LOC OBJECT CODE ADDR1 ADDR2 STMT 2 ***********************************	*****
3 * 4 * Various CKD Dasd CCW tests	*****
4 * Various CKD Dasd CCW tests	
6 * This test program simply executes a few selected E7 Pref 7 * channel programs to verify Hercules's E7 Prefix CCW supp	
8 * working properly. The current list of tests that this pr 9 * performs is as follows:	
10 * 11 * 01 Format 2 PFX to obtain subsystem information (no I	ΠΛ.)
12 * 02 Format 0 PFX with Define Extent Valid bit off (DX	
13 * chained) (Read 06 IDA) 14 * 03 Format 0 PFX with Define Extent Valid bit on (DX C 15 * embedded) (Read 06 1 IDA)	CW
$16 \ * \qquad 04 \ ext{Format 2'PFX to obtain control unit information (P}$	FX
17 * E7 2 IDA, Read 06 1 IDA) 18 * 05 Read 06 CCW should fail since LR operation is Read	(16)
19 * and Read 06 CCW not multi-track (Read 06 1 IDA)	•
20 * 06 Same as Test #5, but properly uses multi-track Rea 21 * (86) (Read 86 1 IDA)	d
22 * 07 Petér's z/VM SSI issue (PFX 01 CMDREJ)	
23 * 08 Write Data erase remainder of track.´ 24 * 09 Read record 3 on track 0 (verify test #08 erase)	
25 * 10 GH#608 FILE PROTECT: track with =12 recs	
26 * 11 GH#608 FILE PROTECT: track with <12 recs 27 *	
28 * 29 * By default, all tests in the TESTTAB table are run one a 30 * the other. To run just one specific test, in your .tst s	
31 * set the TESTONLY byte at X'100' to the specific test num 32 *	
$33 \ * $ All channel programs (except for two of them) are expect	
34 * complete normally without error (SCSW = CE+DE = X'0C00') 35 *	•
36 st Tests #5 and #9 however are purposely designed to always	
37 * in order to verify Hercules properly rejects the invalid 38 * program and does not mistakenly accept and process it in 39 * Test #6 is the corrected form of test #5 which, just lik	stead.
40 * of the other tests (except #9), should always succeed. 41 *	
42 * Except for Tests #1 and #7, most of the other tests (#2-	
43 * also specify IDA (Indirect Data Addressing) in some of t 44 * CCWs in order to verify proper Hercules handling of that	
45 * 46 * Tests #4, #8 and #9 are especially important in that #4	specifies
47 * IDA in its E7 Prefix CCW so as to cause its data to be a 48 * in TWO chunks (i.e. its IDAL contains TWO entries in it)	ccessed , and
49 * test #8 and #9 together verify proper track erasure, whe 50 * of the other IDA usage is only used in the Read 06 and R 51 * CCWs where the IDAL only has one entry in it to simply r	ead 86
52 * the read to elsewhere.	C411 CCC
53 st 54 st Thank you to Aaron Finerman for devising tests 1-6.	
55 * 56 ********************************	*****

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LOC	OBJECT CODE	ADDR1	ADDR2	STMT	
				58 3439	PRINT OFF PRINT ON
				3441 ******* 3442 * 3443 ******	**************************************
				3445 3447+\$AL 3448+\$ALR 3449+\$B 3450+\$BAS 3451+\$BASR 3452+\$BC	ARCHLVL ZARCH=YES,ARCHIND=YES,MNOTE=NO OPSYN AL OPSYN ALR OPSYN B OPSYN BAS OPSYN BASR OPSYN BC
				3453+\$BCTR 3454+\$BE 3455+\$BH 3456+\$BL	OPSYN BCTR OPSYN BE OPSYN BH OPSYN BL
				3457+\$BM 3458+\$BNE 3459+\$BNH 3460+\$BNL 3461+\$BNM	OPSYN BM OPSYN BNE OPSYN BNH OPSYN BNL OPSYN BNM
				3462+\$BNO 3463+\$BNP 3464+\$BNZ 3465+\$BO	OPSYN BNO OPSYN BNP OPSYN BNZ OPSYN BO
				3466+\$BP 3467+\$BXLE 3468+\$BZ 3469+\$CH 3470+\$L	OPSYN BP OPSYN BXLE OPSYN BZ OPSYN CH OPSYN L
				3470+\$L 3471+\$LH 3472+\$LM 3473+\$LPSW 3474+\$LR	OPSYN LH OPSYN LM OPSYN LPSW OPSYN LR
				3475+\$LTR 3476+\$NR 3477+\$SL 3478+\$SLR	OPSYN LTR OPSYN NR OPSYN SL OPSYN SLR
				3479+\$\$R 3480+\$\$T 3481+\$\$TM 3482+\$X	OPSYN SR OPSYN ST OPSYN STM OPSYN X
				3483+\$AHI 3484+\$B 3485+\$BC	OPSYN AHI OPSYN J OPSYN BRC
				3486+\$BE 3487+\$BH 3488+\$BL 3489+\$BM	OPSYN JE OPSYN JH OPSYN JL OPSYN JM
				3490+\$BNE 3491+\$BNH 3492+\$BNL 3493+\$BNM	OPSYN JNE OPSYN JNH OPSYN JNL OPSYN JNM
				3494+\$BNO	OPSYN JNO

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LOC	OBJECT CODE	ADDR1	ADDR2	STMT		
				240F . ¢DND	ODCVN IND	
				3495+\$BNP 3496+\$BNZ	OPSYN JNP OPSYN JNZ	
				3497+\$B0	OPSYN JO	
				3498+\$BP	OPSYN JP	
				3499+\$BXLE	OPSYN JXLE	
				3500+\$BZ 3501+\$CHI	OPSYN JZ OPSYN CHI	
				3502+\$AHI	OPSYN AGHI	
				3503+\$AL	OPSYN ALG	
				3504+\$ALR	OPSYN ALGR	
				3505+\$BCTR 3506+\$BXLE	OPSYN BCTGR OPSYN JXLEG	
				3507+\$CH	OPSYN CGH	
				3508+\$CHI	OPSYN CGHI	
				3509+\$L	OPSYN LGH	
				3510+\$LH 3511+\$LM	OPSYN LGH OPSYN LMG	
				3512+\$LPSW	OPSYN LPSWE	
				3513+\$LR	OPSYN LGR	
				3514+\$LTR	OPSYN LTGR	
				3515+\$NR 3516+\$SL	OPSYN NGR OPSYN SLG	
				3517+\$SLR	OPSYN SLGR	
				3518+\$SR	OPSYN SGR	
				3519+\$ST 3520+\$STM	OPSYN STG OPSYN STMG	
				3520+\$31M 3521+\$X	OPSYN XG	
				7		
				3523 ******	*******	**********
				3524 *		T CSECT in the CODE region
				3525 * 3526 ******	with the location	counter at 0 *************
				3528 E7TEST	ASALOAD REGION=CO	DE
0000000	000000000000000000000000000000000000000	00000000	0000F023	3529+E7TEST	START 0, CODE	01
00000000	00020000 00000000	00000010	00000058	3531+ 3532+	PSW 0,0,2,0,X'00 ORG E7TEST+X'058	
00000010	00020000 00000000	POPOPOTO	00000000	3534+	PSW 0,0,2,0,X'01	
00000068	00020000 00000000			3535+	PSW 0,0,2,0,X'02	0' 64-bit Supervisor Call ISR Trap New PSW
00000078	00020000 00000000			3536+	PSW 0,0,2,0,X'02	8' 64-bit Program ISR Trap New PSW
00000088 00000098	00020000 00000000 00020000 00000000			3537+ 3538+	PSW 0,0,2,0,X'03 PSW 0,0,2,0,X'03	
00000038	3302000 0000000	000000A8	000001A0	3539+	ORG E7TEST+X'1A0	
000001A0	00020000 00000000			3541+	PSWZ 0,0,2,0,X'12	0' Restart ISR Trap New PSW
000001B0	00020000 00000000			3542+	PSWZ 0,0,2,0,X'13	
000001C0 000001D0	00020000 00000000 00020000 00000000			3543+ 3544+	PSWZ 0,0,2,0,X'14 PSWZ 0,0,2,0,X'15	
000001E0	00020000 00000000			3545+	PSWZ 0,0,2,0,X'16	
000001F0	00020000 00000000			3546+	PSWZ 0,0,2,0,X'17	

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					30 CCW	ces cs	• • •	25 Teb 2024 10.04.22 Fage	7
LOC	OBJECT CODE	ADDR1	ADDR2	STMT					
				3549 *			LOW CORI	************** E ************	
00000200		00000200	00000100	3552		ORG	E7TEST+X'100'		
00000100	00	00000200	00000100	3553 TE	STONLY		AL1(0)	(only do this one test if non-zero)	
00000101		00000101	000001A0	3555		ORG	E7TEST+X'1A0'	z/Arch Restart New PSW	
00000101 000001A0 000001A8	00000001 80000000 00000000 00000200	00000101	000001A0	3556 3557		DC DC	0D'0',XL8'0000000: AD(BEGIN)		
000001B0 000001D0 000001D8	00020001 80000000 00000000 0000DEAD	000001B0	000001D0	3559 3560 3561		ORG DC DC	E7TEST+X'1D0' 0D'0',XL8'0002000: AD(X'DEAD')	z/Arch Program New PSW 18000000'	
000001E0		000001E0	00000200	3563		ORG	E7TEST+X'200'		
				3566 *		****** (1	ENTRY POINT ************************************	**************************************	
				3570 * 3571 *	R2 R3	(\ I(work) OCB pointer (set by	y INIT, needed by ENADEV macro)	
				3572 * 3573 * 3574 *	R4 R5	S (W l	CHSCSW pointer (alm nen signaling arch	oarily used at INIT during ENADEV) so temporarily used for CPU register itecture change during startup)	
				3575 * 3576 * 3577 *	R6,R R8	àı	rchitecture during	s signaling registers when changing startup) INIT, used by EXCP subroutine)	
				3578 *	R9-R	15 (ı	work)	*************	
00000200 00000200 00000200		00000000 00000000 00000000		3581 3582 3583		USING	E7TEST,R0 ASA,R0 IOCB,R3	Low core addressability Low core addressability SATK Device I/O-Control Block	
00000200 00000200 00000200		00000000 00000000 00000000		3584 3585 3586		USING	SCHIB,R4 SCSW,R5 ORB,R8	ESA/390 Subchannel Information Block ESA/390 Subchannel Status Word ESA/390 Operation-Request Block	
00000200 00000202 00000206	9200 0200		00000200	3588 BE 3589 3590	GIN	SLR MVI SLR	R0,R0 TESTNUM,0 R1,R1	Start clean (SIGP status register) Initialize Test number Start clean (SIGP parm register)	
00000208 0000020A	1F22			3591 3592		SLR SLR	R2,R2 R3,R3	Start clean (SIGP parm register) Start clean (SIGP target CPU)	
00000210			00000000 00000001	3594 3595		LA LA	R3,0 R1,1	Target CPU = CPU #0 Parm register = z/Arch mode	
00000218 0000021C	4740 0228		00000012 00000232 00000228	3596 3597 3598		SIGP BC BC	R0,R3,X'12' B'1000',ZARCHOK B'0100',CHKZARCH	Order code = z/Arch mode CCO = success: continue CC1 = status stored: check further	
	4720 02D0 4710 02D0		000002D0 000002D0	3599 3600		BC BC	B'0010',FAILCPU0 B'0001',FAILCPU0	<pre>CC2 = busy: FAIL CC3 = not operational: FAIL</pre>	

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LOC	OBJECT CODE	ADDR1	ADDR2	STMT			
				3603 *	Ensure	test program execu	**************************************
0000022C	4140 0100 1504 A774 0051		00000100 000002D0	3606 CHKZARCH 3607 3608		R4,X'100' R0,R4 FAILCPU0	Status X'100' = Same Architecture! Are we already in z/Arch mode? Any other status = FAIL
	4140 0246 4040 01AE		00000246 000001AE	3610 ZARCHOK 3611	LA STH	R4,BEGIN0 R4,X'1AE'	Point to CPU #0 entry point Update Restart PSW
	4130 0000 AE03 0006		00000000 00000006	3613 3614	LA SIGP	R3,0 R0,R3,X'6'	Target CPU = CPU #0 Order code = Restart
00000242	B2B2 02D0		000002D0	3616	LPSWE	FAILCPU0	WTF?! How did we get here?!

				3619 * THE 3620 ******	ACTUA *****	L (very short and s *********	<pre>imple) E7TEST TEST PROGRAM ITSELF ************************************</pre>
00000246	45E0 0368		00000368	3622 BEGINØ	BAL	R14,INIT	Initalize Program
0000024A	98AB 0610		00000610	3624	LM	R10,R11,ATESTTAB	R10> table, R11 <== #of entries
00000252	9500 0100 4780 0260 D500 0100 A003	00000100	00000100 00000260 00000003	3626 TESTLOOP 3627	BE	TESTONLY, 0 TESTONLY, 2 (P10)	Do only specific test? No, do all tests
0000025C	4770 0270	00000100	00000270	3629	BNE	TESTNEXT	<pre>Is the test they want? No, skip this test</pre>
	9801 A00C 45E0 04A0		0000000C 000004A0	3631 TESTTHIS 3632		R0,R1,(TESTLEN-(2*) R14,MSG	4))(R10) R0 <== MSG LEN, R1> MSG Report which test this is
0000026C	9802 A000 45E0 027C 41A0 A014		00000000 0000027C 00000014	3634 3635 3636 TESTNEXT		R0,R2,0(R10) R14,DOTEST R10,TESTLEN(,R10)	Load test parms from table Perform this test R10> next test table entry
00000274	46B0 024E		0000024E	3638	ВСТ	R11,TESTLOOP	Loooop until no more tests
00000370	D2D2 0200		00000300	2640	I DCUE	COORDCH	
)UUUU2/8	B2B2 0308		00000308	3640	LPSWE	GOODPSW	E7TEST SUCCESS!

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LOC	OBJECT CODE	ADDR1	ADDR2	STMT			
				3643 *	Gener	ic TEST subroutine:	R0=test#, R1=chpgm, R2=flag ************************************
0000027C	50E0 02CC		000002CC	3646 DOTEST	ST	R14,TESTR14	Save return address
00000280 00000284	4200 0200 1801		00000200	3648 3649	STC LR	R0,TESTNUM R0,R1	Save this test's test number R0> This test's Channel Program
00000286	45F0 03E2		000003E2	3651	BAL	R15,EXCP	Execute this Channel Program
0000028A 0000028E	5810 3000 5840 3028		00000000 00000028	3653 3654	L L	R1,IOCBDID R4,IOCBSIB	R1 <== Subchannel R4 <== SCHIB address
	B234 4000 4770 02D8		00000000 000002D8	3656 3657	STSCH BC	0(R4) B'0111',FAILSCH	Store Subchannel for our device FAIL if anything other than CCO
				3659 *	Verif	y correct/expected	I/O completion
0000029A	4150 401C		0000001C	3661	LA	R5,SCHSCSW	R5> SCSW
	9500 5009 4770 02F0		00000009 000002F0	3663 3664	CLI BNE	SCSWCS,0 FAILTEST	Clean channel status? No?! ALWAYS FAIL THE TEST!
000002A6 000002A8	1222 4770 02B8		000002B8	3666 3667	LTR BNZ	R2,R2 ERRTEST	I/O error expected for this test? Yes, then verify there was an error
000002B0	950C 5008 4770 02F0 47F0 02C4		00000008 000002F0 000002C4	3669 3670 3671	CLI BNE B	SCSWUS,SCSWCE+SCSW FAILTEST TESTOK	IDE Check for normal successful I/O No?! FAIL! Yes, then we're done; return
	950C 5008		000000204	3673 ERRTEST	CLI	SCSWUS,SCSWCE+SCSW	
000002BC	4780 02F0 45F0 03DE		000002F0 000003DE	3674	BE BAL	FAILTEST R15,DOSENSE	Yes?! UNEXPECTED! FAIL! Clear the error
000002C4 000002C8	58E0 02CC 07FE		000002CC	3677 TESTOK 3678	L BR	R14,TESTR14 R14	Restore R14 return address Return to caller
000002CC	0000000			3680 TESTR14	DC	A(0) Test subr	routine saved R14 return address

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LOC	OBJECT CODE	ADDR1	ADDR2	STMT				
				3683 *		Disabled Wait F	**************************************	
				3686 *	Γest fail	ure routines to load	specific failure PSW	
000002DC 000002E0 000002E4 000002E8 000002EC 000002F0			00000348 000002F8 00000358 000002F8	3688 FAILCI 3689 3690 FAILSI 3691 3692 FAILDI 3693 3694 FAILII 3695 3696 FAILTI	B CH LA B EV LA B D LA B	R9,BAD66PSW FAIL R9,BAD77PSW FAIL R9,BAD88PSW FAIL R9,BAD99PSW FAIL R9,FAILPSW FAIL	SIGP failed STSCH failed ENADEV failed RAWIO failed One of our overall tests failed	
000002F8 000002FE	D200 900F 0200 B2B2 9000	0000000F	00000200 00000000	3699 FAIL 3700		16-1(1,R9),TESTNUM 0(R9)	Put failing test# into PSW Load failure PSW	
				3702 * 3703 ** 3704 *	Overall	test SUCCESS / FAILUF	RE disabled wait PSWs	
00000308 00000318	00020001 80000000 00020001 80000000			3706 GOODP: 3707 FAILP:			000000',AD(X'0000000') 0000000',AD(X'0BAD0000')	
				3709 * 3710 ** 3711 *	Specific	unexpected failure o	disabled wait PSWs	
				3713 BAD661 3714 BAD771 3715 BAD881 3716 BAD991	PSW DC PSW DC	0D'0',XL8'0002000186 0D'0',XL8'0002000186	000000',AD(X'0BAD6600') 0000000',AD(X'0BAD7700') 0000000',AD(X'0BAD8800') 0000000',AD(X'0BAD9900')	

