ASMA Ver.	0.2.1		GitHub I	ssue #572	Prefix CCW tests 11 Jul 2023 13:15:16 Page	1
LOC	OBJECT CODE	ADDR1	ADDR2	STMT		
				2 ***	*********************	
				3 * 4 *	E7Prefix	
				5 *		
				6 * 7 *	GitHub Issue #572	
				8 * 9 *	"z/VM 7.2 IPL'ing as guest of itself CCW Command Rejects"	
				10 * 11 * 12 *	https://github.com/SDL-Hercules-390/hyperion/issues/572 #issuecomment-1606223921	
				13 * 14 * 15 *	(Thank you to Aaron Finerman for devising these tests for us!)	
				16 *	OVERVIEW	
				17 * 18 *		
				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 * 25 *	All channel programs (except for one of them) are expected to complete normally without error (SCSW = CE+DE = X'0C00').	
				26 *		
				27 * 28 * 29 * 30 *	One them however (test #5) is purposely designed to always fail 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 *	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	
				42 * 43 * 44 *	IDA usage is only used in the Read 06 and Read 86 CCWs where the IDAL only has one entry in it so as to simply redirect the read to elsewhere.	
				45 *	read to elsewhere.	
				46 * 47 * 48 *	The set of tests to be run is controlled by the "TESTTAB". All tests in the table are run one after the other by default. To	
				49 * 50 * 51 *	run just one specific test, set the byte at address X'FFF' to the specific test number you want to run in your .tst script.	
				52 *	**********************	

ASMA Ver.	0.2.1		GitHub I	ssue #572 Pref	ix CCW tests	11 Jul 2023 13:15:16 Page	2
LOC	OBJECT CODE	ADDR1	ADDR2	STMT			
				55 3436	PRINT OFF PRINT ON		
						***************** • • *************	
				3442 3444+\$AL	ARCHLVL ZARCH=YES,/ OPSYN AL	ARCHIND=YES,MNOTE=NO	
				3445+\$ALR	OPSYN ALR		
				3446+\$B 3447+\$BAS	OPSYN B OPSYN BAS		
				3448+\$BASR	OPSYN BASR		
				3449+\$BC 3450+\$BCTR	OPSYN BC OPSYN BCTR		
				3451+\$BE	OPSYN BE		
				3452+\$BH 3453+\$BL	OPSYN BH OPSYN BL		
				3454+\$BM	OPSYN BM		
				3455+\$BNE 3456+\$BNH	OPSYN BNE OPSYN BNH		
				3457+\$BNL 3458+\$BNM	OPSYN BNL		
				3459+\$BNO	OPSYN BNM OPSYN BNO		
				3460+\$BNP 3461+\$BNZ	OPSYN BNP OPSYN BNZ		
				3462+\$B0	OPSYN BO		
				3463+\$BP 3464+\$BXLE	OPSYN BP OPSYN BXLE		
				3465+\$BZ	OPSYN BZ		
				3466+\$CH 3467+\$L	OPSYN CH OPSYN L		
				3468+\$LH	OPSYN LH		
				3469+\$LM 3470+\$LPSW	OPSYN LM OPSYN LPSW		
				3471+\$LR	OPSYN LR		
				3472+\$LTR 3473+\$NR	OPSYN LTR OPSYN NR		
				3474+\$SL	OPSYN SL		
				3475+\$SLR 3476+\$SR	OPSYN SLR OPSYN SR		
				3477+\$ST	OPSYN ST		
				3478+\$STM 3479+\$X	OPSYN STM OPSYN X		
				3480+\$AHI	OPSYN AHI		
				3481+\$B 3482+\$BC	OPSYN J OPSYN BRC		
				3483+\$BE	OPSYN JE		
				3484+\$BH 3485+\$BL	OPSYN JH OPSYN JL		
				3486+\$BM	OPSYN JM		
				3487+\$BNE 3488+\$BNH	OPSYN JNE OPSYN JNH		
				3489+\$BNL 3490+\$BNM	OPSYN JNL OPSYN JNM		
				3490+\$BNO	OPSYN JNM OPSYN JNO		

ASMA Ver.	0.2.1		GitHub Is	sue #572 Prefi	x CCW	tests	11 Jul 2023 13:15:16 Page 3
LOC	OBJECT CODE	ADDR1	ADDR2	STMT			
				3492+\$BNP	OPSYN	JNP	
				3493+\$BNZ	OPSYN		
				3494+\$B0	OPSYN		
				3495+\$BP	OPSYN		
				3496+\$BXLE 3497+\$BZ	OPSYN OPSYN		
				3498+\$CHI	OPSYN		
				3499+\$AHI	OPSYN		
				3500+\$AL	OPSYN		
				3501+\$ALR	OPSYN		
				3502+\$BCTR 3503+\$BXLE		BCTGR JXLEG	
				3504+\$CH	OPSYN		
				3505+\$CHI	OPSYN	CGHI	
				3506+\$L	OPSYN		
				3507+\$LH	OPSYN		
				3508+\$LM 3509+\$LPSW	OPSYN	LPSWE	
				3510+\$LR	OPSYN		
				3511+\$LTR	OPSYN		
				3512+\$NR	OPSYN		
				3513+\$SL	OPSYN		
				3514+\$SLR 3515+\$SR	OPSYN OPSYN		
				3516+\$ST	OPSYN		
				3517+\$STM	OPSYN		
				3518+\$X	OPSYN	XG	
					****		***************************************
				3520 ******* 3521 *			**************************************
				3522 *		the location count	
				3523 ******	****	******	***********
				3525 E7TEST		AD REGION=CODE	
0000000	0002000 0000000	00000000	00002023	3526+E7TEST		0,CODE	CA hit Doctort TCD Track Nov. DCU
00000000	00020000 00000000	00000010	00000058	3528+ 3529+	PSW ORG	0,0,2,0,X'008' E7TEST+X'058'	64-bit Restart ISR Trap New PSW
00000010	00020000 00000000	00000010	20000030	3531+	PSW	0,0,2,0,X'018'	64-bit External ISR Trap New PSW
00000068	00020000 00000000			3532+	PSW	0,0,2,0,X'020'	64-bit Supervisor Call ISR Trap New PSW
00000078	00020000 00000000			3533+	PSW	0,0,2,0,X'028'	64-bit Program ISR Trap New PSW
00000088	00020000 00000000			3534+	PSW	0,0,2,0,X'030'	64-bit Machine Check Trap New PSW
00000098 000000A8	00020000 00000000	000000A8	000001A0	3535+ 3536+	PSW ORG	0,0,2,0,X'038' E7TEST+X'1A0'	64-bit Input/Output Trap New PSW
000000A0	00020000 00000000	00000000	300001A0	3538+	PSWZ		Restart ISR Trap New PSW
000001B0	00020000 00000000			3539+	PSWZ	0,0,2,0,X'130'	External ISR Trap New PSW
000001C0	00020000 00000000			3540+		0,0,2,0,X'140'	Supervisor Call ISR Trap New PSW
000001D0 000001E0	00020000 00000000 00020000 00000000			3541+ 3542+		0,0,2,0,X'150' 0,0,2,0,X'160'	Program ISR Trap New PSW Machine Check Trap New PSW
000001E0	00020000 00000000			3543+		0,0,2,0,X 100 0,0,2,0,X'170'	Input/Output Trap New PSW
) ·) ·) · · · · · · ·	, ., ., .p

```
ASMA Ver. 0.2.1
                                   GitHub Issue #572 Prefix CCW tests 11 Jul 2023 13:15:16 Page
 LOC
           OBJECT CODE
                           ADDR1
