMASCB	1A4		CCTROUT	29A	0
CCTMASVR	516		CCTRRT	2A0	
CCTMEMUP	538		CCTSAPIQ	664	
CCTMGTD	424		CCTSAPLK	414	E2C1D7C9
CCTMGTP	41C		CCTSCAT	970	
CCTMGTU	41C		CCTSCATP	1B8	
CCTMISC	5C0	0	CCTSCIDS	174	
CCTMLLM	5A4	0	CCTSDADR	3A4	
CCTMONCB	1A0		CCTSDECX	3A8	
CCTMSMPC	624		CCTSDPEX	3AC	
CCTMSMPS	628		CCTSEGLM	2E0	
CCTMTSPL	6B0	0	CCTSFPNQ	680	
CCTMVER	544		CCTSFPNQ	688	
CCTMVSNM	1CC	40404040	CCTSFPNQ	678	
CCTNACCT	1F4		CCTSID	1C8	40404040
CCTNBUFEX	6A8	0	CCTSINFO	19C	
CCTNDE	28F		CCTSITIM	740	
CCTNDENL	28F	0	CCTSJBB	600	
CCTNDENM	290		CCTSJBE	61C	
CCTNEG1	78	78	CCTSJWEL	660	0
CCTNITA	2AC		CCTSLGDS	514	2
CCTNITBL	1A8		CCTSLKST	630	0
CCTNITSZ	1AC	0	CCTSLKUS	634	0
CCTNMCUR	560		CCTSLVL	3C5	
CCTNMFAL	568		CCTSMVFN	514	10
CCTNMMAX	564		CCTSNV	3F0	
CCTNONOD	298	0	CCTSPINC	654	0
CCTNOUSQ	674		CCTSPIOT	64C	

## \$HCCT Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
CCTSPLAF	6D0	0	CCTXMAQ	1EC	
CCTSPLCL	2E4		CCTXMRML	452	14
CCTSPLNM	21A	0	CCTXMSRL	43E	14
CCTSPOOL	5A0	0	CCTXNODE	45C	
CCTSARCH	69C		CCTXSTIM	594	0
CCTSSCT	16C		CCTXSYS	578	
CCTSSDIS	694	40	CCTXSYSF	57B	0
CCTSSDWN	694	80	CCTXSYSN	57C	0
CCTSSMAX	690		CCTXTRAN	132	44
CCTSSNCT	684		CCTZERO	38	38
CCTSSNM	3F0	5C5C5C5C	CCTZEROS	38	0
CCTSSNML	3F8	0	CCT0EASS	1C7	80
CCTSSPCE	5B4	0	CCT0FFF	DC	FFFFFF
CCTSSPCT	68C		CCT000F	D4	D4
CCTSSRCT	67C		CCT1CKWI	545	8
CCTSSSTAT	694	0	CCT1E58D	545	1
CCTSSVS	3F4	5C5C5C5C	CCT1PJAC	545	2
CCTSSVT	144		CCT1PJSA	545	4
CCTSTCMD	2B8		CCT1PJ2T	545	80
CCTSTFRM	284	E2E3C440	CCT1PRDF	545	40
CCTSTIRV	514	8	CCT1SAP	658	
CCTSTLEN	970	C0	CCT1SAPC	65C	0
CCTSTPJF	514	4	CCT1SSYP	545	10
CCTSTRPL	514	1	CCT1SSYS	545	20
CCTSTUB	0		CCT2BATR	546	40
CCTSTUBA	454		CCT2CRCF	546	10
CCTSTUS	514	0	CCT2IRDR	546	80
CCTSTUSP	514	80	CCT2OPRQ	546	8
CCTSTUSR	514	20	CCT2PITC	546	20
CCTSTUST	514	40	CCT2PSO	546	1
CCTSVJLK	40C	E2E5D140	CCT2SAPI	546	4
CCTSYSLX	194	0	CCT2USJB	546	2
CCTTED	1BC		CCT3CONI	548	80
CCTTGAEI	6A4		CCT3CONT	548	40
CCTTGASC	728		CCT3INDM	548	20
CCTTGABA	710		CCT3NEOM	548	8
CCTTGABF	710		CCT3NHSB	548	10
CCTTGABL	718		CCT3PJ2T	548	4
CCTTGABS	714		CCT4BERT	549	10
CCTTGDEF	724	0	CCT4CRBR	549	1
CCTTGECB	72C		CCT4JOBQ	549	2
CCTTIMER	598	0	CCT4LGDS	549	8
CCTTIMOP	250		CCT4MBR	549	4
CCTTINA	668		CCT4REC1	549	40
CCTTINAA	66C	0	CCT4REC2	549	20
CCTTKCEL	219		CCT411OK	549	80
CCTTMINT	24C		CCT7FFF	E0	7FFFFFFF
CCTTO	28C		HCCT	0	
CCTTOKA	1C0		STBDYLLN	38	18
CCTTONOD	28C	0	STBECSLN	68	18
CCTTOQUL	28E		STBECXLN	50	18
CCTTRPCE	59C	0	STBID	0	C3C3E3E2
CCTTSOMD	2BC		STBLEN	80	80
CCTUCADD	4FC		STBMSDLN	20	18
CCTUSER1	500				
CCTUSER2	504				
CCTUSER3	508				
CCTUSER4	50C				
CCTVBLOB	6F0	0			
CCTVRNUM	0	D			
CCTVRSN	0				
CCTXASCB	180				
CCTXCBF	458				
CCTXESEV	758				
CCTXITA	2C4				



## \$HCT Programming Interface information

Programming Interface information

### \$HCT

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

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

End of Programming Interface information

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## \$HCT Heading Information

<b>Common Name:</b>	HASP Communication Table
<b>Macro ID:</b>	\$HCT
<b>DSECT Name:</b>	HCT
<b>Owning Component:</b>	JES2 (SC1BH)
<b>Eye-Catcher ID:</b>	MIT entry for HASPNUC ('MIT HASPNUC ') Offset: HASPCT-HCT Length: 12
<b>Storage Attributes:</b>	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.
<b>Size:</b>	See HCTLEN
<b>Created by:</b>	The HCT is assembled into the front of the HASPNUC module and is loaded when the HASJES20 load module is loaded.
<b>Pointed to by:</b>	<ul style="list-style-type: none"><li>- 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.</li><li>- The label HASPCT in HASPNUC, defined as an external symbol for code in the HASJES20 load module, is the address of the HCT.</li><li>- 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.</li><li>- The CCTHCT field of the HCCT common storage control block points to the HCT.</li><li>- The DTEHCT field in each JES2 subtask's DTE control block points to the HCT.</li><li>- The CIRHCT field in the initialization PCE work area, the CIRWORK, points to the HCT.</li></ul>
<b>Serialization:</b>	<ul style="list-style-type: none"><li>- Serialization depends on the field in question.</li><li>- Fields might be serialized via Compare-and-swap.</li><li>- Fields might be serialized implicitly, by being changeable only by the JES2 main task.</li><li>- Fields might be serialized by the LOCAL/CMS locks.</li><li>- Fields might be implicitly serialized by being changeable only by a specific JES2 main task processor.</li><li>- Fields might be implicitly serialized by being changeable only when the JES2 main task owns the checkpoint queues (\$QSUSE).</li><li>- Fields may be usable only for a short-term period (ie., serialization is lost as soon as the processor does a \$WAIT).</li></ul>
<b>Function:</b>	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	\$HASPMPAP	"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	\$NWEBCB	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	\$RWLNRSR	"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	(4)	Reserved for future use
200	(C8)	SIGNED	4	\$STUBCNT	\$DTEDYN stub counter
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

# \$HCT Map

## Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
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(PRPUSRV)" 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		Reserved
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	\$DTEPOL	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)

Comment

SPECIAL DTE POINTERS

End of Comment

336	(150)	ADDRESS	4	\$IMAGE	IMAGE LIBRARY LOADER DTE ADDR
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Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
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	\$CATPTR	Addr of private CATs (not valid when CATs in CKPT)
400	(190)	ADDRESS	4	\$CHLOG	ADDRESS OF THE CHANGE LOG
404	(194)	ADDRESS	4	\$CKG1	ADDRESS OF CKPT1 CKGPAP
408	(198)	ADDRESS	4	\$CKG2	ADDRESS OF CKPT2 CKGPAP
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 CNTRL 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
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
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	\$ERRTAB	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

# \$HCT Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
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	\$NITCPTTR	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)	ADDRESS	4	\$PAD	Addr of PROCLIB alloc DSECT
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 PRFDATA 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

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

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
768	(300)	ADDRESS	4	\$\$FWA	ADDR OF SWBTU FUNCTIONS WORK AREA (\$\$FW)
772	(304)	ADDRESS	4	\$\$CQADDR	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	\$\$SOCKETBL	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

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

# \$HCT Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
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	7		Reserved for future use
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)
		.... 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



Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
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	\$RJOB OPT	JOB CARD SCAN OPTION FLAG
		1... ....		\$ACTIGN	"B'10000000" Job account information is ignored
		.1.. ....		\$ACTREQ	"B'01000000" Job account information is required
		..1. ....		\$JCLERR	"B'00100000" Terminate job if JCL scan error
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

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

# \$HCT Map

Offsets		Len	Name (Dim)	Description
Dec	Hex	Type/Value		
		.... .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	\$QVRNJQJ	"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 = JQJNAME
		...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
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

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
		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..1		\$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		Reserved for future use
1006	(3EE)	ADDRESS	1	\$SPVLRSN	Reason code for forced spool validation
1006	(3EE)	X'1'	0	\$SPV1QER	"1" Forced on, queue error
1006	(3EE)	X'2'	0	\$SPV1VAL	"2" Forced on, prior error
1006	(3EE)	X'3'	0	\$SPV1OPT	"3" Forced on, init option
1006	(3EE)	X'4'	0	\$SPV1SPL	"4" Forced off, missing spools
1006	(3EE)	X'5'	0	\$SPV1BRT	"5" Forced off, BERT shortage

Comment

\$DEBUG Option Definitions

End of Comment

1007	(3EF)	BITSTRING	1	\$DEBGOPS (0)	DEBUG option flag \$DEBGOPS bit definitions
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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"
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# \$HCT Map

## Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
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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	\$ESTCNT	"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, thresholds, free counts, wait counts, etc.

End of Comment

1068	(42C)	SIGNED	2	\$NUMBSC	HASP BSC BUFFER LIMIT
1070	(42E)	SIGNED	2	\$BSCRPT	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	\$BSCNWBFB	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	\$BUFNWBFB	Number of non-wait requests for HASP buffers
1094	(446)	SIGNED	2	\$BUFLGRQ	Largest unfulfilled request for HASP buffers
1096	(448)	SIGNED	2	\$NUMBUF	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	\$LBFREC	Free XBUF buffer count
1104	(450)	SIGNED	2	\$BFXWBF	Number of CB buffers being \$WAITed for
1106	(452)	SIGNED	2	\$BFXNWBFB	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	\$VTMNWBFB	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
1126	(466)	SIGNED	2	\$NHBPRCT	NHB BUF threshold percent
1128	(468)	SIGNED	2	\$NHLIM	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	\$NHBNWBFB	Number of non-wait requests for NHB buffers
1136	(470)	SIGNED	2	\$NHBGRQ	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

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
<p>-----</p> <p>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.</p> <p>-----</p>					
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					
<p>-----</p> <p>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.</p> <p>-----</p>					
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					
<p>-----</p> <p>\$MG607F1 and \$MG607F2 must be kept together</p> <p>-----</p>					
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
		.... .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

# \$HCT Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
		.... 1...		\$M607ACM	"B'00001000" Alternate command processor processing commands
		.... .1..		\$M607SPM	"B'00000100" Active SPOOL migration
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	\$TGFSIZE	NO. OF BUFFERS PER TRACK GROUP
1200	(4B0)	SIGNED	4	\$TGFREEB (0)	TGs free (set at end of KLOB 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)
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

