SMA Ver. 0	.2.1		GitHub I	ssue #572	Prefix CCW tests 29 Jun 2023 05:16:07 Page	1
LOC	OBJECT CODE	ADDR1	ADDR2	STMT		
				——————————————————————————————————————	**********************	
				3 * 4 *	E7Prefix	
				5 * 6 *	GitHub Issue #572	
				7 * 8 * 9 *	"z/VM 7.2 IPL'ing as guest of itself CCW Command Rejects"	
				10 * 11 * 12 *	<pre>https://github.com/SDL-Hercules-390/hyperion/issues/572 #issuecomment-1606223921</pre>	
				13 * 14 * 15 *	(Thank you to Aaron Finerman for devising these tests for us!)	
				16 * 17 * 18 *	OVERVIEW	
				19 * 20 * 21 *	This test program simply executes a few selected E7 Prefix CCW channel programs to verify Hercules's E7 Prefix CCW support is working properly.	
				22 * 23 * 24 *	All channel programs (except for one of them) are expected to	
				25 * 26 * 27 *	complete normally without error (SCSW = CE+DE = X'0C00'). One them however (test #5) is purposely designed to always fail	
				28 * 29 * 30 *	in order to verify Hercules properly rejects the invalid channel program and does not mistakenly accept and process it instead. Test #6 is the corrected form of this same test which should,	
				31 * 32 * 33 *	just like all of the other tests, always succeed.	
				34 * 35 * 36 *	Except for Test #1, all of the other tests (#2-#6) also specify IDA (Indirect Data Addressing) in some of their CCWs in order to verify proper Hercules handling of that too.	
				37 * 38 * 39 *	Test #4 is especially important in that it specifies IDA in its	
				40 * 41 * 42 *	E7 Prefix CCW to cause its data to be accessed in TWO chunks (i.e. its IDAL contains TWO entries in it), whereas all other IDA usage is only used in the Read 06 and Read 86 CCWs where	
				43 * 44 * 45 *	the IDAL only has one entry in it so as to simply redirect the read to elsewhere.	
				46 * 47 ***	***********************	

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LOC	OBJECT CODE	ADDR1	ADDR2	STMT			
				49 3430	PRINT OFF PRINT ON		
				3432 ******* 3433 * 3434 ******	**************************************	**************************************	**
				3436 3438+\$AL 3439+\$ALR 3440+\$B 3441+\$BAS 3442+\$BASR 3443+\$BC	OPSYN AL OPSYN ALR OPSYN B OPSYN BAS OPSYN BASR OPSYN BC	ARCHIND=YES, MNOTE=NO	
				3444+\$BCTR 3445+\$BE 3446+\$BH 3447+\$BL 3448+\$BM	OPSYN BCTR OPSYN BE OPSYN BH OPSYN BL OPSYN BM		
				3449+\$BNE 3450+\$BNH 3451+\$BNL 3452+\$BNM 3453+\$BNO	OPSYN BNE OPSYN BNH OPSYN BNL OPSYN BNM OPSYN BNO		
				3454+\$BNP 3455+\$BNZ 3456+\$BO 3457+\$BP 3458+\$BXLE	OPSYN BNP OPSYN BNZ OPSYN BO OPSYN BP OPSYN BXLE		
				3459+\$BZ 3460+\$CH 3461+\$L 3462+\$LH	OPSYN BZ OPSYN CH OPSYN L OPSYN LH		
				3463+\$LM 3464+\$LPSW 3465+\$LR 3466+\$LTR 3467+\$NR	OPSYN LM OPSYN LPSW OPSYN LR OPSYN LTR OPSYN NR		
				3468+\$SL 3469+\$SLR 3470+\$SR 3471+\$ST	OPSYN SL OPSYN SLR OPSYN SR OPSYN ST		
				3472+\$STM 3473+\$X 3474+\$AHI 3475+\$B	OPSYN STM OPSYN X OPSYN AHI OPSYN J		
				3476+\$BC 3477+\$BE 3478+\$BH 3479+\$BL	OPSYN BRC OPSYN JE OPSYN JH OPSYN JL		
				3480+\$BM 3481+\$BNE 3482+\$BNH 3483+\$BNL	OPSYN JM OPSYN JNE OPSYN JNH OPSYN JNL		
				3484+\$BNM 3485+\$BNO	OPSYN JNM OPSYN JNO		

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LOC	OBJECT CODE	ADDR1	ADDR2	STMT			
				3486+\$BNP	OPSYN	JNP	
				3487+\$BNZ	OPSYN		
				3488+\$B0 3489+\$BP	OPSYN OPSYN		
				3490+\$BXLE	OPSYN		
				3491+\$BZ	OPSYN		
				3492+\$CHI	OPSYN		
				3493+\$AHI	OPSYN		
				3494+\$AL 3495+\$ALR	OPSYN OPSYN		
				3496+\$BCTR		BCTGR	
				3497+\$BXLE	OPSYN	JXLEG	
				3498+\$CH	OPSYN		
				3499+\$CHI 3500+\$L	OPSYN OPSYN		
				3500+\$L 3501+\$LH	OPSYN		
				3502+\$LM	OPSYN		
				3503+\$LPSW	OPSYN	LPSWE	
				3504+\$LR	OPSYN		
				3505+\$LTR 3506+\$NR	OPSYN OPSYN		
				3507+\$SL	OPSYN		
				3508+\$SLR	OPSYN	SLGR	
				3509+\$SR	OPSYN		
				3510+\$ST 3511+\$STM	OPSYN OPSYN		
				3512+\$X	OPSYN		
				3322.47	0.0	Α .	
				3514 ******	*****	******	*********
				3515 *			CT in the CODE region
				3516 * 3517 ******	with *****	the location counte	er at 0 ***********
				3519 E7TEST	ASALO	AD REGION=CODE	
		00000000	00002023	3520+E7TEST	START	0,CODE	
00000000	00020000 00000000	00000010	00000050	3522+	PSW	0,0,2,0,X'008'	64-bit Restart ISR Trap New PSW
00000010 00000058	00020000 00000000	00000010	00000058	3523+ 3525+	ORG PSW	E7TEST+X'058' 0,0,2,0,X'018'	64-bit External ISR Trap New PSW
00000058	00020000 00000000			3525 + 3526+	PSW PSW	0,0,2,0,X'020'	64-bit Supervisor Call ISR Trap New PSW
00000078	00020000 00000000			3527+	PSW	0,0,2,0,X'028'	64-bit Program ISR Trap New PSW
00000088	00020000 00000000			3528+	PSW	0,0,2,0,X'030'	64-bit Machine Check Trap New PSW
00000098	00020000 00000000	0000000	00000110	3529+	PSW	0,0,2,0,X'038'	64-bit Input/Output Trap New PSW
000000A8 000001A0	00020000 00000000	000000A8	000001A0	3530+ 3532+	ORG PSWZ	E7TEST+X'1A0' 0,0,2,0,X'120'	Restart ISR Trap New PSW
000001H0	00020000 00000000			3533+	PSWZ	0,0,2,0,X'130'	External ISR Trap New PSW
000001C0	00020000 00000000			3534+	PSWZ	0,0,2,0,X'140'	Supervisor Call ISR Trap New PSW
000001D0	00020000 00000000			3535+		0,0,2,0,X'150'	Program ISR Trap New PSW
000001E0 000001F0	00020000 00000000 00020000 00000000			3536+ 3537+		0,0,2,0,X'160' 0,0,2,0,X'170'	Machine Check Trap New PSW Input/Output Trap New PSW
22333113	11020000000			2337.	. 5112	-,-,-,0,1	

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                                   GitHub Issue #572 Prefix CCW tests
                                                                                         29 Jun 2023 05:16:07 Page
 LOC
           OBJECT CODE
                           ADDR1
                                    ADDR2
                                            STMT
                                            LOW CORE
                                            ORG
                                                              E7TEST+X'1A0'
00000200
                          00000200 000001A0
                                            3543
                                                                                            z/Arch Restart New PSW
                                            3544
                                                              0D'0',XL8'0000000180000000'
000001A0
        0000001 80000000
                                                         DC
000001A8
        0000000 00000200
                                            3545
                                                         DC
                                                              AD(BEGIN)
                                                              E7TEST+X'1D0'
000001B0
                          000001B0 000001D0
                                            3547
                                                         ORG
                                                                                            z/Arch Program New PSW
000001D0
        00020001 80000000
                                            3548
                                                         DC
                                                              0D'0',XL8'0002000180000000'
        0000000 0000DEAD
                                                         DC
                                                              AD(X'DEAD')
000001D8
                                            3549
                                            3552 *
                                                                    ENTRY POINT CODE
                                            3553 *************
                                            3554 *
                                            3555 *
                                                             (work) (also ENADEV macro's I/O device during startup)
                                                    R1
                                            3556 *
                                                    R2
                                                             (work)
                                            3557 *
                                                    R3
                                                             IOCB pointer (set by INIT, needed by ENADEV macro)
                                                             SCHIB pointer (tempoarily used at INIT during ENADEV)
                                            3558 *
                                                    R4
                                            3559 *
                                                             SCHSCSW pointer (also temporarily used for CPU register
                                            3560 *
                                                             when signaling architecture change during startup)
                                                             (work) (also used as signaling registers when changing
                                            3561 *
                                                    R6, R7
                                            3562 *
                                                             architecture during startup)
                                            3563 *
                                                             ORB pointer (set by INIT, used by EXCP subroutine)
                                                    R8
                                            3564 *
                                                    R9-R15
                                                             (work)
                                                                     ****************
                                            3565 ********
000001E0
                          00000000
                                            3567
                                                         USING E7TEST, R0
                                                                               Low core addressability
                          00000000
                                            3568
                                                         USING ASA, RO
                                                                               Low core addressability
000001E0
                                                                               SATK Device I/O-Control Block
                          00000000
                                            3569
                                                         USING IOCB, R3
000001E0
                                                         USING SCHIB, R4
                                                                               ESA/390 Subchannel Information Block
000001E0
                          00000000
                                            3570
                                                         USING SCSW, R5
                                                                               ESA/390 Subchannel Status Word
000001E0
                          00000000
                                            3571
000001E0
                          00000000
                                            3572
                                                         USING ORB, R8
                                                                               ESA/390 Operation-Request Block
000001E0
                                                              E7TEST+X'200'
                          000001E0
                                   00000200
                                            3574
                                                         ORG
                          00000200
                                   00000001
                                            3575 BEGIN
                                                         EQU
                                                         SLR
00000200 1F00
                                            3576
                                                              R0,R0
                                                                               Start clean (SIGP status register)
00000202 9200 0200
                                   00000200
                                            3577
                                                         MVI
                                                              TESTNUM, 0
                                                                               Initialize Test number
00000206 1F11
                                                         SLR
                                                              R1,R1
                                                                               Start clean (SIGP parm register)
                                            3578
00000208 1F22
                                            3579
                                                              R2,R2
                                                                               Start clean
                                                         SLR
                                                                               Start clean (SIGP target CPU)
0000020A 1F33
                                            3580
                                                         SLR
                                                              R3,R3
0000020C 4130 0000
                                                              R3,0
                                                                               Target CPU = CPU #0
                                   00000000 3582
                                                         LA
                                                                               Parm register = z/Arch mode
00000210 4110 0001
                                   00000001 3583
                                                         LA
                                                              R1,1
                                                         SIGP R0,R3,X'12'
00000214 AE03 0012
                                                                               Order code = z/Arch mode
                                   00000012 3584
00000218 4780 0232
                                   00000232 3585
                                                         BC
                                                              B'1000',ZARCHOK
                                                                               CC0 = success: continue
0000021C 4740 0228
                                                              B'0100', CHKZARCH
                                                                               CC1 = status stored: check further
                                   00000228 3586
                                                         BC
                                                              B'0010',FAILCPU0
B'0001',FAILCPU0
00000220 4720 02D0
                                   000002D0 3587
                                                         BC
                                                                               CC2 = busy: FAIL
                                                                               CC3 = not operational: FAIL
00000224 4710 02D0
                                   000002D0 3588
                                                         BC
```

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LOC	OBJECT CODE	ADDR1	ADDR2	STMT			
				3591 * E	nsure	test program execut	**************************************
0000022C	4140 0100 1504 A774 0051		00000100 000002D0	3594 CHKZARCH 3595 3596		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	3598 ZARCHOK 3599	LA STH	R4,BEGIN0 R4,X'1AE'	Point to CPU #0 entry point Update Restart PSW
	4130 0000 AE03 0006		00000000 00000006	3601 3602	LA SIGP	R3,0 R0,R3,X'6'	Target CPU = CPU #0 Order code = Restart
00000242	B2B2 02D0		000002D0	3604	LPSWE	FAILCPU0	WTF?! How did we get here?!

00000246	45E0 0368		00000368	3610 BEGIN0	BAL	R14,INIT	Initalize Program
0000024A	98AB 0610		00000610	3612	LM	R10,R11,ATESTTAB	R10> table, R11 <== #of entries
00000252	9500 0FFF 4780 0260 D500 0FFF A003	00000555	00000FFF 00000260 00000003	3614 TESTLOOP 3615 3616	BE		Do only specific test? No, do all tests Is the test they want?