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LOC	OBJECT CODE	ADDR1	ADDR2	STMT			
				3718 ******	*****	******	*********
				3719 *	Progr	am Initialization	
				3720 ******	*****	********	**********
0000368	4130 0574		00000574	3722 INIT	LA	R3,IOCB A80	R3> IOCB
	E380 3018 0004			3723	LG	R8,IOCBORB	R8> ORB
	45F0 037C		0000037C		BAL	R15,IOINIT	Init CPU for I/O operations
0000376	45F0 038A		0000038A	3725	BAL	R15,ENADEV	Enable device for I/O
000037A	07FE			3726	BR	R14	Return to caller
				3728 ******	*****		*********
				3729 *	Initi	alize the CPU for I	I/O operations
				3/30 ******	*****	******	***********
				3732 IOINIT	IOINI		
000037C	B766 0384		00000384	3733+IOINIT		6,6,IOMK0007	Enable subchannel subclasses for interruptions
0000380	47F0 0388		00000388		В	IOMK0007+4	
0000384	FF000000			3735+IOMK0007		0F	431
0000384	FF000000			3736+	DC	XL4'FF000000'	All subchannel subclasses enabled
0000388	07FF			3737	BR	R15	Return to caller
				3739 ******			**********
				3740 *	Enabl	e the device, makir	ng it ready for use *********
				3/41 ******	*****	******	********
				2742 FNADEV			
						\/	DFC-A
MOCOGOO	E910 02D4		00000204	3743 ENADEV		V ENAOKAY, FAILDEV,	,REG=4
000038A	5810 03D4		000003D4	3744+ENADEV	Ļ	1,FIND0008	
000038E	5810 03D4 E340 3028 0004	0000000		3744+ENADEV 3745+	L \$L	1,FIND0008 4,IOCBSIB	REG=4 Locate where the SCHIB is to be stored
0000038E 00000394		0000000		3744+ENADEV 3745+ 3746+	L \$L USING	1,FIND0008 4,IOCBSIB SCHIB,4	Locate where the SCHIB is to be stored
0000038E 00000394 00000394	E340 3028 0004	0000000	00000028	3744+ENADEV 3745+ 3746+ 3747+FINL0008	L \$L USING DS	1,FIND0008 4,IOCBSIB SCHIB,4 OH Retrieve Subo	Locate where the SCHIB is to be stored channel Information Block for desired device number
0000038E 00000394 00000394	E340 3028 0004 B234 4000	00000000	00000028	3744+ENADEV 3745+ 3746+ 3747+FINL0008 3748+	L \$L USING DS STSCH	1,FIND0008 4,IOCBSIB SCHIB,4 OH Retrieve Subo	Locate where the SCHIB is to be stored channel Information Block for desired device numbers of the SCHIB for first subchannel
0000038E 00000394 00000394 00000398	E340 3028 0004 B234 4000 A774 FFA4	0000000	00000028 00000000 000002E0	3744+ENADEV 3745+ 3746+ 3747+FINL0008 3748+ 3749+	L \$L USING DS STSCH \$BC	1,FIND0008 4,IOCBSIB SCHIB,4 OH Retrieve Subo 0(4) B'0111',FAILDEV	Locate where the SCHIB is to be stored channel Information Block for desired device number Store the SCHIB for first subchannel Subchannel does not exist and device number not
0000038E 00000394 00000394 00000394 00000398	B234 4000 A774 FFA4 9101 4005	0000000	00000028 00000000 000002E0 00000005	3744+ENADEV 3745+ 3746+ 3747+FINL0008 3748+ 3749+ 3750+	L \$L USING DS STSCH \$BC TM	1,FIND0008 4,IOCBSIB SCHIB,4 0H Retrieve Subo 0(4) B'0111',FAILDEV PMCW1_8,PMCWV	Locate where the SCHIB is to be stored channel Information Block for desired device number Store the SCHIB for first subchannel Subchannel does not exist and device number not Is the subchannel device number valid?
0000038E 00000394 00000394 00000398 0000039C	B234 4000 A774 FFA4 9101 4005 A784 0011		00000028 00000000 000002E0 00000005 000003C2	3744+ENADEV 3745+ 3746+ 3747+FINL0008 3748+ 3749+ 3750+ 3751+	L \$L USING DS STSCH \$BC TM \$BZ	1,FIND0008 4,IOCBSIB SCHIB,4 0H Retrieve Subo 0(4) B'0111',FAILDEV PMCW1_8,PMCWV FINN0008	Locate where the SCHIB is to be stored channel Information Block for desired device number store the SCHIB for first subchannel Subchannel does not exist and device number not Is the subchannel device number valid?No, check the next subchannel
0000038E 00000394 00000394 00000398 0000039C 000003A0	B234 4000 A774 FFA4 9101 4005 A784 0011 D501 4006 3004	00000000	00000028 00000000 000002E0 00000005 0000003C2 00000004	3744+ENADEV 3745+ 3746+ 3747+FINL0008 3748+ 3749+ 3750+ 3751+ 3752+	L \$L USING DS STSCH \$BC TM \$BZ CLC	1,FIND0008 4,IOCBSIB SCHIB,4 0H Retrieve Subo 0(4) B'0111',FAILDEV PMCW1_8,PMCWV FINN0008 PMCWDNUM,IOCBDEV	Locate where the SCHIB is to be stored channel Information Block for desired device number store the SCHIB for first subchannel Subchannel does not exist and device number not Is the subchannel device number valid? No, check the next subchannel Is this the device number being sought?
0000038E 00000394 00000394 00000398 0000039C 000003A0	B234 4000 A774 FFA4 9101 4005 A784 0011 D501 4006 3004		00000028 00000000 000002E0 00000005 000003C2	3744+ENADEV 3745+ 3746+ 3747+FINL0008 3748+ 3749+ 3750+ 3751+ 3752+ 3753+	L \$L USING DS STSCH \$BC TM \$BZ CLC \$BNE	1,FIND0008 4,IOCBSIB SCHIB,4 0H Retrieve Subo 0(4) B'0111',FAILDEV PMCW1_8,PMCWV FINN0008 PMCWDNUM,IOCBDEV FINN0008	Locate where the SCHIB is to be stored channel Information Block for desired device number store the SCHIB for first subchannel Subchannel does not exist and device number not Is the subchannel device number valid?No, check the next subchannel
0000038E 00000394 00000394 00000398 0000039C 000003A0 000003A4	B234 4000 A774 FFA4 9101 4005 A784 0011 D501 4006 3004 A774 000C		00000028 00000000 000002E0 00000005 000003C2 00000004 000003C2	3744+ENADEV 3745+ 3746+ 3747+FINL0008 3748+ 3749+ 3750+ 3751+ 3752+ 3753+ 3754+* Subchar	L \$L USING DS STSCH \$BC TM \$BZ CLC \$BNE nnel f	1,FIND0008 4,IOCBSIB SCHIB,4 0H Retrieve Subo 0(4) B'0111',FAILDEV PMCW1_8,PMCWV FINN0008 PMCWDNUM,IOCBDEV FINN0008 ound!	Locate where the SCHIB is to be stored channel Information Block for desired device number the SCHIB for first subchannel Subchannel does not exist and device number not Is the subchannel device number valid? No, check the next subchannel Is this the device number being sought? No, check the next subchannel
0000038E 00000394 00000394 00000398 0000039C 000003A0 000003A4	E340 3028 0004 B234 4000 A774 FFA4 9101 4005 A784 0011 D501 4006 3004 A774 000C		00000028 00000000 000002E0 00000005 000003C2 00000004 000000000	3744+ENADEV 3745+ 3746+ 3747+FINL0008 3748+ 3749+ 3750+ 3751+ 3752+ 3753+ 3754+* Subchal	L \$L USING DS STSCH \$BC TM \$BZ CLC \$BNE nnel f ST	1,FIND0008 4,IOCBSIB SCHIB,4 0H Retrieve Subo 0(4) B'0111',FAILDEV PMCW1_8,PMCWV FINN0008 PMCWDNUM,IOCBDEV FINN0008 ound! 1,IOCBDID	Locate where the SCHIB is to be stored channel Information Block for desired device numb Store the SCHIB for first subchannel Subchannel does not exist and device number not Is the subchannel device number valid? No, check the next subchannel Is this the device number being sought? No, check the next subchannel Remember the subchannel so I/O can be done to
0000038E 00000394 00000394 00000398 0000039C 000003A0 000003A4 000003AA	E340 3028 0004 B234 4000 A774 FFA4 9101 4005 A784 0011 D501 4006 3004 A774 000C 5010 3000 9680 4005		00000028 00000000 000002E0 00000005 000003C2 00000004 000000000	3744+ENADEV 3745+ 3746+ 3747+FINL0008 3748+ 3749+ 3750+ 3751+ 3752+ 3753+ 3754+* Subchar 3755+ 3756+	L \$L USING DS STSCH \$BC TM \$BZ CLC \$BNE nnel f ST OI	1,FIND0008 4,IOCBSIB SCHIB,4 0H Retrieve Subo 0(4) B'0111',FAILDEV PMCW1_8,PMCWV FINN0008 PMCWDNUM,IOCBDEV FINN0008 ound! 1,IOCBDID PMCW1_8,PMCWE	Locate where the SCHIB is to be stored channel Information Block for desired device number the SCHIB for first subchannel Subchannel does not exist and device number not Is the subchannel device number valid? No, check the next subchannel Is this the device number being sought? No, check the next subchannel Remember the subchannel so I/O can be done to Make sure it is enabled so I/O requests accepted.
0000038E 00000394 00000394 00000398 0000039C 000003AA 000003AA 000003AA	B234 4000 A774 FFA4 9101 4005 A784 0011 D501 4006 3004 A774 000C 5010 3000 9680 4005 B232 4000		00000028 00000000 000002E0 00000005 00000004 000000000 000000000 00000000	3744+ENADEV 3745+ 3746+ 3747+FINL0008 3748+ 3750+ 3751+ 3752+ 3752+ 3753+ 3755+ 3755+ 3756+ 3757+	L \$L USING DS STSCH \$BC TM \$BZ CLC \$BNE nnel f ST OI MSCH	1,FIND0008 4,IOCBSIB SCHIB,4 0H Retrieve Subo 0(4) B'0111',FAILDEV PMCW1_8,PMCWV FINN0008 PMCWDNUM,IOCBDEV FINN0008 ound! 1,IOCBDID PMCW1_8,PMCWE 0(4)	Locate where the SCHIB is to be stored channel Information Block for desired device number the SCHIB for first subchannel Subchannel does not exist and device number not is the subchannel device number valid? No, check the next subchannel Is this the device number being sought? No, check the next subchannel Remember the subchannel so I/O can be done to make sure it is enabled so I/O requests accepted the subchannel to the channel sub-system.
0000038E 00000394 00000394 00000398 0000039C 000003A0 000003A4 000003AA	B234 4000 A774 FFA4 9101 4005 A784 0011 D501 4006 3004 A774 000C 5010 3000 9680 4005 B232 4000 A784 0011		00000028 00000000 000002E0 00000005 00000004 00000003C2 000000000 000000005	3744+ENADEV 3745+ 3746+ 3747+FINL0008 3748+ 3750+ 3751+ 3752+ 3752+ 3753+ 3755+ 3755+ 3756+ 3757+	L \$L USING DS STSCH \$BC TM \$BZ CLC \$BNE nnel f ST OI	1,FIND0008 4,IOCBSIB SCHIB,4 0H Retrieve Subo 0(4) B'0111',FAILDEV PMCW1_8,PMCWV FINN0008 PMCWDNUM,IOCBDEV FINN0008 ound! 1,IOCBDID PMCW1_8,PMCWE	Locate where the SCHIB is to be stored channel Information Block for desired device number the SCHIB for first subchannel Subchannel does not exist and device number not Is the subchannel device number valid? No, check the next subchannel Is this the device number being sought? No, check the next subchannel Remember the subchannel so I/O can be done to Make sure it is enabled so I/O requests accepted Enable the subchannel to the channel sub-system CCO (SCHIB updated), device is ready.
000038E 0000394 0000394 0000398 000039C 00003A0 00003A4 00003AA	B234 4000 A774 FFA4 9101 4005 A784 0011 D501 4006 3004 A774 000C 5010 3000 9680 4005 B232 4000 A784 0011		00000028 00000000 000002E0 00000005 00000004 000003C2 00000000 000000000 000000000 000000	3744+ENADEV 3745+ 3746+ 3747+FINL0008 3748+ 3750+ 3751+ 3752+ 3753+ 3754+* Subchar 3755+ 3756+ 3757+ 3758+	L \$L USING DS STSCH \$BC TM \$BZ CLC \$BNE nnel f ST OI MSCH \$BC \$B	1,FIND0008 4,IOCBSIB SCHIB,4 0H Retrieve Subo 0(4) B'0111',FAILDEV PMCW1_8,PMCWV FINN0008 PMCWDNUM,IOCBDEV FINN0008 ound! 1,IOCBDID PMCW1_8,PMCWE 0(4) B'1000',ENAOKAY FAILDEV	Locate where the SCHIB is to be stored channel Information Block for desired device number the SCHIB for first subchannel Subchannel does not exist and device number not Is the subchannel device number valid? No, check the next subchannel Is this the device number being sought? No, check the next subchannel Remember the subchannel so I/O can be done to make sure it is enabled so I/O requests accepted Enable the subchannel to the channel sub-system CCO (SCHIB updated), device is ready. CC1,CC2,CC3 (SCHIB update failed), quit
0000038E 00000394 00000394 00000398 0000039C 000003A0 000003A4 000003AA 000003BE 000003BE 000003C2	E340 3028 0004 B234 4000 A774 FFA4 9101 4005 A784 0011 D501 4006 3004 A774 000C 5010 3000 9680 4005 B232 4000 A784 0011 A7F4 FF91		00000028 00000000 000002E0 00000005 00000004 000003C2 00000000 000000000 000000000 000000	3744+ENADEV 3745+ 3746+ 3747+FINL0008 3748+ 3750+ 3751+ 3752+ 3752+ 3753+ 3754+* Subchar 3755+ 3756+ 3756+ 3758+ 3758+ 3759+ 3760+FINN0008	L \$L USING DS STSCH \$BC TM \$BZ CLC \$BNE nnel f ST OI MSCH \$BC \$B	1,FIND0008 4,IOCBSIB SCHIB,4 0H Retrieve Subo 0(4) B'0111',FAILDEV PMCW1_8,PMCWV FINN0008 PMCWDNUM,IOCBDEV FINN0008 ound! 1,IOCBDID PMCW1_8,PMCWE 0(4) B'1000',ENAOKAY FAILDEV 0H Advance to nex	Locate where the SCHIB is to be stored channel Information Block for desired device number the SCHIB for first subchannel Subchannel does not exist and device number not is the subchannel device number valid?No, check the next subchannel Is this the device number being sought?No, check the next subchannel Remember the subchannel so I/O can be done to make sure it is enabled so I/O requests accepted Enable the subchannel to the channel sub-system CCO (SCHIB updated), device is ready. CC1,CC2,CC3 (SCHIB update failed), quit ext subchannel
000038E 0000394 0000394 0000398 0000398 00003A0 00003A4 00003A4 00003A6 00003B6 00003B6 00003B6	E340 3028 0004 B234 4000 A774 FFA4 9101 4005 A784 0011 D501 4006 3004 A774 000C 5010 3000 9680 4005 B232 4000 A784 0011 A7F4 FF91		00000028 00000000 000002E0 0000003C2 00000000 00000000 00000000 00000000 0000	3744+ENADEV 3745+ 3746+ 3747+FINL0008 3748+ 3750+ 3751+ 3752+ 3752+ 3753+ 3754+* Subchar 3755+ 3756+ 3756+ 3758+ 3758+ 3759+ 3760+FINN0008	L \$L USING DS STSCH \$BC TM \$BZ CLC \$BNE nnel f ST OI MSCH \$BC \$B DS LA	1,FIND0008 4,IOCBSIB SCHIB,4 0H Retrieve Subo 0(4) B'0111',FAILDEV PMCW1_8,PMCWV FINN0008 PMCWDNUM,IOCBDEV FINN0008 ound! 1,IOCBDID PMCW1_8,PMCWE 0(4) B'1000',ENAOKAY FAILDEV 0H Advance to nex	Locate where the SCHIB is to be stored channel Information Block for desired device number the SCHIB for first subchannel Subchannel does not exist and device number not is the subchannel device number valid?No, check the next subchannel Is this the device number being sought?No, check the next subchannel Remember the subchannel so I/O can be done to make sure it is enabled so I/O requests accepted and the subchannel to the channel sub-system CCO (SCHIB updated), device is ready. CC1,CC2,CC3 (SCHIB update failed), quit subchannel Advance to next subchannel
000038E 0000394 0000394 0000398 0000390 00003A0 00003A4 00003A4 00003B2 00003B6 00003B6 00003B6 00003B6	E340 3028 0004 B234 4000 A774 FFA4 9101 4005 A784 0011 D501 4006 3004 A774 000C 5010 3000 9680 4005 B232 4000 A784 0011 A7F4 FF91 4110 1001		00000028 00000000 000002E0 0000003C2 00000000 00000000 00000000 00000000 0000	3744+ENADEV 3745+ 3746+ 3747+FINL0008 3748+ 3750+ 3751+ 3752+ 3752+ 3753+ 3754+* Subchal 3755+ 3756+ 3756+ 3757+ 3758+ 3760+FINN0008 3761+	L \$L USING DS STSCH \$BC TM \$BZ CLC \$BNE nnel f ST OI MSCH \$BC \$B DS	1,FIND0008 4,IOCBSIB SCHIB,4 0H Retrieve Subo 0(4) B'0111',FAILDEV PMCW1_8,PMCWV FINN0008 PMCWDNUM,IOCBDEV FINN0008 ound! 1,IOCBDID PMCW1_8,PMCWE 0(4) B'1000',ENAOKAY FAILDEV 0H Advance to nex 1,1(0,1) 1,FINM0008	Locate where the SCHIB is to be stored channel Information Block for desired device number the SCHIB for first subchannel Subchannel does not exist and device number not is the subchannel device number valid?No, check the next subchannel Is this the device number being sought?No, check the next subchannel Remember the subchannel so I/O can be done to make sure it is enabled so I/O requests accepted and the subchannel to the channel sub-system CCO (SCHIB updated), device is ready. CC1,CC2,CC3 (SCHIB update failed), quit subchannel Advance to next subchannel Beyond maximum subchannel
0000038E 00000394 00000394 00000398 0000039C 000003AA 000003AA 000003AA	E340 3028 0004 B234 4000 A774 FFA4 9101 4005 A784 0011 D501 4006 3004 A774 000C 5010 3000 9680 4005 B232 4000 A784 0011 A7F4 FF91 4110 1001 5510 03D8		00000028 00000000 000002E0 0000005 0000004 000003C2 00000000 0000005 00000000 0000005 000000	3744+ENADEV 3745+ 3746+ 3747+FINL0008 3748+ 3750+ 3751+ 3752+ 3753+ 3754+* Subchal 3755+ 3756+ 3757+ 3758+ 3759+ 3760+FINN0008 3761+ 3762+	L \$L USING DS STSCH \$BC TM \$BZ CLC \$BNE nnel f ST OI MSCH \$BC \$B DS LA CL	1,FIND0008 4,IOCBSIB SCHIB,4 0H Retrieve Subo 0(4) B'0111',FAILDEV PMCW1_8,PMCWV FINN0008 PMCWDNUM,IOCBDEV FINN0008 ound! 1,IOCBDID PMCW1_8,PMCWE 0(4) B'1000',ENAOKAY FAILDEV 0H Advance to nex 1,1(0,1) 1,FINM0008	Locate where the SCHIB is to be stored channel Information Block for desired device number the SCHIB for first subchannel Subchannel does not exist and device number not is the subchannel device number valid?No, check the next subchannel Is this the device number being sought?No, check the next subchannel Remember the subchannel so I/O can be done to make sure it is enabled so I/O requests accepted and the subchannel to the channel sub-system CCO (SCHIB updated), device is ready. CC1,CC2,CC3 (SCHIB update failed), quit subchannel Advance to next subchannel
0000038E 00000394 00000394 00000398 000003A0 000003A0 000003AA 000003AB 000003BB 000003BB 000003BB 000003BB 000003C2 000003C2	E340 3028 0004 B234 4000 A774 FFA4 9101 4005 A784 0011 D501 4006 3004 A774 000C 5010 3000 9680 4005 B232 4000 A784 0011 A7F4 FF91 4110 1001 5510 03D8 A7D4 FFE5		00000028 00000000 000002E0 0000005 0000004 000003C2 00000000 0000005 00000000 0000005 000000	3744+ENADEV 3745+ 3746+ 3747+FINL0008 3748+ 3750+ 3751+ 3752+ 3753+ 3754+* Subchal 3755+ 3756+ 3756+ 3757+ 3758+ 3760+FINN0008 3761+ 3762+ 3763+	L \$L USING DS STSCH \$BC TM \$BZ CLC \$BNE nnel f ST OI MSCH \$BC \$B DS LA CL \$BNH	1,FIND0008 4,IOCBSIB SCHIB,4 0H Retrieve Subo 0(4) B'0111',FAILDEV PMCW1_8,PMCWV FINN0008 PMCWDNUM,IOCBDEV FINN0008 ound! 1,IOCBDID PMCW1_8,PMCWE 0(4) B'1000',ENAOKAY FAILDEV 0H Advance to nex 1,1(0,1) 1,FINM0008 FINL0008	Locate where the SCHIB is to be stored channel Information Block for desired device numl Store the SCHIB for first subchannel Subchannel does not exist and device number not Is the subchannel device number valid? No, check the next subchannel Is this the device number being sought? No, check the next subchannel Remember the subchannel so I/O can be done to Make sure it is enabled so I/O requests accepted Enable the subchannel to the channel sub-system CCO (SCHIB updated), device is ready. CC1,CC2,CC3 (SCHIB update failed), quit xt subchannel Advance to next subchannel Beyond maximum subchannel No, examine the next subchannel
0000038E 00000394 00000394 00000398 000003A0 000003A0 000003A4 000003AA 000003B2 000003B6 000003B6 000003B6 000003C2 000003C2	E340 3028 0004 B234 4000 A774 FFA4 9101 4005 A784 0011 D501 4006 3004 A774 000C 5010 3000 9680 4005 B232 4000 A784 0011 A7F4 FF91 4110 1001 5510 03D8 A7D4 FFE5 A724 FF89		00000028 00000000 000002E0 0000005 0000004 000003C2 00000000 0000005 00000000 0000005 000000	3744+ENADEV 3745+ 3746+ 3747+FINL0008 3748+ 3750+ 3751+ 3752+ 3753+ 3754+* Subchar 3756+ 3756+ 3756+ 3756+ 3759+ 3760+FINN0008 3761+ 3762+ 3763+ 3764+	L \$L USING DS STSCH \$BC TM \$BZ CLC \$BNE nnel f ST OI MSCH \$BC \$B DS LA CL \$BNH \$BH DROP	1,FIND0008 4,IOCBSIB SCHIB,4 0H Retrieve Subo 0(4) B'0111',FAILDEV PMCW1_8,PMCWV FINN0008 PMCWDNUM,IOCBDEV FINN0008 ound! 1,IOCBDID PMCW1_8,PMCWE 0(4) B'1000',ENAOKAY FAILDEV 0H Advance to nex 1,1(0,1) 1,FINM0008 FINL0008 FAILDEV	Channel Information Block for desired device number the SCHIB for first subchannel Subchannel does not exist and device number not Is the subchannel device number valid? No, check the next subchannel Is this the device number being sought? No, check the next subchannel Remember the subchannel so I/O can be done to Make sure it is enabled so I/O requests accepted Enable the subchannel to the channel sub-system CCO (SCHIB updated), device is ready. CC1,CC2,CC3 (SCHIB update failed), quit xt subchannel Advance to next subchannel Beyond maximum subchannel No, examine the next subchannel Yes, failed to enable the device
0000038E 00000394 00000394 00000394 00000396 000003A0 000003A0 000003A0 000003A0 000003A0 000003A0 000003A0 000003A0 000003A0 000003A0	E340 3028 0004 B234 4000 A774 FFA4 9101 4005 A784 0011 D501 4006 3004 A774 000C 5010 3000 9680 4005 B232 4000 A784 0011 A7F4 FF91 4110 1001 5510 03D8 A7D4 FFE5 A724 FF89		00000028 00000000 000002E0 0000005 0000004 000003C2 00000000 0000005 00000000 0000005 000000	3744+ENADEV 3745+ 3746+ 3747+FINL0008 3748+ 3750+ 3751+ 3752+ 3753+ 3754+* Subchar 3755+ 3756+ 3757+ 3758+ 3759+ 3760+FINN0008 3761+ 3762+ 3763+ 3764+ 3765+	L \$L USING DS STSCH \$BC TM \$BZ CLC \$BNE nnel f ST OI MSCH \$BC \$B DS LA CL \$BNH \$BH DROP DC	1,FIND0008 4,IOCBSIB SCHIB,4 0H Retrieve Subo 0(4) B'0111',FAILDEV PMCW1_8,PMCWV FINN0008 PMCWDNUM,IOCBDEV FINN0008 ound! 1,IOCBDID PMCW1_8,PMCWE 0(4) B'1000',ENAOKAY FAILDEV 0H Advance to nex 1,1(0,1) 1,FINM0008 FINL0008 FAILDEV 4	channel Information Block for desired device number the SCHIB for first subchannel Subchannel does not exist and device number not Is the subchannel device number valid? .No, check the next subchannel Is this the device number being sought? .No, check the next subchannel Remember the subchannel so I/O can be done to Make sure it is enabled so I/O requests accepted Enable the subchannel to the channel sub-system CCO (SCHIB updated), device is ready. CC1,CC2,CC3 (SCHIB update failed), quit xt subchannel Advance to next subchannel Beyond maximum subchannel .No, examine the next subchannel .Yes, failed to enable the device Forget SCHIB addressing
0000038E 00000394 00000394 00000398 000003A0 000003A0 000003A4 000003A6 000003B6 000003B6 000003B6 000003C2 000003C2 000003C2	E340 3028 0004 B234 4000 A774 FFA4 9101 4005 A784 0011 D501 4006 3004 A774 000C 5010 3000 9680 4005 B232 4000 A784 0011 A7F4 FF91 4110 1001 5510 03D8 A7D4 FFE5 A724 FF89 00010000 0001FFFF		00000028 00000000 000002E0 0000005 0000004 000003C2 00000000 0000005 00000000 0000005 000000	3744+ENADEV 3745+ 3746+ 3747+FINL0008 3748+ 3750+ 3751+ 3752+ 3753+ 3754+* Subchar 3755+ 3756+ 3756+ 3757+ 3758+ 3759+ 3760+FINN0008 3761+ 3762+ 3763+ 3764+ 3765+ 3766+FIND0008	L \$L USING DS STSCH \$BC TM \$BZ CLC \$BNE nnel f ST OI MSCH \$BC \$B DS LA CL \$BNH \$BH DROP DC DC	1,FIND0008 4,IOCBSIB SCHIB,4 0H Retrieve Subo 0(4) B'0111',FAILDEV PMCW1_8,PMCWV FINN0008 PMCWDNUM,IOCBDEV FINN0008 ound! 1,IOCBDID PMCW1_8,PMCWE 0(4) B'1000',ENAOKAY FAILDEV 0H Advance to nex 1,1(0,1) 1,FINM0008 FINL0008 FAILDEV 4 A(X'00010000')	channel Information Block for desired device number the SCHIB for first subchannel Subchannel does not exist and device number not Is the subchannel device number valid? No, check the next subchannel Is this the device number being sought? No, check the next subchannel Remember the subchannel so I/O can be done to make sure it is enabled so I/O requests accepted Enable the subchannel to the channel sub-system CCO (SCHIB updated), device is ready. CC1,CC2,CC3 (SCHIB update failed), quit at subchannel Advance to next subchannel Advance to next subchannel .No, examine the next subchannel Yes, failed to enable the device Forget SCHIB addressing First subchannel subsystem ID