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

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

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

# \$HCT Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
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		\$DPCECMD	"B'00000001" Trace modified
1428	(594)	X'C0'	0	\$DPCEMIX	"\$DPCETON+\$DPCETOF" Trace mixed
1428	(594)	X'81'	0	\$DPCEMIX	"\$DPCETON+\$DPCECMD" Trace set on
1428	(594)	X'41'	0	\$DPCEMIX	"\$DPCETOF+\$DPCECMD" Trace 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

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



Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
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	\$DTELSTF	"\$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)
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

## \$HCT Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
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... ....		\$PRONWS	"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	\$MCONFIG1	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.. ....		\$EXECSFN	"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
		1... ....		\$CKPTDWN	DEFAULT: MODE=DUPLEX,DUPLEX=ON
		.1.. ....		\$CKPTMSG	"B'10000000" XEQ,CKPT SHUTDOWN COMPLETE
		..1. ....		\$CKPTTMD	"B'00100000" Do not issue HASP479 msg
		...1 ....		\$CKPTDPS	"B'00010000" TELLS SCAN WE'RE IN DPLX MD
		.... 1...		\$CKPTDPY	"B'00001000" INDICATES SET TO DUPLEX ON
		.... .1..		\$CKPTTEK	"B'00000100" INDICATES IN DUPLEX MODE
		.... ..1.		\$CKPTPRI	"B'00000010" \$T'D NEWCKPTN FIELD
		.... ...1		\$CKPTLDP	"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

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
		..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..		\$CK4HRVS	"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 occurred 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
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

# \$HCT Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
1616	(650)	X'638'	0	\$STARTTM	"\$MSAVE,16" STCKE time at label HASP
1616	(650)	X'6C8'	0	\$STARTTCP	"\$SPMSKWA,8" CPU time at label HASP
1648	(670)	SIGNED	4	\$GETWKS (10)	Save area for \$GET/\$RETWORK
1648	(670)	X'674'	0	\$GETWKS F	"\$GETWKS+4,4" \$GETWKS R15 SLOT
1648	(670)	X'67C'	0	\$GETWKS1	"\$GETWKS+12,4" \$GETWKS R1 SLOT
1648	(670)	X'680'	0	\$GETWKS2	"\$GETWKS+16,4" \$GETWKS R2 SLOT
1648	(670)	X'670'	0	\$CKPTSAV	"\$GETWKS,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
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		Reserved for future use
1736	(6C8)	SIGNED	4	(0)	Ensure fullword alignment
1736	(6C8)	BITSTRING	32	\$SPMSKWA	SPOOL MASK WORK AREA
1768	(6E8)	CHARACTER	32	\$BLANKS	8 CHARACTERS OF BLANKS
1800	(708)	DBL WORD	8	(0)	Ensure doubleword alignment
1800	(708)	BITSTRING	64	\$ZEROS	16 words of zeros
1800	(708)	X'708'	0	\$ZEROS	"\$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	\$OFFF	"\$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
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

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
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
1980	(7BC)	SIGNED	4	(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 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

## \$HCT Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
		...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
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
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'\$CKLEVN" 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

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
		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
2497	(9C1)	.... ...1		\$WLMRGOK	"B'00000001" Force registration of all queues successful
		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	\$\$JFDVNT	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
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	\$ERRLOPT	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.

# \$HCT Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
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 MVS IPL 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	\$ROUDDCT	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
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 CONNECTS 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



Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
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	\$NJADCT (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

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

2769	(AD1)	X'8'	0	\$PCEHCTE	"8" PROCESSOR HCT ENTRY LENGTH
2769	(AD1)	X'0'	0	\$PCEHCTP	"0,4" PCE POINTER
2769	(AD1)	X'4'	0	\$PCEHCTC	"4,4" PROCESSOR COUNTS, WITH FOLLOWING SUBMAPPING OF FIELDS
2769	(AD1)	X'0'	0	\$PCEHCTD	"0,2" DEFINED PROCESSOR COUNT
2769	(AD1)	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	

## \$HCT Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
2780	(ADC)	ADDRESS	4	\$EXECPC	EXECUTION PROCESSOR
2784	(AE0)	SIGNED	2	\$NUMEXEC	
2788	(AE4)	ADDRESS	4	\$ASYNPC	ASYN I/O PROCESSOR
2792	(AE8)	SIGNED	2	\$NUMASYN	
2796	(AEC)	ADDRESS	4	\$XTIMPC	TIME EXCESSION PROCESSOR
2800	(AF0)	SIGNED	2	\$NUMXTIM	
2804	(AF4)	ADDRESS	4	\$TIMEPC	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	\$SPOLPC	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	\$CKPTPC	CHECKPOINT PROCESSOR
2848	(B20)	SIGNED	2	\$NUMCKPT	
2852	(B24)	ADDRESS	4	\$MCONPC	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	\$JQRPC	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	\$RDRPC	LOCAL READERS
2896	(B50)	SIGNED	2	\$NUMRDRS	
2900	(B54)	ADDRESS	4	\$IRPC	Internal reader cleanup
2904	(B58)	SIGNED	2	\$NUMIRC	
2908	(B5C)	ADDRESS	4	\$TPRDPCE	RJE READERS
2912	(B60)	SIGNED	2	\$NUMTPRD	
2916	(B64)	ADDRESS	4	\$JCLPC	CONVERSION PROCESSOR
2920	(B68)	SIGNED	2	\$NUMCNVT	
2924	(B6C)	ADDRESS	4	\$PSOPCE	PSO PROCESSORS
2928	(B70)	SIGNED	2	\$NUMPSO	
2932	(B74)	ADDRESS	4	\$OUTPC	OUTPUT PROCESSOR
2936	(B78)	SIGNED	2	\$NUMOUT	
2940	(B7C)	ADDRESS	4	\$PRTPCE	LOCAL PRINTERS
2944	(B80)	SIGNED	2	\$NUMPRTS	
2948	(B84)	ADDRESS	4	\$TPPRPC	RJE PRINTERS
2952	(B88)	SIGNED	2	\$NUMTPPR	
2956	(B8C)	ADDRESS	4	\$PUNPC	LOCAL PUNCHES
2960	(B90)	SIGNED	2	\$NUMPUNS	
2964	(B94)	ADDRESS	4	\$TPPUPCE	RJE PUNCHES
2968	(B98)	SIGNED	2	\$NUMTPPU	
2972	(B9C)	ADDRESS	4	\$PURGPC	PURGE PROCESSORS
2976	(BA0)	SIGNED	2	\$NUMPURG	
2980	(BA4)	ADDRESS	4	\$TIPSPCE	TIPS PROCESSOR
2984	(BA8)	SIGNED	2	\$NUMTIPS	
2988	(BAC)	ADDRESS	4	\$PRTPPC	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	\$WARMPC	WARM START PROCESSORS
3008	(BC0)	SIGNED	2	\$NUMWARM	

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
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	\$NJR PCE	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	\$XCM PCE	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
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
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## \$HCT Map

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

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

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
3320	(CF8)	ADDRESS	1	\$MSTRVER	Master record 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	\$CKREC_N_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
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	\$MAXESZ	Maximum size of extension

## \$HCT Map

### Offsets

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

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 \$SPLLGD 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	\$SPLXST	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					
<p>\$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</p> <p>\$TGTOTAL = Number of track groups on STATUS=ACTIVE spool volumes.</p> <p>\$TGDEFND = Number of track groups associated with any spool volume.</p> <p>\$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</p> <p>\$NUMTG = Initialization Statement number of track groups in the system (size of TGM).</p>					
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)	DBL WORD	8	\$BLOBCLS (0)	Bunch Of Loose Bits for job class holds

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

# \$HCT Map

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
		.... ..1.		\$BRDCST	"B'00000010" SHARED BROADCAST BEING USED
		.... ...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 controlled by the following 4 bits. \$SPLADRA and \$SPLADRS control whether relative or absolute track addressing is used. \$SPLLGDS and \$SPLMTT 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...

.... .1..

\$SPLADRA

\$SPLADRS

"B'00001000" Always use relative addr.

"B'00000100" Use relative addr as needed



Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
<p>-----</p> <p>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.</p> <p>-----</p>					
End of Comment					
		.... ..1.		\$SNIFAST	"B'0000010" In "GCRATE=FAST" mode
		.... ..1		\$SNFNSYM	"B'0000001" Suppress SYMREC generation during sniffer
Comment					
<p>-----</p> <p>\$CKPCTPW is incremented after a checkpoint write (intermediate write or final write). It's used to determine when a primary write is needed.</p> <p>-----</p>					
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)	ADDRESS	3		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	\$AMWMMAM	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	\$SPLEN	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
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

# \$HCT Map

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

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
		.... 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.
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	6		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

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

## \$HCT Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
\$#INDEXA	234		\$BUFLENG	9D8	0
\$ABDNBUF	47E	0	\$BUFLGRQ	446	0
\$ACCMBAD	A38		\$BUFLIM	43E	0
\$ACTABLE	160		\$BUFNWBFB	444	0
\$ACTIGN	3E5	80	\$BUFPRCT	43C	50
\$ACTIVE	9DC		\$BUFSIZE	F0E	F98
\$ACTREQ	3E5	40	\$BUFWBF	442	0
\$ACTRNUM	E8		\$BUFXLIM	44C	0
\$ACTVFSS	9E0		\$BUSYQUE	17C	
\$ADDSYNS	3E4	80	\$BUSYRQ	180	
\$AFFINTY	9C5	0	\$CALCUR	188	
\$AFFLEN	9BC		\$CALONE	184	
\$AFFLENH	9BC	9BE	\$CATMAX	9C0	4
\$ALIPCE	C7C		\$CATPTR	18C	
\$ALLFFS	750	FFFFFFFF	\$CCOMCH	51D	5B
\$AMWMNAM	F00	40404040	\$CCOMCHR	4E9	5B
\$APPLTBL	164		\$CDCPCE	C94	
\$AQSE	168		\$CF1VOL	EBD	40
\$ARMPCE	C5C		\$CF2VOL	EBD	20
\$ARMVR	62C	8	\$CHLOG	190	
\$ASYNQC	16C		\$CHLOGLN	CFC	
\$ASYNPCE	AE4		\$CHLOGSZ	9FC	0
\$ASYPCIQ	170		\$CKBCRNT	19C	
\$AUTOINV	3D4		\$CKC	1A0	
\$AUTONJE	9C1	10	\$CKCSIZE	4D0	0
\$AUTORST	9C1	8	\$CKG1	194	
\$A24852	F3E	40	\$CKG2	198	
\$BADJNC	F12	6F	\$CKLEVNM	398	39C
\$BADTRTG	324		\$CKOLDLV	3A0	
\$BERTESH	F3E	8	\$CKOPVER	EBD	10
\$BERTHRS	637	0	\$CKPCTPW	EBE	0
\$BERTMIN	F3E	10	\$CKPTDPS	630	10
\$BERTNNM	9C1	2	\$CKPTDPY	630	8
\$BERTNUM	F24	0	\$CKPTDWN	630	80
\$BERTPTR	174		\$CKPTFG1	630	39
\$BERT16	F3E	20	\$CKPTFG2	631	0
\$BERT255	F3E	80	\$CKPTFG3	632	0
\$BFSZBSC	50E	208	\$CKPTFG4	633	0
\$BFSZPZ	512	0	\$CKPTFG5	636	0
\$BFSZSNA	510	190	\$CKPTFLG	D03	0
\$BFXLGRQ	454	0	\$CKPTIO	1A4	
\$BFXNWBFB	452	0	\$CKPTLDP	630	1
\$BFXPRCT	44A	50	\$CKPTLEV	398	0
\$BFXWBF	450	0	\$CKPTLOC	635	0
\$BITSONA	178		\$CKPTLVP	398	398
\$BLANKS	6E8	40404040	\$CKPTMSG	630	40
\$BLOBCLS	EA8		\$CKPTOAC	988	
\$BRDCST	EBC	2	\$CKPTONX	98C	
\$BRCLN	9C1	80	\$CKPTPCE	B1C	
\$BRDTYP	A2D	0	\$CKPTPRI	630	2
\$BRTFREC	A50		\$CKPTPTR	1A8	
\$BRTPRCT	E9D		\$CKPTQHD	1B0	
\$BSCCHEQ	328		\$CKPTSAB	670	670
\$BSCFREC	432	0	\$CKPTSRO	670	680
\$BSCLGRQ	438	0	\$CKPTSRI	670	684
\$BSCLIM	430	0	\$CKPTTEK	630	4
\$BSCNWBFB	436	0	\$CKPTTMD	630	20
\$BSCPRACT	42E	50	\$CKPTUPD	CF9	0
\$BSCWBF	434	0	\$CKPUSER	D04	0
\$BSPGCT	518		\$CKRECN_Z2	D00	0
\$BSPNTE	519		\$CKRECS	E80	0
\$BSPSIZ	51A	1C	\$CKW	1B4	
\$BTSYSID	E9C	0	\$CK1DFLT	630	39