	4770 0270	00000111	0000003				No, skip this test
	9801 A00C 45E0 04A0		0000000C 000004A0	3619 TESTTHIS 3620		R0,R1,(TESTLEN-(2*4 R14,MSG	1))(R10) R0 <== MSG LEN, R1> MSG Report which test this is
0000026C	9802 A000 45E0 027C 41A0 A014		00000000 0000027C 00000014	3622 3623 3624 TESTNEXT		R14,DÓTÈST	Load test parms from table Perform this test R10> next test table entry
00000274	46B0 024E		0000024E	3626	ВСТ	R11,TESTLOOP	Loooop until no more tests
00000278	B2B2 0308		00000308	3628	LPSWE	GOODPSW	E7TEST SUCCESS!

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LOC	OBJECT CODE	ADDR1	ADDR2	STMT			
				3631 *	Gener	ic TEST subroutine:	**************************************
0000027C	50E0 02CC		000002CC	3634 DOTEST	ST	R14,TESTR14	Save return address
00000280 00000284	4200 0200 1801		00000200	3636 3637	STC LR	R0,TESTNUM R0,R1	Save this test's test number R0> This test's Channel Program
00000286	45F0 03E2		000003E2	3639	BAL	R15,EXCP	Execute this Channel Program
0000028A 0000028E	5810 3000 5840 3028		00000000 00000028	3641 3642	L L	R1,IOCBDID R4,IOCBSIB	R1 <== Subchannel R4 <== SCHIB address
00000292 00000296	B234 4000 4770 02D8		00000000 000002D8	3644 3645	STSCH BC	0(R4) B'0111',FAILSCH	Store Subchannel for our device FAIL if anything other than CC0
				3647 *	Verif	y correct/expected	I/O completion
0000029A	4150 401C		0000001C	3649	LA	R5,SCHSCSW	R5> SCSW
0000029E 000002A2	9500 5009 4770 02F0		00000009 000002F0	3651 3652	CLI BNE	SCSWCS,0 FAILTEST	Clean channel status? No?! ALWAYS FAIL THE TEST!
000002A6 000002A8	1222 4770 02B8		000002B8	3654 3655	LTR BNZ	R2,R2 ERRTEST	I/O error expected for this test? Yes, then verify there was an error
000002AC 000002B0 000002B4	950C 5008 4770 02F0 47F0 02C4		00000008 000002F0 000002C4	3657 3658 3659	CLI BNE B	SCSWUS, SCSWCE+SCSW FAILTEST TESTOK	DE Check for normal successful I/O No?! FAIL! Yes, then we're done; return
000002B8 000002BC			000002C4 00000008 000002F0 000003DE	3661 ERRTEST 3662	CLI BE BAL	SCSWUS, SCSWCE+SCSW FAILTEST R15, DOSENSE	
000002C4 000002C8	58E0 02CC 07FE		000002CC	3665 TESTOK 3666	L BR	R14,TESTR14 R14	Restore R14 return address Return to caller
000002CC	00000000			3668 TESTR14	DC	A(0) Test subr	outine saved R14 return address

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LOC	OBJECT CODE	ADDR1	ADDR2	STMT	
				3670 ************************************	
				3674 * Test failure routines to load specific failure PSW	
000002D8	4190 0328 47F0 02F8 4190 0338		00000338	3676 FAILCPU0 LA R9,BAD66PSW SIGP failed 3677 B FAIL 3678 FAILSCH LA R9,BAD77PSW STSCH failed	
000002E0	47F0 02F8 4190 0348		00000348	3679 B FAIL 3680 FAILDEV LA R9,BAD88PSW ENADEV failed	
000002E8	47F0 02F8 4190 0358		00000358	3681 B FAIL 3682 FAILIO LA R9,BAD99PSW RAWIO failed	
000002F0	47F0 02F8 4190 0318 47F0 02F8			3683 B FAIL 3684 FAILTEST LA R9,FAILPSW One of our overall tests failed 3685 B FAIL	
	D200 900F 0200 B2B2 9000	0000000F	00000200 00000000	3687 FAIL MVC 16-1(1,R9),TESTNUM Put failing test# into PSW 3688 LPSWE 0(R9) Load failure PSW	
				3690 * 3691 ** Overall test SUCCESS / FAILURE disabled wait PSWs 3692 *	
	00020001 80000000 00020001 80000000			3694 GOODPSW DC	
				3697 * 3698 ** Specific unexpected failure disabled wait PSWs 3699 *	
00000348	00020001 80000000 00020001 80000000 00020001 80000000 00020001 80000000			3701 BAD66PSW DC	

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LOC	OBJECT CODE	ADDR1	ADDR2	STMT			

				3707 *	Progr	am Initialization *******	*********
				3/08 ******	****	* * * * * * * * * * * * * * * * * * *	*****
0000368	4130 0574		00000574	3710 INIT	LA	R3,IOCB_A80	R3> IOCB
	E380 3018 0004		00000018		LG	R8, IOCBORB	R8> ORB
0000372	45F0 037C		0000037C	3712	BAL	R15,IOINIT	Init CPU for I/O operations
	45F0 038A		0000038A		BAL		Enable device for I/O
000037A	07FE			3714	BR	R14	Return to caller
				3716 ******	*****	******	*********
				3717 *			
				3718 ******	*****	******	I/O operations *********
	D766 0204		00000000	3720 IOINIT	IOINI		
	B766 0384			3721+IOINIT		6,6,IOMK0007	Enable subchannel subclasses for interruptions
0000380 0000384	47F0 0388		00000388	3/22+ 3723+IOMK0007	B	IOMK0007+4 0F	
00000384	FF000000			3724+	DC	XL4'FF000000'	All subchannel subclasses enabled
0000388	07FF			3725	BR	R15	Return to caller
				3727 ******	*****	******	********
				3728 *	Enabl	e the device, maki	ng it ready for use
				3729 ******	****	********	**********
0000000	E010 03D4		00000001	3731 ENADEV		V ENAOKAY, FAILDEV	,REG=4
1000038A 1000038E	5810 03D4		000003D4 00000028	3732+ENADEV	L ¢ı	1,FIND0008	Locate where the SCHIB is to be stored
1000038E 10000394	E340 3028 0004	00000000	00000028	3734+	\$L USTNG	4,IOCBSIB SCHIB,4	Locate where the SCHIB IS to be Stored
0000394		0000000		3735+FINL0008			channel Information Block for desired device num
0000394	B234 4000		00000000		STSCH		Store the SCHIB for first subchannel
	A774 FFA4		000002E0		\$BC	B'0111',FAILDEV	Subchannel does not exist and device number no
	9101 4005			3738+	TM	PMCW1_8,PMCWV	Is the subchannel device number valid?
00003A0	A784 0011	000000	000003C2		\$BZ	FINN0008	No, check the next subchannel
00003A4	D501 4006 3004	00000006		3740+	CLC	PMCWDNUM, IOCBDEV	Is this the device number being sought?
AAEDDDD	A774 000C		000003C2	3741+ 3742+* Subcha		FINN0008	No, check the next subchannel
00003AE	5010 3000		00000000		nnei t ST	ound: 1,IOCBDID	Remember the subchannel so I/O can be done to
00003AL	9680 4005			3744+	0I	PMCW1_8,PMCWE	Make sure it is enabled so I/O requests acceptor
00003B2	B232 4000		00000000		MSCH	0(4)	Enable the subchannel to the channel sub-system
00003BA	A784 0011		000003DC		\$BC	B'1000', ENAOKAY	CCO (SCHIB updated), device is ready.
	A7F4 FF91		000002E0	3747+	\$B	FAILDEV	CC1,CC2,CC3 (SCHIB update failed), quit
00003C2				3748+FINN0008	DS	OH Advance to nex	xt subchannel
	4110 1001		00000001		LA	1,1(0,1)	Advance to next subchannel
00003C6	5510 03D8		000003D8		CL	1,FINM0008	Beyond maximum subchannel
00003CA	A7D4 FFE5		00000394		\$BNH	FINL0008	No, examine the next subchannel
00003CE	A724 FF89		000002E0	3752+	\$BH	FAILDEV	Yes, failed to enable the device
000003D2 000003D4	00010000			3753+ 3754+FIND0008	DROP	4 ^(Y'00010000')	Forget SCHIB addressing
100003D4 100003D8	00010000 0001FFFF			3755+FINM0008		A(X'00010000') A(X'0001FFFF')	First subchannel subsystem ID Last subchannel subsystem ID
2000000	COUTLILL			27 22 LL TIMILIONO		A(A OODITITI)	Last subthammer subsystem ib
00003DC	07FF			3757 ENAOKAY	BR	R15	Return to caller if device enabled OK

20090825 2009 8008 8008 8008 8008 8008 8008 8008	SMA Ver.	0.2.1		GitHub Is	sue #572 Prefi	x CCW	tests	29 Jun 2023 05:16:07 Page 9
3759 Execute the channel program pointed to by R0 3761 See 3763 See See 3763 See 3764 See 3764 See 3764 See 3764 See 3764 See 3765 See 3868 See 3764 See 3765 See 3868 See 3765 S	LOC	OBJECT CODE	ADDR1	ADDR2	STMT			
140 0698					3759 ******	***** Execu	**************************************	**************************************
18898 25 2688 8888 8989 8984 89					3761			
18980316 1994 1894 1894 1896 189	000003DE							
18080315 2828 8085 00808090 3766 MVI 0RR1_2041 5ct all these ORB flags to zero 00808009 3766 MVI 0RR1_2041 5ct all these ORB flags to zero 3760 RAWIO 4_FAIL_FAILIO 5ct all these ORB flags to zero 3760 RAWIO 4_FAIL_FAILIO 5ct all these ORB flags to zero 3760 RAWIO 4_FAIL_FAILIO 5ct all these ORB flags to zero 3776 MVI 10CBSC, Yield Clear SC information Clear S	000003E2			8000000				Plug Channel Program into IORB
1989 1999	000003E6							
3769								Format-1 CCWs, Format-2 IDAWs
00000476 2000 300E 00000000 00000000 00000000 3771+ MV	00003EE	9200 8007		00000007	3767	MVI	ORRB1_24,0	Set all these ORB flags to zero
00000476 2000 300E 00000000 00000000 00000000 3771+ MV					3769	RAWIO	4.FAIL=FAILIO	
1980 1980 308 308	000003F2	9200 300E		0000000E				Clear SC information
198083F 5810 3000	000003F6		A000000A					
1980e4046 E340 3018 0004			11700011			L		
10000406 E340 3018 0004 0000000						te Sub		
	00000400	E340 3018 0004		00000018			•	
1000040A	00000406							
19090414 19090404 19090000 19090000 19090000 19090000 19090000 19090000 19090000 19090000 190900000 190900000 190900000 190900000 190900000 190900000 1909000000 1909000000 1909000000 1909000000 1909000000 1909000000 1909000000 1909000000 1909000000 1909000000 190900000 190900000 190900000 190900000 190900000 190900000 190900000 190900000 190900000 190900000 190900000 190900000 190900000 190900000 190900000 1909000000 1909000000 1909000000 1909000000 1909000000 1909000000 1909000000 1909000000 1909000000 1909000000 1909000000 19090000000 19090000000 19090000000 1909000000000 19090000000000	0000040A							
	0000040E							
	00000414		00000000					
					2790ı* Wai+ f	ion T/0	onenation to present	status via an internuntion
10000414 D20F 01F0 0438 000001F0 00000438 3783+ MVC D50010(16),496(0) Save Input/Output new PSW 10000420 B2B2 0428 000001F0 00000438 3784+ MVC 496(16,6),10N0010 Stablish Input/Output new PSW 10000438 00002000 00000000 3785+ S1PSW MPSW0010 Wait for event 170 New PSW: cc==2 Cc=2 Cc	20000111							
		D20E 0//8 01E0	00000118	000001E0				
Mait for event Mait								
19000428 02020000 00000000 00000000 00000000			00000110					