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LOC	OBJECT CODE	ADDR1	ADDR2	STMT			
				3771 ******	*****	********	********
				3772 *	Execu	te the channel program	n pointed to by R0
				3773 ******	*****	********	n pointed to by R0 ************************************
000000	4100 0650		00000650	277F DOCENCE		DO CENCEDOM	DO . Dood CENCE Champal Ducaman
00003DE	4100 06F8		000006F8	3775 DOSENSE		RØ, SENSEPGM	R0 -> Read SENSE Channel Program
000003E2	5000 8008		0000000	3776 EXCP	ST	RØ,ORBCCW	Plug Channel Program into IORB
000003E6	B904 0004		0000000	3777	LGR	RO,R4	Save SCHIB pointer
000003EA	9282 8005		00000005		MVI	ORB1_8,ORBF+ORBH	Format-1 CCWs, Format-2 IDAWs
00003EE	9200 8007		00000007	5779	MVI	ORRB1_24,0	Set all these ORB flags to zero
				3781	RAWIO	4,FAIL=FAILIO	
000003F2	9200 300E		000000E			IOCBSC,X'00'	Clear SC information
000003F6	D201 300A 3006	000000A	00000006		MVC	IOCBST, IOCBZERO	Clear accumulated status
00003FC	5810 3000		00000000		L	1,IOCBDID	Remember the device ID with which I am wor
						channel-based input/ou	
00000400	E340 3018 0004		00000018		\$L	4,IOCBORB	Locate the ORB for the channel subsystem
00000406			00000000		SSCH	0(4)	Initiate the I/O operation
000040A	A774 FF6F		000002E8		\$BC	B'0111',FAILIO	Start function failed, report/handle the
000040E	E340 3020 0004		00000020		\$L	4,IOCBIRB	Locate the IRB storage area
00000414		00000000		3790+	USING	IRB,4	Make it addressable
				3792+* Wait f	or I/O	operation to present	status via an interruption
0000414				3793+I0WT0009		OH Wait for I/O to	
00000414	D20F 0448 01F0	00000448	000001F0	3795+	MVC	IOS0010(16),496(0)	Save Input/Output new PSW
0000041A	D20F 01F0 0438		00000438		MVC	496(16,0),ÍON0010	Establish Input/Ouput new PSW
00000420	B2B2 0428		00000428			WPSW0010	Wait for event
00000428	02020000 00000000			3798+WPSW0010	PSW	2,0,2,0,0	Wait for event
00000438	00002000 00000000			3799+ION0010		0,0,0,32,IRST0010,24	I/O New PSW: cc==2
00000448	0000000 00000000			3800+IOS0010		XL16'00'	
						/output interruption	
00000458				3802+IRST0010		0H	
00000458	D20F 01F0 0448	000001F0	00000448	3803+	MVC	496(16,0),IOS0010	Restore input/output new PSW
						interruption	
200001	5540 0000		0000000			erruption is for the	
			000000B8	3806+	CL	1,IOSSID	Is this the device for which I am waiting?
00000462	A774 FFD9		00000414	3807+		IOWT0009	No, continue waiting for it
00000466	D225 4000		00000000			nterruption information	
00000466	B235 4000		00000000	3809+	TSCH		Retrive interrupt information
0000046A	A744 FFD5		00000414	3810+	\$BC	B'0100',IOWT0009	CC1 (not status pending), wait for it to a
0000046E	A714 FF3D		000002E8	3811+ 2012	\$BC	B'0001',FAILIO	CC3 (not operational), an error then
20000472	D600 200E 4002	0000000E	0000000	3812+*	00	TOCACC TABCCCMICCCM	CCO (status was pending), accumulate the s Accumulate status control
00000472 00000478	D600 300E 4003 D601 300A 4008	0000000A	00000003 00000008	3813+ 3814+	0C 0C		Accumulate status control Accumulate device and channel status
00000478 0000047E	9104 300E	ADDODDOD	0000000E		TM		Primary subchannel status?
0000047E	A7E4 FFC9		00000414	3816+	\$BNO	IOCBSC,SCSWSPRI IOWT0009	
00000482 00000486	D203 3010 4004	00000010		3817+	∌BNU MVC	IOCBSCCW, IRBSCSW+SCSV	No, wait for primary status
00000486 0000048C		00000016	00000004 0000000A		MVC	IOCBSCCW, IRBSCSW+SCSW	
55555466	D201 3010 400A	99999910	AGGGGGG			ors as specified in th	
99999492	910C 300A		000000A		TM	IOCBUS, CSWCE+CSWDE	Channel end and device end both accumulate
30000432			0000000A	3821+	\$BNO	FAILIO	Hunh? No CE and DE but do have primary sta
20000106	M/LT LJ		JUUUUZLO			operation successful	maini: No ce and be but do have primary sta
00000496				3822+" INDUL/	Outbut		
				·	·	•	
00000496 0000049A 0000049E	B904 0040 07FF			3824 3825	LGR BR	R4,R0 R15	Restore SCHIB pointer Return to caller

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LOC	OBJECT CODE	ADDR1	ADDR2	STMT			
				3828 *	Issue	HERCULES MESSAGE poin	**************************************
000004A0	4900 06F4		000006F4	3831 MSG	СН	R0,=H'0'	Do we even HAVE a message?
000004A4	07DE			3832	BNHR	R14	No, ignore
000004A6	9002 04D8		000004D8	3834	STM	R0,R2,MSGSAVE	Save registers
	4900 06F6 47D0 04B6 4100 0080		000006F6 000004B6 00000080	3836 3837 3838	CH BNH LA	R0,=AL2(L'MSGMSG) MSGOK R0,L'MSGMSG	Message length within limits? Yes, continue No, set to maximum
000004B6	1820			3840 MSGOK	LR	R2,R0	Copy length to work register
000004B8	0620 4420 04E4		000004E4	3841 3842		R2,0 R2,MSGMVC	Minus-1 for execute Copy message to O/P buffer
	4120 200A 4110 04EA		0000000A 000004EA	3844 3845	LA LA	R2,1+L'MSGCMD(,R2) R1,MSGCMD	Calculate true command length Point to true command
	83120008 4780 04D0 0000		000004D0	3847 3848 3849	DC BZ DC	X'83',X'12',X'0008' MSGRET H'0'	Issue Hercules Diagnose X'008' Return if successful CRASH for debugging purposes
000004D0 000004D4	9802 04D8 07FE		000004D8	3851 MSGRET 3852	LM BR	R0,R2,MSGSAVE R14	Restore registers Return to caller
000004D8 000004E4	00000000 00000000 D200 04F3 1000	000004F3	00000000	3854 MSGSAVE 3855 MSGMVC	DC MVC	3F'0' MSGMSG(0),0(R1)	Registers save area Executed instruction
000004EA 000004F3	D4E2C7D5 D6C8405C 40404040 40404040			3857 MSGCMD 3858 MSGMSG	DC DC	C'MSGNOH * ' CL128' '	*** HERCULES MESSAGE COMMAND *** The message text to be displayed

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LOC	OBJECT CODE	ADDR1	ADDR2	STMT						
				3895	*			WORKING STO	**************************************	
				3896	****	****	*****	*****	***********	
		00000040				EQU	X'40'		Chain Command	
		00000020 00000004	00000001 00000001			EQU EQU	X'20' X'04'		Suppress Incorrect Length Indication Indirect Data Addressing	
		00000004 00000005 00000006 00000007	00000001 00000001 00000001 00000001		WD RD	EQU EQU EQU EQU	X'04' X'05' X'06' X'07'		Basic Sense Write Data Read Data Seek to BBCCHH	
		00000008 0000003E 00000047	00000001	3907 3908	RSD LR	EQU EQU	X'08' X'3E' X'47'		Transfer in Channel Read Subsystem Data Locate Record	
		00000063 00000031 00000086	00000001	3909 3910 3911	SIDEQ	EQU EQU EQU	X'63' X'31' X'86'		Define Extent Search ID Equal Read Data Multi-track	
		00000092 000000E7				EQU EQU	X'92' X'E7'		Read Count Multi-track Prefix	
000610	00000618 0000000B			3915	ATESTTAB	DC	A(TESTT	AB, NUMTESTS) Address of testtab & Number of tests	
		00000200	00000001	3917 3918	TESTNUM *	EQU	X'200'		Current test number (if failure, identifies which test failed)	