                                    ADDR2
                                            STMT
                                            3546 *
                                                                LOW CORE
                                            ORG
                                                              E7TEST+X'1A0'
00000200
                          00000200 000001A0
                                            3549
                                                                                           z/Arch Restart New PSW
                                            3550
                                                              0D'0',XL8'0000000180000000'
000001A0
        0000001 80000000
                                                         DC
000001A8
        0000000 00000200
                                            3551
                                                         DC
                                                              AD(BEGIN)
                                                              E7TEST+X'1D0'
000001B0
                          000001B0 000001D0
                                            3553
                                                         ORG
                                                                                            z/Arch Program New PSW
000001D0
        00020001 80000000
                                            3554
                                                         DC
                                                              0D'0',XL8'0002000180000000'
        0000000 0000DEAD
                                                         DC
                                                              AD(X'DEAD')
000001D8
                                            3555
                                            3558 *
                                                                   ENTRY POINT CODE
                                            3559 ************
                                            3560 *
                                            3561 *
                                                            (work) (also ENADEV macro's I/O device during startup)
                                                    R1
                                            3562 *
                                                    R2
                                                            (work)
                                            3563 *
                                                    R3
                                                            IOCB pointer (set by INIT, needed by ENADEV macro)
                                                            SCHIB pointer (tempoarily used at INIT during ENADEV)
                                            3564 *
                                                    R4
                                            3565 *
                                                            SCHSCSW pointer (also temporarily used for CPU register
                                            3566 *
                                                            when signaling architecture change during startup)
                                            3567 *
                                                            (work) (also used as signaling registers when changing
                                                    R6, R7
                                            3568 *
                                                            architecture during startup)
                                            3569 *
                                                            ORB pointer (set by INIT, used by EXCP subroutine)
                                                    R8
                                            3570 *
                                                    R9-R15
                                                            (work)
                                                                     ****************
                                            3571 ********
000001E0
                          00000000
                                            3573
                                                         USING E7TEST, R0
                                                                               Low core addressability
000001E0
                          00000000
                                            3574
                                                         USING ASA, RO
                                                                               Low core addressability
                                                         USING IOCB, R3
                                                                               SATK Device I/O-Control Block
                          00000000
                                            3575
000001E0
                                                         USING SCHIB, R4
                                                                               ESA/390 Subchannel Information Block
000001E0
                          00000000