10000438 00002000 00000000 00000000 3787+IDN0010 PSW 0,0,0,32,IRST0010,24 I/O New PSW: cc=2 00000448 00000000 00000000 00000000 000000				00000420				
3788+IDS0010 DC								
18000458								I/O NEW FOW. CCZ
3799+1RST0010 DS	00000440	0000000 00000000						
	00000458							
3792+* Process the interruption 3793+* Validate interruption is for the expected subchannel 3793+* CL 1,IOSSID Is this the device for which I am waiting 3796+* Accumulate interruption information from IRB 3796+* Accumulate interruption information for it information (4) 3800+* B'0001/FAILIO CC3 (not operational), an error then accumulate interruption information information information (2010 (10 Index		D20F 01F0 0448	999991F9	00000112				Restore input/output new PSW
1000045E 5510 0088 0000088 3794+ CL	00000700	D201 0110 0440	00000110	00000440				Restore Input/output new row
1000045E 5510 00B8 000008B 3794+ CL 1, IOSSID Is this the device for which I am waiting 10000462 A774 FFD9 0000414 3795+ \$BNE IOWT0009 No, continue waiting 10000466 B235 4000 00000000 3797+ TSCH 0(4) Retrive interrupt information 1000046A A744 FFD5 00000414 3798+ \$BC B'0100', IOWT0009 CC1 (not status pending), wait for it to a 1000046A A744 FF3D 00000414 3798+ \$BC B'0001', FAILIO CG3 (not operational), an error then 3800+* CC0 (status was pending), accumulate the same 10000472 D600 300E 4003 0000000B 3801+ OC IOCBSC, IRBSCSW+SCSWU Accumulate status control 10000472 D600 300A 4008 0000000A 0000000B 3802+ OC IOCBSC, IRBSCSW+SCSWUS Accumulate device and channel status 1000047E 9104 300E 0000000B 3803+ TM IOCBSC, SCSWSPRI Primary subchannel status 10000482 A764 FFC9 00000414 3804+ \$BNO IOWT0009 No, wait for primary status 1000048C D201 3016 4004 00000016 00000004 3805+ MVC IOCBSCCW, IRBSCSW+SCSWCOW CCW address 10000049C 3807+ Test for errors as specified in the IOCB 10000496 A764 FF29 0000028 3809+ \$BNO FAILIO Hunh? No CE and DE but do have primary status 10000496 A764 FF29 0000028 3809+ \$BNO FAILIO Hunh? No CE and DE but do have primary status 10000496 A764 FF29 0000028 3809+ \$BNO FAILIO Hunh? No CE and DE but do have primary status 10000496 A764 FF29 0000028 3809+ \$BNO FAILIO Hunh? No CE and DE but do have primary status 10000496 A764 FF29								expected subchannel
0000462	000045F	5510 00RX		aaaaaars				
3796+* Accumulate interruption information from IRB 3797+ TSCH 0(4) Retrive interrupt information Retrive interruption Ret								
10000466 B235 4000 00000000 3797+ TSCH 0(4) Retrive interrupt information 1000046A A744 FFD5 00000414 3798+ \$BC B'0100', IOWT0009 CC1 (not status pending), wait for it to a status pending), wait for it to a status pending November SBOO SBOO SBOO SBOO SBOO SBOO SBOO STATUS SBOO SBOO	2000402	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		33333414				
1000046A	00000466	B235 4000		99999999				
1000046E								
3800+* 0000472 D600 300E 4003 000000E 0000003 3801+ OC IOCBSC,IRBSCSW+SCSW2 Accumulate status control 0000478 D601 300A 4008 000000A 0000008 3802+ OC IOCBST,IRBSCSW+SCSWUS Accumulate device and channel status 000047E 9104 300E 00000414 3804+ \$BNO IOWT0009No, wait for primary status 0000048C D203 3010 4004 0000010 000000A 3805+ MVC IOCBSCCW,IRBSCSW+SCSWCW CCW address 0000048C D201 3016 400A 0000016 000000A 3806+ MVC IOCBSCCW,IRBSCSW+SCSWCNT Residual count 3807+* Test for errors as specified in the IOCB 0000049C A7E4 FF29 000002E8 3809+ \$BNO FAILIO Hunh? No CE and DE but do have primary status 0000049A B904 0040 3812 LGR R4,R0 Restore SCHIB pointer								
0000472 D600 300E 4003 0000000E 00000003 3801+ OC IOCBSC,IRBSCSW+SCSW2 Accumulate status control 0000478 D601 300A 4008 0000000A 00000008 3802+ OC IOCBST,IRBSCSW+SCSWUS Accumulate device and channel status 000047E 9104 300E 0000000E 3803+ TM IOCBSC,SCSWSPRI Primary subchannel status 0000482 A7E4 FFC9 00000414 3804+ \$BNO IOWT0009 No, wait for primary status 0000486 D203 3010 4004 00000010 0000004 3805+ MVC IOCBSCCW,IRBSCSW+SCSWCCW CCW address 0000048C D201 3016 400A 00000016 000000A 3806+ MVC IOCBRCNT,IRBSCSW+SCSWCNT Residual count 00000492 910C 300A 0000000A 3808+ TM IOCBUS,CSWCE+CSWDE Channel end and device end both accumulate 00000496 A7E4 FF29 000002E8 3809+ \$BNO FAILIO Hunh? No CE and DE but do have primary status 00000498 B904 0040 3812 LGR R4,R0 Restore SCHIB pointer	000040L	,,, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,		30000210		4DC	2 JOUL JIMILIO	
0000478 D601 300A 4008 000000A 0000008 3802+ OC IOCBST, IRBSCSW+SCSWUS Accumulate device and channel status 0000047E 9104 300E 0000000E 3803+ TM IOCBSC, SCSWSPRI Primary subchannel status 10000482 A7E4 FFC9 00000414 3804+ \$BNO IOWT0009 No, wait for primary status 10000486 D203 3010 4004 00000010 00000004 3805+ MVC IOCBSCCW, IRBSCSW+SCSWCCW CCW address 1000048C D201 3016 400A 00000016 0000000A 3806+ MVC IOCBRCNT, IRBSCSW+SCSWCNT Residual count 3807+* Test for errors as specified in the IOCB 10000492 910C 300A 0000000A 3808+ TM IOCBUS, CSWCE+CSWDE Channel end and device end both accumulate 10000496 A7E4 FF29 000002E8 3809+ \$BNO FAILIO Hunh? No CE and DE but do have primary status 1000049A B904 0040 3812 LGR R4,R0 Restore SCHIB pointer 1000049A Restore SCHIB Pointer 1000049A Restore SCHIB Pointer 1000049A B904 0040 B904 0	99999472	D600 300F 4003	aaaaaaaf	99999993		OC	TOCBSC TRRSCSW+SCSW2	
0000047E 9104 300E 000000E 3803+ TM IOCBSC,SCSWSPRI Primary subchannel status? 00000482 A7E4 FFC9 00000414 3804+ \$BNO IOWT0009No, wait for primary status 00000486 D203 3010 4004 0000010 00000004 3805+ MVC IOCBSCCW,IRBSCSW+SCSWCCW CCW address 0000048C D201 3016 400A 00000016 000000A 3806+ MVC IOCBRCNT,IRBSCSW+SCSWCNT Residual count 3807+* Test for errors as specified in the IOCB 00000492 910C 300A 000000A 3808+ TM IOCBUS,CSWCE+CSWDE Channel end and device end both accumulate 00000496 A7E4 FF29 000002E8 3809+ \$BNO FAILIO Hunh? No CE and DE but do have primary status 3810+* Input/Output operation successful								
00000482 A7E4 FFC9 00000414 3804+ \$BNO IOWT0009No, wait for primary status 00000486 D203 3010 4004 00000010 0000004 3805+ MVC IOCBSCCW,IRBSCSW+SCSWCCW CCW address 0000048C D201 3016 400A 00000016 000000A 3806+ MVC IOCBRCNT,IRBSCSW+SCSWCNT Residual count 3807+* Test for errors as specified in the IOCB 00000492 910C 300A 000000A 3808+ TM IOCBUS,CSWCE+CSWDE Channel end and device end both accumulate 00000496 A7E4 FF29 000002E8 3809+ \$BNO FAILIO Hunh? No CE and DE but do have primary status 3810+* Input/Output operation successful			000000A					
00000486 D203 3010 4004 00000010 00000004 3805+ MVC IOCBSCCW,IRBSCSW+SCSWCCW CCW address 10000048C D201 3016 400A 00000016 0000000A 3806+ MVC IOCBRCNT,IRBSCSW+SCSWCNT Residual count 3807+* Test for errors as specified in the IOCB 00000492 910C 300A 000000A 3808+ TM IOCBUS,CSWCE+CSWDE Channel end and device end both accumulate 00000496 A7E4 FF29 000002E8 3809+ \$BNO FAILIO Hunh? No CE and DE but do have primary state 3810+* Input/Output operation successful								
0000048C D201 3016 400A 00000016 0000000A 3806+ MVC IOCBRCNT,IRBSCSW+SCSWCNT Residual count 3807+* Test for errors as specified in the IOCB 00000492 910C 300A 000000A 3808+ TM IOCBUS,CSWCE+CSWDE Channel end and device end both accumulate 00000496 A7E4 FF29 000002E8 3809+ \$BNO FAILIO Hunh? No CE and DE but do have primary sta 3810+* Input/Output operation successful			99999919					
3807+* Test for errors as specified in the IOCB 00000492 910C 300A 0000000A 3808+ TM IOCBUS,CSWCE+CSWDE Channel end and device end both accumulate 00000496 A7E4 FF29 000002E8 3809+ \$BNO FAILIO Hunh? No CE and DE but do have primary sta 3810+* Input/Output operation successful 0000049A B904 0040 3812 LGR R4,R0 Restore SCHIB pointer								
00000492 910C 300A	2333466	5201 3010 400A	0000010	333333A				
00000496 A7E4 FF29 000002E8 3809+ \$BNO FAILIO Hunh? No CE and DE but do have primary sta 3810+* Input/Output operation successful 0000049A B904 0040 3812 LGR R4,R0 Restore SCHIB pointer	00000492	9100 3004		9999999				
3810+* Input/Output operation successful 3810+* Input/Output operation successful 3812 LGR R4,R0 Restore SCHIB pointer								
3812 LGR R4,R0 Restore SCHIB pointer		11 LJ		30300210				
,					•	·	·	
000049E 0/FF Return to caller	000049A							
	0000049E	0/11			3813	BR	K15	Return to caller

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LOC	OBJECT CODE	ADDR1	ADDR2	STMT			
				3816 *	Issue	HERCULES MESSAGE poin	**************************************
000004A0 000004A4	4900 0690 07DE		00000690	3819 MSG 3820	CH BNHR	R0,=H'0' R14	Do we even HAVE a message? No, ignore
000004A6	9002 04D8		000004D8	3822	STM	R0,R2,MSGSAVE	Save registers
000004AA 000004AE 000004B2	4900 0692 47D0 04B6 4100 0080		00000692 000004B6 00000080	3824 3825 3826	CH BNH LA	R0,=AL2(L'MSGMSG) MSGOK R0,L'MSGMSG	Message length within limits? Yes, continue No, set to maximum
000004B6 000004B8 000004BA	1820 0620 4420 04E4		000004E4	3828 MSGOK 3829 3830	LR BCTR EX	R2,R0 R2,0 R2,MSGMVC	Copy length to work register Minus-1 for execute Copy message to O/P buffer
000004BE 000004C2	4120 200A 4110 04EA		0000000A 000004EA	3832 3833	LA LA	R2,1+L'MSGCMD(,R2) R1,MSGCMD	Calculate true command length Point to true command