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
\$CK2DIAG	631	8	\$DASTRKQ	E88	0
\$CK2FMT	631	10	\$DASWRKQ	E84	0
\$CK2INIT	631	1	\$DATAKEY	E8C	0
\$CK2LOCK	631	80	\$DAWNPCE	C8C	
\$CK2LOKD	631	4	\$DBGALL	3EF	FF
\$CK2PRIM	631	2	\$DCTPOL2	A58	
\$CK2READ	631	40	\$DCTPOOL	A54	
\$CK2WRT	631	20	\$DDSEGLM	3C8	
\$CK3ACTV	632	1	\$DEBGOPS	3EF	80
\$CK3BYLK	632	40	\$DELAYTM	3A8	
\$CK3CHLG	632	20	\$DESTDLG	F20	4
\$CK3KRD1	632	80	\$DESTFLG	F20	0
\$CK3NMEM	632	2	\$DESTNNN	F20	80
\$CK3RDCP	632	4	\$DESTNNR	F20	2
\$CK3WTCP	632	8	\$DESTRMN	F20	20
\$CK34KPG	632	10	\$DESTRMT	F20	10
\$CK4CFAB	633	1	\$DESTRNN	F20	40
\$CK4CKPC	633	2	\$DESTUNN	F20	8
\$CK4ECOP	633	80	\$DIAGTBL	104	
\$CK4ECSA	633	40	\$DILHEAD	E0	
\$CK4HRSV	633	4	\$DILPCE	C74	
\$CK4OPRQ	633	8	\$DILTAL	E4	
\$CK4OPVN	633	10	\$DISPACE	4A2	A
\$CK4OPVY	633	20	\$DISPCNT	4A0	0
\$CK5ACT	636	40	\$DISPSAV	850	
\$CK5QSUS	636	80	\$DMNDSET	3E3	4
\$CLASDUP	F50		\$DOMIDN	4E0	2
\$CLCB	1AC		\$DOMID1	4DC	
\$CLOCK	7C0	0	\$DOMQUE	1F4	
\$CLRECN	EC4	0	\$DOMQUEA	1F8	
\$CMBFRECE	48E	0	\$DOUBLE	698	0
\$CMBLIM	488	0	\$DPCEACT	590	
\$CMBPRCT	486		\$DPCEALC	58A	
\$CMDPRCT	482		\$DPCEDEF	588	
\$CNVTWEE	EBC	4	\$DPCEEND	58C	
\$COLDDTM	EE8	0	\$DPCEFLG	594	
\$COLDJSN	EC6	D1C5E2F2	\$DPCELEN	594	D
\$COLDJSP	ED3	40C3D6D3	\$DPCETMD	594	1
\$COLDSID	EDE		\$DPCETMX	594	C0
\$COLDVSN	ECB	40404040	\$DPCETOF	594	40
\$COMEXTN	1B8		\$DPCETON	594	80
\$COMMABT	62E	20	\$DPCETSF	594	41
\$COMMDWN	62E	80	\$DPCETSO	594	81
\$COMMFG1	62E	0	\$DRQUES	CE4	
\$COMMPCPE	AD4		\$DSPXITA	7C	
\$COMMQTP	1C0		\$DSTRSTK	158	
\$COMMQUE	1BC		\$DTEALOC	11C	
\$COMMWAT	62E	40	\$DTEASST	128	
\$CPTMAP	1D0		\$DTECKCF	144	
\$CPTPOOL	1D4		\$DTECKVR	140	
\$CREATE	3E3	1	\$DTECNVT	138	
\$CTBADA	538		\$DTEEOM	14C	
\$CTLB	1D8		\$DTEGSUB	148	
\$CTLBFFS	7AC	FFFFFFFF	\$DTEIMAG	118	
\$CTLBIO	1DC		\$DTELAST	114	
\$CTLBLEN	9BC	4	\$DTELIST	5DE	5A0
\$CTLBLNH	9C2	4	\$DTELIST2	5B5	5A0
\$CTLBX	1E0		\$DTELSTF	5A0	
\$CURPCE	CB4		\$DTELST2	5A0	
\$CYLMAPL	9B4		\$DTEMIG	124	
\$DADEBAD	1E4		\$DTEOFF	13C	
\$DASAREA	1E8		\$DTEORG	110	
\$DASEXSZ	F3F	0	\$DTESMF	12C	
\$DASEXT	1F0		\$DTESPOL	120	
\$DASFRST	1EC		\$DTEVTM	130	

## \$HCT Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
\$DTEWTO	134		\$F8	784	8
\$DUPZ8	F13	4	\$GENSYS	5A0	0
\$DWORK	6A0	0	\$GENWORK	5A0	
\$DWORK2	6A8	0	\$GENWRKL	62C	8C
\$ECBEXTN	78	1800000	\$GETWKSF	670	674
\$ECKTRMJ	62C	1	\$GETWKSF	670	0
\$EMEMAFF	1FC	0	\$GETWKS1	670	67C
\$ENFPCE	B34		\$GETWKS2	670	680
\$EOMPCE	C84		\$GETWRKA	218	
\$ERDM497	4DC		\$GTWKTAB	214	
\$ERDOMID	A34		\$HASCB	21C	
\$ERRAFF	A04		\$HASPDCB	220	
\$ERRCODE	A14	0	\$HASPECB	74	
\$ERREOPT	A1C		\$HASPECF	CC0	0
\$ERRERPL	A00		\$HASPID	E90	D1C5E2F2
\$ERRJQE	A18		\$HASPMPA	64	
\$ERRREGS	A08		\$HASPPRM	2C8	C8C1E2D7
\$ERRREG0	A08	A0C	\$HASPRB	224	
\$ERRTAB	200		\$HASPTCB	228	
\$ERRTRCA	9F4		\$HASPO51	A44	0
\$ESTBYTE	3FC		\$HCCT	31C	
\$ESTIME	420		\$HCTLEN	F64	1000
\$ESTIM9L	420	4	\$HCTPSZ	F64	9C
\$ESTLNCT	408		\$HETOKEN	9F8	0
\$ESTLN9L	408	6	\$HEXTRAN	798	6AC
\$ESTMX9L	3FC	6	\$HFAM	22C	
\$ESTPAGE	3F0		\$HIBITOF	75C	75C
\$ESTPG9L	3F0	8	\$HIBITON	798	80000000
\$ESTPN9L	414	8	\$HIGHVER	EB0	55
\$ESTPUN	414		\$HTDIST	51E	A
\$ESTTCNT	3F0	5	\$H0	764	766
\$EST1	3F0		\$H1	768	76A
\$EXCPCT	A20	0	\$H2	76C	76E
\$EXCPEXA	8C		\$H255	78C	78E
\$EXECDUP	EBC	8	\$H3	770	76F
\$EXECDWN	62F	80	\$H4	774	776
\$EXECFG1	62F	0	\$H4096	790	792
\$EXECPCE	ADC		\$H5	778	77A
\$EXECSPN	62F	40	\$H6	77C	77E
\$EXTECBQ	CDC		\$H7	780	782
\$EZAADDR	204		\$H8	784	786
\$FASNIFF	E04		\$ICEFREC	47A	0
\$FASNIFL	F46	0	\$ICEFRZC	47C	0
\$FCLPCE	C3C		\$ICELIM	478	0
\$FIXCHLG	208		\$ICELOST	230	
\$FIXLIST	20C		\$ICEPRCT	476	50
\$FLAG1	EBC	0	\$IMAGE	150	
\$FLAG2	EBD	18	\$INIWARM	238	
\$FLAG3	F13	0	\$INTRDCB	62C	4
\$FLAG4	F3E	0	\$IOTPDD	9B0	
\$FNCCNT	E9F	0	\$IPCSLVL	61	
\$FREEJOE	EC		\$IRCPCE	B54	
\$FSSETIM	A24		\$JCLERR	3E5	20
\$F0	764	0	\$JCLPCE	B64	
\$F1	768	1	\$JCMPDCE	C44	
\$F15	788	F	\$JCOPYLM	51C	
\$F2	76C	2	\$JESACCT	23C	
\$F255	78C	FF	\$JESSECL	24C	40404040
\$F3	770	3	\$JESTOKA	240	
\$F4	774	4	\$JESUSER	244	40404040
\$F4096	790	1000	\$JES2_LEVEL	354	
\$F5	778	5	\$JINITIP	9C0	40
\$F6	77C	6	\$JIXMPCN	F21	0
\$F65535	794	FFFF	\$JNEW	254	
\$F7	780	7	\$JNOPRCT	DF3	

## \$HCT Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
\$JNSYSID	DF2	0	\$MASACTV	EBC	20
\$JNTPTR	258		\$MASECF	CC8	0
\$JNTSIZE	F22		\$MASPOST	9D6	0
\$JOBQBUF	25C		\$MASTER	28C	
\$JOBQPTR	260		\$MASTERI	290	
\$JOEPRCT	DF0		\$MASTERL	CF4	0
\$JOEWRKA	6C0		\$MASVER	EB0	
\$JOSYSID	DEF	0	\$MAXCMCT	A23	
\$JOTABLE	264		\$MAXDBLE	75C	7FFFFFFF
\$JOTPOST	268		\$MAXDEL	3CC	78
\$JOXPTR	274		\$MAXDORM	3C4	1F4
\$JOXSIZE	F5C	0	\$MAXESZ	DEA	4E20
\$JQCLSSZ	D20	90	\$MAXFAIL	4C4	0
\$JQEEXFR	DE8	0	\$MAXFULL	75C	75C
\$JQEEXT	26C		\$MAXHALF	75C	75C
\$JQEFRCN	F34	0	\$MAXHOP	3D2	0
\$JQELEN	DE4	0	\$MAXINT	3BC	
\$JQEMSKL	DE6	3	\$MAXMSGQ	3CE	C8
\$JQENUM	F38		\$MAXPART	522	3
\$JQEPRCT	DED		\$MAXREST	9CC	
\$JQFREEI	D1C		\$MAXSESS	474	0
\$JQHEADI	D20		\$MAXVUSE	4C0	0
\$JQHEADL	D20	4	\$MCONACT	62D	80
\$JQRBDTY	DDC	30	\$MCONFG1	62D	0
\$JQRBLDI	DDC		\$MCONMSG	294	
\$JQRPCE	B3C		\$MCONNPM	62D	20
\$JQSYSID	DEC	0	\$MCONPCE	B24	
\$JQTYPES	D20	2F	\$MCONWAT	62D	40
\$JQXPTR	270		\$MCONWPM	62D	10
\$JQXSIZE	F58	0	\$MCT	F4	
\$JSPL	7B2	7B1	\$MG607FL	492	
\$JSPLL	7B1		\$MG607F1	492	0
\$JSPLV	7B2	D1C5E2E2	\$MG607F2	493	0
\$JWEHAVT	27C		\$MG607TM	494	0
\$JWELTBL	278		\$MIGRIOQ	1C8	
\$KITNUM	3AC		\$MIGRQCD	1C8	
\$KITNUM2	DE2	0	\$MIGRQSQ	1CC	
\$KITPTR	280		\$MINDORM	3C0	64
\$LASNIFF	DFC		\$MINHOLD	3B4	5F5E0FF
\$LASNIFL	F40	0	\$MINUS1	750	750
\$LASTAMW	EFC	0	\$MINUS2	754	FFFFFFFE
\$LASTCLD	EF0	0	\$MISCPCE	B44	
\$LASTSPV	EF4	0	\$MLBFSIZ	50C	190
\$LBFREC	440	0	\$MLLMECF	CD0	0
\$LBFREC	44E	0	\$MLLMPCF	B0C	
\$LCKPTR	284		\$MLNEDCT	A74	
\$LCLADCT	AB8		\$MODREFR	9C1	4
\$LEVEL	354	A961D6E2	\$MSAVE	638	
\$LINECT	3E6		\$MSKNODE	9EC	80402010
\$LIRCT	52C	1	\$MSTHCTL	CFA	274
\$LMTPBOT	70		\$MSTRID	CF0	D4E2E3D9
\$LMT1	68		\$MSTRVER	CF8	
\$LMT1C	6C		\$MSTRVRN	CF8	6
\$LNEDCT	A70		\$MSTRVR4	CF8	7
\$LOCKOUT	3B0	3E8	\$MSTRV12	CF8	8
\$LOGNDCT	A78		\$MSTRZ11	CF8	9
\$LOWVER	EB1	55	\$MSTRZ2	CF8	8
\$LSEPDBL	4CE	10	\$MVFENCE	EBC	10
\$LSEPFUL	4CE	20	\$MVSDISP	7D8	
\$LSEPHAF	4CE	40	\$MVSWAIT	7C8	
\$LSEPNON	4CE	80	\$MWORK	298	
\$LSPTR	288		\$M581DVN	588	
\$MACVERS	60	F6	\$M581ERR	594	
\$MAILMSG	3E7	80	\$M581FGF	598	80
\$MAINSTK	154		\$M581FLG	598	