                                            3576
                                                         USING SCSW.R5
                                                                               ESA/390 Subchannel Status Word
000001E0
                          00000000
                                            3577
000001E0
                          00000000
                                            3578
                                                         USING ORB, R8
                                                                               ESA/390 Operation-Request Block
000001E0
                                                              E7TEST+X'200'
                          000001E0
                                   00000200
                                            3580
                                                         ORG
                                            3581 BEGIN
                          00000200
                                   00000001
                                                         EQU
                                            3582
                                                         SLR
00000200 1F00
                                                              R0,R0
                                                                               Start clean (SIGP status register)
                                                                               Initialize Test number
00000202 9200 0200
                                   00000200
                                            3583
                                                         MVI
                                                              TESTNUM, 0
00000206 1F11
                                            3584
                                                         SLR
                                                              R1,R1
                                                                               Start clean (SIGP parm register)
00000208 1F22
                                                              R2,R2
                                                                               Start clean
                                            3585
                                                         SLR
                                                                               Start clean (SIGP target CPU)
0000020A 1F33
                                            3586
                                                         SLR
                                                              R3,R3
0000020C 4130 0000
                                   00000000 3588
                                                              R3,0
                                                                               Target CPU = CPU #0
                                                         LA
                                                                               Parm register = z/Arch mode
00000210 4110 0001
                                   00000001 3589
                                                         LA
                                                              R1,1
                                                        SIGP R0,R3,X'12'
00000214 AE03 0012
                                                                               Order code = z/Arch mode
                                   00000012 3590
00000218 4780 0232
                                   00000232 3591
                                                        BC
                                                              B'1000',ZARCHOK
                                                                               CC0 = success: continue
                                                                               CC1 = status stored: check further
0000021C 4740 0228
                                                              B'0100', CHKZARCH
                                   00000228 3592
                                                         BC
                                                              B'0010',FAILCPU0
B'0001',FAILCPU0
00000220 4720 02D0
                                   000002D0 3593
                                                         BC
                                                                               CC2 = busy: FAIL
                                                                               CC3 = not operational: FAIL
00000224 4710 02D0
                                   000002D0 3594
                                                         BC
```

ASMA Ver.	0.2.1		GitHub Is	sue #572 Prefix	CCW 1	tests	11 Jul 2023 13:15:16 Page 5
LOC	OBJECT CODE	ADDR1	ADDR2	STMT			
				3597 * E	nsure	test program execut	**************************************
0000022C	4140 0100 1504 A774 0051		00000100 000002D0	3600 CHKZARCH 3601 3602	CLR	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	3604 ZARCHOK 3605	LA STH	R4,BEGIN0 R4,X'1AE'	Point to CPU #0 entry point Update Restart PSW
	4130 0000 AE03 0006		00000000 00000006	3607 3608	LA SIGP	R3,0 R0,R3,X'6'	Target CPU = CPU #0 Order code = Restart