000004C6 000004CA 000004CE	83120008 4780 04D0 0000		000004D0	3835 3836 3837	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	3839 MSGRET 3840	LM BR	R0,R2,MSGSAVE R14	Restore registers Return to caller
000004D8 000004E4	00000000 00000000 D200 04F3 1000	000004F3	00000000	3842 MSGSAVE 3843 MSGMVC	DC MVC	3F'0' MSGMSG(0),0(R1)	Registers save area Executed instruction
000004EA 000004F3	D4E2C7D5 D6C8405C 40404040 40404040			3845 MSGCMD 3846 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				
				3882 3883	*		WORKING ST	**************************************
		00000610	00000001	3886	WKSTORG	EQU	*	
00000610 00000FFF 00001000	00	00000610	00000FFF 00000610	3887	TESTONLY	ORG	E7TEST+X'FFF' AL1(0) WKSTORG	Only do this one test if non-zero
		00000040 00000020		3891 3892	SLI	EQU EQU	X'40' X'20'	Chain Command Suppress Incorrect Length Indication
		00000004	00000001	3893	IDA	EQU	X'04'	Indirect Data Addressing
		00000004	00000001	3895		EQU	X'04'	Basic Sense CCW opcode
		00000006 0000003E 00000047 00000063 00000086 000000E7	00000001	3896 3897 3898 3899 3900 3901	RSD LR DX RDMT	EQU EQU EQU EQU EQU	X'06' X'3E' X'47' X'63' X'86' X'E7'	Read Data CCW opcode Read Subsystem Data CCW opcode Locate Record CCW opcode Define Extent CCW opcode Read Data Multi-track CCW opcode Prefix CCW opcode
				3903 3904 3905	* **	TESTS	CONTROL TABLE	
00000610	00000618 00000006	00000200	00000001		ATESTTAB TESTNUM	DC EQU	A(TESTTAB, NUMTESTS X'200'	Current test number
		00000200	0000001	3909		LQU	X 200	(identifies failed test)
00000618 00000618	00000001 000006E0			3911 3912 3913	TESTTAB	DC PRINT DC	0A(0) DATA A(1,T1 CHPGM,0,T1	MCCIN T1 DECC)
00000620	00000000 0000003E			3913		DC	A(1,11_CHFUH,0,11_	MSGEN, II_DESC)
00000628 0000062C	000006A0 00000002 00000748			3914		DC	A(2,T2 CHPGM,0,T2	MSGLN,T2 DESC)
00000634 0000063C	00000000 00000055 000006F0							
00000640	00000003 000007C8 00000000 00000056			3915		DC	A(3,T3_CHPGM,0,T3_	MSGLN,T3_DESC)
00000650	00000770			2045		D.C	A/A TA CURCU O TO	MCCLN TA DECC
00000654 0000065C	00000004 00000840 00000000 00000056			3916		DC	A(4,T4_CHPGM,0,T4_	MSGLN, I4_DESC)
00000664	000007E8 00000005 000008D8			3917		DC	A(5,T5_CHPGM,1,T5_	MSGLN,T5_DESC) (1=Expect I/O ERROR)
00000670 00000678	00000001 0000006F 00000868							
0000067C 00000684 0000068C				3918		DC	A(6,T6_CHPGM,0,T6_	MSGLN, T6_DESC)
0000000	000001 0	00000006 00000014	00000001 00000001		NUMTESTS TESTLEN		NODATA 6 (*-TESTTAB)/NUMTES	Number of test table entries TS Width of each test table entry
00000690 00000690 00000692	0000 0080			3923 3924 3925		LTORG	<pre>, Literals =H'0' =AL2(L'MSGMSG)</pre>	Pool

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LOC	OBJECT CODE	ADDR1	ADDR2	STMT	
				3927 ************************************	**************************************
00000698 00000698	04200020 00000970			3931 DC 3932 SENSEPGM DC	<pre>0D'0' AL1(SNS),AL1(SLI),AL2(L'SNSBYTES),AL4(SNSBYTES)</pre>
				3934 *********	*************
000006A0	E3C5E2E3 407BF17A	0000003E	00000001	3936 T1_DESC DC 3937 T1_MSGLN EQU	<pre>C'TEST #1: Format 2 PFX to obtain subsystem information (no IDA)' *-T1_DESC</pre>
000006E0 000006E0 000006E8	E760004C 00000990 3E200100 000009DC			3938 DC 3939 T1_CHPGM DC 3940 DC	<pre>0D'0^T AL1(PFX),AL1(CC+SLI),AL2(T1_E7LEN),AL4(T1_E7DAT) AL1(RSD),AL1(SLI),AL2(L'T1_3EBUF),AL4(T1_3EBUF)</pre>
				3942 **********	**************
000006F0 00000748	E3C5E2E3 407BF27A	00000055	00000001	3944 T2_DESC DC 3945 T2_MSGLN EQU 3946 DC	<pre>C'TEST #2: Format 0 PFX with Define Extent Valid bit off (DX CCW *-T2_DESC 0D'0'</pre>
00000748 00000750 00000758 00000760	E7600040 00000ADC 63600010 00000B1C 47600010 00000B2C 0624000A 00000768			3947 T2_CHPGM DC 3948 DC 3949 DC 3950 DC	AL1(PFX),AL1(CC+SLI),AL2(L'T2_E7DAT),AL4(T2_E7DAT) AL1(DX),AL1(CC+SLI),AL2(L'T2_63DAT),AL4(T2_63DAT) AL1(LR),AL1(CC+SLI),AL2(L'T2_47DAT),AL4(T2_47DAT) AL1(RD),AL1(SLI+IDA),AL2(L'T2_06BUF),AL4(T2_06IDA)
	00000000 00000B3C			3951 T2_06IDA DC	AD(T2_06BUF)
				3953 ********	*************
00000770	E3C5E2E3 407BF37A			3955 T3_DESC DC	C'TEST #3: Format 0 PFX with Define Extent Valid bit on (DX CCW i
000007C8 000007C8	E7600040 00000B46	00000056	00000001	3956 T3_MSGLN EQU 3957 DC 3958 T3 CHPGM DC	*-T3_DESC 0D'0' AL1(PFX),AL1(CC+SLI),AL2(L'T3 E7DAT),AL4(T3 E7DAT)
000007D0 000007D8	47600010 00000B86 0624000A 000007E0 00000000 00000B96			3959 DC 3960 DC 3961 T3_06IDA 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)
000007E0	47600010 00000B86 0624000A 000007E0			3959 DC 3960 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)

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OBJECT CODE	ADDR1	ADDR2	STMT	
			3963 *********	**************************************
E3C5E2E3 407BF47A	00000056	00000001	3965 T4_DESC DC 3966 T4_MSGLN EQU 3967 DC	C'TEST #4: Format 2 PFX to obtain control unit information (PFX E7 *-T4_DESC 0D'0'
E764004C 00000850 3E240100 00000860 00000000 00001FD8			3968 T4_CHPGM DC 3969 DC 3970 T4_E7IDA DC	AL1(PFX),AL1(CC+SLI+IDA),AL2(L'T4_E7DAT),AL4(T4_E7IDA) AL1(RSD),AL1(SLI+IDA),AL2(L'T4_3EBUF),AL4(T4_3EIDA) AD(T4_E7DAT_PART1)
00000000 00002000 00000000 00000BA0			3971 — DC 3972 T4_3EIDA DC	AD(T4_E7DAT_PART2) AD(T4_3EBUF)
			3974 **********	**************
E3C5E2E3 407BF57A	0000006F	00000001	3976 T5_DESC DC 3977 T5_MSGLN EQU 3978 DC	<pre>C'TEST #5: Read 06 CCW should fail since LR operation is Read(16) *-T5_DESC 0D'0'</pre>
E7600040 00000CA0 47600010 00000CE0 0624000A 000008F0			3979 T5_CHPGM DC 3980 DC 3981 DC	AL1(PFX),AL1(CC+SLI),AL2(L'T5_E7DAT),AL4(T5_E7DAT) AL1(LR),AL1(CC+SLI),AL2(L'T5_47DAT),AL4(T5_47DAT) AL1(RD),AL1(SLI+IDA),AL2(L'T5_06BUF),AL4(T5_06IDA)
00000000 00000CF0			3982 T5_06IDA DC	AD(T5_06BUF)
			3984 *********	**************
E3C5E2E3 407BF67A	00000051	00000001		C'TEST #6: Same as Test #5, but properly uses multi-track Read (86 *-T6_DESC 0D'0'
E7600040 00000CFA			3989 T6_CHPGM DC	AL1(PFX),AL1(CC+SLI),AL2(L'T6_E7DAT),AL4(T6_E7DAT)
8624000A 0000005A 00000000 00000D4A			3991 DC 3992 T6_86IDA DC	AL1(LR),AL1(CC+SLI),AL2(L'T6_47DAT),AL4(T6_47DAT) AL1(RDMT),AL1(SLI+IDA),AL2(L'T6_86BUF),AL4(T6_86IDA) AD(T6 86BUF)
	OBJECT CODE E3C5E2E3 407BF47A E764004C 00000850 3E240100 000000860 0000000 00001FD8 00000000 000000000000000000000000000	OBJECT CODE ADDR1 E3C5E2E3 407BF47A 00000056 E764004C 00000850 3E240100 00000860 00000000 00001FD8 00000000 00002000 0000000 00000BA0 E3C5E2E3 407BF57A 0000006F E7600040 00000CF0 63C5E2E3 407BF67A 000000051 E3C5E2E3 407BF67A 000000051 E3C5E2E3 407BF67A 000000051	OBJECT CODE ADDR1 ADDR2 E3C5E2E3 407BF47A	OBJECT CODE ADDR1 ADDR2 STMT 3963 ***********************************

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LOC	OBJECT CODE	ADDR1	ADDR2	STMT
	OBJECT CODE	ADDKI	ADDITZ	3994 ***********************************
00000970 00000970	00000000 00000000			3998 DC 0D'0' 3999 SNSBYTES DC XL32'00' (Generic SENSE buffer)
				4001 ********************
00000990 0000099C 000009AC 000009BC 000009CC 000009CC	00000000 00000000 00000000 00000000 000000	0000004C	00000001	4003 T1_E7DAT DC
				4012 ********************
	40C00000 00000000 06000001 00000000			4014 T2_E7DAT DC XL64'00' 4015 T2_63DAT DC XL16'40C00000 00000000 0000000000' 4016 T2_47DAT DC XL16'06000001 000000000 000000000' 4017 T2_06BUF DC XL10'00'
				4019 *******************
	00000000 00000000 00000000 00000000			4021 T3_E7DAT DS

JECT CODE 000 00000000	ADDR1	GitHub Is	sue #5 STMT	72 Prefix	CCW T	tests			29	Jun 2023 05:16:0)7 P	age	16
	ADDR1	ADDR2	STMT										
000 00000000													
000 00000000													
000 00000000													
000 00000000			4030	*****	****	*****	*****	*******	******	*******	***	***	
000 00000000			4000	T4 255115			5.0	VI 2561001					
			4032	T4_3EBUF			DC	XL256'00' DATA					
	00000CA0	00000001		T4 ORG			EQU	*					
	000000AC	00000001			TOTAL		EQU	76					
	00000028	00000001					EQU	40					
	00000024			T4_E7DAT_	PART2		EQU	(T4_E7DAT_	ΓΟΤΑL_LEN-T4	I_E7DAT_PART1_LEN	1)		
	00000CA0	00001FD8		T4 53547									
					DADT1			0XL(14_E/DA	I_IOIAL_LEN)				
000 0000000				14_E/DAI_	PAKII						100'		
			4041				DC	VETO OZOOO			,00		
			4042				DC	XL16'00000	900 9099999	00000000 000000	00'		
000 00000000													
000 00000000			4043				DC						
				T4_E7DAT_	PART2				Γ_PART2_LEN)				
									200 0000000				
			4046				DC	YEIR RARAM		0 00000000 000018	900		
			4047				DC	XL12'00000	000 41000000	00000000'			
000													
	00002024	00000CA0	4048										
			4049				PRINT	NODATA					
			4051	******	*****	*****	*****	********	******	******	****	***	
000 0000000								0000		10000001			
000 00000000			4057		DC	XI 16'	99999	9999999	9 99999999 9	90000000'			
001 00000000			4058	T5_47DAT	DC	XL16'	16000	0001 00000000	00000000 0	3000000'			
000 00000000			4059	T5_06BUF	DC	XL10'	00'						
			4061	******	<****	*****	*****	*******	******	********	****	***	
			4063	T6	DC (0VI C4							
999 9999999							99899	1999 9999999	9 99999999 1	1000000'			
000 00000000													
000 00000000					DC	XL16'	00000	0000000 0000	9 00000000 6	9000000'			
000 00000000			4067		DC	XL16'	00000	0000000 000000	00000000	0000000'			
001 00000000			4068	T6_47DAT	DC	XL16'	16000	0001 00000000	9 00000000 6	3000000'			
00000000 000			4069	16_86BUF	DC	XL10'	00.						