LOC	ASMA Ver.	0.7.0		Variou	s CKD Dasd CCW	l tests	23 Feb 2024 10:04:22 Page 13	j
3921 * TESTS CONTROL TABLE 3922 PRINT DATA 3924 PRINT DATA 3924 PRINT DATA 3924 PRINT DATA 3926 TESTIAB DC 0A(0) 000000000 0000000000000000000000	LOC	OBJECT CODE	ADDR1	ADDR2	STMT			
00000018 00000018 00000019 00000019 00000019 000000019					3921 *		TESTS CONTROL TABLE	
00000618 00000000 00000000 000000000 000000000					3924	PRINT	DATA	
00000618 00000000 00000000 000000000 000000000	00000619				2026 TECTTAD	DC	01/01	
00000628 0000000 0000001 0000001 3929 TESTLEN EQU (*-TESTTAB) Width of each test table entry 0000062C 0000002 000007A8 00000005 00000055 00000005 00000055 000000	00000018					DC		
00000014 0000001 3929 TESTLEN EQU	00000620	00000000 0000003E			3928	DC	A(X'01',T1_CHPGM,0,T1_MSGLN,T1_DESC)	
B0800634 B0800806 B0800805 B0800805 B0800805 B0800805 B0800806 B0800805 B0800806 B0800805 B0800805			00000014	00000001	3929 TESTLEN	EQU	(*-TESTTAB) Width of each test table entry	
00000640 00000031 000000828 3932 DC A(X'03',T3_CHPGM,0,T3_MSGLN,T3_DESC) 00000650 00000650 00000650 000000650 00000650	00000634	00000000 00000055			3931	DC	A(X'02',T2_CHPGM,0,T2_MSGLN,T2_DESC)	
00000648 00000000 000000057 00000654 000000000 000000656 000000000 000000656 000000000 000000664 000000000 000000664 000000000 000000669 0000000000000000000					3932	DC	A(X'03',T3 CHPGM,0,T3 MSGLN,T3 DESC)	
00000654 00000084 00000086 00000086 00000086 00000086 00000086 00000086 00000086 00000086 00000088 00000088 00000086 000000086 00000086	00000648	00000000 00000057						
00000664 0000008 0000008 0000008 0000008 0000008 0000008 0000008 0000008 0000008 0000008 0000008 0000008 0000008 0000008 0000008 0000008 0000008 00000008 0000008 0000008 0000008 0000008 0000008 0000008 0000008 0000008 0000009 0000008 0000009 0000008 0000009 0000008 0000009 0000008 0000009 0000008 0000009 0000008 0000009 0000008 0000009 0000008 0000009 0000008 00000009 0000008 00000009 0000008 00000009 0000008 00000009 0000008 00000009 0000008 00000009 0000008 00000009 0000008 00000009 0000008 00000009 0000008 00000009 0000008 00000009 0000008 00000009 0000008 00000009 0000008 00000009 0000008 00000009 000000009 0000008 00000009 0000008 00000009 0000008 00000009 0000008 00000009 00000009 00000009 00000009 00000000					3933	DC	A(X'04',T4_CHPGM,0,T4_MSGLN,T4_DESC)	
00000658 0000005 00000065 00000065 (1=Expect Error) 00000670 00000061 00000066 00000068 00000068 00000068 00000068 00000068 00000068 00000068 000000068 000000068 000000068 000000068 000000068 00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 000000000 000000000 000000000 0000000000 000000000 000000000 000000000 000000000 000000000 0000000000 00000000000 000000000 000000000 000000000 000000000 0000000000 000000000000 0000000000 0000000000000000 0000000								
0000678 00008C8 0000090 0000000 00000051 00000684 000000051 0000068C 00000088 00000008 000000051 0000068C 00000088 00000000 00000000 000000051 0000068C 00000098 00000000 00000000 00000000 00000000	00000668	00000005 00000938			3934	DC	A(X'05',T5_CHPGM,1,T5_MSGLN,T5_DESC) (1=Expect Error)	
0000067C 0000006 00000960 000000684 00000680 00000680 00000680 00000690 00000051 0000068C 000000958 000000690 00000000 000000690 000000600 000000690 000000690 000000600 000000600 000000600 000000600 000000600 000000600 000000600 000000600 000000600 000000600 000000600 000000600 000000600 000000600 000000600 000000600 000000600 000000600 000000600 000000000 000000000 000000000 000000000 0000000000 0000000000 000000000 0000000000								
000066C 0000000 0000000 00000000 00000000	0000067C	00000006 000009В0			3935	DC	A(X'06',T6_CHPGM,0,T6_MSGLN,T6_DESC)	
00000690 00000007 00000A00 3936 DC A(X'07',T7_CHPGM,0,T7_MSGLN,T7_DESC) 00000690 00000000 0000002F 000006A4 00000000 0000002C 000006AC 00000000 0000002C 000006B4 00000000 00000002C 000006B8 00000000 00000033 000006C0 00000001 00000033 000006C0 00000010 000000000 000006CC 00000010 000000000 000006CC 00000010 00000032 000006CC 00000010 00000032 000006B8 00000000 00000032 000006B9 00000000 00000033 000006B9 00000000 00000033 000006B0 000000000 00000033								
000006A0 00000B0 00000A38 3937 DC A(X'08',T8_CHPGM,0,T8_MSGLN,T8_DESC) 000006B4 000000B0 0000000CC 000006B4 000000B0 000000B0 00000A88 000006C0 00000001 00000033 000006CC 00000010 00000A08 000006CC 00000010 00000A08 000006CC 00000010 00000A08 000006CB 0000000 00000032 000006CB 0000000 00000032 000006CB 0000000 00000032 000006E8 00000A08 000006E8 0000000 0000033 000006E8 0000000 00000033 000006E8 0000000 0000033 000006E8 0000000 0000033 000006E9 00000000 00000033 000006F0 000000BB0	00000690	00000007 00000A00			3936	DC	A(X'07',T7_CHPGM,0,T7_MSGLN,T7_DESC)	
000006AC 0000000 0000002C 000006B8 00000009 00000A88 3938 DC A(X'09',T9_CHPGM,1,T9_MSGLN,T9_DESC) (1=Expect Error) 000006C0 00000001 00000033 000006C0 00000010 00000AE0 3939 DC A(X'10',T10_CHPGM,0,T10_MSGLN,T10_DESC) 000006D4 00000000 0000032 000006C0 000000AB 3940 DC A(X'11',T11_CHPGM,0,T11_MSGLN,T11_DESC) 000006E8 00000000 0000033 000006E8 00000000 00000033 000006F0 00000BB0 3942 PRINT NODATA								
000006B4 0000008 00000009 00000088 3938 DC A(X'09',T9_CHPGM,1,T9_MSGLN,T9_DESC) (1=Expect Error) 000006C0 0000001 00000033 0000006CC 0000001 000000000 00000032 000006CC 00000000 00000032 0000006CC 000000A8 00000000 00000010 00000088 3940 DC A(X'10',T11_CHPGM,0,T11_MSGLN,T11_DESC) 000006E0 00000000 00000033 000006E0 0000008B0 3942 PRINT NODATA					3937	DC	A(X'08',T8_CHPGM,0,T8_MSGLN,T8_DESC)	
000006C0 0000001 00000033 000006CC 0000010 00000AE0 3939 DC A(X'10',T10_CHPGM,0,T10_MSGLN,T10_DESC) 000006DC 000000AE0 0000006E0 00000011 00000BE8 0000006E0 000000BB0 DC A(X'11',T11_CHPGM,0,T11_MSGLN,T11_DESC) 000006F0 00000BB0 3942 PRINT NODATA	000006B4	00000A08						
000006C8 00000A50 000006CC 00000010 00000AE0 3939 DC A(X'10',T10_CHPGM,0,T10_MSGLN,T10_DESC) 000006D4 0000000 0000032 000006E0 00000011 00000BE8 3940 DC A(X'11',T11_CHPGM,0,T11_MSGLN,T11_DESC) 000006E8 00000000 0000033 000006F0 00000BB0 3942 PRINT NODATA					3938	DC	A(X'09',T9_CHPGM,1,T9_MSGLN,T9_DESC) (1=Expect Error)	
000006D4 00000000 00000032 000006DC 00000AA8 000006E0 00000011 00000BE8 3940 DC A(X'11',T11_CHPGM,0,T11_MSGLN,T11_DESC) 000006E8 0000000 00000033 000006F0 00000BB0 3942 PRINT NODATA	000006C8	00000A50					. ()	
000006E0 00000011 00000BE8 3940 DC A(X'11',T11_CHPGM,0,T11_MSGLN,T11_DESC) 000006E8 00000000 00000033 000006F0 00000BB0 3942 PRINT NODATA					3939	DC	A(X'10',110_CHPGM,0,110_MSGLN,110_DESC)	
000006E8 00000000 00000033 000006F0 00000BB0 3942 PRINT NODATA					3940	DC	A/Y'11' T11 CHDGM 0 T11 MSGLN T11 DESC)	
	000006E8	00000000 00000033			3340	БС	A(X II , III_CHPGM, 0, III_MSGLN, III_DESC)	
0000000B 00000001 3944 NUMTESTS EQU (*-TESTTAB)/TESTLEN Number of test table entries					3942	PRINT	NODATA	
			0000000В	00000001	3944 NUMTESTS	S EQU	(*-TESTTAB)/TESTLEN Number of test table entries	
000006F4 0000 3946 LTORG, Literals Pool		0000				LTORG	, Literals Pool	
000006F4 0000 3947 =H'0' 000006F6 0080 3948 =AL2(L'MSGMSG)								

OBJECT CODE	ADDR1	ADDR2	STMT		
			31111		
			3950 ***** 3951 * 3952 *****		**************************************
			3954	DC	0D'0'
04200020 00000CB8			3955 SENSEP	GM DC	AL1(SNS),AL1(SLI),AL2(L'SNSBYTES),AL4(SNSBYTES)
			3957 *****	*****	*************
3C5E2E3 407BF17A					C'TEST #1: Format 2 PFX to obtain subsystem information (no IDA)
	0000003E	00000001			*-T1_DESC 0D'0'
760004C 00000CD8			3962 T1_CHP	GM DC	AL1(PFX),AL1(CC+SLI),AL2(T1_E7LEN),AL4(T1_E7DAT)
E200100 00000D24			3963	DC	AL1(RSD),AL1(SLI),AL2(L'T1_3EBUF),AL4(T1_3EBUF)
			3965 *****	*****	**************
3C5E2E3 407BF27A					C'TEST #2: Format 0 PFX with Define Extent Valid bit off (DX CCW
	00000055	00000001	3968 T2_MSG	LN EQU	*-T2_DESC 0D'0'
7600040 00000E24					AL1(PFX),AL1(CC+SLI),AL2(L'T2_E7DAT),AL4(T2_E7DAT)
3600010 00000E64			3971	DC	AL1(DX),AL1(CC+SLI),AL2(L'T2 63DAT),AL4(T2 63DAT)
17600010 00000E74 0624000A 000007C8			3972 3973	DC	AL1(LR),AL1(CC+SLI),AL2(L'T2_47DAT),AL4(T2_47DAT) AL1(RD),AL1(SLI+IDA),AL2(L'T2_06BUF),AL4(T2_06IDA)
0000000 00000E84					AD(T2_06BUF)
				و علم علم علم علم علم علم علم	
			3976 *****	******	*************
3C5E2E3 407BF37A		22222001			C'TEST #3: Format 0 PFX with Define Extent Valid bit on (DX CCW e
	00000057	00000001		•	*-T3_DESC 0D'0'
7600040 00000E8E			3981 T3_CHP	GM DC	AL1(PFX),AL1(CC+SLI),AL2(L'T3_E7DAT),AL4(T3_E7DAT)
17600010 00000ECE 0624000A 00000840 00000000 00000EDE			3983	DC	AL1(LR),AL1(CC+SLI),AL2(L'T3_47DAT),AL4(T3_47DAT) AL1(RD),AL1(SLI+IDA),AL2(L'T3_06BUF),AL4(T3_06IDA) AD(T3_06BUF)
= 3 = 7 3 = 7 3 = 3 1 = 7 1 = 7 1 = 7	3C5E2E3 407BF17A 760004C 00000CD8 E200100 00000D24 8C5E2E3 407BF27A 7600040 00000E24 8600010 00000E64 7600010 00000E74 8000000 00000E84 8C5E2E3 407BF37A 8C5E2E3 407BF37A 8C5E2E3 407BF37A	3C5E2E3 407BF17A 0000003E 760004C 00000CD8 E200100 00000D24 3C5E2E3 407BF27A 00000055 7600040 00000E24 7600010 00000E74 7600010 00000E84 3C5E2E3 407BF37A 00000057 7600040 00000E8E 7600010 00000EEE 7600010 00000EEE 7600010 00000EEE 7600010 00000EEE 7600010 00000EEE 7600010 00000EEE	3C5E2E3 407BF17A 0000003E 00000001 760004C 00000CD8 E200100 00000D24 3C5E2E3 407BF27A 00000055 00000001 7600040 00000E24 8600010 00000E74 524000A 000007C8 8000000 00000E84 3C5E2E3 407BF37A 00000057 00000001 7600040 00000E8E 7600010 00000ECE 7600010 00000ECE 7600010 00000ECE 7600010 00000ECE 7600010 00000ECE	3957 ****** 3959 T1_DES 3960 T1_MSG 3961 3962 T1_CHP 3963 T1_CHP 3963 T1_CHP 3963 T2_MSG 3961 3965 ****** 3965 ****** 3965 ****** 3965 ****** 3967 T2_DES 3969 3970 7500040 00000E44 3969 3970 7500010 00000E44 3971 3972 3973 3970 T2_CHP 3973 3970 T2_CHP 3973 3970 T2_O6I	3957 ************************************

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LOC	OBJECT CODE	ADDR1	ADDR2	STMT					1
				3986 *********	*********	*******	******	***	
000008A0	E3C5E2E3 407BF47A	00000056	00000001	3988 T4_DESC DC 3989 T4_MSGLN EQU 3990 DC	C'TEST #4: Format 2 PFX *-T4_DESC 0D'0'			`	E7 2
000008A8 000008B0	E764004C 000008B0 3E240100 000008C0 00000000 0000EFD8			3991 T4_CHPGM DC 3992 DC 3993 T4_E7IDA DC	AL1(PFX), AL1(CC+SLI+IDA) AL1(RSD), AL1(SLI+IDA), AL AD(T4_E7DAT_PART1)	,AL2(L'T4_E7DAT),A .2(L'T4_3EBUF),AL4(L4(T4_E7IDA) T4_3EIDA)		
	00000000 0000F000 00000000 00000EE8			3994 DC 3995 T4_3EIDA DC	AD(T4_E7DAT_PART2) AD(T4_3EBUF)				
				3997 *********	**********	·**************	******	* **	
000008C8 00000938	E3C5E2E3 407BF57A	0000006F	00000001	3999 T5_DESC DC 4000 T5_MSGLN EQU 4001 DC	C'TEST #5: Read 06 CCW s *-T5_DESC 0D'0'	should fail since L	R operation	is Read(16	5) ar
0000940 0000948	E7600040 00000FE8 47600010 00001028 0624000A 00000950			4002 T5_CHPGM DC 4003 DC 4004 DC	AL1(PFX),AL1(CC+SLI),AL2 AL1(LR),AL1(CC+SLI),AL2(AL1(RD),AL1(SLI+IDA),AL2	(L'T5_47DAT),AL4(T5	_47DAT)		
00000950	00000000 00001038			4005 T5_06IDA DC	AD(T5_06BUF)				
				4007 *********	*********	*******	*******	***	
0000958 000009B0	E3C5E2E3 407BF67A	00000051	00000001	4009 T6_DESC DC 4010 T6_MSGLN EQU 4011 DC	C'TEST #6: Same as Test *-T6_DESC 0D'0'	#5, but properly u	ses multi-tr	rack Read ((86)
00009B0	E7600040 00001042			4012 T6_CHPGM DC	AL1(PFX),AL1(CC+SLI),AL2				
00009C0	47600010 00001082 8624000A 000009C8 00000000 00001092			4013 DC 4014 DC 4015 T6_86IDA DC	AL1(LR),AL1(CC+SLI),AL2(AL1(RDMT),AL1(SLI+IDA),A AD(T6_86BUF)	(L'T6_47DAT),AL4(T6	_47DAT)		
				<u>-</u>					
				4017 *********	********	·*************	******	* **	
00009D0	E3C5E2E3 407BF77A	0000002F	00000001	4019 T7_DESC DC 4020 T7 MSGLN EQU	C'TEST #7: Peter''s z/VM *-T7 DESC				
0000A00 0000A00	E7200040 0000109C			4021 DC 4022 T7_CHPGM DC	0D'0' AL1(PFX),AL1(SLI),AL2(T7	7_E7LEN),AL4(T7_E7D	AT)		
									1