## \$HCT Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
\$M581FL1	598	40	\$NUMARM	C60	10000
\$M581FL2	598	20	\$NUMASYN	AE8	10000
\$M581FNT	598	10	\$NUMAUTO	3D6	0
\$M581INF	596		\$NUMBSC	42C	0
\$M581RC	590		\$NUMBUF	43A	FFFF
\$M607AAS	493	40	\$NUMBUFX	448	FFFF
\$M607ACM	493	8	\$NUMCDC	C98	10000
\$M607ACT	492	20	\$NUMCKPT	B20	10000
\$M607CRS	492	4	\$NUMCMBS	484	64
\$M607DIL	493	10	\$NUMCMDS	480	0
\$M607ESP	493	80	\$NUMCNVT	B68	A0000
\$M607HLD	492	10	\$NUMCOMM	AD8	
\$M607IO	492	80	\$NUMCPTS	38A	0
\$M607LCK	492	8	\$NUMDAWN	C90	10000
\$M607NET	493	20	\$NUMDIL	C78	70000
\$M607PCE	492	1	\$NUMENF	B38	10000
\$M607SPM	493	4	\$NUMEOM	C88	30000
\$M607SPN	492	2	\$NUMEVTL	B00	10000
\$M607WTO	492	40	\$NUMEXEC	AE0	10000
\$NDDOMID	A3C		\$NUMFAIL	4C8	0
\$NDENAME	E94	40404040	\$NUMFCL	C40	10000
\$NETACCT	29C		\$NUMIRC	B58	20000
\$NETDCTS	A88		\$NUMJCMD	C48	10000
\$NETLDCT	A84		\$NUMJOES	F14	
\$NETLNES	AC4	0	\$NUMJQR	B40	A0000
\$NEWSCLV	D14	0	\$NUMLDEV	ACE	
\$NEWSIOT	D10	0	\$NUMLNES	AC0	0
\$NEWSJQE	D0C	0	\$NUMLOGS	AC6	0
\$NEWSLVL	D16	0	\$NUMMCON	B28	10000
\$NHBFREC	46A	0	\$NUMMISC	B48	10000
\$NHBLGRQ	470	0	\$NUMMLLM	B10	10000
\$NHBLIM	468	0	\$NUMMLNE	AC2	0
\$NHBNWBF	46E	0	\$NUMNHB	464	FFFF
\$NHBRPCT	466	50	\$NUMNJR	ACF	
\$NHBWBF	46C	0	\$NUMNJRS	BD8	0
\$NIPFCB	4FC	5C5C5C5C	\$NUMNJT	ACE	
\$NIPFLSH	504	5C5C5C5C	\$NUMNJTS	BC8	0
\$NIPUCS	500	C7C6F1F0	\$NUMNODE	F04	1
\$NITABLE	2A0		\$NUMNPM	C08	10000
\$NITCPTR	2A4		\$NUMNRM	C10	10000
\$NITCSEQ	2A8	0	\$NUMNRR	C18	0
\$NITECNT	A4E	0	\$NUMNRT	C20	0
\$NITESIZ	9D4	0	\$NUMNSR	AD1	
\$NJEADCT	AA8		\$NUMNSRS	BF8	0
\$NJEOPTS	3E7		\$NUMNST	AD0	
\$NJRPE	BD4		\$NUMNSTS	BE8	0
\$NJTPCE	BC4		\$NUMOFFS	ACA	0
\$NMSGFRE	49C	0	\$NUMOJRS	BE0	0
\$NMSGNUM	498	0	\$NUMOJTS	BD0	0
\$NMSGPRC	490		\$NUMOSRS	C00	0
\$NODEID	F18	1	\$NUMOSTS	BF0	0
\$NODETOL	9D2	0	\$NUMOUT	B78	A0000
\$NODREST	9D0	64	\$NUMPATH	3D0	1
\$NONSHR	EBC	40	\$NUMPRTS	B80	0
\$NOPRCCW	4CC		\$NUMPRTY	BB0	10000
\$NOPUCCW	4CD		\$NUMPRYO	BB8	10000
\$NPMPCE	C04		\$NUMPSO	B70	20000
\$NRMPCE	C0C		\$NUMPUNS	B90	0
\$NRRPCE	C14		\$NUMPURG	BA0	A0000
\$NRTPCE	C1C		\$NUMRDRS	B50	0
\$NSRPCE	BF4		\$NUMRESM	C28	10000
\$NSTPCE	BE4		\$NUMSFS	B30	10000
\$NUCFIXD	2AC		\$NUMSMFB	4A4	5
\$NUMACE	520	14	\$NUMSNF	C68	20000
\$NUMALI	C80	10000	\$NUMSOM	B18	10000



Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
\$NUMSPI	C70	A0000	\$PCEORG	CAC	
\$NUMSPIN	C38	30000	\$PCEPOST	9D7	0
\$NUMSPOL	B08	10000	\$PCEPSTC	CB8	
\$NUMSRVS	AC8	0	\$PDYNDET	9C1	20
\$NUMSTAC	C30	20000	\$PERFCB	2B8	
\$NUMTG	F1C		\$PITABLE	2C0	
\$NUMTIMR	AF8	10000	\$PITNUM	A4C	0
\$NUMTIPS	BA8	10000	\$PLVL	35C	
\$NUMTPPR	B88	0	\$PLXDYNI	350	0
\$NUMTPPU	B98	0	\$POSTELS	AD4	
\$NUMTPRD	B60	0	\$POSTEXA	84	
\$NUMVTAM	456	0	\$POSTLST	C98	C94
\$NUMWARM	BC0	10000	\$POSTSAV	650	0
\$NUMXCF	C50	10000	\$PPBSIZE	388	
\$NUMXCM	C58	10000	\$PRFDATA	2BC	
\$NUMXTIM	AF0	10000	\$PRFXFLG	4EB	20
\$NWECB	90		\$PRIHIGH	EB4	
\$OFFADCT	AB0		\$PRILOW	EB5	
\$OFFDCT	A94		\$PRIOOPT	3E2	2
\$OJRDCT	A98		\$PRIOUT	38C	
\$OJRPCE	BDC		\$PRIRATE	EB2	0
\$OJTDCT	AA0		\$PRMDEND	5B0	80
\$OJTPCE	BCC		\$PRMDFLG	5B0	
\$OLDDCTS	A90		\$PRMDINX	5A8	
\$OPSPJNO	EC0	0	\$PRMDSAV	5A0	
\$OPTCOLD	3E0	40	\$PRMDTBL	2C4	
\$OPTCONS	3E0	2	\$PRMDWKL	5B0	11
\$OPTFMT	3E0	80	\$PRMMEMB	2D0	40404040
\$OPTLIST	3E0	10	\$PROCFT	62C	3
\$OPTLOG	3E0	8	\$PROCESS	62C	3
\$OPTQWIK	3E0	1	\$PRODISP	62C	10
\$OPTREQ	3E0	20	\$PRONWS	62C	80
\$OPTSTAT	3E0	38	\$PRORATE	EB6	0
\$OPTSTA1	3E1	0	\$PRPUSRV	F0	
\$OPTSTA2	3DF	0	\$PRSCNWB	62C	20
\$OPTSTD	3E0	38	\$PRTBOPT	3E3	80
\$OPT1STD	3E1	0	\$PRTCALL	4E8	80
\$OP1CKPT	3E1	40	\$PRTDCT	A64	
\$OP1PJS2	3E1	20	\$PRTFCB	4F4	F6404040
\$OP1SFCE	3E1	8	\$PRTOPTS	3E3	
\$OP1SPEC	3E1	80	\$PRTOPT2	4E8	80
\$OP1SVAL	3E1	10	\$PRTPCE	B7C	
\$OP1SVLH	3E1	2	\$PRTRANS	3E3	8
\$OP1UNAC	3E1	4	\$PRTUCS	4F8	F0404040
\$OP2COMP	3DF	80	\$PRTYJOB	3E2	1
\$OP2FULF	3DF	40	\$PRTYOHI	EB8	FF0
\$ORIGMHD	3B8	0	\$PRTYOLO	EBA	0
\$OSRDCT	A9C		\$PRTYOUT	3E2	4
\$OSRPCE	BFC		\$PRTYPCE	BAC	
\$OSTDCT	AA4		\$PRUNSP	EBC	1
\$OSTPCE	BEC		\$PRYOPCE	BB4	
\$OUTPCE	B74		\$PSLIST	2D8	
\$OWNNIT	99C		\$PSOPCE	B6C	
\$OWNNODE	9A8	1	\$PSOTOK	DC	
\$PAD	2B0		\$PSWAMOD	832	
\$PADDR	2B4		\$PSWAMODE	831	
\$PATCHSP	F64	0	\$PSWSAVE	830	
\$PBELST	A48		\$PUNBOPT	3E3	40
\$PCEASYN	9D7	80	\$PUNDCT	A68	
\$PCEHCTA	AD1	2	\$PUNPCE	B8C	
\$PCEHCTC	AD1	4	\$PURGPCE	B9C	
\$PCEHCTD	AD1	0	\$QINDEXA	2DC	
\$PCEHCTE	AD1	8	\$QSELEN	D18	C8
\$PCEHCTP	AD1	0	\$QSEMAX	E7C	20
\$PCELAST	CB0		\$QSENDEF	E7E	1