	000 0000000 000 00000000 000 00001800 000 41000000 000 0000000 000 0000000 000 0000000 001 0000000 001 0000000 000 0000000	00000CA0 000 00000000 000 00000000 000 00000000	00000CA0 00001FD8 000 00000000 000 00000000 000 00000000	00000CA0 00001FD8 4038 4039 4040 000 00000000 000 00000000 000 00000000	00000CA0 00001FD8 4038 T4_E7DAT 4040 T4_E7DAT_ 000 00000000 4041 000 00000000 4042 000 00000000 4043 000 00000000 4045 000 00000000 4047 000 00000000 4047 000 00000000 4047 000 00000000 4051 ************************************	00000CA0 00001FD8 4038	00000CA0 00001FD8 4038 — — — — — — — — — — — — — — — — — — —	00000CA0 00001FD8 4038 T4_E7DAT DS	00000CA0	00000CA0 00001FD8 4038	00000000	00000CA0 00001FD8 4038	00000000

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LOC	OBJECT CODE	ADDR1	ADDR2	STMT						
					اد ماد ماد ماد ماد ماد ماد		. sla sla sla sla	اد ماد ماد		
				• • • =				***	***	**********
				4072 *	IOCB [72FC1	***	***	. 4. 4.	*********
				40/3 ******	* * * * * * * * *	* * * * *	* ~ ~ ~ ~	ጥጥጥ	` ~ ~ .	*****
				4075	DSECTS	S NAM	E=IO	СВ		
				4077+IOCB	DSECT					
										Description (R->program read-only, X->program read/wri
0000000					DS		+0		R	Device Identifier - Subsystem ID for channel subsystem
0000000	0000			4080+	DS		+0			reserved - must be zeros
0000002	0000			4081+IOCBDV	DS		+2			Channel Unit Device address of I/O operation
0000004	0000			4082+IOCBDEV	DS		+4			
0000006	0000			4083+IOCBZERO				R		Must be zeros
80000008	00			4084+IOCBUM	DS			X		Unit status test mask
0000009	00			4085+IOCBCM	DS			X		
A000000A	00			4086+IOCBST	DS		+10			Input/Output unit and channel status accumulation
0000000A 0000000B	00 00			4087+IOCBUS 4088+IOCBCS	DS DS		+10 +11			Accumulated unit status Accumulated channel status
000000C	00			4089+IOCBUT	DS DS		+11		R R	Used to test unit status
000000C	00			4090+IOCBCT			+14			Used to test unit status Used to test channel status
000000D	00			4091+IOCBSC			+14	IX	R	Accumulted subchanel status control
000000E	00			4092+IOCBWAIT			+15	Y		Recognized unsolicited interruption unit status even
00000010	00000000			4093+IOCBSCCW						I/O status CCW address
00000014				4094+IOCBSCNT						I/O status residual count as a positive full word
00000014	0000			4095+	DS		+20			reserved must be zeros
00000016	0000			4096+IOCBRCNT			+22			I/O status residual count as an unsigned halfword
0000018				4097+IOCBCAW	DS		+24			Channel Address word
0000018	00000000 00000000			4098+IOCBORB	DS		+24		Χ	Address of the ORB for channel subsystem I/O
00000020	00000000 00000000			4099+IOCBIRB	DS	AD				Channel subsystem IRB address
00000028	00000000 00000000			4100+IOCBSIB	DS	AD				Channel subsystem SCHIB address
		00000030	00000001	4101+IOCBL	EQU	*-IO	СВ			h of IOCB control block (48) without embedded structu

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LOC	OBJECT CODE	ADDR1	ADDR2	STMT				
				4103 ******* 4104 * 4105 ******	***** ORB D ****	SECT		*********** ********
				4107	DSECT	S NAME=OR	R	
0000000	00000000			4109+ORB 4110+ORBPARM	DSECT	F'0'	Word 0, bits 0-3	1
0000004	00	000000F0 00000008 00000004	00000001 00000001 00000001	4112+ORB1_0 4113+ORBKEYM 4114+ORBS 4115+ORBC	DC EQU EQU EQU	X'00' X'F0' X'08' X'04'	Word 1, bits 0-7 Word 1, bits 0-3 Word 1, bit 4 Word 1, bit 5	
		00000001 00000001	00000001 00000001	4116+ORBM 4117+ORBY	EQU EQU	X'02' X'01'	Word 1, bit 6 Word 1, bit 7	- Modification Control - Synchronization Control
0000005	00	00000080	00000001	4119+ORB1_8 4120+ORBF	DC EQU	X'00' X'80'	Word 1, bits 8-1 Word 1, bit 8	- CCW Format-Control
		00000040 00000020 00000010	00000001 00000001 00000001	4121+ORBP 4122+ORBI 4123+ORBA	EQU EQU EQU	X'40' X'20' X'10'	Word 1, bit 9 Word 1, bit 10 Word 1, bit 11	 Pre-fetch control Initial-status Interruption Control Address Limit Checking Control
		00000008 00000004 00000002	00000001 00000001 00000001	4124+ORBU 4125+ORBB 4126+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 co Channel-Program-Type Control Format 2-IDAW Control
0000006 0000007		00000001	00000001	4127+ORBT 4128+ORBLPM 4129+ORRB1_24	EQU DC	X'01' X'00' X'00'	Word 1, bit 15	- 2K-IDAW control 23 - Logical Path Mask
		00000080 0000007F 00000040	00000001 00000001 00000001	4130+ORBL 4131+ORBRSV3 4132+ORBD	EQU EQU EQU	X'80' X'7F' X'40'	Word 1, bit 25	 Incorrect Length Suppression Mode reserved must be zeros MIDAW Addressing Control
		0000003E 0000007E 00000001	00000001 00000001 00000001	4133+ORBRSV26 4134+ORBRSV25 4135+ORBX		X'3E' X'7E' X'01'		30 - reserved must be zeros30 - reserved must be zeros- ORB-extension control
0000008	00000000	00000080	00000001	4137+ORBCCW 4138+ORBRSV4 4139+ORBLEN	DC EQU EQU	A(0) X'80' *-ORB Le		<pre>1 - Channel Program Address</pre>
00000C	00	0000000	00000001	4140+* Extend 4141+ORBCSS			Word 3, bits 0-7	- Channel Subsystem Priority
000000D 000000E 000000E				4142+ORBRSV5 4143+ORBPGM 4144+ORBCU	DC DC DC	X'00' 0X'00' X'00'	Word 3, bits 8-1 Word 3, bits 16-	5 - reserved must be zeros23 - Transport mode reserves for progra23 - Control Unit Priority
00000F				4145+ORBRSV6 4146+ORBRSV7	DC	X'00' XL16'00'	Word 3, bits 24-	31 - reserved must be zeros - reserved must be zeros

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LOC	OBJECT COD	E ADDR1	ADDR2	STMT								
				4150 ******* 4151 * 4152 *****	IRB DS	ECT						
000000C 0000020	00000000 0000 00000000 0000 00000000 0000	00000 00000 00000040	00000001	4156+IRB 4157+IRBSCSW 4158+IRBESW 4159+IRBECW 4160+IRBL	DSECT DC DC DC EQU	XL12'00' XL20'00' XL32'00' *-IRB	tion Words 0-2 - Words 3-7 - Words 8-15 IRB Length	Subchanne Extended - Extended	l Status Word Status Word Control Wor	rd	ed by DSI	ECT S
0000040	00000000 0000		00000001	4161+IRBEMW 4162+IRBXL	DC	XL32'00' *-IRB	Words 16-23	- Extende B Length	d Measuremer	nt Word		
					-			J				

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LOC	OBJECT CODE	ADDR1	ADDR2	STMT			
				4166 *	SCHIB	DSECT	**************************************
				4169 4171+SCHIB 4172+* Fields	DSECT	S NAME=SCHI Subchannel d RW may be	
000000 000000 000004	00000000 00	00000038	0000001	4173+SCHPMCW 4174+PMCWIP 4175+PMCW1_0	DC DC DC	0XL28'00' F'0' RW X'00'	Words 0-6 - Path-Management-Control Word Word 0, bits 0-31 - Interruption Parameter Word 1, bits 0-7
22225		00000038	00000001				Interruption Subclass Code Mask
000005	00	00000080 00000060 00000020		4178+PMCW1_8 4179+PMCWE 4180+PMCWLM 4181+PMCWLMG	EQU EQU	X'60' RW	Word 1, bits 8-15 Word 1, bit 8 - Subchannel Enabled Word 1, bits 9,10 - Limit-Mode Mask Word 1, bit 9 - Address must be GE to limit
		00000040 00000018 00000010	00000001 00000001	4182+PMCWLML 4183+PMCWMM 4184+PMCWMME	EQU EQU	X'40' RW X'18' RW X'10' RW	Word 1, bit 10 - Address must be less than the limit Word 1, bits 11,12 - Measurement Mode Mask Word 1, bit 11 - Measurement Block Update Enabled
		00000008 00000004 00000002 00000001	00000001	4185+PMCWMMC 4186+PMCWM 4187+PMCWT 4188+PMCWV	EQU EQU EQU	X'04' RW X'02' IN	Word 1, bit 12 - Device Connect Time Measurement Enable Word 1, bit 13 - Multipath Mode Enabled Word 1, bit 14 - Timing facility availability Word 1, bit 15 - Device number valid
000006	0000	0000001	0000001	4190+PMCWDNUM	J		Word 1, bits 16-31 - Device Number
000008 000009 00000A	00			4192+PMCWLPM 4193+PMCWPNOM 4194+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
00000B 00000C 00000E	00 0000 00			4195+PMCWPIM 4196+PMCWMBI 4197+PMCWPOM	DC DC DC	X'00' IN H'0' RW X'00' 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
00000F 000010 000011	00 00			4198+PMCWPAM 4199+PMCWCHP0 4200+PMCWCHP1	DC 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
000012 000013 000014 000015	00 00			4201+PMCWCHP2 4202+PMCWCHP3 4203+PMCWCHP4 4204+PMCWCHP5	DC DC	X'00' IN 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 Word 4, bits 8-15 - Channel Path Identifier 5
000013 000016 000017 000018	00			4205+PMCWCHP6 4206+PMCWCHP7 4207+PMCWRES1	DC DC	X'00' IN	Word 4, bits 16-23 - Channel Path Identifier 6 Word 4, bits 24-31 - Channel Path Identifier 7 Word 6, bits 0-31 - reserved or pre-z systems
000018 00001B		00000004	00000001	4208+PMCWRES2 4209+PMCWEXC 4210+PMCWB	DC DC	XL3'00' X'00'	Word 6, bits 0-23 - reserved on z systems Word 6, bits 24-28 - reserved
		00000004 000000002 000000001		4211+PMCWX	EQU EQU EQU	X'02' RW	Word 6, bit 29 - Measurement Block Format Control Word 6, bit 30 - Extended Measurement Word Mode End Word 6, bit 31 - Concurrent Sense Enable
00001C 000028	00000000 00000000			4214+SCHSCSW 4215+SCHMDA3	DC	XL12'00' 0XL12'00'	
000028 000030	00000000 00000000 00000000	00000034	00000001	4216+SCHMBA 4217+SCHMDA1 4218+SCHIBL	DC DC EQU	XL4'00'	Words 10,11 - Measurement Block Address Word 12 - Model Dependent Area on z systems ngth of SCHIB