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Various CKD Dasd CCW tests...
                                                                                                       23 Feb 2024 10:04:22 Page
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                                                                                                                                       16
             OBJECT CODE
                                ADDR1
  LOC
                                          ADDR2
                                                    STMT
80A0000
          E3C5E2E3 407BF87A
                                                    4026 T8 DESC DC
                                                                        C'TEST #8: Write Data erase remainder of track'
                               0000002C 00000001
                                                   4027 T8 MSGLN EQU
                                                                        *-T8 DESC
                                                                        0D'0T
                                                                  DC
00000A38
                                                    4028
                                                    4029 T8 CHPGM DC
00000A38
          63400010 000010DC
                                                                        AL1(DX), AL1(CC), AL2(T8 DXLEN), AL4(T8 DXDAT)
         47400010 000010EC
                                                    4030
                                                                        AL1(LR), AL1(CC), AL2(T8 LRLEN), AL4(T8 LRDAT)
00000A40
                                                                  DC
                                                    4031
                                                                  DC
                                                                        AL1(WD), AL1(0), AL2(T8_WDLEN), AL4(T8_WDDAT)
00000A48
          05000008 000010FC
00000A50 E3C5E2E3 407BF97A
                                                    4035 T9 DESC DC
                                                                        C'TEST #9: Read track 0 rec 3 (verify test #08 erase)'
                               00000033 00000001
                                                   4036 T9_MSGLN EQU
                                                                        *-T9 DESC
                                                                        0D'0T
00000A88
                                                    4037
                                                                  DC
00000A88
          07400006 00001104
                                                    4038 T9 CHPGM DC
                                                                        AL1(SEEK), AL1(CC), AL2(T9 SKLEN), AL4(T9 SKDAT)
00000A90
          31400005 0000110A
                                                    4039 T9 SICCW DC
                                                                        AL1(SIDEQ), AL1(CC), AL2(T9 SILEN), AL4(T9 SIDAT)
                                                                        AL1(TIC), AL1(0), AL2(0), AL4(T9_SICCW)
          08000000 00000A90
                                                   4040
                                                                  DC
00000A98
                                                   4041
          06200050 0000110F
                                                                  DC
                                                                        AL1(RD), AL1(SLI), AL2(T9_RDLEN), AL4(T9_RDDAT)
00000AA0
                                                   00000AA8 E3C5E2E3 407BF1F0
                                                    4045 T10 DESC DC
                                                                         C'TEST #10: GH#608 FILE PROTECT: track with =12 recs'
                               00000032 00000001
                                                   4046 T10 MSGLN EQU
                                                                         *-T10 DESC
                                                                         0D'0'
00000AE0
                                                    4047
                                                                   DC
00000AE0
          E7400041 0000115F
                                                    4048 T10 CHPGM DC
                                                                         AL1(PFX), AL1(CC), AL2(L'T10_E7DAT), AL4(T10_E7DAT)
                                                                         AL1(RCMT),AL1(CĆ),AL2(L'T10_COUNT),AL4(T10_COUNT) #1
                                                    4049
00000AE8
          92400008 000011A0
                                                                         AL1(RDMT), AL1(CC), AL2(L'T10_DATA), AL4(T10_DATA)
00000AF0
          86401000 000011A8
                                                   4050
                                                                   DC
                                                                                                                             #1
00000AF8
          92400008 000011A0
                                                   4051
                                                                   DC
                                                                         AL1(RCMT), AL1(CC), AL2(L'T10_COUNT), AL4(T10_COUNT) #2
          86401000 000011A8
                                                                         AL1(RDMT), AL1(CC), AL2(L'T10 DATA), AL4(T10 DATA)
00000B00
                                                   4052
                                                                   DC
                                                                                                                             #2
                                                                         AL1(RCMT), AL1(CC), AL2(L'T10COUNT), AL4(T10COUNT) #3
00000B08
          92400008 000011A0
                                                   4053
                                                                   DC
          86401000 000011A8
                                                                         AL1(RDMT), AL1(CC), AL2(L'T10 DATA), AL4(T10 DATA)
00000B10
                                                   4054
                                                                   DC
                                                                                                                             #3
                                                                         AL1(RCMT), AL1(CC), AL2(L'T10_COUNT), AL4(T10_COUNT) #4
00000B18
          92400008 000011A0
                                                   4055
                                                                   DC
                                                                         AL1(RDMT),AL1(CC),AL2(L'T10_DATA),ÁL4(T10_DATA) #4
AL1(RCMT),AL1(CC),AL2(L'T10_COUNT),AL4(T10_COUNT) #5
00000B20
          86401000 000011A8
                                                   4056
                                                                   DC
          92400008 000011A0
00000B28
                                                   4057
                                                                   DC
                                                                         AL1(RDMT),AL1(CC),AL2(L'T10_DATA),AL4(T10_DATA)
          86401000 000011A8
                                                   4058
                                                                                                                             #5
00000B30
                                                                   DC
                                                                         AL1(RCMT), AL1(CC), AL2(L'T10_COUNT), AL4(T10_COUNT) #6
00000B38
          92400008 000011A0
                                                   4059
                                                                   DC
                                                                         AL1(RDMT),AL1(CC),AL2(L'T10_DATA),AL4(T10_DATA) #6
AL1(RCMT),AL1(CC),AL2(L'T10_COUNT),AL4(T10_COUNT) #7
00000B40
          86401000 000011A8
                                                   4060
                                                                   DC
00000B48
          92400008 000011A0
                                                   4061
                                                                   DC
00000B50
          86401000 000011A8
                                                   4062
                                                                   DC
                                                                         AL1(RDMT), AL1(CC), AL2(L'T10_DATA), AL4(T10_DATA)
                                                                                                                             #7
          92400008 000011A0
                                                                         AL1(RCMT), AL1(CC), AL2(L'T10 COUNT), AL4(T10 COUNT) #8
00000B58
                                                   4063
                                                                   DC
                                                                         AL1(RDMT),AL1(CC),AL2(L'T10_DATA),AL4(T10_DATA)
          86401000 000011A8
00000B60
                                                   4064
                                                                   DC
                                                                                                                             #8
          92400008 000011A0
                                                                         AL1(RCMT), AL1(CC), AL2(L'T10_COUNT), AL4(T10_COUNT) #9
00000B68
                                                   4065
                                                                   DC
                                                                         AL1(RDMT),AL1(CC),AL2(L'T10_DATA),AL4(T10_DATA)
          86401000 000011A8
                                                   4066
                                                                   DC
                                                                                                                             #9
00000B70
                                                                         AL1(RCMT), AL1(CC), AL2(L'T10_COUNT), AL4(T10_COUNT) #10
00000B78
          92400008 000011A0
                                                   4067
                                                                   DC
                                                                         AL1(RDMT), AL1(CC), AL2(L'T10_DATA), AL4(T10_DATA)
          86401000 000011A8
                                                                   DC
00000B80
                                                   4068
                                                                                                                             #10
                                                                         AL1(RCMT), AL1(CC), AL2(L'T10 COUNT), AL4(T10 COUNT) #11
          92400008 000011A0
                                                   4069
00000B88
                                                                   DC
00000B90
          86401000 000011A8
                                                   4070
                                                                   DC
                                                                         AL1(RDMT), AL1(CC), AL2(L'T10_DATA), AL4(T10_DATA)
                                                                                                                             #11
                                                                         AL1(RCMT), AL1(CC), AL2(L'T10_COUNT), AL4(T10_COUNT) #12
00000B98
          92400008 000011A0
                                                   4071
                                                                   DC
                                                                         AL1(RDMT), AL1(CC), AL2(L'T10_DATA), AL4(T10_DATA)
          86401000 000011A8
                                                                   DC
00000BA0
                                                   4072
                                                                                                                             #12
          92000008 000011A0
                                                                   DC
                                                                         AL1(RCMT), AL1(0), AL2(L'T10_COUNT), AL4(T10_COUNT)
                                                                                                                             #13
00000BA8
                                                   4073
```

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LOC	OBJECT CODE	ADDR1	ADDR2	STMT	
				4075 *********	***************
00000000	F2CF52F2 407DF1F1			4077 T11 DECC DC	CLIECT #11. CU#COO FILE DDOTECT. track with 4.12 magel
00000BB0	E3C5E2E3 407BF1F1	00000033	00000001	4077 T11_DESC DC 4078 T11_MSGLN EQU	*-T11 DESC
00000BE8				4079 DC	0D'0'
00000BE8	E7400041 000021A8			4081 T11_CHPGM DC	AL1(PFX),AL1(CC),AL2(L'T11_E7DAT),AL4(T11_E7DAT)
				4083 *	
					the CCHH in the above Prefix command's Define Extent and excers Record Extended fields are different. The remainder of
				4086 * of the	e problematic channel program is identical to test #10's.
				4087 *	
	92400008 000011A0			4089 DC	AL1(RCMT),AL1(CC),AL2(L'T10_COUNT),AL4(T10_COUNT) #1
	86401000 000011A8 92400008 000011A0			4090 DC 4091 DC	AL1(RDMT),AL1(CC),AL2(L'T10_DATA),AL4(T10_DATA) #1 AL1(RCMT),AL1(CC),AL2(L'T10 COUNT),AL4(T10 COUNT) #2
	86401000 000011A0			4092 DC	AL1(RDMT),AL1(CC),AL2(L'T10_DATA),AL4(T10_DATA) #2
	92400008 000011A0			4093 DC	AL1(RCMT), AL1(CC), AL2(L'T10_COUNT), AL4(T10_COUNT) #3
	86401000 000011A8 92400008 000011A0			4094 DC 4095 DC	AL1(RDMT),AL1(CC),AL2(L'T10_DATA),AL4(T10_DATA) #3 AL1(RCMT),AL1(CC),AL2(L'T10 COUNT),AL4(T10 COUNT) #4
00000C28	86401000 000011A8			4096 DC	AL1(RDMT),AL1(CC),AL2(L'T10_DATA),AL4(T10_DATA) #4
	92400008 000011A0 86401000 000011A8			4097 DC 4098 DC	AL1(RCMT),AL1(CC),AL2(L'T10_COUNT),AL4(T10_COUNT) #5 AL1(RDMT),AL1(CC),AL2(L'T10 DATA),AL4(T10 DATA) #5
	92400008 000011A0			4099 DC	AL1(RCMT), AL1(CC), AL2(L'T10_DATA), AL4(T10_DATA) #5 AL1(RCMT), AL1(CC), AL2(L'T10 COUNT), AL4(T10 COUNT) #6
	86401000 000011A8			4100 DC	AL1(RDMT), AL1(CC), AL2(L'T10_DATA), AL4(T10_DATA) #6
	92400008 000011A0 86401000 000011A8			4101 DC 4102 DC	AL1(RCMT),AL1(CC),AL2(L'T10_COUNT),AL4(T10_COUNT) #7 AL1(RDMT),AL1(CC),AL2(L'T10_DATA),AL4(T10_DATA) #7
00000C60	92400008 000011A0			4103 DC	AL1(RCMT),AL1(CC),AL2(L'T10_COUNT),AL4(T10_COUNT) #8
	86401000 000011A8 92400008 000011A0			4104 DC 4105 DC	AL1(RDMT),AL1(CC),AL2(L'T10_DATA),AL4(T10_DATA) #8 AL1(RCMT),AL1(CC),AL2(L'T10_COUNT),AL4(T10_COUNT) #9
	86401000 000011A0			4106 DC	ALI(RDMT), ALI(CC), ALZ(L'T10_COUNT), AL4(T10_COUNT) #9 AL1(RDMT), AL1(CC), AL2(L'T10_DATA), AL4(T10_DATA) #9
00000C80	92400008 000011A0			4107 DC	AL1(RCMT),AL1(CC),AL2(L'T10_COUNT),AL4(T10_COUNT) #10
	86401000 000011A8 92400008 000011A0			4108 DC 4109 DC	AL1(RDMT),AL1(CC),AL2(L'T10_DATA),AL4(T10_DATA) #10 AL1(RCMT),AL1(CC),AL2(L'T10 COUNT),AL4(T10 COUNT) #11
00000C98	86401000 000011A8			4110 DC	AL1(RDMT),AL1(CC),AL2(L'T10_DATA),AL4(T10_DATA) #11
	92400008 000011A0			4111 DC	AL1(RCMT), AL1(CC), AL2(L'T10_COUNT), AL4(T10_COUNT) #12
	86401000 000011A8 92000008 000011A0			4112 DC 4113 DC	AL1(RDMT),AL1(CC),AL2(L'T10_DATA),AL4(T10_DATA) #12 AL1(RCMT),AL1(0),AL2(L'T10_COUNT),AL4(T10_COUNT) #13

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LOC	OBJECT CODE	ADDR1	ADDR2	STMT
00000CB8 00000CB8	00000000 00000000			4115 ***********************************
				4122 ***********************************