00000242	B2B2 02D0		000002D0	3610	LPSWE	FAILCPU0	WTF?! How did we get here?!
				3613 * THE	ACTUAL	(very short and si	**************************************
00000246	45E0 0368		00000368	3616 BEGIN0	BAL	R14,INIT	Initalize Program
0000024A	98AB 0610		00000610	3618	LM	R10,R11,ATESTTAB	R10> table, R11 <== #of entries
00000252	9500 0FFF 4780 0260		00000260	3620 TESTLOOP 3621	BE	TESTONLY,0 TESTTHIS	Do only specific test? No, do all tests
	D500 0FFF A003 4770 0270	00000FFF	00000003 00000270		CLC BNE	TESTONLY,3(R10) TESTNEXT	Is the test they want? No, skip this test
	9801 A00C 45E0 04A0		0000000C 000004A0	3625 TESTTHIS 3626		R0,R1,(TESTLEN-(2*4 R14,MSG	4))(R10) R0 <== MSG LEN, R1> MSG Report which test this is
0000026C	9802 A000 45E0 027C 41A0 A014		00000000 0000027C 00000014	3628 3629 3630 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	3632	ВСТ	R11,TESTLOOP	Loooop until no more tests
00000278	B2B2 0308		00000308	3634	LPSWE	GOODPSW	E7TEST SUCCESS!

ASMA Ver.	0.2.1		GitHub Is	sue #572 Prefi	x CCW	tests	11 Jul 2023 13:15:16 Page 6
LOC	OBJECT CODE	ADDR1	ADDR2	STMT			
				3637 *	Gener	ic TEST subroutine:	**************************************
0000027C	50E0 02CC		000002CC	3640 DOTEST	ST	R14,TESTR14	Save return address
00000280 00000284	4200 0200 1801		00000200	3642 3643	STC LR	R0,TESTNUM R0,R1	Save this test's test number R0> This test's Channel Program
00000286	45F0 03E2		000003E2	3645	BAL	R15,EXCP	Execute this Channel Program
0000028A 0000028E	5810 3000 5840 3028		00000000 00000028	3647 3648	L L	R1,IOCBDID R4,IOCBSIB	R1 <== Subchannel R4 <== SCHIB address
	B234 4000 4770 02D8		00000000 000002D8	3650 3651	STSCH BC	0(R4) B'0111',FAILSCH	Store Subchannel for our device FAIL if anything other than CCO
				3653 *	Verif	y correct/expected	I/O completion
0000029A	4150 401C		0000001C	3655	LA	R5,SCHSCSW	R5> SCSW
	9500 5009 4770 02F0		00000009 000002F0	3657 3658	CLI BNE	SCSWCS,0 FAILTEST	Clean channel status? No?! ALWAYS FAIL THE TEST!
000002A6 000002A8	1222 4770 02B8		000002B8	3660 3661	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	3663 3664 3665	CLI BNE B	SCSWUS,SCSWCE+SCSW FAILTEST TESTOK	IDE Check for normal successful I/O No?! FAIL! Yes, then we're done; return
000002B8 000002BC	950C 5008 4780 02F0 45F0 03DE		000002C4 00000008 000002F0 000003DE	3667 ERRTEST 3668	CLI BE BAL	SCSWUS, SCSWCE+SCSW FAILTEST R15, DOSENSE	
000002C4 000002C8	58E0 02CC 07FE		000002CC	3671 TESTOK 3672	L BR	R14,TESTR14 R14	Restore R14 return address Return to caller
000002CC	00000000			3674 TESTR14	DC	A(0) Test subr	outine saved R14 return address

ASMA Ver.	0.2.1		GitHub Is	sue #572 F	Prefix	CCW t	tests	11 Jul 2023 13:15:16 Page	7
LOC	OBJECT CODE	ADDR1	ADDR2	STMT					
				3677 *			Disabled Wait R	**************************************	
				3680 *	Test	failu	ure routines to load	specific failure PSW	
000002D8 000002DC 000002E0 000002E4 000002E8 000002EC	4190 0328 47F0 02F8 4190 0338 47F0 02F8 4190 0348 47F0 02F8 4190 0358 47F0 02F8 4190 0318 47F0 02F8		00000328 000002F8 00000338 000002F8 00000348 000002F8 00000358 000002F8 00000318	3684 FAII 3685 3686 FAII 3687 3688 FAII 3689 3690 FAII	LSCH LDEV LIO LTEST	B LA B LA B 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	3693 FAII 3694		MVC LPSWE	16-1(1,R9),TESTNUM 0(R9)	Put failing test# into PSW Load failure PSW	
				3696 * 3697 ** 3698 *	0ve	rall t	cest SUCCESS / FAILU	RE disabled wait PSWs	
	00020001 80000000 00020001 80000000			3700 GOOD 3701 FAII				0000000',AD(X'00000000') 0000000',AD(X'0BAD0000')	
				3703 * 3704 ** 3705 *	Spe	cific	unexpected failure o	disabled wait PSWs	