## \$HCT Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
\$QSE1	2E0		\$QVRNOW7	3EC	98
\$QVERDAT	3E8	0	\$QVRNOW8	3EC	99
\$QVERRSN	3EC		\$QVRNRQE	3EC	4
\$QVRNART	3EC	C	\$QVRNTCE	3EC	AC
\$QVRNBDC	3EC	6	\$QVRNTPE	3EC	A9
\$QVRNBDF	3EC	7	\$QVRNTP2	3EC	AA
\$QVRNBDI	3EC	8	\$QVRNTP3	3EC	AB
\$QVRNBDQ	3EC	5	\$QVRNTQE	3EC	A2
\$QVRNBER	3EC	51	\$QVRNTRE	3EC	A3
\$QVRNCER	3EC	61	\$QVRNTR2	3EC	A4
\$QVRNCQ1	3EC	9A	\$QVRNTUE	3EC	A5
\$QVRNCQ2	3EC	9B	\$QVRNTU2	3EC	A6
\$QVRNCQ3	3EC	9C	\$QVRNTU3	3EC	A7
\$QVRNCQ4	3EC	9D	\$QVRNTU4	3EC	A8
\$QVRNCQ5	3EC	9E	\$QVRNWQE	3EC	10
\$QVRNCQ6	3EC	9F	\$QVRNWQN	3EC	11
\$QVRNCQ7	3EC	A0	\$QVRNWQP	3EC	13
\$QVRNCQ8	3EC	A1	\$QVRNWQX	3EC	14
\$QVRNDJA	3EC	1D	\$QVRNWWQ	3EC	17
\$QVRNDJB	3EC	1E	\$QVRNXTF	3EC	F
\$QVRNDJC	3EC	1F	\$QVRNXTH	3EC	D
\$QVRNDJE	3EC	1C	\$QVRNXTO	3EC	E
\$QVRNDJF	3EC	20	\$RASSIGN	62C	2
\$QVRNDJN	3EC	18	\$RATABLE	2E4	
\$QVRNDJQ	3EC	1A	\$RBDM497	4E0	
\$QVRNDJX	3EC	19	\$RBFADDR	A28	
\$QVRNDJZ	3EC	1B	\$RCDFRST	2E8	
\$QVRNENF	3EC	43	\$RCDSIZE	F5A	0
\$QVRNETH	3EC	41	\$RCOMCHR	4EA	5B
\$QVRNETO	3EC	42	\$RCY3HET	F13	10
\$QVRNFRC	3EC	3	\$RCY3HOM	F13	8
\$QVRNFRE	3EC	2	\$RDRAREA	525	E9
\$QVRNJAR	3EC	AD	\$RDRDCT	A5C	
\$QVRNJBC	3EC	21	\$RDRPCE	B4C	
\$QVRNJOE	3EC	AE	\$READY	CE8	
\$QVRNJQC	3EC	12	\$READYF	CE8	
\$QVRNJQL	3EC	16	\$READYL	CEC	
\$QVRNJQO	3EC	15	\$REBLDS	DE0	0
\$QVRNJTE	3EC	1	\$RECINCR	F1A	
\$QVRNJXE	3EC	A	\$RECVCNT	9FE	0
\$QVRNJXM	3EC	B	\$REGSAVC	7E8	
\$QVRNMJN	3EC	9	\$REGSAVE	7E8	7F0
\$QVRNOCC	3EC	8D	\$RESMPCE	C24	
\$QVRNOCE	3EC	89	\$RETRYCT	530	2
\$QVRNOCO	3EC	8A	\$RJEOPTS	3E4	
\$QVRNOCQ	3EC	8B	\$RJBOPT	3E5	
\$QVRNOC1	3EC	8C	\$RMTDCTS	A8C	
\$QVRNOC2	3EC	8E	\$RMTNUM	508	0
\$QVRNOJE	3EC	82	\$RMTSON	2F0	
\$QVRNORE	3EC	84	\$ROTDISP	580	
\$QVRNORQ	3EC	83	\$ROTJOE	57C	
\$QVRNOR2	3EC	85	\$ROTJQE	578	
\$QVRNOR3	3EC	86	\$ROUTDCT	A6C	
\$QVRNOR4	3EC	87	\$RPLCOMQ	2EC	
\$QVRNOR5	3EC	88	\$RPRBOPT	3E3	20
\$QVRNOTE	3EC	81	\$RPUBOPT	3E3	10
\$QVRNOWC	3EC	91	\$RSCTABL	DEC	
\$QVRNOWE	3EC	8F	\$RSEPDBL	4CE	1
\$QVRNOWQ	3EC	90	\$RSEPFUL	4CE	2
\$QVRNOW1	3EC	92	\$RSEPHAF	4CE	4
\$QVRNOW2	3EC	93	\$RSEPNON	4CE	8
\$QVRNOW3	3EC	94	\$RSOCLDP	E00	0
\$QVRNOW4	3EC	95	\$RSRVCKG	4D4	
\$QVRNOW5	3EC	96	\$RSV3	C9C	0
\$QVRNOW6	3EC	97	\$RTIMTAB	2F4	

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
\$RUNOPTS	3E2	2	\$SPLEXST	E0C	0
\$RWL	94		\$SPLINAC	E4C	0
\$RWLNJRS	A4		\$SPLIOER	15C	A
\$RWLNJTS	A8		\$SPLEN	F0B	
\$RWLNSRS	AC		\$SPLLGDS	F13	80
\$RWLNSTS	B0		\$SPLLGUS	F13	20
\$RWLPRTS	9C		\$SPLMTT	F13	40
\$RWLPUNS	A0		\$SPLNUMB	F0C	F0D
\$RWLRDRS	98		\$SPLSLCT	E2C	0
\$SAPTOK	D4		\$SPMSKWA	6C8	0
\$SAVAREA	2F8		\$SPOFERR	524	
\$SAVEARS	2FC		\$SPOLMSG	517	
\$SAVEBEG	CF0		\$SPOLNUM	F0C	20
\$SAVEBOF	62		\$SPOLPCE	B04	
\$SAVEEND	F64		\$SPOOL	F06	E2D7D6D6
\$SAVELEN	F64	274	\$SPOOLCB	4D8	
\$SCANMDL	534	64	\$SPOOLQ	310	
\$SCANPDL	532	40	\$SPVLRSN	3EE	
\$SCANWKA	5A0		\$SPVMNAM	EF8	40404040
\$SCANXWA	588	40404040	\$SPV1BRT	3EE	5
\$SCLPEND	4E4		\$SPV1OPT	3EE	3
\$SCNDL16	5A0	5A0	\$SPV1QER	3EE	1
\$SCNDL24	5A0		\$SPV1SPL	3EE	4
\$SCNDWKA	5A0	5A0	\$SPV1VAL	3EE	2
\$SCNDWKB	5A0	5A8	\$SRVDCT	A7C	
\$SCNDWKC	5A0	5B0	\$SSNM	9A0	5C5C5C5C
\$SCNLLIM	5B8		\$SSVS	9A4	5C5C5C5C
\$SCOPSP	4EB	10	\$STABNDA	B4	
\$SCOPSYS	4EB	20	\$STACPCE	C2C	
\$SCQADDR	304		\$STACTOK	D8	
\$SCQJQE	E08	0	\$STARTCP	650	6C8
\$SCT	308		\$STARTTM	650	638
\$SDCMBAD	A40		\$STATUS	9AF	
\$SDWNFST	9C0	80	\$STATUS1	9C0	40
\$SEPPAGE	4CE		\$STATUS2	9C1	18
\$SFSPCE	B2C		\$STDFORM	4EC	E2E3C440
\$SFWA	300		\$STERSTK	15C	
\$SID	998	40404040	\$STIMASK	516	
\$SIDBUSY	9AA		\$STIMBUF	516	80
\$SIDINDX	9AC	0	\$STIMDCT	516	20
\$SIDTIME	990	0	\$STIMSBT	516	10
\$SINGLE	698	698	\$STIMTIM	516	40
\$SJFJDVT	9E4	0	\$STKEWRK	6B0	0
\$SLVL	35D		\$STOPXEQ	9C0	8
\$SMFBUSY	30C		\$STQEACTION	320	
\$SMFFREC	4AA	0	\$STRTDSI	9C1	1
\$SMFPRCT	4A6		\$STUBCNT	C8	0
\$SNFNFSYM	EBD	1	\$STUBPTR	CC	
\$SNFPCE	C64		\$STWORK	318	
\$SNFZ7FS	0	1	\$ST1PJTM	9C0	20
\$SNIFAST	EBD	2	\$SUBTASK	9AE	
\$SNV	9A0		\$SXADDR	100	
\$SOCKETBL	314		\$SYMBM	10C	
\$SOMPCE	B14		\$SYNCTOL	390	
\$SONWORK	9DA	0	\$SYSID	9A8	
\$SPFTIME	DF8	0	\$TBLNUM	368	2
\$SPINACT	4BF		\$TCELSIZ	F1B	
\$SPINJQE	62C	40	\$TGAELEN	9B8	0
\$SPINPCE	C34		\$TGAENUM	9BA	32
\$SPIPCE	C6C		\$TGALLOC	E6C	
\$SPLADRA	EBD	8	\$TGBAD	368	
\$SPLADRS	EBD	4	\$TGDEFND	E74	
\$SPLBYTS	F28	0	\$TGFREE	E78	
\$SPLEASA	F3E	2	\$TGFREEB	4B0	7FFFFFFF
\$SPLEASS	F3E	4	\$TGMADDR	360	

## \$HCT Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
\$TGMAP	364		\$WSAPTR	33C	
\$TGMHEAD	360		\$WSBITOF	758	7F
\$TGPRCT	DF6		\$WSUSER	754	80
\$TGRADDR	36C		\$WTBSYJO	EBD	80
\$TGRHDR	36C	28	\$XCFFLG1	844	
\$TGFSIZE	4AE	1E	\$XCFFLG2	845	
\$TGYSID	DF5	0	\$XCFCGPNM	F2C	40404040
\$TGTOTAL	E70		\$XCFIXVT	848	
\$TIMEPCE	AF4		\$XCFPCE	C4C	
\$TIPSJBN	F4C	0	\$XCFCXEQP	9C8	0
\$TIPSPCE	BA4		\$XCF1ERR	844	20
\$TJEVTOK	D0		\$XCF1MUD	844	2
\$TOTCKRN	84C		\$XCF1NAR	844	80
\$TOTCKSZ	3A4		\$XCF1NRS	844	40
\$TPPRPCE	B84		\$XCF1SGO	844	4
\$TPPUPCE	B94		\$XCF1STP	844	8
\$TPRDPCE	B5C		\$XCF1STR	844	10
\$TQEQUE	32C		\$XCF2ERR	845	80
\$TRCDWN	634	1	\$XCMPCE	C54	
\$TRCFG1	634	0	\$XCPECBX	88	1800000
\$TRCPCE	AFC		\$XECBQ	CD8	
\$TRCSYSX	634	80	\$XECBQF	CD8	
\$TRGENER	330		\$XECBQL	CE0	
\$TRTIME	528		\$XEQDCT	A80	
\$TTBPRCT	4B4		\$XEQINT	9C1	40
\$UCT	FC		\$XFRACTV	340	
\$UNSPUN	EBC	80	\$XFRBEND	344	
\$UPADDR	370		\$XFRDEND	348	
\$USERSET	3E3	2	\$XFRECBX	80	1800000
\$USER1	378		\$XITADDR	34C	
\$USER2	37C		\$XMASADR	210	
\$USER3	380		\$XTIMPCE	AEC	
\$USER4	384	0	\$XWTRACT	A22	80
\$USER5	386	0	\$XWTRFLG	A22	
\$USXADDR	374		\$ZAPTIME	EA0	0
\$UVERS	58	40404040	\$ZERO	708	708
\$VERSACT	4BE	80	\$ZEROES	708	708
\$VERSFRE	4BA	0	\$ZEROFFF	748	FFFFFF
\$VERSINI	4BE	10	\$ZEROS	708	0
\$VERSION	50	E2D740F5	\$0FFF	748	748
\$VERSKPT	4BE	20	\$000F	74C	FF
\$VERSNUM	4B8	0	\$7FFF	75C	75C
\$VERSSTT	4BE	10	HCT	0	
\$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			

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**\$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**

<b>Name</b>	<b>Hex Offset</b>	<b>Hex Value</b>
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

## \$HFAM Cross Reference



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## **\$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**

<b>Name</b>	<b>Hex Offset</b>	<b>Hex Value</b>
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

## \$HFAME Cross Reference

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## **\$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 FSSHFC 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

# \$HFCT Map

## 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)	BITSTRING	16		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(FSM\$SAVE)" FSMSAVE \$SAVE ROUTINE ADDR
588	(24C)	ADDRESS	4	HFCTRET	"V(FSM\$RETRN)" FSMRETRN \$RETURN ROUTINE ADDR
592	(250)	ADDRESS	4		Reserved for future use
596	(254)	SIGNED	4	HFCTSVSV (18)	SAVE AREA FOR FSMSAVE
668	(29C)	SIGNED	4	HFCTSRBS (18)	SAVE AREA FOR SRBS (FSMRCRTN)
740	(2E4)	SIGNED	4	HFCTESAV (18)	SAVE AREA FOR \$ERRORS
812	(32C)	ADDRESS	4	HFCTETCB	TCB OWNING \$ERROR SAVE



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

## \$HFCT Cross Reference

Name	Hex Offset	Hex Value
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 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

Comment

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General work area (for MF=L areas messages, etc).