00000CD8 00000CE4 00000CF4 00000D04 00000D14 00000D16	00000000 00000000 00000000 00000000 000000	0000004C	00000001	4124 T1_E7DAT DC
				4133 ********************
00000E24 00000E64 00000E74 00000E84	40C00000 00000000 06000001 00000000			4135 T2_E7DAT DC XL64'00' 4136 T2_63DAT DC XL16'40C00000 000000000 000000000' 4137 T2_47DAT DC XL16'06000001 000000000 000000000 03000000' 4138 T2_06BUF DC XL10'00'
				4140 *******************
00000E8E 00000E8E 00000E9E 00000EAE 00000EBE 00000ECE 00000EDE	00000000 00000000 00000000 00000000 000000			4142 T3_E7DAT DS

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LOC	OBJECT CODE	ADDR1	ADDR2	STMT		
				4150 ************	*****	************
00000EE8	00000000 00000000	00000FE8	00000001	4152 T4_3EBUF 4153 ASMA_ORIGINAL_ORG 4154		XL256'00' Read Subsystem Data buffer * ORG back to here after below crap DATA
				4158 * Hercules's IDA h	andlir e end page.	ll be split across 2 physical pages to test ng for this CCW. We place the first part of of a page and the remainder at the beginning
		0000F000	00000001	4163 T4_E7DAT_PART2_ORG	EQU	X'F000' Where 2nd part of E7 data will go
		00000028	00000001	4165 T4_E7DAT_TOTAL_LEN 4166 T4_E7DAT_PART1_LEN 4167 T4_E7DAT_PART2_LEN	EQU	76 Total length of all E7 data 40 Amt of it at end of 1st IDA page (T4_E7DAT_TOTAL_LEN-T4_E7DAT_PART1_LEN)
00000FE8		00000FE8	0000EFD8	<i>1</i> 169	ORG	E7TEST+T4_E7DAT_PART2_ORG-T4_E7DAT_PART1_LEN
00000FD8		000001 20	00002100	4170 T4_E7DAT		OXL(T4_E7DAT_TOTAL_LEN)
0000EFE0 0000EFE8	00000000 00000000			4172 T4_E7DAT_PART1 4173	DS DC DC	0XL(T4_E7DAT_PART1_LEN) XL16'02000000 00000000 0000000000' XL16'00000000 00000000 00000000'
	00000000 00000000			4175	DC	XL8' 0000000 00000000'
0000F000 0000F000 0000F008 0000F010	0000000 00000000			4177 T4_E7DAT_PART2 4178 4179	DS DC DC	0XL(T4_E7DAT_PART2_LEN) XL8' 00000000 00000000' XL16'00000000 00000000 00001800'
0000F018 0000F020				4180	DC	XL12'00000000 41000000 00000000'
0000F024		0000F024	00000FE8	4182 4183	ORG PRINT	ASMA_ORIGINAL_ORG NODATA

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LOC	OBJECT CODE	ADDR1	ADDR2	STMT		
				4186 ******	*****	****************
00000FE8				4188 T5_E7DAT	DS	0XL64
00000FE8				4189	DC	XL16'00800000 00000000 000000000 40C000000'
00000FF8	00000000 00000000 00000000 00000000			4190 4191		XL16'00000000 00000000 00000000 00000000' XL16'00000000 00000000 00000000'
	00000000 00000000			<i>1</i> 192	חר	XI 16'AAAAAAA AAAAAAAA AAAAAAAAA AAAAAAAAA
	16000001 00000000			4193 T5_47DAT	DC	XL16'16000001 00000000 00000000 03000000'
00001038	00000000 00000000			4194 T5_06BUF	DC	XLIO 00
				4196 ******	*****	*****************
00001042	00000000 0000000			4198 T6_E7DAT	DS	0XL64
00001042 00001052				4199 4200	DC DC	XL16'00800000 00000000 00000000 40C00000' XL16'00000000 00000000 00000000 00000000'
00001062	00000000 00000000			4201	DC	XL16'00000000 00000000 00000000 00000000'
	00000000 00000000 16000001 00000000			4202 4203 T6 47DAT		XL16'00000000 00000000 00000000 00000000' XL16'16000001 00000000 00000000 03000000'
	00000001 00000000			4204 T6_86BUF	DC	XL10'00'
				_		
				4206 ******	*****	***************
00001090	01800000 00000000			4208 T7 F7DAT	חכ	X'01800000 00000000 00000000' +00 PFX
000010A8	40C01000 00000042			4209	DC	X'40C01000 00000042 00020000 00020000' +12 DEF EXT
	0000000 00000000			4210		X'0000000 0000000 0000000 00000000' +28
000010C8	06000001 00020000 0000000			4211 4212	DC DC	X'06000001 00020000 00020000 01290000' +44 LREC EXD X'00000000' +60
		00000040	00000001	4213 T7_E7LEN		*-T7_E7DAT

1011	0.7.0		., .	A	D 1 0000				0.01.55	_	
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LOC	OBJECT CODE	ADDR1	ADDR2	STMT							
				1216	*****	******	*******	<*******	*****	****	
				4210							
000010DC	0000000 00000000			//218	T8_DXDAT DC	Y'00C00000 0000	0000 00000000 000000	100'			
00001000		00000010	00000001	4219	T8_DXLEN EQU	*-T8_DXDAT		,,,,			
000010EC	0B000001 00000000			4220 4221	T8_LRDAT DC	X'0B000001 0000	0000 00000000 000000	900'			
0000=0=0		00000010	00000001	4222	T8_LRLEN EQU						
000010FC	00000000 00000000			4223 4224	T8_WDDAT DC	XL8'00'					
		00000008	00000001	4225	T8_WDLEN EQU	*-T8_WDDAT					
				4227	********	*******	********	******	*****	****	
00001104	00000000 0000	00000006	00000001	4229	T9_SKDAT_DC	X'000000000000'	BIN=0,CYL=0,HEAD	0=0			
		0000000	0000001	4231	T9_SKLEN EQU	*-T9_SKDAT					
0000110A	00000000 03	00000005	00000001	4232	T9_SIDAT DC T9_SILEN EQU	X'0000000003' *-T9_SIDAT	CC=0,HH=0,R=3				
		0000000	0000001	4234							
0000110F	40404040 40404040	00000050	00000001	4235 4236	T9_RDDAT DC T9_RDLEN EQU	CL80' ' *-T9_RDDAT	Volume Serial				

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							Ç
LOC	OBJECT CODE	ADDR1	ADDR2	STMT			
				4239 *******	****	***********	*******
00001155				4241 T10 F7DAT	DC	AVI (12.22.20.1) 'AA'	
0000115F				4241 110_E/DAT	DC	0XL(12+32+20+1)'00'	
		00000003	00000001	4243 T10_CYL	EQU		
		00000000	00000001	4244 T10_HEAD	EŲU	0 Track with 12 rec	oras on it
				4246 * Prefi	x: 12	bytes (0 - 11)	
0000115F	01			4248	DC	XL1'01'	Format
00001151				4249	DC	XL1'80'	Field Validity
00001161	00			4250	DC	XL1'00'	(reserved; must be zero)
00001162	00			4251	DC	XL1'00'	Auxiliary Byte
00001163	00000000 00000000			4252	DC	XL8'00000000 00000000'	(reserved; must be zero)
				4254 * Defin	e Ext	ent: 32 bytes (12-43)	
0000116B	40			4256	DC	XL1'40'	Mask byte
0000116C				4257	DC	XL1'C0'	Global Attributes
0000116D	0000			4258	DC	AL2(0)	Blocksize in bytes
0000116F 00001172	000000			4259 4260	DC DC	XL3'000000' XL1'00'	<pre>(reserved; must be zero) Global Attributes Extended</pre>
00001172				4261	DC	AL2(T10_CYL),AL2(T10_HEAD)	Beginning of Extent (CCHH)
00001177				4262	DC	AL2(T10_CYL),AL2(0) XL16'00'	End of Extent (CCHH)
0000117B	00000000 00000000			4263	DC	XL16'00'	(reserved; must be zero)
				4265 * Locat	e Rec	ord Extended: 20 bytes (44-63	
0000118B	3 E			4267	DC	XL1'3F'	Operation Byte
0000118B				4268	DC	XL1'00'	Auxiliary Byte
0000118D	00			4269	DC	XL1'00'	(reserved; must be zero)
0000118E				4270	DC	AL1(13)	Count
0000118F 00001193				4271 4272	DC DC	AL2(T10_CYL),AL2(T10_HEAD) XL5'0000000000'	Seek Address (CCHH) Search Argument
00001198				4273	DC	AL1(255)	Sector Number
00001199	0000			4274	DC	AL2(0)	Transfer Length Factor
0000119B				4275	DC	XL1'00'	(reserved; must be zero)
0000119C 0000119D				4276 4277	DC DC	XL1'0A' AL2(1)	Extended Operation Byte Extended Parameter Length
30001170	JJ01			: = 1 1	20	(1)	Excelled Fall direction Leligeti
				4270 4 - :			
				4279 * Exten	aea P	arameter: 1 byte (64-64)	
0000119F	01			4281	DC	AL1(1)	Track Set Size
000011A0	00000000 00000000			4283 T10_COUNT	DC	XL8'00'	(Read Count buffer)
000011A8	00000000 00000000			4284 T10_DATA			(Read Data buffer)´

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		ADDD1							0 -
LOC	OBJECT CODE	ADDR1	ADDR2	STMT					
				4207 ********	*****	*****	******	*********	: * *
				428/ *******	`	·	• ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	*************	·
000021A8				4289 T11_E7DAT	DC	0XL(12+32+	-20+1)'00'		
		00000003	00000001	4291 T11_CYL	EQU		Test Cylinder		
		00000001	00000001	4292 T11_HEAD	EQU	1	Track with only 3	records on it	
				4204 4 5 6			44)		
				4294 * Prefi	x: 12	2 bytes (0 -	11)		
000021A8				4296	DC	XL1'01'		Format	
000021A9 000021AA	80			4297 4298	DC DC	XL1'80' XL1'00'		Field Validity (reserved; must be zero)	
000021AA	00			4299	DC	XL1'00'		Auxiliary Byte	
000021AC	0000000 00000000			4300	DC		000000000	(reserved; must be zero)	
				4302 * Defir	ne Ext	ent: 32 byt	es (12-43)		
000021B4	40			4304	DC	XL1'40'		Mask byta	
	C0			4305	DC	XL1'C0'		Mask byte Global Attributes	
000021B6	0000			4306	DC	AL2(0)		Blocksize in bytes	
000021B8	000000			4307	DC	XL3'000000)'	(reserved; must be zero)	
000021BB 000021BC	00			4308 4309	DC DC	XL1'00'	L),AL2(T11_HEAD)	Global Attributes Extende Beginning of Extent (CCH	
000021BC				4310	DC	AL2(T11_CT	(L), AL2(0)	End of Extent (CCH	
000021C4	00000000 00000000			4311	DC	AL2(T11_CY XL16'00'	,, ,	(reserved; must be zero)	•
				4313 * Locat	e Rec	ord Extende	ed: 20 bytes (44-63)	
000021D4	3F			4315	DC	XL1'3F'		Operation Byte	
000021D5				4316	DC	XL1'00'		Auxiliary Byte	
000021D6				4317	DC	XL1'00'		(reserved; must be zero)	
000021D7				4318	DC	AL1(13)	/I \ AI 2/T11 FAD\	Count	
000021D8	00000000 00			4319 4320	DC DC	XL5'000000	(L),AL2(T11_HEAD)	Seek Address (CCHH) Search Argument	
				4321	DC	AL1(255)	,000	Sector Number	
000021E2	0000			4322	DC	AL2(0)		Transfer Length Factor	
000021E4				4323	DC	XL1'00'		(reserved; must be zero)	
000021E5 000021E6				4324 4325	DC DC	XL1'0A' AL2(1)		Extended Operation Byte Extended Parameter Length	
55552125	0001			7363	DC	752(1)		Excelled for all directer Leligti	
				4327 * Exter	nded F	Parameter: 1	. byte (64-64)		
000021E8	01			4329	DC	AL1(1)	Tra	ck Set Size	
					•	(-,			

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LOC	OBJECT CODE	ADDR1	ADDR2	STMT						
				4331 ******	*****	****	****	***	**	*********
				4332 *	IOCB	DSECT	Т			
				4333 ******	*****	****	****	***	**	**********
				4335	DSECT	S NAM	ME=IC	СВ		
				4337+IOCB	DSECT					
										Description (R->program read-only, X->program read/wr:
0000000				4339+IOCBDID	DS	0F			R	Device Identifier - Subsystem ID for channel subsyst
0000000	0000			4340+	DS	Н	+0			reserved - must be zeros
00000002	0000			4341+IOCBDV		Н	+2		V	Channel Unit Device address of I/O operation
00000004 00000006	0000 0000			4342+IOCBDEV 4343+IOCBZERO		H H	+4 +6	R	X D	Device address or device number (R after ENADEV) Must be zeros
30000008	00			4344+IOCBUM	DS DS	Х		X :		Unit status test mask
00000000	00			4345+IOCBCM	DS	X		X		
00000003 0000000A	00			4346+I0CBST	DS	о́Н				Input/Output unit and channel status accumulation
000000A	00			4347+IOCBUS	DS	X				Accumulated unit status
9000000B	00			4348+IOCBCS	DS	X	+11			Accumulated channel status
000000C	00			4349+IOCBUT	DS	X	+14			Used to test unit status
000000D	00			4350+IOCBCT	DS	Χ	+13			Used to test channel status
900000E	00			4351+IOCBSC	DS	Χ	+14		R	Accumulted subchanel status control
000000F	00			4352+IOCBWAIT	DS	Χ	+15			Recognized unsolicited interruption unit status even
00000010	00000000			4353+IOCBSCCW		Α				I/O status CCW address
00000014				4354+IOCBSCNT		0F				I/O status residual count as a positive full word
00000014	0000			4355+	DS	Н	+20			
00000016	0000			4356+IOCBRCNT		Н	+22			I/O status residual count as an unsigned halfword
00000018	000000000000000000000000000000000000000			4357+IOCBCAW	DS		+24		.,	Channel Address word
00000018	00000000 00000000			4358+IOCBORB	DS	AD	+24			Address of the ORB for channel subsystem I/O
00000020	00000000 00000000			4359+IOCBIRB	DS		+32			Channel subsystem IRB address
00000028	00000000 00000000	00000000	0000001	4360+IOCBSIB	DS		+40			Channel subsystem SCHIB address
		00000030	00000001	4361+IOCBL	EQU	*-I(UCB	Len	gu	h of IOCB control block (48) without embedded structu

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LOC	OBJECT CODE	ADDR1	ADDR2	STMT				
				4363 ******* 4364 * 4365 ******	***** ORB D ****	********* SECT ******	**********************	********* *******
				4367	DSECT	S NAME=OR	В	
0000000	00000000			4369+ORB 4370+ORBPARM	DSECT DC	F'0'	Word 0, bits 0-31	
0000004	00	000000F0 00000008	00000001 00000001	4372+ORB1_0 4373+ORBKEYM 4374+ORBS	DC EQU EQU	X'00' X'F0' X'08'	Word 1, bits 0-7 Word 1, bits 0-3 Word 1, bit 4	- Storage Key Mask - Suspend Control
		00000004 00000002 00000001	00000001 00000001 00000001	4375+ORBC 4376+ORBM 4377+ORBY	EQU EQU EQU	X'04' X'02' X'01'	Word 1, bit 5 Word 1, bit 6 Word 1, bit 7	Streaming Mode ControlModification ControlSynchronization Control
0000005	00	00000080	00000001	4379+ORB1_8 4380+ORBF	DC EQU	X'00' X'80'	Word 1, bits 8-15 Word 1, bit 8	- CCW Format-Control
		00000040 00000020 00000010	00000001 00000001 00000001	4381+ORBP 4382+ORBI 4383+ORBA	EQU EQU EQU	X'40' X'20' X'10'	Word 1, bit 9 Word 1, bit 10 Word 1, bit 11	Pre-fetch controlInitial-status Interruption ControlAddress Limit Checking Control
		00000008 00000004 00000002	00000001 00000001 00000001	4384+ORBU 4385+ORBB 4386+ORBH	EQU EQU EQU	X'08' X'04' X'02'	Word 1, bit 12 Word 1, bit 13 Word 1, bit 14	Suppress-suspended-interruption contChannel-Program-Type ControlFormat 2-IDAW Control
0000006 0000007		00000001	00000001	4387+ORBT 4388+ORBLPM 4389+ORRB1_24		X'01' X'00' X'00'	Word 1, bits 24-31	
		00000080 0000007F 00000040	00000001 00000001 00000001	4390+ORBL 4391+ORBRSV3 4392+ORBD	EQU EQU EQU	X'80' X'7F' X'40'	Word 1, bit 24 Word 1, bits 25-31 Word 1, bit 25	Incorrect Length Suppression Modereserved must be zerosMIDAW Addressing Control
		0000003E 0000007E 00000001	00000001 00000001 00000001	4393+ORBRSV26 4394+ORBRSV25 4395+ORBX		X'3E' X'7E' X'01'		reserved must be zerosreserved must be zerosORB-extension control
000008	00000000	00000080	00000001			A(0) X'80'	Word 2, bit 0	- Channel Program Address - reserved must be zero
00000C		ОООООООС	00000001	4399+ORBLEN 4400+* Extend 4401+ORBCSS	EQU ed ORB DC	fields X'00'		- Channel Subsystem Priority
000000D 000000E 000000E				4402+ORBRSV5 4403+ORBPGM 4404+ORBCU	DC DC DC	X'00' 0X'00' X'00'	Word 3, bits 16-23	reserved must be zerosTransport mode reserves for programControl Unit Priority
00000F				4405+ORBRSV6 4406+ORBRSV7 4407+ORBXLEN	DC DC	X'00' XL16'00'	Word 3, bits 24-31	reserved must be zerosreserved must be zeros

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LOC	OBJECT COL	DE ADDR1	ADDR2	STMT								
				4410 ******* 4411 * 4412 ******	IRB DS	ECT						
00000C	00000000 0000 00000000 0000 00000000 0000	00000 00000	9999999	4414 4416+IRB 4417+IRBSCSW 4418+IRBESW 4419+IRBECW 4420+IRBL	DSECT : DC : DC :	Interrup [.] XL12'00' XL20'00'	tion Words 0-2 - Words 3-7 - Words 8-15	Subchanne: Extended	l Status Wor Status Word		d by DSI	ECT S
0000040	00000000 0000	0000		4421+IRBEMW	DC 2	XL32'00'	Words 16-23		d Measuremen	t Word		
		00000060	0000001	4422+IRBXL	EQU	*-IRB	Extended IR	в Lengtn				

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LOC	OBJECT CODE	ADDR1	ADDR2	STMT			
				4426 *	SCHIB	DSECT	************** ************
				4429 4431+SCHIB 4432+* Fields	DSECT	S NAME=SCHI Subchannel d RW mav be	
000000 000000 000004				4433+SCHPMCW 4434+PMCWIP 4435+PMCW1 0	DC DC	0XL28'00'	Words 0-6 - Path-Management-Control Word Word 0, bits 0-31 - Interruption Parameter Word 1, bits 0-7
000004	00	00000038	00000001	_			Interruption Subclass Code Mask
000005	00	00000080 00000060		4440+PMCWLM	EQU EQU	X'60' RW	Word 1, bits 8-15 Word 1, bit 8 - Subchannel Enabled Word 1, bits 9,10 - Limit-Mode Mask
		00000020 00000040 00000018	00000001 00000001	4441+PMCWLMG 4442+PMCWLML 4443+PMCWMM	EQU EQU	X'40' RW X'18' RW	Word 1, bit 9 - Address must be GE to limit Word 1, bit 10 - Address must be less than the limit Word 1, bits 11,12 - Measurement Mode Mask
		00000010 00000008 00000004	00000001 00000001	4444+PMCWMME 4445+PMCWMMC 4446+PMCWM	EQU EQU	X'08' RW X'04' RW	Word 1, bit 11 - Measurement Block Update Enabled Word 1, bit 12 - Device Connect Time Measurement Enabl Word 1, bit 13 - Multipath Mode Enabled
		00000002 00000001	00000001 00000001	4447+PMCWT 4448+PMCWV	EQU EQU		Word 1, bit 14 - Timing facility availability Word 1, bit 15 - Device number valid
000006	0000			4450+PMCWDNUM	DC	H'0' IN	Word 1, bits 16-31 - Device Number
000008 000009 00000A	00			4452+PMCWLPM 4453+PMCWPNOM 4454+PMCWLPUM	DC	X'00' RW	Word 2, bits 0-7 - Logical Path Mask Word 2, bits 8-15 - Logical Path Not Operational Mask Word 2, bits 16-23 - Logical Path Used Mask
100000B 100000C 100000E	0000			4455+PMCWPIM 4456+PMCWMBI 4457+PMCWPOM	DC	X'00' IN H'0' RW	Word 2, bits 24-31 - Path-Installed Mask Word 3, bits 0-15 - Measurement Block Index Word 3, bits 16-23 - Path-Operational Mask
000000F 0000010 0000011	00			4458+PMCWPAM 4459+PMCWCHP0 4460+PMCWCHP1	DC	X'00' IN X'00' IN	Word 3, bits 24-31 - Path-Available Mask Word 3, bits 0-7 - Channel Path Identifier 0 Word 3, bits 8-15 - Channel Path Identifier 1
0000012 0000013 0000014	00			4461+PMCWCHP2 4462+PMCWCHP3 4463+PMCWCHP4	DC	X'00' IN	Word 3, bits 16-23 - Channel Path Identifier 2 Word 3, bits 24-31 - Channel Path Identifier 3 Word 4, bits 0-7 - Channel Path Identifier 4