00000348	00020001 8000000 00020001 8000000 00020001 8000000 00020001 80000000			3707 BAD6 3708 BAD6 3709 BAD6 3710 BAD6	77PSW 88PSW	DC DC	0D'0',XL8'0002000180 0D'0',XL8'0002000180	000000',AD(X'0BAD6600') 0000000',AD(X'0BAD7700') 0000000',AD(X'0BAD8800') 0000000',AD(X'0BAD9900')	

SMA Ver.	0.2.1		GitHub Is	sue #572 Prefi	x CCW	tests	11 Jul 2023 13:15:16 Page 8
LOC	OBJECT CODE	ADDR1	ADDR2	STMT			
				3712 ******	*****	********	*********
				3713 *	Progr	am Initialization	
				3714 ******	*****	*******	*********
0000368	4130 0574		00000574	3716 INIT	LA	R3,IOCB A80	R3> IOCB
000036C	E380 3018 0004		00000018	3717	LG	R8,IOCBORB	R8> ORB
0000372	45F0 037C		0000037C	3718	BAL	R15,IOINIT	Init CPU for I/O operations
0000376	45F0 038A		0000038A	3719	BAL	R15, ENADEV	Enable device for I/O
000037A	07FE			3720	BR	R14	Return to caller
				3722 ******	*****		*********
				3723 *	Initi	alize the CPU for I	I/O operations
				3724 ******	*****	*******	**********
				3726 IOINIT	IOINI		
000037C	B766 0384		00000384	3727+IOINIT		6,6,IOMK0007	Enable subchannel subclasses for interruptions
0000380	47F0 0388		00000388		В	IOMK0007+4	
0000384				3729+IOMK0007	_	0F	
0000384	FF000000			3730+	DC	XL4'FF000000'	All subchannel subclasses enabled
0000388	07FF			3731	BR	R15	Return to caller
				3733 ******	*****	*******	*********
				3733 ******* 3734 *			
				3733 ******* 3734 * 3735 ******			
				3733 ******* 3734 * 3735 ******			**************************************
				3734 * 3735 ******	Enabl *****	e the device, makir	ng it ready for use ************************************
0000038A	5810 03D4		000003D4	3733 ******** 3734 * 3735 ******* 3737 ENADEV 3738+ENADEV	Enabl *****	e the device, makir ************** V ENAOKAY, FAILDEV,	ng it ready for use ************************************
0000038A 0000038E	5810 03D4 E340 3028 0004			3734 * 3735 ******** 3737 ENADEV	Enabl *****	e the device, makir ********** V ENAOKAY, FAILDEV, 1, FIND0008	ng it ready for use ************************************
		00000000		3734 * 3735 ******* 3737 ENADEV 3738+ENADEV	Enabl ***** ENADE L \$L	e the device, makir *************** V ENAOKAY, FAILDEV, 1, FIND0008 4, IOCBSIB	ng it ready for use ************************************
000038E		0000000		3734 * 3735 ******* 3737 ENADEV 3738+ENADEV 3739+	Enabl ***** ENADE L \$L USING	e the device, makir **************** V ENAOKAY, FAILDEV, 1, FIND0008 4, IOCBSIB SCHIB, 4	ng it ready for use ************************************
0000038E 00000394		0000000		3734 * 3735 ******** 3737 ENADEV 3738+ENADEV 3739+ 3740+ 3741+FINL0008	Enabl ***** ENADE L \$L USING	e the device, makir *************** V ENAOKAY, FAILDEV, 1, FIND0008 4, IOCBSIB SCHIB, 4 0H Retrieve Subo	ng it ready for use ************************************
0000038E 00000394 00000394	E340 3028 0004 B234 4000	0000000	00000028	3734 * 3735 ******** 3737 ENADEV 3738+ENADEV 3739+ 3740+ 3741+FINL0008 3742+	Enabl ***** ENADE L \$L USING DS	e the device, makir *************** V ENAOKAY, FAILDEV, 1, FIND0008 4, IOCBSIB SCHIB, 4 0H Retrieve Subo	ng it ready for use ************ ,REG=4 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
0000038E 00000394 00000394 00000394 00000398	B234 4000 A774 FFA4 9101 4005	0000000	00000028 00000000 000002E0 00000005	3734 * 3735 ******** 3737 ENADEV 3738+ENADEV 3739+ 3740+ 3741+FINL0008 3742+ 3743+ 3744+	Enabl ***** ENADE L \$L USING DS STSCH \$BC TM	e the device, makir **************** V ENAOKAY, FAILDEV, 1, FIND0008 4, IOCBSIB SCHIB, 4 0H Retrieve Subc 0(4) B'0111', FAILDEV PMCW1_8, PMCWV	ng it ready for use ********************************** ,REG=4 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?