ADDR1	ASMA Ver.	0.2.1	(GitHub Is	sue #572 Prefix	k CCW	tests	29 Jun 2023 05:16:07 Page 21
	LOC	OBJECT CODE	ADDR1	ADDR2	STMT			
					4221 ******	*****	*****	************
					4222 *	SCSW	DSECT	
					4223 ******	*****	******	**************
					4225	DSECT	S NAMF=S	CSW
0000001	00000000	00						
0000001 00000001 00000001 4231+SCSNECKE QU X'03' Deferred condition code mask 0000001 00000001 4233+SCSNECKE QU X'03' Deferred condition code is 1 0000001 0000001 4234-SCSNECKE QU X'03' Deferred condition code is 1 0000001 0000001 4234-SCSNECKE QU X'03' Deferred condition code is 3 0000001 0000001 4234-SCSNECKE QU X'03' Deferred condition code is 3 0000001 0000001 4234-SCSNECKE QU X'03' Deferred condition code is 3 0000001 0000001 0000001 4234-SCSNECKE QU X'03' Deferred condition code is 3 0000001 0000001 0000001 4234-SCSNECKE QU X'03' CVF ormat control when								
0000000								
0000001 00000001 00000001 42334-SCSWDCC EQU X'01' Deferred condition code is 1								
	0000001	00			4227 - CCCUCT! C	DC	VIOOI	Company Company
0000020	10000001	טט	aaaaaaaa a	00000001				
0000001								
0000001								
00000004 00000001 4243+SCSWECK EQU X'02' Extended Control Word control 00000001 4243+SCSWECK EQU X'01' Path Not Operational 0000001 4243+SCSWECK EQU X'01' Path Not Operational 0000001 4243+SCSWEND EQU Equ								
0000002 000000001 00000001 4244+SCSWECWC EQU X'01' Extended Control Word control 00000001 00000001 0245+SCSWPNOP EQU X'01' Path Not Operational								
0000001			0000001 6	00000001	4245+3C3WPNUP	EQU	Y OI	Path Not Operational
0000001	00000002	00			4247+SCSW1	DC	X'00'	Control Byte 1
0000002			00000070	00000001			X'70'	Functionaĺ Control Mask
0000010								
0000008								
0000000								
0000002								
000003 00								
0000080					4255+SCSWACP	EQU	X'01'	Activity Control - Clear pending
0000040	9000003	00	0000000	0000001				
0000020						•		
0000010 00000001 4260+SCSWSAS EQU X'10' Status Control - Alert Status 00000008 00000001 4261+SCSWSINT EQU X'08' Status Control - Intermediate Status 000000004 00000001 4262+SCSWSPRI EQU X'04' Status Control - Primary Status 00000001 4263+SCSWSSEE EQU X'02' Status Control - Secondary Status 00000001 00000001 4264+SCSWSPEN EQU X'01' Status Control - Status Pending O000004 00000001 4264+SCSWSPEN EQU X'01' Status Control - Status Pending O000008 O0000001 4264+SCSWCCW DC X'00' Unit Status O00000000000000000000000000000000000						•		
0000008								
0000002 0000001 4263+SCSWSSEC EQU X'02' Status Control - Secondary Status 00000001 00000001 4264+SCSWSPEN EQU X'01' Status Control - Status Pending 4266+SCSWCCW DC A(0) CCW Address 4268+SCSWUS DC X'00' Unit Status 000008 00 4269+SCSWATTN EQU X'80' Attention 00000040 00000001 4269+SCSWATTN EQU X'80' Attention 00000040 00000001 4270+SCSWSM EQU X'40' Status modifier 00000020 00000001 4271+SCSWCUE EQU X'20' Control-unit end 00000010 0000001 4272+SCSWBUSY EQU X'10' Busy 0000008 00000001 4273+SCSWCE EQU X'08' Channel end 0000004 00000001 4274+SCSWDE EQU X'04' Device end						-	X'08'	Status Control - Intermediate Status
0000001 00000001 4264+SCSWSPEN EQU X'01' Status Control - Status Pénding 4266+SCSWCCW DC A(0) CCW Address 4268+SCSWUS DC X'00' Unit Status 000008 00								,
000004 00000000								•
000008 00			TOPOPOP	TODODODT	4204+3C3W3PEN	ΕŲU	Y QT	Status Control - Status Penuing
000008 00	00000004	00000000			4266+SCSWCCW	DC	A(0)	CCW Address
00000080 00000001 4269+SCSWATTN EQU X'80' Attention 00000040 00000001 4270+SCSWSM EQU X'40' Status modifier 00000020 00000001 4271+SCSWCUE EQU X'20' Control-unit end 00000010 00000001 4272+SCSWBUSY EQU X'10' Busy 00000008 00000001 4273+SCSWCE EQU X'08' Channel end 00000004 00000001 4274+SCSWDE EQU X'04' Device end								
00000040 00000001 4270+SCSWSM EQU X'40' Status modifier 00000020 00000001 4271+SCSWCUE EQU X'20' Control-unit end 00000010 00000001 4272+SCSWBUSY EQU X'10' Busy 00000008 00000001 4273+SCSWCE EQU X'08' Channel end 00000004 00000001 4274+SCSWDE EQU X'04' Device end	80000008	00	0000000	0000001				
00000020 00000001 4271+SCSWCUE EQU X'20' Control-unit end 00000010 00000001 4272+SCSWBUSY EQU X'10' Busy 00000008 00000001 4273+SCSWCE EQU X'08' Channel end 00000004 0000001 4274+SCSWDE EQU X'04' Device end						•		
00000010 00000001 4272+SCSWBUSY EQU X'10' Busy 00000008 00000001 4273+SCSWCE EQU X'08' Channel end 00000004 00000001 4274+SCSWDE EQU X'04' Device end						•		
00000008 00000001 4273+SCSWCE EQU X'08' Channel end 00000004 00000001 4274+SCSWDE EQU X'04' Device end								
						-		
00000002								
00000001 00000001 4276 CCCLUIV FOIL VIOL Unit avecution						•		
00000001 00000001 4276+SCSWUX EQU X'01' Unit exception			TODODOD	TOOOOOOT	42/0+3C3WUX	ΕŲU	Y QT	UNIT EXCEPTION

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LOC	OBJECT CODE	ADDR1	ADDR2	STMT			
00000009		00000080 00000040 00000020 00000010 00000008 00000004 000000002	00000001 00000001 00000001 00000001 000000	4278+SCSWCS 4279+SCSWPCI 4280+SCSWIL 4281+SCSWPRGM 4282+SCSWPROT 4283+SCSWCDAT 4284+SCSWCCTL 4285+SCSWICTL	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	9999	0000001	0000001	4288+SCSWCNT	DC	H'0'	Residual CCW count
300000A		000000C	00000001	4289+SCSWL	EQU	*-SCSW	RESIDUAL CEM COUNT

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LOC	OBJECT CODE	ADDR1	ADDR2	STMT						

				4296 4522	DSECT PRINT	S PRINT=OFF, NAME=(ASA, CCW0, CCW) ON	1,CSW)			
					.				.	

		00000001 00000002 00000003 00000004 00000005 00000006 00000007 00000008 00000009	00000001 00000001 00000001 00000001 000000	4529 R1 4530 R2 4531 R3 4532 R4 4533 R5 4534 R6 4535 R7 4536 R8 4537 R9 4538 R10 4539 R11 4540 R12 4541 R13 4542 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				
				4545	END					

CVMDOL	TVDE	\/^!!!						CCW t								05:16:07	 24
SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFER	ENCES											
SA	4	000000	512	4300	3568												
SBEGIN	U	000000	1	4301	4306	4348	4384	4393	4411	4418	4424	4428	4432	4438	4455		
SEND	U	000200	1	4454	4455												
SLENGTH	U	000200	1	4455													
TESTTAB	Α	000610	4	3907	3612												
AD66PSW	D	000328	8	3701	3676												
AD77PSW	D	000338	8	3702	3678												
AD88PSW	D	000348	8	3703	3680												
AD99PSW	D	000358	8	3704	3682												
CEXTCOD	Н	00001A	2	4318													
CIOCOD	Н	00003A	2	4326													
CMCKCOD	Н	000032	2	4324													
CPGMCOD	H	00002A	2	4322													
CSVCCOD	H	000022	2	4320													
EGIN	U	000220	1	3575	3545												
EGIN0	T	000246	4	3610	3598												
AW	Ē	000240	4	4330													
AWADDR	R	000048	3	4333													
AWKEY	X	000049	1	4333													
		000048	_														
AWSUSP	U		1	4332	2020	2047	2040	2040	2050	2050	2068	2070	2000	2000	2000		
CC LIO	U	000040	1	3891	3939	3947	3948	3949	3958	3959	3968	3979	3980	3989	3990		
CW0	4	000000	8	4459	4465												
CWOADDR	R	000001	3	4461													
CWOCNT	Н	000006	2	4464													
CWOCODE	X	000000	1	4460													
CW0FLGS	Х	000004	1	4462													
CCWOL	U	000008	1	4465													
CCW1	4	000000	8	4477	4482												
CCW1ADDR	Α	000004	4	4481													
CCW1CNT	Н	000002	2	4480													
CCW1CODE	X	000000	1	4478													
CCW1FLGS	Χ	000001	1														
CCW1L	U	80000	1	4482													
CCWCC	U	000040	1	4469													
CCWCD	U	000080	1	4468													
CCWIDA	U	000004	1	4473													
CCWPCI	U	800000	1														
CWSKIP	U	000010	1	4471													
CWSLI	Ü	000020	1	4470													
CWSUSP	Ü	000002	1	4474													
CHANID	F	0000A8	4	4385													
CHKZARCH	İ	000228		3594	3586												
CODE	2	000000	8228	3520	2330												
PUID	Ū	00031B	1	4457													
SW	F	000040	8	4329													
SWATTN	Ü	000040	1	4499													
SWBUSY	U	000010	1	4502													
SWCCTL	U	000010	1	4514													
SWCCV		000004	3	4496													
	R	000001	1														
SWCDAT	U		_	4513	2000												
SWCE	U	000008	1	4503	3808												
SWCHNG	U	000001	1	4516													
SWCNT	H	000006	2	4518													
SWCS	X	000005	1														
SWCUE	U	000020	1	4501													
SWDCC0	U	000000	1	4492													

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SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFER	ENCES												
SWDCC1	U	000001	1	4493														
SWDCC3	Ü	000003	1	4494														
SWDCCM	Ü	000003	1	4491														
SWDE	Ü	000004	$\bar{1}$	4504	3808													
SWFLAG	X	000000	1	4486	3000													
SWFMT	4	000000	8	4485	4519													
SWFMTL	Ū	000008	1	4519	7313													
SWICTL	Ü	000000	1	4515														
SWIL	Ü	000002	1	4510														
SWKEYM	Ü	0000F0	1	4487														
SWLOG	U	000004	1	4490														