0000015 0000016 0000017	00			4464+PMCWCHP5 4465+PMCWCHP6 4466+PMCWCHP7	DC	X'00' IN	Word 4, bits 8-15 - Channel Path Identifier 5 Word 4, bits 16-23 - Channel Path Identifier 6 Word 4, bits 24-31 - Channel Path Identifier 7
0000018 0000018 000001B				4467+PMCWRES1 4468+PMCWRES2 4469+PMCWEXC	DC	0XL4'00' XL3'00' X'00'	Word 6, bits 0-31 - reserved or pre-z systems Word 6, bits 0-23 - reserved on z systems Word 6, bits 24-28 - reserved
		00000004 00000002 00000001		4470+PMCWB 4471+PMCWX 4472+PMCWS	EQU EQU EQU	X'04' RW X'02' RW	Word 6, bit 29 - Measurement Block Format Control Word 6, bit 30 - Extended Measurement Word Mode En Word 6, bit 31 - Concurrent Sense Enable
00001C 000028	00000000 00000000			4474+SCHSCSW 4475+SCHMDA3	DC	XL12'00' 0XL12'00'	
000028 000030	00000000 00000000 00000000	00000034	00000001	4476+SCHMBA 4477+SCHMDA1 4478+SCHIBL	DC DC EOU	XL4'00'	Words 10,11 - Measurement Block Address Word 12 - Model Dependent Area on z systems ngth of SCHIB

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LOC	OBJECT CODE	ADDR1	ADDR2	STMT			
				1101 ******	*****	*****	************
				4482 *	SCSW I		
				1/183 ******	*****	*******	************
				4403			
				4485		S NAME=S	
				4487+SCSW		Subchan	
0000000	00			4488+SCSWFLAG		X'00'	Flags
				4489+SCSWKEYM	•	X'F0'	Storage Key Mask of subchannel storage key
		00000008		4490+SCSWSUSC		X'08'	Suspend Control
		00000004		4491+SCSWESWF		X'04'	Extended Status Word Format
		00000003		4492+SCSWDCCM		X'03'	Deferred condiont code mask
		00000000		4493+SCSWDCC0 4494+SCSWDCC1		X'00' X'01'	Normal I/O interruption Deferred condition code is 1
		00000001 00000003		4495+SCSWDCC3	_	X'03'	Deferred condition code is 3
		00000003	0000001	4433+3C3WDCC3	EQU	X 63	Deferred Condition Code 15 5
0000001	00			4497+SCSWCTLS	DC	X'00'	General Controls
		00000080	00000001	4498+SCSWCCWF		X'80'	CCW Format control when
		00000040		4499+SCSWCCWP		X'40'	CCW Prefetch Control
		00000020		4500+SCSWISIC	_	X'20'	Initial-Status-Interruption Control
		00000010		4501+SCSWALKC		X'10'	Address-Limit-Checking Control
		0000008		4502+SCSWSSIC		X'08'	Suppress suspended interruption
		00000004		4503+SCSW0CC		X'04'	Zero-Condition Code
		00000002		4504+SCSWECWC		X'02'	Extended Control Word control
		00000001	00000001	4505+SCSWPNOP	EQU	X'01'	Path Not Operational
00000002	00	00000070	0000001	4507+SCSW1	DC	X'00'	Control Byte 1
		00000070	00000001	4508+SCSWFM	EQU	X'70'	Functional Control Mask
		00000040		4509+SCSWFS	EQU	X'40'	Function Control - Start Function
		00000020		4510+SCSWFH	EQU	X'20' X'10'	Function Control - Halt Function Function Control - Clear Function
		00000010 00000008		4511+SCSWFC 4512+SCSWARP	EQU EQU	X'08'	Activity Control - Resume pending
		00000004		4513+SCSWASP	EQU	X'04'	Activity Control - Resume pending Activity Control - Start pending
		00000002		4514+SCSWAHP	EQU	X'02'	Activity Control - Start pending Activity Control - Halt pending
		00000002		4515+SCSWACP	EQU	X'01'	Activity Control - Halt pending Activity Control - Clear pending
0000003	00	0000001	00000001	4516+SCSW2	DC	X'00'	Control Byte 2
,0000005		00000080	00000001	4517+SCSWASA		X'80'	Activity Control - Subchannel Active
		00000000		4518+SCSWADA	EQU	X'40'	Activity Control - Device Active
		00000040		4519+SCSWASUS	•	X'20'	Activity Control - Suspended
		00000010		4520+SCSWSAS		X'10'	Status Control - Alert Status
		00000008		4521+SCSWSINT	•	X'08'	Status Control - Intermediate Status
		00000004		4522+SCSWSPRI		X'04'	Status Control - Primary Status
		00000002		4523+SCSWSSEC		X'02'	Status Control - Secondáry Status
		00000001		4524+SCSWSPEN		X'01'	Status Control - Status Pénding
00000004	00000000			4526+SCSWCCW	DC	A(0)	CCW Address
, 300007				.J_J.JCJNCCN		(0)	
80000008	00	000000	0000000	4528+SCSWUS	DC	X'00'	Unit Status
		00000080	00000001	4529+SCSWATTN	•	X'80'	Attention
		00000040		4530+SCSWSM	EQU	X'40'	Status modifier
		00000020		4531+SCSWCUE	EQU	X'20'	Control-unit end
		00000010		4532+SCSWBUSY	•	X'10'	Busy
		00000008		4533+SCSWCE	EQU	X'08'	Channel end
		00000004		4534+SCSWDE	EQU	X'04'	Device end
		0000000					
		00000002 00000001		4535+SCSWUC 4536+SCSWUX	EQU EQU	X'02' X'01'	Unit check Unit exception

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LOC	OBJECT CODE	ADDR1	ADDR2	STMT		• •	23 . 23 202 . 2010
00000009		00000080 00000040 00000020 00000010 00000008 000000004 000000002	00000001 00000001 00000001 00000001 000000	4538+SCSWCS 4539+SCSWPCI 4540+SCSWIL 4541+SCSWPRGM 4542+SCSWPROT 4543+SCSWCDAT 4544+SCSWCCTL 4545+SCSWICTL	EQU EQU EQU EQU EQU EQU	X'00' X'80' X'40' X'20' X'10' X'08' X'04' X'02' X'01'	Channel Status Program-controlled interruption Incorrect length Program check Protection Check Channel-data check Channel-control check Interface-control check Chaining check
000000A	0000			4548+SCSWCNT	DC	н'0'	Residual CCW count
		0000000C	00000001	4549+SCSWL	EQU	*-SCSW	

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LOC	OBJECT CODE	ADDR1	ADDR2	STMT							
				4553	*	(othe	r DSECTS needed	**************************************			
				4556 4782		DSECT PRINT	S PRINT=OFF,NAM ON	1E=(ASA,CCW0,CCW	1,CSW)		
				4704	*****	*****	*****	******	*****	*****	
				4785	********* * *****	Regis	ter equates	******			
		00000000 00000001 00000002 00000003 00000004 00000005 000000006 000000008 000000008 000000000	0000001 0000001 0000001 0000001 0000001 000000	4790 4791 4792 4793 4794 4795 4796 4797 4798 4799 4800 4801 4802 4803	R1 R2 R3 R4 R5 R6 R7 R8 R9 R10 R11 R12 R13 R14	EQU EQU EQU EQU EQU EQU EQU EQU EQU EQU	0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15				
				4805		END					

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SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFER	ENCES													
ASA	4	000000	512	4560	3582														
ASBEGIN	U	000000	1	4561	4566	4608	4644	4653	4671	4678	4684	4688	4692	4698	4715				
ASEND	U	000200	1	4714	4715														
ASLENGTH	U	000200	1	4715															
ASMA_ORIGINAL_ORG																			
	U	000FE8	1	4153	4182														
ATESTTAB	Α	000610	4	3915	3624														
BAD66PSW	D	000328	8	3713	3688														
BAD77PSW	D	000338	8	3714	3690														
BAD88PSW	D	000348	8	3715	3692														
BAD99PSW	D	000358	8	3716	3694														
BCEXTCOD	Н	00001A	2	4578															
BCIOCOD	Н	00003A	2	4586															
BCMCKCOD	Н	000032	2	4584															
BCPGMCOD	Н	00002A	2	4582															
BCSVCCOD	H	000022	2	4580	2557														
BEGIN		000200	2	3588	3557														
BEGIN0	Ţ	000246	4	3622	3610														
CAMADDR	F D	000048	4	4590															
CAWADDR	R	000049	3	4593															
CAWKEY CAWSUSP	X U	000048 000008	1	4591 4592															
	U	000040	1	3898	3962	3970	2071	3972	3981	3982	3991	4002	4003	4012	4013	4029	4030	4038	
CC	U	000040		2020	4039	4048	3971 4049	4050	4051	4052	4053	4054	4005	4012	4013		4059	4050	
					4061 4090	4062 4091	4063 4092	4064 4093	4065 4094	4066 4095	4067 4096	4068 4097	4069 4098	4070 4099	4071 4100	4072	4081 4102	4089 4103	
CCW0	4	000000	8	4719	4104 4725	4105	4106	4107	4108	4109	4110	4111	4112						
CCW0ADDR	R	000001	3	4721															
CCW0CNT	Н	000006	2	4724															
CCW0CODE	Χ	000000	1	4720															
CCW0FLGS	Χ	000004	1	4722															
CCW0L	U	800000	1	4725															
CCW1	4	000000	8	4737	4742														
CCW1ADDR	Α	000004	4	4741															
CCW1CNT	Н	000002	2	4740															
CCW1CODE	Χ	000000	1	4738															
CCW1FLGS	Χ	000001	1	4739															
CCW1L	U	80000	1	4742															
CCWCC	U	000040	1	4729															
CCWCD	U	000080	1	4728															
CCWIDA	U	000004	1	4733															
CCWPCI	U	000008	1	4732															
CCWSKIP	U	000010	1	4731															
CCWSLI	U	000020	1	4730															
CCWSUSP	Ū	000002	1	4734															
CHANID	F	0000A8	4	4645	2-6-														
CHKZARCH	I	000228	4	3606	3598														
CODE	2	000000	61476	3529															
CPUID	Ū	00031B	1	4717															
CSW	F	000040	8	4589															
CSWATTN	U	000080	1	4759															
CSWBUSY	U	000010	1	4762															
CSWCCTL	U	000004	1	4774															
CSWCCW	R	000001	3	4756															
SWCDAT	U	000008	1	4773															

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SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFER	ENCES												
SWCE	U	000008	1	4763	3820													
SWCHNG	Ū	000001	1	4776														
SWCNT	H	000006	2	4778														
SWCS	X	000005	1	4768														
SWCUE	Û	000020	1	4761														
SWDCC0	Ü	000000	1	4752														
SWDCC1	Ŭ	000001	1	4753														
SWDCC3	Ü	000003	1	4754														
SWDCCM	U	000003	1	4751														
SWDE	U	000003	1	4751	3820													
SWFLAG	_	000004	1	4746	3020													
	X				4770													
SWFMT	4	000000	8	4745	4779													
SWFMTL	U	800000	1	4779														
SWICTL	U	000002	1	4775														
SWIL	U	000040	1	4770														
SWKEYM	U	0000F0	1	4747														
SWLOG	U	000004	1	4750														
SWPCI	U	000080	1	4769														
SWPRGM	U	000020	1	4771														
SWPROT	U	000010	1	4772														
SWSM	U	000040	1	4760														
SWSUSP	U	800000	1	4749														
SWUC	U	000002	1	4765														
SWUS	Χ	000004	1	4758														
SWUX	U	000001	1	4766														
OOSENSE	I	0003DE	4	3775	3675													
OTEST	I	00027C	4	3646	3635													
X	U	000063	1	3909	3971	4029												
7TEST	J	000000	61476	3529	3532	3539	3552	3555	3559	3563	4169	3581						
NADEV	I	00038A	4	3744	3725													
NAOKAY	I	0003DC	2	3769	3758													
RRTEST	I	0002B8	4	3673	3667													
XCP	I	0003E2	4		3651													
XTCPUAD	Н	000084	2	4610														
XTICODE	H	000086	2	4611														
XTIPARM	F	000080	4	4609														
EXTNPSW	F	000058	8	4599														
EXTOPSW	F	000018	8	4571	4577													
AIL	T	000018 0002F8	6	3699	3689	3691	3693	3695	3697									
AILCPU0	Ť	000218 0002D0	4	3688	3599	3600	3608	3616	5057									
AILDEV	Ť	0002E0	4	3692	3749	3759	3764	2010										
AILIO		0002E0	4	3694	3749	3811	3821											
	Ţ					2011	2021											
AILPSW	D	000318	8	3707	3696													
AILSCH		0002D8	4	3690	3657	2670	2674											
FAILTEST	↑	0002F0	4	3696	3664	3670	3674											
IND0008	A	0003D4	4	3766	3744													
INL0008	H	000394	2	3747	3763													
INM0008	A	0003D8	4	3767	3762													
INN0008	H	0003C2	2	3760	3751	3753												
GOODPSW	D	000308	8	3706	3640													
:DA	U	000004	1	3900	3973	3983	3991	3992	4004	4014								
IRB0011	F	0005A4	4	3884	3882	3883												
MAGE	1	000000	61476	0														
NIT	I	000368	4	3722	3622													
IOCB	4	000000	48	4337	4361	3583												
OCBCAW	Α	000018	4	4357														

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SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFER	ENCES									
ОСВСМ	Χ	000009	1	4345											
OCBCS	Χ	00000B	1	4348											
OCBCT	Χ	00000D	1	4350											
OCBDEV	Н	000004	2	4342	3752										
IOCBDID	F	000000	4	4339	3653	3755	3784								
IOCBDV	Н	000002	2	4341											
IOCBIRB	Α	000020	8	4359	3789										
IOCBL	U	000030	1	4361											
IOCBORB	Α	000018	8	4358	3723	3786									
IOCBRCNT	Н	000016	2	4356	3818										
IOCBSC	Х	00000E	1	4351	3782	3813	3815								
IOCBSCCW	Α	000010	4	4353	3817										
IOCBSCNT	F	000014	4	4354											
IOCBSIB	Α	000028	8	4360	3654	3745									
IOCBST	Н	A00000	2	4346	3783	3814									
IOCBUM	X	800000	1	4344	2000										
IOCBUS	X	A00000	1	4347	3820										
IOCBUT	X	00000C	1	4349											
IOCBWAIT	X	00000F	1	4352	2702										
IOCBZERO	H	000006	2	4343	3783										
IOCB_A80	A	000574	4	3870	3722										
[OELADDR	F	0000AC	4	4646											
IOICODE	H	0000BA	2	4651											
IOIID	F	0000C0	4	4656	2724										
IOINIT	Ŧ	00037C	4	3733	3724										
IOIPARM	F	0000BC	4	4655	2722	2724									
IOMK0007	F	000384	4	3735	3733	3734									
ION0010	3	000438	16	3799	3796										
IONPSW	F -	000078	8	4603	4505										
IOOPSW	F	000038	8	4575	4585										
IORB0011	X	000604	12	3886	3881	2002									
IOS0010	X	000448	16	3800	3795	3803									
IOSSID	•	0000B8	4	4654	3806	2010	2016								
IOWT0009	H	000414	2	3793	3807	3810	3816								
IPLCCW1	F	000008	8	4563											
IPLCCW2	F	000010	8	4564											
IPLPSW	4	000000	8	4562	4420	4422	2700								
IRB	4	000000	96	4416	4420	4422	3/90								
IRBECW	X	000020	32	4419											
IRBEMW	X	000040	32	4421											
IRBESW	X	00000C	20	4418											
IRBL	U	000040	1	4420	2012	2014	2017	2010							
IRBSCSW	X	000000	12	4417	3813	5814	3817	2818							
IRBXL	U	000060	1	4422	2700										
IRST0010	H	000458	2	3802	3799										
_CHANLOG	F	0000B0	4	4647	2072	วกดา	4002	1012	4020						
-R	U	000047	1	3908	39/Z	570 2	4003	4013	4030						
MCKLOG	F	000100	4	4679											
MCKNPSW	F	000070	8	4602	4502										
MCKOPSW MEASURER	F V	000030	8	4574	4583										
MEASUREB	X	0000B9	1	4650											
MKARCHMD	X	0000A3	1	4638											
MKARS	F F	000120	4	4677											
MKCLKCMP	F	0000E0	8	4663											
MKCPUTIM	F	0000D8	8	4662											
1KCRS	F	0001C0	4	4682											

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SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFER	ENCES								
1KDMGCOD	F	0000F4	4	4666										
MKFAILA	F	0000F8	4	4668										
IKFPRS	D D	000160	8	4680										
KICODE		000100 0000E8	4	4664										
	F													
1KLOGOUT	F	000100	4	4670										
MKMODEL	<u> </u>	0000FC	4	4669										
1KXSAA	F	0000D4	4	4661										
MONCLS	Н	000094	2	4626										
MONCODE	F	00009C	4	4633										
10NNUMBR	Χ	000095	1	4628										
MPGACCID	Χ	0000A2	1	4636										
1SG	T	0004A0	4	3831	3632									
1SGCMD	Ċ	0004EA	9	3857	3844	3845								
4SGMSG				3858			2026							
	C	0004F3	128		3838	2022	3836							
1SGMVC	± T	0004E4	6	3855	3842									
1SGOK	1	0004B6	2	3840	3837									
MSGRET	I	0004D0	4	3851	3848									
1SGSAVE	F	0004D8	4	3854	3834	3851								
NKGRS	F	000180	4	4681										
NUMTESTS	U	00000B	1	3944	3915									
)RB	4	000000	32	4369	4399	4407	3586							
ORB1 0	X	000004	1	4372	.555	1 107	3300							
	X	000005	1	4379	3778									
ORB1_8					3//0									
ORBA	U	000010	1	4383										
ORBB	U	000004	1	4385										
ORBC	U	000004	1	4375										
ORBCCW	Α	800000	4	4397	3776									
ORBCSS	Χ	00000C	1	4401										
ORBCU	Χ	00000E	1	4404										
ORBD	U	000040	1	4392										
ORBF	Ü	000080	1	4380	3778									
ORBH	Ü	000002	1	4386	3778									
ORBI	Ü	000002	1	4382	3770									
			_											
ORBKEYM	U	0000F0	1	4373										
ORBL	U	000080	1	4390										
ORBLEN	U	00000C	1	4399										
ORBLPM	Χ	000006	1	4388										
ORBM	U	000002	1	4376										
ORBP	U	000040	1	4381										
ORBPARM	F	000000	4	4370										
ORBPGM	Χ	00000E	1	4403										
ORBRSV25	Û	00007E	1	4394										
ORBRSV26	Ü	00007E	1	4393										
			1											
ORBRSV3	U	00007F	1	4391										
ORBRSV4	U	080000	1	4398										
ORBRSV5	X	00000D	1	4402										
ORBRSV6	Х	00000F	1	4405										
DRBRSV7	Χ	000010	16	4406										
ORBS	U	000008	1	4374										
ORBT	Ü	000001	1	4387										
ORBU	Ŭ	000008	1	4384										
)RBX	II	000000	1	4395										
	IJ		1											
ORBXLEN		000020	1	4407										
ORBY	U	000001	1	4377										
ORRB1_24	Χ	000007	1	4389	3779									
PCFETO	Α	0000C4	1	4657										

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SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFER	ENCES													
ERACCID	Χ	0000A1	1	4635															
ERADDR	F	000098	4	4632															
ERCODE	Χ	000096	1	4629															
ERCODMK	U	0000F0	1	4630															
FX	U	0000E7	1	3913	3962	3970	3981	3991	4002	4012	4022	4048	4081						
GMACCID	Χ	0000A0	1	4634															
GMDXC	F	000090	4	4624															
GMICODE	Н	00008E	2	4623															
GMIID	F	00008C	4	4619															
GMIILC	Χ	00008D	1	4621															
GMIILCM	U	00000C	1	4622															
GMNPSW	F	000068	8	4601															
GMOPSW	F	000028	8	4573	4581														
GMTRX	F	000090	4	4625															
MCW1 0	Χ	000004	1	4435															
MCW1 8	X	000005	1	4438	3750	3756													
MCWB	Û	000004	1	4470	2.30	2.30													
MCWCHP0	X	000010	1	4459															
MCWCHP1	X	000011	1	4460															
MCWCHP2	X	000011	1	4461															
MCWCHP3	X	000012	1	4462															
MCWCHP4	X	000013	1	4463															