---

End of Comment

192	(C0)	BITSTRING	128	JMTGWORK	General work area
-----	------	-----------	-----	----------	-------------------

# \$HJCT Map

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

Comment

Active notice table and flags

End of Comment

468	(1D4)	ADDRESS	4	JMTNOTMT	Notify message table addr
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Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
-----					
Notice message table mapping					
-----					
End of Comment					
468	(1D4)	X'0'	0	JMTNMSK	"0,8" JMTNOTIC mask
468	(1D4)	X'8'	0	JMTNLEN	"8,2" Message length
468	(1D4)	X'A'	0	JMTNTXT	"10,71" Message text
Comment					
EQU 81,7 Reserved					
End of Comment					
468	(1D4)	X'50'	0	JMTNMSNX	"88-8" Length from JMTNLEN to end
468	(1D4)	X'58'	0	JMTNSIZ	"88" 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'00000000000010000" PCES waiting for SPOOL sp
		.... 1...		JMTN1FGC	"B'00000000000001000" Fast SPOOL garbage coll
		.... .1..		JMTN1NPM	"B'00000000000000100" NPM functions suspended
		.... ..1.		JMTN1NNC	"B'00000000000000010" Node info not in ckpt
		.... ...1		JMTN1LNC	"B'00000000000000001" Local node name changed
474	(1DA)	BITSTRING	2	JMTNOT02	Notice flag bytes 2
474	(1DA)	BITSTRING	0	JMTN2WDF	"B'1000000000000000" WLM policy difference
474	(1DA)	BITSTRING	0	JMTN2DUB	"B'0100000000000000" JES2 dubbed but not perm
474	(1DA)	BITSTRING	0	JMTN2CLO	"B'0010000000000000" Ckpt lockout detected
474	(1DA)	BITSTRING	0	JMTN2AHL	"B'0001000000000000" SPOOL automatically halted
474	(1DA)	BITSTRING	0	JMTN2LIM	"B'0000100000000000" Independent mode (local)
474	(1DA)	BITSTRING	0	JMTN2SIM	"B'0000010000000000" Independent mode (Other)
474	(1DA)	BITSTRING	0	JMTN2ANJ	"B'0000001000000000" NJEDEF CONNECT=NO
474	(1DA)	BITSTRING	0	JMTN2ANR	"B'0000000100000000" \$PNET/\$ENET issued
		1... ....		JMTN2DST	"B'0000000010000000" Non-default DESTDEF set
		.1.. ....		JMTN2BRT	"B'0000000001000000" BERT shortage inhibiting
476	(1DC)	BITSTRING	2	JMTNOT03	Notice flag bytes 3
478	(1DE)	BITSTRING	2	JMTNOT04	Notice flag bytes 4

## \$HJCT Cross Reference

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
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		JMTN2AHL	1DA	1000
JMTBADA	20		JMTN2ANJ	1DA	200
JMTCOMCH	B8		JMTN2ANR	1DA	100
JMTGWORK	C0	0	JMTN2BRT	1DA	40
JMTHCCT	14		JMTN2CLO	1DA	2000
JMTHCT	10		JMTN2DST	1DA	80
JMTID	0	C8D1C3E3	JMTN2DUB	1DA	4000
JMTJASCB	A4		JMTN2LIM	1DA	800
JMTJES2A	A0	0	JMTN2SIM	1DA	400
JMTJSINI	B9	80	JMTN2WDF	1DA	8000
JMTJSTAT	B9		JMTOFSTB	8	
JMTJSTRM	B9	40	JMTPATCH	1E8	0
JMTJ2WAT	AC		JMTPBRTL	1C4	
JMTLWTO	140		JMTPCKPH	1CC	
JMTLWTOL	1AC	70	JMTPJOB	1C8	
JMTMODMP	1C		JMTPLCMD	1D0	
JMTMONCB	18		JMTPMAIN	1C0	
JMTMSD	B4		JMTPROBC	1D0	5
JMTMWE	B0		JMTPROBL	1C0	
JMTMWT	BC		JMTSIZE	3E8	3E8
JMTNLEN	1D4	8	JMTSSNM	A8	D1C5E2F2
JMTNMSK	1D4	0	JMTVRNUM	4	1
JMTNMSNX	1D4	50	JMTVRSN	4	
JMTNOTIC	1D8		JMTXTRAN	1B0	C0
JMTNOTMT	1D4		JMTZEROS	60	0
JMTNOT01	1D8				
JMTNOT02	1DA				
JMTNOT03	1DC				
JMTNOT04	1DE				
JMTNSIZ	1D4	58			
JMTNTXT	1D4	A			
JMTN1ASP	1D8	400			
JMTN1BOS	1D8	800			
JMTN1CRF	1D8	1000			
JMTN1FGC	1D8	8			
JMTN1IPL	1D8	200			
JMTN1JIN	1D8	4000			
JMTN1JNA	1D8	8000			
JMTN1JPX	1D8	80			
JMTN1JST	1D8	100			
JMTN1JTR	1D8	2000			
JMTN1LNC	1D8	1			
JMTN1NNC	1D8	2			
JMTN1NPM	1D8	4			
JMTN1NSP	1D8	20			
JMTN1PEN	1D8	40			
JMTN1PSP	1D8	10			

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## \$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
- ICEOUTH
- ICEOUTLM
- ICEOUTTL
- ICERCPTN
- ICERCVST
- ICERSPCT
- ICERULEN
- ICESDCT
- ICESNDST
- ICESSTAT
- ICESUSFL
- ICETEA
- ICENTRY
- ICETIME
- ICXRFBK
- ICXTWRK

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... ....		ICEINBD	"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..		ICEBPND	"B'00001000" SESSION BB PENDING STATE
		.... .1..		ICEBPND	"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



Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
2	(2)	BITSTRING	1	ICERCVST	RECEIVE PATH INDICATORS
3	(3)	BITSTRING	1	ICESNDST	SEND PATH INDICATORS
4	(4)	ADDRESS	1	ICEINDEX	SERVICE ROUTINE INDEX POINTER
5	(5)	ADDRESS	1	ICERSPCT	CNT OF OUTSTANDING RESPONSES
6	(6)	ADDRESS	2	ICERULEN	MAXIMUM REQUEST UNIT LENGTH
8	(8)	CHARACTER	8	ICESYMB	VTAM SYMBOLIC NAME OF TERMINAL
8	(8)	X'10'	0	ICETRCLN	**-ICESTAT" Len. of ICE trace ID 5 info
16	(10)	BITSTRING	4	ICECID	VTAM COMMUNICATION IDENTIFIER
20	(14)	ADDRESS	4	ICEAPCHN	ADDR OF NEXT LOGGED ON ICE
24	(18)	ADDRESS	4	ICEALCHN	ADDR OF NEXT ALLOCATED ICE
28	(1C)	BITSTRING	1	ICESUSFL	ICE SUSPEND FLAG
		1... ....		ICESIMPL	"B'10000000" IMPLIED SUSPEND WITHOUT FM HEADER
		.1.. ....		ICESUSPD	"B'01000000" SUSPEND IN PROGRESS. \$WAIT NEEDED
29	(1D)	BITSTRING	1	ICEFRZRC	ICE FREEZE REASON CODE
29	(1D)	X'1'	0	ICEFRZAB	"1" ACTIVE BUFFER FOUND
29	(1D)	X'2'	0	ICEFRZNL	"2" NOT ON LOGON CHAIN
29	(1D)	X'3'	0	ICEFRZCR	"3" CRITICAL ERROR
29	(1D)	X'4'	0	ICEFRZRE	"4" HASPSICE RECOVERY
30	(1E)	BITSTRING	2		RESERVED
32	(20)	ADDRESS	2	ICEINLM	INBOUND QUEUE LIMIT
34	(22)	ADDRESS	2	ICEINCT	INBOUND QUEUE COUNTER
36	(24)	BITSTRING	1	ICEACPTN	COMPACTION TABLE NUMBER ACTIVE
37	(25)	BITSTRING	1	ICERCPTN	COMPACTION TABLE LAST REQUESTED
38	(26)	BITSTRING	1	ICEXRFBK	EXCEPTION RESPONSE FEEDBACK BITS
		1... ....		ICEXRDNA	"B'10000000" DEST NOT ACCEPTING FURTHER DATA
		.1.. ....		ICEXRCPY	"B'01000000" DEST NOT HANDLING MULTIPLE COPIES
		..1. ....		ICENSXIT	"B'00100000" NSXIT SCHEDULED FLAG
		...1 ....		ICEQUIES	"B'00010000" QUIESCE THEN SHUTDOWN FLAG
		.... 1..		ICERSTSR	"B'00001000" RESETSR CS MODE RPL ISSUED
39	(27)	BITSTRING	1	ICE#MSTR	NUMBER OF MASTERS
40	(28)	ADDRESS	4	ICEINH D	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	ICEOUTH D	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 CURRENTLY 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

# \$ICE Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
		1... ....		ICENJE	"B'10000000" ICE BEING USED BY NJE SESSION
		.1.. ....		ICEPRIME	"B'01000000" ICE REPRESENTS PRIMARY NJE APPL
		.... 1...		ICEFMHR4	"B'00001000" NJE FMH (TYPE 4) RECEIVED
		.... .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	ICETIME	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

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
		..11 ....		ICEODS	"B'00110000" BEGIN/END OF DATA SET
		.1.. ....		ICESPEND	"B'01000000" SUSPEND DATA SET
		.1.1 ....		ICEABEND	"B'01010000" ABORT DATA SET (NO RESUME)
		.11. ....		ICECONT	"B'01100000" CONTINUE DESTINATION
		.111 ....		ICESTRS1	"B'01110000" RESERVED
		1... ....		ICESTRS2	"B'10000000" RESERVED
		1..1 ....		ICESTRS3	"B'10010000" RESERVED
		1.1. ....		ICESTRS4	"B'10100000" RESERVED
		1.11 ....		ICESTRS5	"B'10110000" RESERVED
		11.. ....		ICESTRS6	"B'11000000" RESERVED
		11.1 ....		ICESTRS7	"B'11010000" RESERVED
		111. ....		ICENOFMH	"B'11100000" DATAFLOW HAS NO FMH PENDING
		1111 ....		ICEINSTR	"B'11110000" DATAFLOW NO FMH PEND
		.... 1..		ICEINCHN	"B'00001000" DATAFLOW IN CHAIN STATE
		.... .1..		ICEOCPND	"B'00000100" DATAFLOW EOC PEND STATE
		.... ..1.		ICECNCEL	"B'00000010" DATAFLOW CHAIN CANCELED
		.... ...1		ICEWTRSP	"B'00000001" DATAFLOW WAITING FOR RESPONSE

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	ICETSND5	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

## \$ICE Map

### Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
16	(10)	ADDRESS	4	ICETRPLA	RPL address
20	(14)	BITSTRING	1	ICETRREQ	RPLREQ
21	(15)	BITSTRING	1	ICETSRTY	RPLSRTYP
22	(16)	BITSTRING	2	ICETSEQN	RPLSEQNO
24	(18)	BITSTRING	1	ICETVFL2	RPLVTFL2
25	(19)	BITSTRING	3	ICETCNTR	RPLCNTRL
28	(1C)	BITSTRING	1	ICETCHN	RPLCHN
29	(1D)	BITSTRING	1	ICETRH3	RPLRH3
30	(1E)	BITSTRING	1	ICETRTNC	RPLRTNCD
31	(1F)	BITSTRING	1	ICETFDB2	RPLFDB2
32	(20)	BITSTRING	4	ICETFDBK	RPLFDBK2
36	(24)	BITSTRING	1	ICETRWHH	RPLWHRCH
37	(25)	BITSTRING	1	ICETRWH2	RPLWHR2