0000038E 00000394 00000394 00000398 0000039C	B234 4000 A774 FFA4 9101 4005 A784 0011		00000028 00000000 000002E0 00000005 000003C2	3734 * 3735 ******** 3737 ENADEV 3738+ENADEV 3739+ 3740+ 3741+FINL0008 3742+ 3743+ 3744+ 3745+	Enabl ***** ENADE L \$L USING DS STSCH \$BC TM \$BZ	e the device, makin ***************** V ENAOKAY, FAILDEV, 1, FIND0008 4, IOCBSIB SCHIB, 4 0H Retrieve Subc 0(4) B'0111', FAILDEV PMCW1_8, PMCWV FINN0008	ng it ready for use ********************************* ,REG=4 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
0000038E 00000394 00000394 00000398 0000039C 000003A0	B234 4000 A774 FFA4 9101 4005 A784 0011 D501 4006 3004	00000000	00000028 00000000 000002E0 00000005 0000003C2 00000004	3734 * 3735 ******** 3737 ENADEV 3738+ENADEV 3739+ 3740+ 3741+FINL0008 3742+ 3743+ 3744+ 3745+ 3746+	Enabl ***** ENADE L \$L USING DS STSCH \$BC TM \$BZ CLC	e the device, makin **************** V ENAOKAY, FAILDEV, 1, FIND0008 4, IOCBSIB SCHIB, 4 0H Retrieve Subo 0(4) B'0111', FAILDEV PMCW1_8, PMCWV FINN0008 PMCWDNUM, IOCBDEV	ng it ready for use **************************** ,REG=4 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?
0000038E 00000394 00000394 00000398 0000039C 000003A0	B234 4000 A774 FFA4 9101 4005 A784 0011 D501 4006 3004		00000028 00000000 000002E0 00000005 000003C2	3734 * 3735 ******** 3737 ENADEV 3738+ENADEV 3739+ 3740+ 3741+FINL0008 3742+ 3743+ 3744+ 3745+ 3746+ 3747+	Enabl ***** ENADE L \$L USING DS STSCH \$BC TM \$BZ CLC \$BNE	e the device, makin *************** V ENAOKAY, FAILDEV, 1, FIND0008 4, IOCBSIB SCHIB, 4 0H Retrieve Subc 0(4) B'0111', FAILDEV PMCW1_8, PMCWV FINN0008 PMCWDNUM, IOCBDEV FINN0008	ng it ready for use ********************************* ,REG=4 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
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	3734 * 3735 ******** 3737 ENADEV 3738+ENADEV 3739+ 3740+ 3741+FINL0008 3742+ 3743+ 3744+ 3745+ 3746+ 3747+ 3748+* Subchar	Enabl ***** ENADE L \$L USING DS STSCH \$BC TM \$BZ CLC \$BNE nnel f	e the device, makin **************** V ENAOKAY, FAILDEV, 1, FIND0008 4, IOCBSIB SCHIB, 4 0H Retrieve Subco 0(4) B'0111', FAILDEV PMCW1_8, PMCWV FINN0008 PMCWDNUM, IOCBDEV FINN0008 ound!	ng it ready for use ***************************** ,REG=4 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
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	3734 * 3735 ******** 3737 ENADEV 3738+ENADEV 3739+ 3740+ 3741+FINL0008 3742+ 3743+ 3744+ 3745+ 3746+ 3747+ 3748+* Subchal 3749+	Enabl ***** ENADE L \$L USING DS STSCH \$BC TM \$BZ CLC \$BNE nnel f ST	e the device, makin *************** V ENAOKAY, FAILDEV, 1, FIND0008 4, IOCBSIB SCHIB, 4 0H Retrieve Subco 0(4) B'0111', FAILDEV PMCW1_8, PMCWV FINN0008 PMCWDNUM, IOCBDEV FINN0008 ound! 1, IOCBDID	ng it ready for use ********************************** ,REG=4 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 in