SWPCI			1															
	U	000080	1	4509														
SWPRGM	U	000020	1	4511														
SWPROT	U	000010	1	4512														
SWSM	U	000040	1	4500														
SWSUSP	U	800000	1	4489														
SWUC	U	000002	1	4505														
SWUS	Х	000004	1	4498														
SWUX	U	000001	1	4506														
OSENSE	I	0003DE	4	3763	3663													
OTEST	I	00027C	4	3634	3623													
Σ	U	000063	1	3899	3948													
7TEST	J	000000	8228	3520	3523	3530	3543	3547	3574	3887	4038	3567						
NADEV	I	00038A	4	3732	3713													
NAOKAY	I	0003DC	2	3757	3746													
RRTEST	I	0002B8	4	3661	3655													
XCP	I	0003E2	4	3764	3639													
XTCPUAD	Н	000084	2	4350														
XTICODE	Н	000086	2	4351														
XTIPARM	F	000080	4	4349														
XTNPSW	F	000058	8	4339														
XTOPSW	F	000018	8	4311	4317													
AIL	Ť	0002F8	6		3677	3679	3681	3683	3685									
AILCPU0	Ī	0002D0	4	3676	3587	3588	3596	3604	5005									
AILDEV	Ť	0002E0	4	3680	3737	3747	3752	3001										
AILIO	Ť	0002E8	4	3682	3776	3799	3809											
AILPSW	Ď	000318	8	3695	3684	5,55	5005											
AILSCH	T	000318 0002D8	4	3678	3645													
AILTEST	Ť	0002D8	4	3684	3652	3658	3662											
IND0008	Λ	0002F0 0003D4	4	3754	3732	ەدەد	J002											
INL0008	A	000304	4 2	3734 3735	3751													
	Н		Δ															
FINMOOO8	A	0003D8	4	3755	3750	2741												
FINN0008	Н	0003C2	2	3748	3739	3741												
GOODPSW	D	000308	8	3694	3628	2060	2060	2060	2001	2004								
IDA	Ū	000004	1	3893	3950	3960	3968	3969	3981	3991								
IRB0011	F	0005A4	4	3872	3870	3871												
MAGE	1	000000	8228	0	2612													
NIT	I	000368	4	3710	3610													
OCB	4	000000	48	4077	4101	3569												
OCBCAW	Α	000018	4	4097														
OCBCM	Χ	000009	1	4085														
OCBCS	Χ	00000B	1	4088														
OCBCT	X	00000D	1	4090														
IOCBDEV	Н	000004	2	4082	3740													
OCBDID	F	000000	4	4079		3743	3772											
OCBDV	Н	000002	2	4081														

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SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFER	ENCES								
OCBIRB	Α	000020	8	4099	3777									
OCBL	U	000030	1	4101										
OCBORB	Α	000018	8	4098	3711	3774								
OCBRCNT	Н	000016	2	4096	3806									
OCBSC	X	00000E	1	4091	3770	3801	3803							
OCBSCCW	A	000010	4	4093	3805									
OCBSCNT	F	000014	4	4094										
OCBSIB	A	000028	8	4100	3642	3733								
OCBST	Н	A00000	2	4086	3771	3802								
OCBUM	Х	000008	1	4084	2000									
OCBUS	X	A00000	1	4087	3808									
OCBUT	Х	00000C	1	4089										
OCBWAIT	X	00000F	1	4092										
IOCBZERO	H	000006	2	4083	3771									
TOCB_A80	A	000574	4	3858	3710									
OELADDR	F	0000AC	4	4386										
OICODE	H	0000BA	2	4391										
OIID	F	0000C0	4	4396	2=4=									
OINIT	I	00037C	4	3721	3712									
OIPARM	F	0000BC	4	4395	2-2-	2-5-								
IOMK0007	F	000384	4	3723	3721	3722								
ON0010	3	000438	16	3787	3784									
ONPSW	F	000078	8	4343										
COOPSW	F	000038	8	4315	4325									
ORB0011	X	000604	12	3874	3869									
TOS0010	X	000448	16	3788	3783	3791								
OSSID	F	0000B8	4	4394	3794									
IOWT0009	H	000414	2	3781	3795	3798	3804							
IPLCCW1	F	000008	8	4303										
IPLCCW2	F	000010	8	4304										
IPLPSW	F	000000	8	4302										
IRB	4	000000	96	4156	4160	4162	3778							
IRBECW	X	000020	32	4159										
IRBEMW	X	000040	32	4161										
IRBESW	X	00000C	20	4158										
IRBL	U	000040	1	4160										
IRBSCSW	X	000000	12	4157	3801	3802	3805	3806						
RBXL	U	000060	1	4162										
RST0010	H	000458	2	3790	3787									
.CHANLOG	F	0000B0	4	4387										
.R	U	000047	1	3898	3949	3959	3980	3990						
ICKLOG	F	000100	4	4419										
ICKNPSW	F	000070	8	4342										
1CKOPSW	F	000030	8	4314	4323									
IEASUREB	X	0000B9	1	4390										
IKARCHMD	X	0000A3	1	4378										
IKARS	F	000120	4	4417										
MKCLKCMP	F	0000E0	8	4403										
MKCPUTIM	F	0000D8	8	4402										
IKCRS	F	0001C0	4	4422										
1KDMGCOD	F	0000F4	4	4406										
1KFAILA	F	0000F8	4	4408										
1KFPRS	D	000160	8	4420										
MKICODE	F	0000E8	4	4404										
1KLOGOUT	F	000100	4	4410										
1KMODEL	F	0000FC	4	4409										

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SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFER	ENCES										
1KXSAA	F	0000D4	4	4401												
MONCLS	Н	000094	2	4366												
MONCODE	F	00009C	4	4373												
10NNUMBR	X	000095	1	4368												
MPGACCID	X	0000A2	1	4376	2620											
MSG	Ţ	0004A0	4	3819	3620	2022										
MSGCMD	C	0004EA	120	3845	3832	3833	2024									
MSGMSG	C	0004F3	128	3846	3826	3843	3824									
MSGMVC	<u> </u>	0004E4	6	3843 3828	3830											
MSGOK MSGRET	<u> </u>	0004B6 0004D0	2	3839	3825 3836											
MSGSAVE	F	0004D0	4	3842	3822	3839										
NKGRS		000408	4	4421	3022	2029										
NUMTESTS	Ū	000180	1	3920	3921	3907										
ORB	4	000000	32	4109	4139	4147	3572									
ORB1 0	X	000004	1	4109	4133	+14/	J J / L									
ORB1_8	X	000004	1	4112	3766											
ORBA	Û	000010	1	4113	5700											
ORBB	Ü	000010	1	4125												
ORBC	Ü	000004	1	4115												
ORBCCW	A	000004	4	4137	3764											
ORBCSS	X	00000C	1	4141	5,54											
ORBCU	X	00000E	1	4144												
ORBD	Ü	000040	1	4132												
ORBF	Ū	000080	_ 1	4120	3766											
ORBH	Ū	000002	1	4126	3766											
ORBI	U	000020	1	4122												
ORBKEYM	U	0000F0	1	4113												
ORBL	U	000080	1	4130												
ORBLEN	U	00000C	1	4139												
ORBLPM	Χ	000006	1	4128												
ORBM	U	000002	1	4116												
ORBP	U	000040	1													
ORBPARM	F	000000	4	4110												
ORBPGM	Χ	00000E	1	4143												
ORBRSV25	U	00007E	1	4134												
ORBRSV26	U	00003E	1	4133												
ORBRSV3	U	00007F	1	4131												
ORBRSV4	U	080000	1	4138												
ORBRSV5	X	00000D	1	4142												
ORBRSV6	X	00000F	1	4145												
ORBRSV7	X	000010	16	4146												
ORBS	U	000008	1	4114												
ORBT	U	000001	1	4127												
ORBU ORBX	U U	000008 000001	1	4124 4135												
ORBXLEN	U	000020	1	4135 4147												
ORBY	U	000020	1	4147												
ORRB1_24	X	000007	1	4117	3767											
PCFETO	_	0000C4	4	4129	5/0/											
PERACCID	X	0000C4	1	4375												
PERACCID	F	0000A1	4	4373												
PERCODE	X	000096	1	4372												
PERCODE	Û	0000F0	1	4379												
PFX	Ü	0000F7	1	3901	3939	3947	3958	3968	3979	3989						
2 F X		11111111				ランサ /		2200								

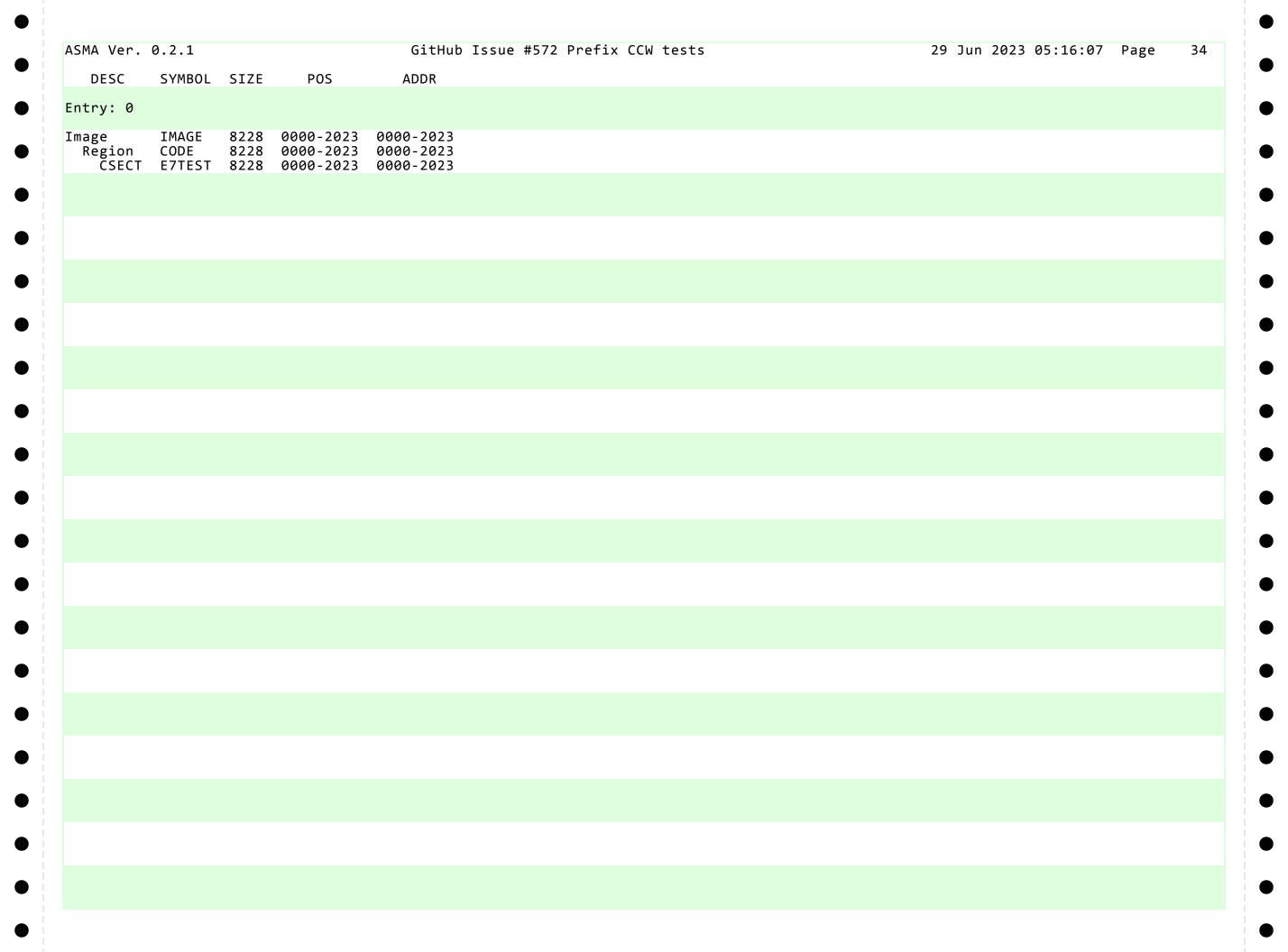
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SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFER	ENCES													
SMDXC	F	000090	4																
GMICODE	Н	00008E	2	4363															
GMIID	F	00008C	4	4359															
GMIILC	Χ	00008D	1	4361															
GMIILCM	U	00000C	1	4362															
GMNPSW	F	000068	8	4341															
MOPSW	F	000028	8	4313	4321														
MTRX	F	000090	4	4365															
1CW1 0	X	000004	1	4175															
CW1_8	X	000005	1	4178	3738	3744													
CWB_	Û	000003	1	4210	3730	3/44													
			1																
CWCHP0	X	000010		4199															
CWCHP1	X	000011	1	4200															
CWCHP2	X	000012	1	4201															
CWCHP3	X	000013	1	4202															
ICWCHP4	Χ	000014	1	4203															
1CWCHP5	X	000015	1	4204															
CWCHP6	Χ	000016	1	4205															
CWCHP7	Χ	000017	1	4206															
ICWDNUM	Н	000006	2	4190	3740														
CWE	U	000080	1	4179	3744														
CWEXC	X	00001B	1	4209	57														
CWIP	F	000000	4	4174															
CWISCM	Ü	000038	1	4176															
	_	000058	-																
ICWLM	U		1	4180															
ICWLMG	U	000020	1	4181															
ICWLML	U	000040	1	4182															
1CWLPM	Χ	000008	1	4192															
ICWLPUM	Χ	A00000	1	4194															
1CWM	U	000004	1	4186															
ICWMBI	Н	00000C	2	4196															
1CWMM	U	000018	1	4183															
1CWMMC	U	000008	1	4185															
1CWMME	Ü	000010	_ 1	4184															
ICWPAM	X	000016	1	4198															
ICWPIM	Y	00000F	1	4195															
ICWP IM ICWPNOM	Ŷ	000000	1	4193															
	^ V																		
ICWPOM	X	00000E	1	4197															
ICWRES1	X	000018	4	4207															
ICWRES2	X	000018	3	4208															
ICWS	U	000001	1	4212															
1CWT	U	000002	1	4187															
1CWV	U	000001	1	4188	3738														
1CWX	U	000002	1	4211															
)	U	000000	1		3567	3568	3576	3584	3595	3602	3619	3622	3636	3637	3763	3764	3765	3812	
					3819	3822	3824	3826	3828	3839									
	U	000001	1	4529	3578	3583	3619	3637	3641	3833	3843								
0	Ü	00000A	1		3612	3616	3619	3622	3624		20.5								
1	IJ	00000A	1	4539	3612	3626	5015	3022	3027										