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	ICETFLS	Line DCTFLAGS
44	(2C)	BITSTRING	1	ICETFL2	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 occurred 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

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

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

## \$ICE Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
ICESPEND	350	40	ICETSEQ	2	
ICESTAT	0	0	ICETSEQN	16	0
ICESTATI	78	10	ICETSND	7	0
ICESTRS1	350	70	ICETSRMT	0	4
ICESTRS2	350	80	ICETSRTY	15	0
ICESTRS3	350	90	ICETSSAL	0	7
ICESTRS4	350	A0	ICETSTAT	4	0
ICESTRS5	350	B0	ICETSUSF	B	0
ICESTRS6	350	C0	ICETIME	C0	
ICESTRS7	350	D0	ICETTYPE	0	
ICESUSFL	1C		ICETVFL2	18	0
ICESUSPD	1C	40	ICET1ST	C8	
ICESYMB	8	40404040	ICEUNBD	7A	40
ICETAFLS	27	0	ICEWTIME	60	0
ICETAFL2	28	0	ICEWTRSP	350	1
ICETAMST	29	0	ICEXRCPY	26	40
ICETASTA	26	0	ICEXRDNA	26	80
ICETBUF	0	1	ICEXRESP	68	
ICETCHN	1C	0	ICEXRFBK	26	0
ICETCID	9	0	ICEXTCHN	AC	
ICETCLC1	1	2	ICEXTCOD	AB	0
ICETCLC2	34	31	ICEXTWCD	A8	
ICETCNT	35	0	ICEXTWRK	A8	
ICETCNTR	19	0	ICE1STLU	78	8
ICETEA	B8		ICE3LOGX	7B	10
ICETEALN	35	36	ICE3RATA	7B	8
ICETEMP	74		ICE3SIMA	7B	40
ICETEND	350		ICE3SIMC	7B	20
ICETERMS	7A	10	ICE3SIMI	7B	80
ICETERPL	0	5	ICE3WINC	7B	4
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			
ICERTNC	1E	0			
ICETRWHH	24	0			
ICETRWH2	25	0			
ICETSC	7A	8			

## \$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
212	(D4)	X'D8'	0	INWSIZE	"*-INW" Length of INIWARM

## \$INIWARM Map



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## \$IOT Programming Interface information

Programming Interface information

### \$IOT

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

- IOTTGADR

End of Programming Interface information

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## \$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  
SJB IOT field of the \$SJB data area  
SJBSP IOT field of the \$SJB data area  
SJXBS IOT field of the \$SJXB data area  
SJXR IOT 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	"BUFWRBTK-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

## \$IOT Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
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
Comment					
-----					
<p>The following sub-section, generated by the SPID macro, must reside immediately after the I/O control data in every spool buffer.</p> <p>The following fields are defined:</p> <p>Eyecatcher - 4 bytes            Job name - 8 bytes            Job number - 4 bytes            Job key - 4 bytes            Dataset key - 4 bytes (or reserved if not applicable)</p>					
-----					
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					
-----					
<p>IOTMOTHER 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. IOTMOTHER is not normally set until JOEs are built that point, via JOTIOTTR, to the IOT.</p>					
-----					
End of Comment					
140	(8C)	SIGNED	4	IOTMOTHER	MTTR of mother alloc IOT
144	(90)	SIGNED	4	IOTMULTR	MTTR of Multiple Output Characteristic (MOC) spool chain
148	(94)	SIGNED	4		Reserved
140	(8C)	BITSTRING	6	IOTPRMQT	MQTR of primary alloc IOT
146	(92)	BITSTRING	2		Reserved
148	(94)	BITSTRING	4	IOTTGATR	TRACK ADDRESS OF NEXT SECONDARY ALLOCATION IOT
152	(98)	SIGNED	2	IOTTGOFL	Offset of 1st MQT Version 1 IOTs only. Must be zero in version 0 IOTs
154	(9A)	SIGNED	2	IOTTGOFF	Offset of free TGAE space
156	(9C)	SIGNED	4	IOTJQOFF	JQE OFFSET
160	(A0)	BITSTRING	1	IOTFLAG3	Third flag byte

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
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
Comment					
<p>TGAEs in IOTs come in 3 flavors.</p> <p>Version 0 - Old style IOT with all TGAEs being 3 bytes in length</p> <p>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</p> <p>Version 2 - An IOT with all 5 byte TGAEs</p>					
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 TABMTR)
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	IOTFAMILY	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)

## \$IOT Cross Reference

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
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
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 HASPPIN
		.... ...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		IOTJQOFF	9C	
IOTBWP	0	64	IOTLENG	80	
IOTCELL	EC		IOTMSTAB	D8	
IOTCKRC	B8		IOTMTHER	8C	
IOTCKTKN	C0		IOTMUCTR	BC	
IOTCSASP	0	38	IOTMULTR	90	
IOTCYMXM	E8		IOTNOTPL	20	
IOTDSCT	B4		IOTNTEYE	18	
IOTFAMLY	130		IOTPDDB	B0	
IOTFLAG1	82		IOTPDDBP	AC	
IOTFLAG2	83		IOTPDDB1	E8	
IOTFLAG3	A0		IOTPRMQT	8C	
IOTFLAG4	0	50	IOTRCPBA	EC	E8
IOTFLAG5	0	51	IOTSAMSK	110	
IOTID	68		IOTSPLNG	7C	18
IOTIOT	0	5C	IOTSPMSK	F0	
IOTIOTTR	88		IOTSTART	0	68
IOTJBKEY	78		IOTTGAE	138	140
IOTJBNUM	74		IOTTGAEL	138	3
IOTJCT	0	58	IOTTGATR	94	
IOTJNAME	6C		IOTTGA2L	138	5
IOTJOE	0	3C	IOTTGOFF	9A	

<b>Name</b>	<b>Hex Offset</b>	<b>Hex Value</b>
IOTTGOFL	98	
IOTTRACK	84	
IOTUSER	C4	
IOTVER	A1	
IOTVER0	A1	0
IOTVER1	A1	1
IOTVER2	A1	2
IOT1ALOC	140	8
IOT1ALO2	140	20
IOT1NEW	140	1
IOT1NEWS	140	2
IOT1NTPR	140	4
IOT1SPIN	140	10
IOT1UNSP	140	40
IOT2DSCT	140	4
IOT2NLPL	140	10
IOT2NSPN	140	8
IOT2RUBL	140	40
IOT2RUED	140	20
IOT2SPER	140	1
IOT2SPNB	140	2
IOT2UNAL	140	80
IOT3MOCF	A0	40
IOT3NUTK	A0	80
IOT4CKPT	0	80
IOT5CSDB	0	80
IOT5CSFR	0	40
IOT5IOE	0	10





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**\$IRE Programming Interface information**

Programming Interface information

**\$IRE**

End of Programming Interface information

## \$IRE Heading Information

**Common Name:** IRE  
**Macro ID:** \$IRE  
**DSECT Name:** IRE  
**Owning Component:** JES2 (SC1BH)  
**Eye-Catcher ID:** IRE  
 Offset: IREEYE-IRE  
 Length: L'IREEYE

**Storage Attributes:** Subpool: 241  
 Key: 1  
 Residency: Virtual storage is in 31 bit storage, real can be in 64 bit storage, in extended common storage

**Size:** See IRELEN

**Created by:** As a part of an ECSA CPOOL, the storage is obtained at CPOOL build time (called out of JES2 initialization processing). Elements are obtained during internal reader allocation processing.

**Pointed to by:** CCTINTRE field of the HCCT data area  
 HSBINTRE field of the HASB data area  
 IRENEXT field of the IRE data area  
 IREASNXT field of the IRE data area  
 RIDIRE field of the IRWD data area

**Serialization:** The IRE data area is obtained and added to the chains in the user address space. However, the IRE can only be deleted from the HCCT chain in the JES2 main task because the chain can be run by \$DRDI processing.

**Function:** This area maps the data area used to track usage of internal readers. Each allocated has associated with it one tracking element in ECSA. This is used for the \$DRDI command.

## \$IRE Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	IRE	, Internal Reader Element
0	(0)	CHARACTER	4	IREEYE	Eyecatcher
4	(4)	ADDRESS	1	IREVER	Version
4	(4)	X'1'	0	IREVERN	"1" Initial version
5	(5)	BITSTRING	1		Reserved
6	(6)	CHARACTER	10	IREDEVN	Device name
16	(10)	ADDRESS	4	IRENEXT	Next IRE on HCCT chain
20	(14)	ADDRESS	4	IREASNXT	Next IRE on HASB chain
24	(18)	ADDRESS	4	IREIRWD	Associated IRWD
28	(1C)	ADDRESS	4	IREJOB	Owning SJB (or zero)
32	(20)	ADDRESS	4	IREHASB	Owning HASB
36	(24)	BITSTRING	8	IREASCBT	Owning address space token
44	(2C)	CHARACTER	8	IREOJOB	Owning job name
52	(34)	CHARACTER	8	IREJOBID	and JOBID
60	(3C)	SIGNED	4	IREJOBCT	Total job count
64	(40)	CHARACTER	8	IRECJOB	Job name, JOBID and
72	(48)	CHARACTER	8	IRECJOBID	job key of job currently
80	(50)	SIGNED	4	IRECJKEY	on this internal reader
84	(54)	SIGNED	4	IRECUREC	Records read for current job
88	(58)	CHARACTER	8	IRECCARD	Card currently being processed
96	(60)	BITSTRING	1	IRERAUTH	Reader command authority (see IRSRAUTH for bits)
97	(61)	BITSTRING	1	IREFLAGS	Processing flags

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
		1... ....		IRESIIND	"B'10000000" Independent mode
		.1.. ....		IREHOLDJ	"B'01000000" Hold job (\$TJ...H)
		..1. ....		IRETRACE	"B'00100000" Tracing is active
		...1 ....		IREIRCAC	"B'00010000" IRE active in cleanup processing
98	(62)	BITSTRING	1	IRESTATS	Current RDR status
		1... ....		IREINACT	"B'10000000" IRE element logically deleted
		.1.. ....		IREALLOC	"B'01000000" Internal reader allocated
		..1. ....		IREACTIV	"B'00100000" Internal reader active
99	(63)	BITSTRING	1		Reserved
100	(64)	CHARACTER	8	IREJCLAS	Default Job class
108	(6C)	CHARACTER	1	IREMCLAS	Default MSGCLASS
109	(6D)	CHARACTER	7		Reserved
116	(74)	BITSTRING	4	IRESIAFF	Default system affinity
120	(78)	SIGNED	4	IREPRINT (0)	Default print route code
120	(78)	SIGNED	2	IREPRNOD	Node number
122	(7A)	SIGNED	2	IREPRRTE	Local printer/remote number
124	(7C)	CHARACTER	8	IREPRSER	Print userid
132	(84)	SIGNED	4	IREPUNCH (0)	Default punch route code
132	(84)	SIGNED	2	IREPUNOD	Node number
134	(86)	SIGNED	2	IREPURTE	Local punch/remote number
136	(88)	CHARACTER	8	IREPUSER	Punch userid
144	(90)	SIGNED	4	(3)	Reserved
160	(A0)	DBL WORD	8	(0)	Alignment
160	(A0)	X'A0'	0	IRELEN	**-"IRE" Length of data area

**\$IRE Cross Reference**

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
IRE	0		IRESIIND	61	80
IREACTIV	62	20	IREJOB	1C	
IREALLOC	62	40	IRESTATS	62	
IREASCBT	24		IRETRACE	61	20
IREASNXT	14		IREVER	4	
IRECCARD	58		IREVERN	4	1
IRECJBID	48				
IRECJKEY	50				
IRECJOB	40				
IRECUREC	54				
IREDEVN	6				
IREEYE	0	C9D9C540			
IREFLAGS	61				
IREHASB	20				
IREHOLDJ	61	40			
IREINACT	62	80			
IREIRCAC	61	10			
IREIRWD	18				
IREJCLAS	64				
IREJOBCT	3C				
IRELEN	A0	A0			
IREMCLAS	6C				
IRENEXT	10				
IREOBJID	34				
IREOJOB	2C				
IREPRINT	78				
IREPRNOD	78				
IREPRRTE	7A				
IREPRSER	7C				
IREPUNCH	84				
IREPUNOD	84				
IREPURTE	86				
IREPUSER	88				
IRERAUTH	60				
IRESIAFF	74				

## \$IRE Cross Reference

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## \$IRIS Programming Interface information

Programming Interface information

\$IRIS

End of Programming Interface information

## \$IRIS Heading Information

**Common Name:** IRIS  
**Macro ID:** \$IRIS  
**DSECT Name:** IRIS  
**Owning Component:** JES2 (SC1BH)  
**Eye-Catcher ID:** IRIS  
 Offset: IRSEYE-IRS  
 Length: L'IRSEYE  
**Storage Attributes:** Subpool: 241  
 Key: 1  
 Residency: Virtual storage is in 31 bit storage, real can be in 64 bit storage, in common storage  
**Size:** See IRISLEN  
**Created by:** HASPIRMA during JES2 initialization processing  
**Pointed to by:** CCTBATMD field of the HCCT data area  
 CCTIRSMD field of the HCCT data area  
 CCTSTCMD field of the HCCT data area  
 CCTTSOMD field of the HCCT data area  
**Serialization:** None required  
**Function:** This area maps the data area used to store defaults for internal readers (as set from INTRDR initialization statement). One exists for each type of internal reader (in ECSA) even though the initialization statement only applies to batch internal readers.