MCWCHP5	X	000014	1	4464															
MCWCHP6	X	000015	1	4465															
MCWCHP7	X	000017	1	4466															
MCWDNUM		000017	2	4450	3752														
	H																		
MCME	U	000080	1	4439	3756														
MCWEXC	X	00001B	1	4469															
MCWIP	F	000000	4	4434															
MCWISCM	U	000038	1	4436															
MCWLM	U	000060	1	4440															
MCWLMG	U	000020		4441															
MCWLML	U	000040	1	4442															
MCWLPM	X	800000	1	4452															
MCWLPUM	X	00000A	1	4454															
MCWM	U	000004	1	4446															
MCWMBI	Н	00000C	2	4456															
MCWMM	U	000018	1	4443															
MCWMMC	U	800000	1	4445															
MCWMME	U	000010	1	4444															
MCWPAM	X	00000F	1	4458															
MCWPIM	X	00000B	1	4455															
MCWPNOM	Χ	000009	1	4453															
MCWPOM	Χ	00000E	1	4457															
MCWRES1	Χ	000018	4	4467															
MCWRES2	Χ	000018	3	4468															
MCWS	U	000001	1	4472															
MCWT	U	000002	1	4447															
MCWV	U	000001	1	4448	3750														
MCWX	U	000002	1	4471															
0	U	000000	1	4788	3581 3831	3582 3834	3588 3836	3596 3838	3607 3840	3614 3851	3631	3634	3648	3649	3775	3776	3777	3824	
1	U	000001	1	4789	3590	3595	3631	3649	3653	3845	3855								
10	Ü	00000A	1		3624	3628	3631	3634	3636										
			_	4799	3624	3638		200.	2000										
11	U	00000B	1	4/99	20/4	7070													

ASMA Ver. 0.7.0				Var	ious C	KD Das	d CCW	tests.	• •					23 Feb	2024	10:04:	22 P	age	36
SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFER	ENCES													
R13	U	00000D	1	4801															
R14	U	00000E	1	4802	3622	3632	3635	3646	3677	3678	3726	3832	3852						
R15	U	00000F	1	4803	3651	3675	3724	3725	3737	3769	3825								
₹2	U	000002	1	4790	3591	3634	3666	3834	3840	3841	3842	3844	3851						
₹3	U	000003	1	4791	3583	3592	3594	3596	3613	3614	3722								
R4	U	000004	1	4792	3584	3606	3607	3610	3611	3654	3656	3777	3824						
R5	U	000005	1	4793	3585	3661													
R6	U	000006	1	4794															
R7	U	000007	1	4795															
88	U	800000	1	4796	3586	3723													
R9	U	000009	1	4797	3688	3690	3692	3694	3696	3699	3700	4060	4065	4067	1050	4074	4070	4000	
RCMT	U	000092	1	3912	4049	4051	4053	4055	4057	4059	4061	4063	4065	4067	4069	4071	4073	4089	
25		000006	4	2004	4091	4093	4095	4097	4099	4101	4103	4105	4107	4109	4111	4113			
RD	U	000006	1		3973	3983	4004	4041	1056	4050	1000	1000	1001	1000	4000	4070	4072	4000	
RDMT	U	000086	1	3911	4014 4092	4050 4094	4052 4096	4054 4098	4056 4100	4058 4102	4060 4104	4062 4106	4064 4108	4066 4110	4068 4112	4070	4072	4090	1
RSD	U	00003E	1	3907	3963	3992	4030	4030	4100	4107	4104	4100	4100	4110	4112				
RSTNPSW	F	000000	8	4567	2202	ンフラム													
RSTOPSW	F	000008	8	4568															
SCANOUT	Y	000080	° 1	4605	4606														
SCANOUTL	11	000000	1	4606	4000														
SCHIB	4	000000	52	4431	4478	3584	3746												
SCHIBL	Ū	000034	1	4478	7770	J J U T	3740												
SCHMBA	Δ	000034	8	4476															
SCHMDA1	X	000030	4	4477															
SCHMDA3	X	000028	12	4475															
SCHPMCW	X	000000	28	4433															
SCHSCSW	X	00001C	12	4474	3661														
SCSW	4	000000	12	4487	4549	3585													
SCSW0CC	U	000004	1	4503															
SCSW1	Χ	000002	1	4507															
SCSW2	Χ	000003	1	4516	3813														
SCSWACP	U	000001	1	4515															
SCSWADA	U	000040	1	4518															
SCSWAHP	U	000002	1	4514															
SCSWALKC	U	000010	1	4501															
SCSWARP	U	000008	1	4512															
SCSWASA	U	000080	1	4517															
SCSWASP	U	000004	1	4513															
SCSWASUS	U	000020	1	4519															
CSWATTN	U	000080	1	4529															
SCSWBUSY	U	000010	1	4532															
SCSWCCTL	U	000004	1	4544															
SCSWCCW	A	000004	4	4526	3817														
SCSWCCWF	U	000080	1	4498															
SCSWCCWP	U	000040	1	4499															
SCSWCDAT	U	800000	1	4543	2662	2672													
SCSWCE	U	000008	1	4533	3669	3673													
SCSWCHNG	U	000001	1	4546	2010														
SCSWCNT	H	A00000	2	4548	3818														
SCSWCS	X	000009	1	4538	3663														
SCSWCTLS	X	000001	1	4497															
SCSWCUE	U	000020	1	4531															
SCSWDCC0	U U	000000 000001	1	4493 4494															
SCSWDCC1		TATALALA IA	1	/1/19/1															

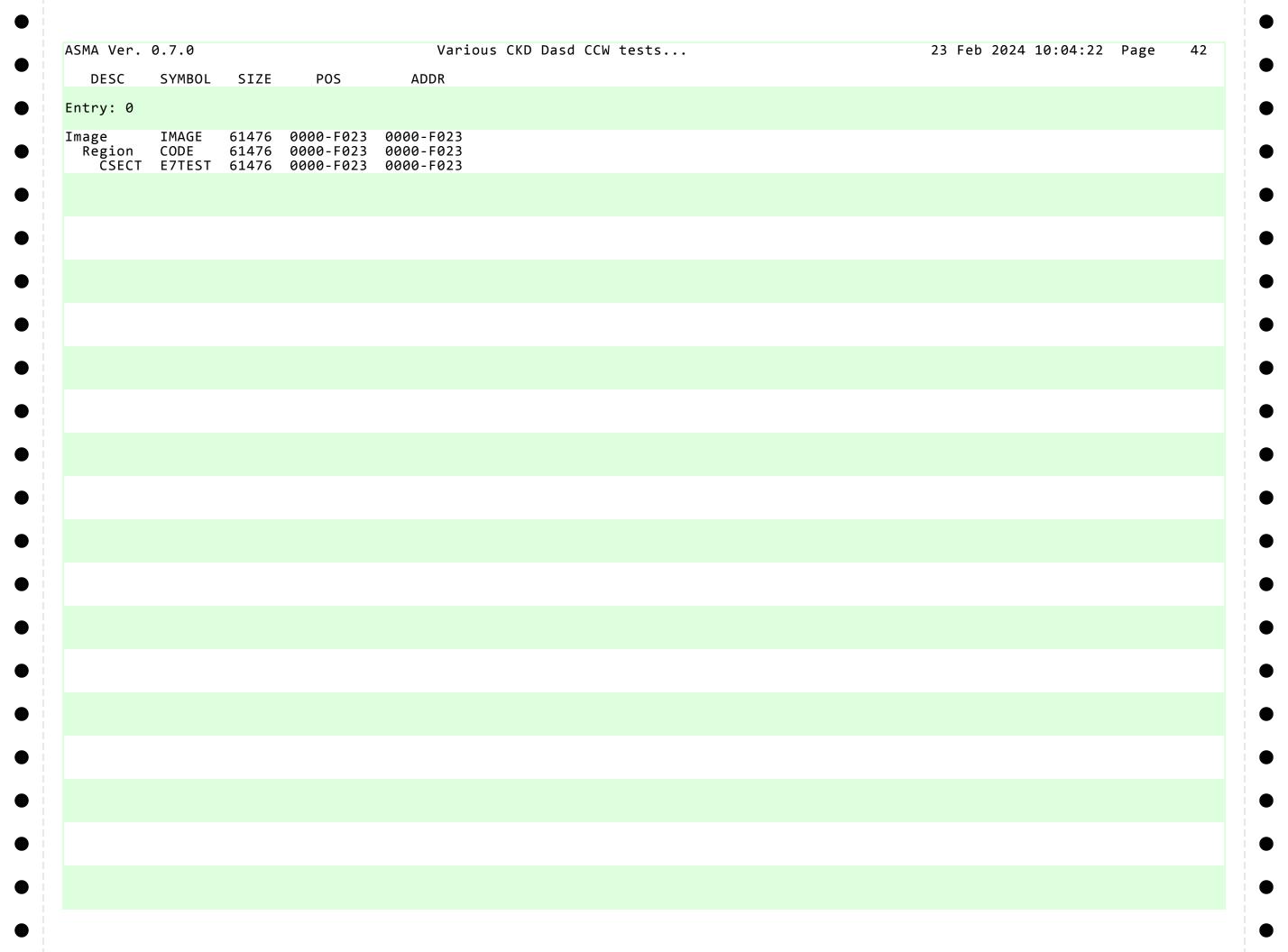
ASMA Ver. 0.7.0				Var	ious C	KD Das	d CCW	tests.	• •					23 Feb	2024	10:04:	22 Pa	ge	37
SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFER	ENCES													
CSWDCCM	U	000003	1	4492															
CSWDE	U	000004	1		3669	3673													
CSWECWC	U	000002	1	4504															
CSWESWF	U	000004	1	4491															
CSWFC	U	000010	1	4511															
CSWFH	U	000020	1	4510															
CSWFLAG	X	000000	1	4488															
CSWFM	U	000070	1	4508															
SCSWFS	U	000040	1	4509															
SCSWICTL	U	000002	1	4545															
SCSWIL	U	000040	1	4540															
SCSWISIC	U	000020	1	4500															
SCSWKEYM	U	0000F0	1	4489															
SCSWL	U	00000C	1	4549															
SCSWPCI	U	000080 000001	1	4539 4505															
SCSWPNOP SCSWPRGM	U U	000020	1 1	4505 4541															
SCSWPROT	U	000010	1	4541															
SCSWSAS	U	000010	1	4542 4520															
SCSWSINT	Ü	000010	1	4521															
SCSWSM	Ü	000000	1	4530															
SCSWSPEN	Ü	000040	1	4524															
CSWSPRI	Ü	000001	1	4522	3815														
SCSWSSEC	Ü	000007	1	4523	3013														
SCSWSSIC	Ü	000008	1	4502															
SCSWSUSC	Ŭ	000008	ī	4490															
SCSWUC	Ü	000002	1	4535															
SCSWUS	X	000008		4528	3669	3673	3814												
SCSWUX	U	000001	1	4536															
SEEK	U	000007	1	3905	4038														
SENSEPGM	R	0006F8	1	3955	3775														
SIDEQ	U	000031	1	3910	4039														
SLI	U	000020	1	3899	3955 4004	3962 4012	3963 4013		3971 4022	3972 4041	3973	3981	3982	3983	3991	3992	4002	4003	
SNS	U	000004	1	3902	3955														
SNSBYTES	X	000CB8	32	4120	3955														
SARCHMD	X	0000A3	1	4637															
SSARS	F	000120	4	4693															
SSCLKCMP	F	0000E0	8	4687															
SSCPUTIM	F	0000D8	8	4686															
SSCRS	F	0001C0	4	4696															
SSFPRS	D	000160	8	4694															
SSGRS	F	000180	4	4695															
SSMODEL	F	00010C	4	4691															
SPREFIX	F	000108	4	4690															
SSPSW	F	000100	8	4689															
SXSAA	Α	0000D4	4	4685															
STFLDATA	F	0000C8	4	4658															
SVCICODE	H	00008A	2	4617															
SVCIID	F	000088	4	4613															
SVCIILC	Х	000089	1	4615															
SVCIILCM	U	00000C	1	4616															
VCNPSW	F	000060	8	4600															
SVCOPSW	F	000020	8	4572	4579														
10_CHPGM	R	000AE0	1	4048	3939														
10 COUNT	Χ	0011A0	8	4283	4049	4051	4053	4055	4057	4059	4061	4063	4065	4067	4069	4071	4073	4089	

ASMA Ver. 0.7.0				Var	ious C	KD Das	d CCW	tests.	• •					23 Feb	2024	10:04:	22 P	age	38
SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFER	ENCES													
					4091	4093	4095	4097	4099	4101	4103	4105	4107	4109	4111	4113			
[10_CYL	U	000003	1	4243	4261	4262	4271												
Γ10_DATA	X	0011A8	4096	4284	4050 4094	4052 4096	4054 4098	4056 4100	4058 4102	4060 4104	4062 4106	4064 4108	4066 4110	4068 4112	4070	4072	4090	4092	-
T10 DESC	С	000AA8	50	4045	4046	3939	1030	1200	1102	1201	1200	1200	1110						
Γ10_5250 Γ10 E7DAT	X	00115F	65	4241	4048	3232													
Γ10 HEAD	Û	000000	1	4244	4261	4271													
T10_MSGLN	Ü	000032	1	4046	3939	72/1													
T11_CHPGM	R	000BE8	1	4081	3940														
Γ11_CYL	Ü	000003	1	4291	4309	4310	4319												
11_CTE	Ċ	000BB0	51	4077	4078	3940	7313												
T11_BLSC	X	0021A8	65	4289	4081	JJ 4 0													
11_L/DAT	Û	000001	1	4292	4309	4319													
Γ11_MSGLN		000033	1	4078	3940	4313													
	U																		
T1_3EBUF	X	000D24	256	4131	3963														
[1_CHPGM	R	000740	1	3962	3928	2020													
1_DESC	C	000700	62	3959	3960	3928													
1_E7DAT	X	000CD8	12	4124	4130	3962													
1_E7LEN	U	00004C	1	4130	3962														
[1_MSGLN	U	00003E	1	3960	3928														
⁻ 2_06BUF	Χ	000E84	10	4138	3973	3974													
⁻ 2_06IDA	Α	0007C8	8	3974	3973														
⁻ 2_47DAT	Χ	000E74	16	4137	3972														
⁻ 2_63DAT	Χ	000E64	16	4136	3971														
T2_CHPGM	R	0007A8	1	3970	3931														
Γ2_DESC	C	000750	85	3967	3968	3931													
Γ2_E7DAT	Χ	000E24	64	4135	3970														
Γ2_MSGLN	U	000055	1	3968	3931														
Γ3 [™] 06BUF	Χ	000EDE	10	4148	3983	3984													
Γ3 ⁻ 06IDA	Α	000840	8	3984	3983														
Γ3 [—] 47DAT	Χ	000ECE	16	4147	3982														
Γ3 CHPGM	R	000828	1	3981	3932														
T3_DESC	C	0007D0	87		3979	3932													
T3 E7DAT	X	000E8E	64	4142	3981														
Γ3 MSGLN	Û	000057	1	3979	3932														
T4 3EBUF	X	000EE8	256	4152	3992	3995													
T4_3EIDA	Δ	000EE8	8	3995	3992														
T4_SEIDA T4_CHPGM	R	0008C0	1	3991	3933														
r4_cnrom r4_DESC	C	000848	86	3988	3989	3933													
Γ4_DESC Γ4 E7DAT	Y	000648 00EFD8	76	4170	3991	2233													
T4_E7DAT T4_E7DAT PART1	X	00EFD8	40	4170	3993														
		OUE FUS	40	41/2	2223														
Γ4_E7DAT_PART1_LEN		000000	1	1166	1167	4160	1172												
IA EZDAT DARTO	U	000028	1	4166	4167	4169	41/2												
T4_E7DAT_PART2	Χ	00F000	36	4177	3994														
T4_E7DAT_PART2_LEN		000004	a	4467	4477														
-	U	000024	1	4167	4177														
T4_E7DAT_PART2_ORG		005000		44.55	44.55														
	U	00F000	1	4163	4169														
T4_E7DAT_TOTAL_LEN																			
	U	00004C	1	4165	4167	4170													
Γ4_E7IDA	Α	0008B0	8	3993	3991														
T4_MSGLN	U	000056	1	3989	3933														
Г5_06BUF	Χ	001038	10	4194	4004	4005													
Γ5 ⁻ 06IDA	Α	000950	8	4005	4004														
Γ5 47DAT	Χ	001028	16	4193	4003														
T5 CHPGM	R	000938	1	4002	3934														

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SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFER	ENCES							
5 DESC	С	0008C8	111	3999	4000	3934							
5 ^E 7DAT	X	000FE8	64	4188	4002								
5 MSGLN	U	00006F	1	4000	3934								
6_47DAT	X	001082	16	4203	4013								
6 86BUF	X	001092	10	4204	4014	4015							
6 86IDA	A	0009C8	8	4015	4014	.025							
6 CHPGM	R	0009B0	1	4012	3935								
6 DESC	Ċ	000958	81	4009	4010	3935							
6 E7DAT	X	001042	64	4198	4012								
6 MSGLN	Û	000051	1	4010	3935								
7 CHPGM	R	000031	1	4022	3936								
7 DESC	C	000A00	47	4019	4020	3936							
7_BESC 7 E7DAT	X	000300 00109C	12	4208	4213	4022							
7_E7LEN	Û	000040	1	4213	4022	4022							
				4020									
T7_MSGLN	U	00002F	1	4020	3936								
T8_CHPGM	R	000A38	1		3937	2027							
8_DESC	L	000A08	44	4026	4027	3937							
8_DXDAT	X	0010DC	16	4218	4219	4029							
8_DXLEN	U	000010	1	4219	4029	4020							
8_LRDAT	X	0010EC	16	4221	4222	4030							
8_LRLEN	U	000010	1	4222	4030								
8_MSGLN	U	00002C	1	4027	3937								
8_WDDAT	X	0010FC	8	4224	4225	4031							
8_WDLEN	U	800000	1	4225	4031								
⁻ 9_CHPGM	R	000A88	1	4038	3938								
9_DESC	С	000A50	51	4035	4036	3938							
「9_MSGLN	U	000033	1	4036	3938								
Γ9_RDDAT	С	00110F	80	4235	4236	4041							
Γ9_RDLEN	U	000050	1	4236	4041								
Γ9_SICCW	R	000A90	1	4039	4040								
「9 [™] SIDAT	X	00110A	5	4232	4233	4039							
Γ9 [™] SILEN	U	000005	1	4233	4039								
Γ9_SKDAT	Х	001104	6		4230	4038							
⁻ 9 ⁻ SKLEN	U	000006	1	4230	4038								
ESTLEN	U	000014	1	3929	3944	3631	3636						
ESTLOOP	Ĭ	00024E	4	3626	3638								
ESTNEXT	Ţ	000270	4	3636	3629								
ESTNUM	Ū	000270	1	3917	3589	3648	3699						
ESTOK	T	0002C4	4	3677	3671	2370							
ESTONLY	R	000100	1	3553	3626	3628							
ESTR14	Δ	000100 0002CC	4	3680	3646	3677							
ESTTAB	٨	000618	4	3926	3929	3944	3915						
ESTTHIS	T	000260	4	3631	3627	5544							
IC 511412	U	000260	4 1	3906	4040								
IMER		000050	=		4040								
	Г С		4	4596 4597									
TDES	F	000054	4	4597									
A0	F	000010	8	4569									
IA1	F	00004C	4	4594									
A2	F	0000A4	4	4639									
IA3	F	0000B4	4	4648									
Α4	Χ	0000B8	1	4649									
IA5	Χ	0000CC	8	4659									
JA6	Χ	0000EC	8	4665									
IA7	F	000118	8	4676									
A8	Χ	000180	32	4705									
D	U	000005	1	3903	4031								

NESWOOL TYPE VALUE LENGTH DEFN REFERENCES WHOSWOOLD 3 000428 16 3798 3797 ZARCHOK I 000232 4 3610 3597 ZERCHOKI A 000110 8 4673 ZERCHOKI A 000110 8 4673 ZEMONIT A 000110 8 4673 ZEXTOPSW X 000130 16 4708 ZEXTOPSW X 000130 16 4708 ZEXTOPSW X 000110 16 4702 ZEXTOPSW X 000110 16 4702 ZEXTOPSW X 000110 16 4703 ZEXTOPSW X 000110 16 4702 ZEXTOPSW X 000110 16 4703 ZEXTOPSW X 000110 16 4709 ZEXTOPSW	A Ver. 0.7.0				Var	ious CKD Dasd CCW tests	23 Feb 2024 10:04:22	Page	40
ZARCHOK I 00232 4 3610 3597 ZBRKADDR A 000110 8 4675 ZEMONCTT F 00010C 4 4674 ZEMONSIZ F 000108 4 4673 ZEXTNPSW X 000180 16 4708 ZEXTOPSW X 000130 16 4700 ZIONPSW X 000170 16 4704 ZIONPSW X 000160 16 4704 ZMCKNPSW X 000160 16 4701 ZMCKOPSW X 000160 16 4703 ZMKFAILA F 0000F8 8 4667 ZMONCODE F 00000B 8 4642 ZPGMNPSW X 000150 16 4710 ZPGMNPSW X 000150 16 4702 ZPGMNPSW X 000150 16 4702 ZPGMNPSW X 000150 16 4702 ZPGMNRX F 0000A8 8 4641 ZRSTNPSW X 000120 16 4699 ZSXODSW X 000140 16 4707 ZRSTOPSW X 000140 16 4701 ZSXONPSW X 000140 16 4701 ZSXONPSW X 000140 16 4707 ZRSTOPSW X 000140 16 4707 ZSXONPSW X 000140 16 4709 ZSXONPSW X 000140 16 4701	SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFERENCES			
ZBRKADDR A 000110 8 4675 ZEMONCTT F 00010C 4 4674 ZEMONSIZ F 000108 8 4672 ZEMONSIZ F 000188 4 4673 ZEXTNPSW X 000130 16 4708 ZEXTNPSW X 000130 16 4700 ZIONPSW X 000170 16 4704 ZMCKNPSW X 000160 16 4711 ZMCKOPSW X 000160 16 4701 ZMCKNPSW X 000160 16 4703 ZMKFAILA F 0000F8 8 4667 ZMNFAILA F 0000F8 8 4667 ZMNFOODE F 000080 8 4642 ZPGMNPSW X 000150 16 4700 ZPGMTRX F 0000A8 8 4641 ZRSTNPSW X 000160 16 4707 ZRSTOPSW X 000110 16 4699 ZSSYOPSW X 000110 1 4713 ZSVCNPSW X 000140 16 4701 ZSVCNPSW X 000160 1 4713 ZSVCNPSW X 000160 1 4701									
ZEMONCNT						3597			
ZEMONSTZ F 000108 4 4673 ZEMONSTZ F 000108 4 4673 ZEXTNPSW X 000180 16 4708 ZEXTNPSW X 000130 16 4700 ZIONPSW X 000170 16 4712 ZMCKNPSW X 000160 16 4711 ZMCKOPSW X 000160 16 4711 ZMCKOPSW X 000160 16 4703 ZMKFAILA F 0000F8 8 4667 ZMONCODE F 0000B0 8 46642 ZPGMNPSW X 0001D0 16 4710 ZPGMOPSW X 0001D0 16 4710 ZPGMOPSW X 0001D0 16 4702 ZPGMTX F 0000A8 8 4641 ZRSTNPSW X 0001A0 16 4702 ZPGMTX F 0000A8 8 4641 ZRSTNPSW X 0001LO 1 4703 ZSSYCOPSW X 0001LO 1 4713 ZSVCNPSW X 0001CO 1 4701 ZSVCOPSW X 0001A0 16 4701 =AL2(L'MSGMSG) R 0006F6 2 3948 3836		A							
ZEMONSIZ F 000108 4 4673 ZEXTNPSW X 0001B0 16 4708 ZEXTOPSW X 000130 16 4700 ZIONPSW X 0001F0 16 4712 ZIONPSW X 000170 16 4704 ZMCKNPSW X 000160 16 4701 ZMCKNPSW X 000160 16 4703 ZMKFAILA F 0000F8 8 4667 ZMONCODE F 0000B0 8 4642 ZPGMNPSW X 0001D0 16 4710 ZPGMNPSW X 000150 16 4702 ZPSTNPSW X 0001A0 16 4707 ZRSTNPSW X 0001A0 16 4699 ZSSSDISP U 0011C0 1 4713 ZSVCNPSW X 000160 16 4709 ZSVCOPSW X 000160 16 4709 ZSVCOPSW X 000160 16 4701		F							
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ASMA Ver.	0.7.0				\	/arious	CKD Da	sd CCW tests	23 Feb 2024 :	L0:04:22	Page	41
MACRO	DEFN	REFEREN	ICES									
ANTR APROB	124 256											
ARCHIND ARCHLVL ASAIPL	416 557 683	3446 3445										
SALOAD SAREA	763 818	3528 4559										
SAZAREA PUWAIT SECTS	1003 1086 1412	3794 4335	4367	4414	4429	4485	4556					
WAIT WAITEND NADEV	1615 1672 1680	3743										
SA390 OCB OCBDS	1780 1791 1967	3869 4336										
OFMT OINIT	2001 2339	4368 3732	4415	4430	4486	4718	4736	4744				
OTRFR ORB OINTER	2380 2428 2617	3885										
SWFMT AWAIT AWIO	2645 2779 2875	3781										
SIGCPU SMMGR	3033 3091	3701										
MMGRB RAP128 RAP64	3191 3240 3217	3540 3530	3533									
RAPS ARCH EROH	3253 3327 3339											
EROL EROLH EROLL	3367 3395 3418											
LKOLL	3410											



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					23 FED	2024	10.04.22	rage	43
STMT 1 C:\Us	ers\Fish\Documents\Visual	FILE N Studio 2008\Projects\		ix\E7Prefix.asm					
2 C:\Us	<pre>ers\Fish\Documents\Visual ers\Fish\Documents\Visual</pre>	Studio 2008\Projects\	Hércules_Git_Harold\SA	TK-0\srcasm\satk.	mac				
** NO FRROR	S FOUND **								
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