					2012	3020													
2	U	00000C	1	4540															
.3	U	00000D	1	4541	2642	2622	2622	2624	2665	2666	2744	2022	2042						
4	U	00000E	1	4542	3610	3620	3623	3634	3665	3666	3714	3820	3840						
.5	U	00000F	1	4543	3639	3663	3712	3713	3725	3757	3813								
	U	000002	1	4530	3579	3622	3654	3822	3828	3829	3830	3832	3839						
	U	000003	1	4531	3569	3580	3582	3584	3601	3602	3710								
ļ	U	000004	1	4532	3570	3594	3595	3598	3599	3642	36/1	3765	3812						

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SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFER	ENCES										
5	U	000005		4533	3571	3649										
.6	U	000006	1	4534												
.7	U	000007	1	4535												
8	U	000008	1	4536	3572	3711										
9	U	000009	1	4537	3676	3678	3680	3682	3684	3687	3688					
D	U	000006	1	3896	3950	3960	3981									
DMT	U	000086	1	3900	3991											
SD	U	00003E	1	3897	3940	3969										
STNPSW	F	000000	8	4307												
STOPSW	F	000008	8	4308												
CANOUT	X	000080	1	4345	4346											
CANOUTL	U	000000	_1	4346												
CHIB	4	000000	52		4218	3570	3/34									
CHIBL	U	000034	1	4218												
CHMBA	A	000028	8	4216												
CHMDA1	X	000030	4	4217												
CHMDA3	X	000028	12	4215												
CHPMCW	X	000000	28	4173	2640											
CHSCSW	X	00001C	12	4214	3649	2574										
CSW	4	000000	12	4227	4289	3571										
CSW0CC	U	000004	1	4243												
CSW1	X	000002	1	4247	2001											
CSW2	X	000003	1	4256	3801											
CSWACP	U	000001	1													
CSWADA	U	000040	1													
CSWAHP	U	000002	1	_												
CSWALKC	U	000010	1	4241												
CSWARP	U	800000	1	4252												
CSWASA	U	000080	1	4257												
CSWASP	U	000004	1	4253												
CSWASUS	U	000020	1													
CSWATTN	U	000080		4269												
CSWBUSY	U	000010		4272												
SCSWCCTL	U	000004	1	4284	2005											
CSWCCW	A	000004	4	4266	3805											
SCSWCCWF	U	000080	1													
CSWCCWP	U	000040	1													
CSWCDAT	U	800000	1		2657	2001										
CSWCE	U	000008	1	4273	3657	3661										
CSWCHNG	U	000001	1	4286	2006											
CSWCNT	H	A0000A	2 1	4288	3806											
SCSWCS SCSWCTLS	X	000009	1	4278 4237	3651											
SCSWCTLS	X	000001 000020	1													
CSWCUE CSWDCC0	U U	000000	1	4271												
CSWDCC1	U	000001	1													
CSWDCC3	U	000001	1	4234												
CSWDCCM	U	000003	1													
CSWDE	U	000004	-	4232 4274	3657	3661										
CSWECWC	U	000002		4274	7037	2001										
CSWESWF	U	000002	1	4244												
CSWFC	U	000010	1													
CSWFH	U	000010	1	4251												
SCSWFLAG	X	000000	—	4238												
SCSWFLAG	Û	000070	1													
	U	000070	_	4248 4249												
CSWFS	U	999949	1	4249												

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SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFER	ENCES													
CSWICTL	U	000002	1	4285															
CSWIL	U	000040	1	4280															
CSWISIC	U	000020	1	4240															
CSWKEYM	U	0000F0	1	4229															
CSWL	U	00000C	1	4289															
CSWPCI CSWPNOP	U U	000080 000001	1 1	4279 4245															
CSWPRGM	U	000001	1	4245															
CSWPROT	U	000010	1	4282															
CSWSAS	Ü	000010	1	4260															
CSWSINT	Ü	000008	$\bar{1}$	4261															
CSWSM	Ü	000040	1	4270															
CSWSPEN	U	000001	1	4264															
SCSWSPRI	U	000004	1	4262	3803														
CSWSSEC	U	000002	1	4263															
SCSWSSIC	U	000008	1	4242															
SCSWSUSC	U	000008	1	4230															
SCSWUC	U	000002	1	4275	2657	2661	2002												
SCSWUS	X	000008	1	4268	3657	3661	3802												
SCSWUX SENSEPGM	U	000001 000698	1	4276 3932	2762														
SENSEPUM SLI	R U	000020	1 1	3932 3892	3763 3932	3939	3940	3947	3948	3949	3950	3958	3959	3960	3968	3969	3979	3980	
, L T	U	000020	1	2022	3932	3989	3940	3947 3991	J 740	ンフ 4フ	שנפנ	2220	J	שטפכ	2200	כטככ	J 7 7 7	2200	
SNS	U	000004	1	3895	3932	5505	5550	JJJI											
SNSBYTES	X	000004	32	3999	3932														
SSARCHMD	X	0000A3	1	4377	J J J Z														
SSARS	F	000120	4	4433															
SSCLKCMP	F	0000E0	8	4427															
SSCPUTIM	F	0000D8	8	4426															
SSCRS	F	0001C0	4	4436															
SSFPRS	D	000160	8	4434															
SSGRS	F	000180	4	4435															
SSMODEL	F	00010C	_	4431															
SSPREFIX	F_	000108	4	4430															
SSPSW	F	000100	8	4429															
SSXSAA	A	0000D4	4	4425															
STFLDATA	F	820000	4	4398															
SVCICODE	H	00008A 000088	2	4357															
SVCIID SVCIILC	X	000089	4 1	4353 4355															
SVCIILCM	Û	000005	1	4356															
SVCNPSW	F	000060	8	4340															
SVCOPSW	F	000000	8	4312	4319														
Γ1 3EBUF	X	000020	256	4010	3940														
1 CHPGM	R	0006E0	1	3939	3913														
1_DESC	С	0006A0	62	3936	3937	3913													
1_E7DAT	Χ	000990	12	4003	4009	3939													
1_E7LEN	U	00004C	1	4009	3939														
1_MSGLN	U	00003E	1	3937	3913	_													
[2_06BUF	Х	000B3C	10	4017	3950	3951													
2_06IDA	A	000768	8	3951	3950														
[2_47DAT	X	000B2C	16	4016	3949														
F2_63DAT	X	000B1C	16	4015	3948														
T2_CHPGM	R	000748	1	3947	3914	2014													
T2_DESC	C	0006F0	85 64	3944	3945	3914													
2_E7DAT	Χ	000ADC	64	4014	3947														

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SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFER	ENCES							
T2_MSGLN	U	000055	1	3945	3914	2054							
[3_06BUF	X	000B96	10	4027	3960	3961							
[3_06IDA	A	0007E0	8	3961	3960								
T3_47DAT	X	000B86	16	4026	3959								
T3_CHPGM	R	0007C8	1	3958	3915	2015							
T3_DESC	C	000770	86	3955	3956	3915							
T3_E7DAT	X	000B46	64	4021	3958								
T3_MSGLN	U	000056	1	3956 4032	3915	2072							
Γ4_3EBUF Γ4 3EIDA	X	000BA0 000860	256 8	3972	3969 3969	3972							
Γ4_SEIDA Γ4 CHPGM	A R	000840	1	3968	3916								
r4_cnPdn r4_DESC	C	0007E8	86	3965	3966	3916							
Γ4_DL3C Γ4 E7DAT	X	0007L8	76	4039	3968	3910							
T4_E7DAT PART1	X	001FD8	40	4040	3970								
T4_E7DAT_FARTI	٨	001100	40	4040	3370								
/DA!_! AK! 1_LLN	U	000028	1	4036	4037	4038	4040						
T4 E7DAT PART2	X	002000	36	4044	3971	.000							
T4 E7DAT PART2 LEN	•	332333	50										
	U	000024	1	4037	4044								
T4_E7DAT_TOTAL_LEN	_		_										
	U	00004C	1	4035	4037	4039							
Γ4_E7IDA	Α	000850	8	3970	3968								
⁻ 4 ⁻ MSGLN	U	000056	1	3966	3916								
T4 ORG	U	000CA0	1	4034	4048								
⁵ 06BUF	Χ	000CF0	10	4059	3981	3982							
Γ5 ⁻ 06IDA	Α	0008F0	8	3982	3981								
Γ5_47DAT	Χ	000CE0	16	4058	3980								
T5_CHPGM	R	0008D8	1	3979	3917								
T5_DESC	C	000868	111	3976	3977	3917							
T5_E7DAT	Χ	000CA0	64	4053	3979								
T5_MSGLN	U	00006F	1	3977	3917								
T6_47DAT	X	000D3A	16	4068	3990								
Γ6_86BUF	X	000D4A	10	4069	3991	3992							
T6_86IDA	A	000968	8	3992									
T6_CHPGM	R	000950	1	3989	3918	2010							
6_DESC	L	0008F8	81	3986	3987	3918							
T6_E7DAT	X	000CFA	64	4063	3989								
T6_MSGLN	U	000051	1	3987	3918	2624							
TESTLEN TESTLOOP	U T	000014 00024E	1	3921 3614	3619 3626	3624							
TESTLOOP	T T	00024E 000270	4 4	3614 3624	3626								
TESTNUM	11	000270	4	3908	3577	3636	3687						
restok	T	000200 0002C4	4	3665	3659	5050	5007						
TESTONLY	R	0002C4	1	3888	3614	3616							
TESTR14	Α	000111 0002CC	4	3668	3634	3665							
ESTTAB	A	000200	4	3911	3921	3907							
ESTTHIS	I	000260	4	3619	3615	- .							
IMER	F	000050	4	4336									
TDES	F	000054	4	4337									
JA0	F	000010	8	4309									
JA1	F	00004C	4	4334									
JA2	F	0000A4	4	4379									
JA3	F	0000B4	4	4388									
JA4	Χ	0000B8	1	4389									
JA5	Χ	0000CC	8	4399									
JA6	Χ	0000EC	8	4405									

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MACRO	DEFN	REFEREN	ICES										
ANTR APROB	115 247												
ARCHIND ARCHLVL	407 548	3437 3436											
ASAIPL ASALOAD	674 754	3519											
ASAREA ASAZAREA	809 994	4299											
CPUWAIT DSECTS DWAIT	1077 1403 1606	3782 4075	4107	4154	4169	4225	4296						
DWAITEND ENADEV ESA390	1663 1671 1771	3731											
IOCB IOCBDS IOFMT	1782 1958 1992	3857 4076 4108	4155	4170	4226	4458	4476	4484					
IOINIT IOTRFR ORB	2330 2371 2419	3720 3873											
POINTER PSWFMT RAWAIT	2608 2636 2770	3673											
RAWIO SIGCPU SMMGR	2866 3024 3082	3769											
SMMGRB TRAP128 TRAP64	3182 3231 3208	3531 3521	3524										
TRAPS ZARCH ZEROH	3244 3318 3330	3321	332 1										
ZEROL ZEROLH ZEROLL	3358 3386 3409												
ZENOLL	5405												



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	GitHub Issue #572 Prefix CCW tests	29	Jun	2023	05:16:07	rage	35
STMT	FILE NAME						
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** NO E	RORS FOUND **						