## \$IRIS Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	IRIS	, Internal reader init statement
0	(0)	CHARACTER	4	IRISEYE	Eyecatcher
4	(4)	ADDRESS	1	IRISVER	Version
4	(4)	X'1'	0	IRISVERN	"1" Initial version
5	(5)	BITSTRING	1	IRSFLAGS	Processing flags
		1... ....		IRSSIIND	"B'10000000" Independent mode
		.1.. ....		IRSHOLDJ	"B'01000000" Hold job (\$TJ....H)
		...1 ....		IRSBLIM	"B'00010000" Honor BYTES= values
6	(6)	BITSTRING	1	IRSPRINC	Priority increment
7	(7)	BITSTRING	1	IRSPRLIM	Priority limit
8	(8)	CHARACTER	8	IRSJCLAS	Default Job class
16	(10)	CHARACTER	1	IRSMCLAS	Default MSGCLASS
17	(11)	CHARACTER	7		Reserved
24	(18)	SIGNED	4	IRSPRINT (0)	Default print route code
24	(18)	SIGNED	2	IRSPRNOD	Node number
26	(1A)	SIGNED	2	IRSPRTE	Local printer/remote number
28	(1C)	CHARACTER	8	IRSPRSER	Print userid
36	(24)	SIGNED	4	IRSPUNCH (0)	Default punch route code
36	(24)	SIGNED	2	IRSPUNOD	Node number
38	(26)	SIGNED	2	IRSPURTE	Local punch/remote number
40	(28)	CHARACTER	8	IRSPUSER	Punch userid
48	(30)	BITSTRING	4	IRSSIAFF	Default system affinity
52	(34)	BITSTRING	1	IRSRAUTH	Reader command authority
		.... 1..		IRSREJRM	"B'00001000" Remote restriction
		.... .1..		IRSREJJB	"B'00000100" Restricted from job commands
		.... ..1.		IRSREJDV	"B'00000010" Restricted from device commands
		.... ...1		IRSREJSY	"B'00000001" Restricted from system commands
53	(35)	BITSTRING	1	IRSTRFLG	Tracing flags (ONLY)

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
		1... ....		IRSTRACE	"B'10000000" Tracing is active
		.1... ....		IRSTRFAS	"B'01000000" ASID filtering active
		..1. ....		IRSTRFJN	"B'00100000" JOBNAME filtering active
		...1 ....		IRSTRFJ#	"B'00010000" JOB number filtering act
54	(36)	SIGNED	2	IRSTRASI	Trace ASID option
56	(38)	CHARACTER	8	IRSTRJBN	Trace job name option
64	(40)	SIGNED	4	IRSTRJNO	Trace job number option
68	(44)	SIGNED	4	(3)	Reserved
80	(50)	DBL WORD	8	(0)	Alignment
80	(50)	X'50'	0	IRISLEN	** -IRIS" Length of data area

**\$IRIS Cross Reference**

Name	Hex Offset	Hex Value
IRIS	0	
IRISEYE	0	C9D9C9E2
IRISLEN	50	50
IRISVER	4	
IRISVERN	4	1
IRSBLIM	5	10
IRSFLAGS	5	
IRSHOLDJ	5	40
IRSJCLAS	8	
IRSMCLAS	10	
IRSPRINC	6	
IRSPRINT	18	
IRSPRLIM	7	
IRSPRNOD	18	
IRSPRTE	1A	
IRSPRSER	1C	
IRSPUNCH	24	
IRSPUNOD	24	
IRSPURTE	26	
IRSPUSER	28	
IRSRAUTH	34	
IRSREJDV	34	2
IRSREJJB	34	4
IRSREJRM	34	8
IRSREJSY	34	1
IRSSIAFF	30	
IRSSIIND	5	80
IRSTRACE	35	80
IRSTRASI	36	
IRSTRFAS	35	40
IRSTRFJ#	35	10
IRSTRFJN	35	20
IRSTRFLG	35	
IRSTRJBN	38	
IRSTRJNO	40	





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## **\$IRWD Programming Interface information**

Programming Interface information

**\$IRWD**

End of Programming Interface information

## \$IRWD Heading Information

**Common Name:** IRWD  
**Macro ID:** \$IRWD  
**DSECT Name:** IRWD  
**Owning Component:** JES2 (SC1BH)  
**Eye-Catcher ID:** IRWD  
 Offset: RIDID-IRWD  
 Length: L'RIDID

**Storage Attributes:** Subpool: 249  
 Key: 1  
 Residency: Virtual storage is in 31 bit storage, real can be in 64 bit storage, in the address space that allocated the internal reader

**Size:** See RIDSIZE  
**Created by:** HASCDL during allocation processing  
**Pointed to by:** IREIRWD field of the IRE data area  
 DEBIRBB field of the DEB data area (after OPEN)  
 contains bits 1-24 of the address

**Serialization:** None required  
**Function:** This data area represents an internal reader allocated in an application address space.

## \$IRWD Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	IRWD	, Internal Reader work area
0	(0)	CHARACTER	4	RIDID	IRWD eycatcher
4	(4)	SIGNED	4		Reserved
8	(8)	DBL WORD	8	RIDCWKAR (0)	Common work area
1392	(570)	ADDRESS	4	RIDHCCT	HCCT address
1396	(574)	ADDRESS	4	RIDIRES	Associated IRE address
1400	(578)	ADDRESS	4	RIDIRIS	IRIS address
1404	(57C)	ADDRESS	4	RIDTRE	TRE address (in HINTRDR)
Comment					
----- ASOK fields. For details, see ASOK DSECT in \$\$SDB -----					
End of Comment					
1408	(580)	BITSTRING	8	RIDASOK (0)	ASOK fields
1410	(582)	SIGNED	2	RIDASOKO	Ordinality of ASOK L1
1412	(584)	SIGNED	2	RIDASOK1	Offset into Level 1 ASOK
1414	(586)	SIGNED	2	RIDASOK2	Offset into Level 2 ASOK
1416	(588)	DBL WORD	8	RIDLOCK	Lock owning TCB info (or zero if not locked)
Comment					
Default values for this internal reader (from allocation time)					
End of Comment					
1424	(590)	BITSTRING	1	RIDFLAGD	Default flag settings
		1... ....		RIDDLOCL	"B'10000000" Force SYSAFF to local
		.1.. ....		RIDDHOLD	"B'01000000" Force TYPRUN=HOLD (DD HOLD=YES)
		..1. ....		RIDDROUT	"B'00100000" A default print/punch routing has been passed
1425	(591)	BITSTRING	1	RIDRECFM	RECFM of intrdr dataset, bits defined in DCB under DCBRECFM

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
1426	(592)	SIGNED	2	RIDLRECL	LRECL of intrdr dataset
1428	(594)	CHARACTER	1	RIDMCLAS	Default MSGCLASS
1429	(595)	CHARACTER	7		Reserved
1436	(59C)	SIGNED	4	RIDDPRT (0)	Default print route code
1436	(59C)	SIGNED	2	RIDDP RND	Node number
1438	(59E)	SIGNED	2	RIDDP RRT	Local printer/remote number
1440	(5A0)	CHARACTER	8	RIDDP RUS	Print userid
1448	(5A8)	SIGNED	4	RIDDPUN (0)	Default punch route code
1448	(5A8)	SIGNED	2	RIDDPUND	Node number
1450	(5AA)	SIGNED	2	RIDDPURT	Local punch/remote number
1452	(5AC)	CHARACTER	8	RIDDP UUS	Punch userid

Comment

Internal reader processing options

End of Comment

1460	(5B4)	BITSTRING 1... ..	1	RIDFLAG1 RID1LRDF	Miscellaneous flag byte, serialized by SJB lock "B'10000000" OPEN set default LRECL or lrecl value specified by user at open intrdr time is to be overridden.
		.1.. ..		RID1BLIM	"B'01000000" Honor BYTES= values for internal readers
1461	(5B5)	BITSTRING	3		Reserved
1464	(5B8)	ADDRESS	4	RIDSJB	SJB address
1468	(5BC)	CHARACTER	8	RIDJOBID	Internal reader job id
1476	(5C4)	SIGNED	4	(20)	Reserved
1476	(5C4)	X'680'	0	RIDSIZE	"((-IRWD+127)/128)*128" Length of DSECT

### \$IRWD Cross Reference

Name	Hex Offset	Hex Value
IRWD	0	
RIDASOK	580	
RIDASOKO	582	
RIDASOK1	584	
RIDASOK2	586	
RIDCWKAR	8	
RIDDHOLD	590	40
RIDDLOCL	590	80
RIDDP RND	59C	
RIDDP RRT	59E	
RIDDP RT	59C	
RIDDP RUS	5A0	
RIDDPUN	5A8	
RIDDPUND	5A8	
RIDDPURT	5AA	
RIDDP UUS	5AC	
RIDDROUT	590	20
RIDFLAGD	590	
RIDFLAG1	5B4	
RIDHCCT	570	
RIDID	0	C9D9E6C4
RIDIRE	574	
RIDIRIS	578	
RIDJOBID	5BC	
RIDLOCK	588	
RIDLRECL	592	
RIDMCLAS	594	
RIDRECFM	591	
RIDSIZE	5C4	680
RIDSJB	5B8	
RIDTRE	57C	
RID1BLIM	5B4	40
RID1LRDF	5B4	80



## \$JCMWORK Heading Information

**Common Name:** JES2 Job Command PCE Work Area  
**Macro ID:** \$JCMWORK  
**DSECT Name:** PCE (\$JCMWORK is part of the PCE DSECT)  
**Owning Component:** JES2 (SC1BH)  
**Eye-Catcher ID:** 'PCE '  
 Offset: PCEEYE-PCE  
 Length: 4

**Storage Attributes:** Subpool: See \$PCE  
 Key: See \$PCE  
 Residency: See \$PCE

**Size:** See symbol JCMPCEWS for the length of this work area. The overall length of the PCE is stored in field PCELENG.

**Created by:** See \$PCE  
**Pointed to by:** The \$JCMPDCE field of the \$HCT data area  
 See \$PCE for other pointer fields that apply to all PCE types.

**Serialization:** Normal PCE dispatch serialization  
**Function:** The fields in this area are used by the JES2 Job Command Processor and by its support routines and exits. \$JCMWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in \$JCMWORK are actually part of the PCE DSECT, but only map PCEs with the value PCEJCMID in the second byte of field PCEID.

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

## \$JCMWORK Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
312	(138)	ADDRESS	4	JCMDSJBQ	Address of current SJB queue head
320	(140)	DBL WORD	8	(0)	Force double-word alignment
320	(140)	X'8'	0	JCMPCEWS	**"-PCEWORK" Length of work area

## \$JCMWORK Map

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