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		00000028 00000000 000002E0 00000005 00000004 000000000 000000000	3734 * 3735 ******** 3737 ENADEV 3738+ENADEV 3739+ 3740+ 3741+FINL0008 3742+ 3743+ 3744+ 3745+ 3746+ 3747+ 3748+* Subchar 3749+ 3750+	Enabl ***** ENADE L \$L USING DS STSCH \$BC TM \$BZ CLC \$BNE nnel f ST OI	e the device, makin *************** V ENAOKAY, FAILDEV, 1, FIND0008 4, IOCBSIB SCHIB, 4 0H Retrieve Subc 0(4) B'0111', FAILDEV PMCW1_8, PMCWV FINN0008 PMCWDNUM, IOCBDEV FINN0008 ound! 1, IOCBDID PMCW1_8, PMCWE	ng it ready for use ********************************** ,REG=4 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 improve the subchannel so I/O requests accepted.
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		00000028 00000000 000002E0 00000005 00000004 000000000 000000000 00000000	3734 * 3735 ******** 3737 ENADEV 3738+ENADEV 3739+ 3740+ 3741+FINL0008 3742+ 3743+ 3744+ 3745+ 3746+ 3747+ 3748+* Subchar 3749+ 3750+ 3751+	Enabl ***** ENADE L \$L USING DS STSCH \$BC TM \$BZ CLC \$BNE nnel f ST OI MSCH	e the device, makin **************** V ENAOKAY, FAILDEV, 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)	ng it ready for use ********************************* ,REG=4 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 i Make sure it is enabled so I/O requests accepte Enable the subchannel to the channel sub-system
0000038E 00000394 00000394 00000398 0000039C 000003A0 000003AA 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 000003C2 00000000 00000000 00000000 00000000	3734 * 3735 ******** 3737 ENADEV 3738+ENADEV 3739+ 3740+ 3741+FINL0008 3742+ 3743+ 3744+ 3745+ 3746+ 3747+ 3748+* Subchar 3749+ 3750+ 3751+ 3752+	Enabl ***** ENADE L \$L USING DS STSCH \$BC TM \$BZ CLC \$BNE nnel f ST OI MSCH \$BC	e the device, makin *************** V ENAOKAY, FAILDEV, 1, FIND0008 4, IOCBSIB SCHIB, 4 0H Retrieve Subc 0(4) B'0111', FAILDEV PMCW1_8, PMCWV FINN0008 PMCWDNUM, IOCBDEV FINN0008 ound! 1, IOCBDID PMCW1_8, PMCWE 0(4) B'1000', ENAOKAY	ng it ready for use ***********************************
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 000000000 000000000 00000000	3734 * 3735 ******** 3737 ENADEV 3738+ENADEV 3739+ 3740+ 3741+FINL0008 3742+ 3743+ 3744+ 3745+ 3746+ 3747+ 3748+* Subchar 3749+ 3750+ 3751+ 3752+ 3753+	Enabl ***** ENADE L \$L USING DS STSCH \$BC TM \$BZ CLC \$BNE nnel f ST OI MSCH \$BC \$B	e the device, makin **************** V ENAOKAY, FAILDEV, 1, FIND0008 4, IOCBSIB SCHIB, 4 0H Retrieve Subc 0(4) B'0111', FAILDEV PMCW1_8, PMCWV FINN0008 PMCWDNUM, IOCBDEV FINN0008 ound! 1, IOCBDID PMCW1_8, PMCWE 0(4) B'1000', ENAOKAY FAILDEV	ng it ready for use ********************************* REG=4 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 i Make sure it is enabled so I/O requests accepte Enable the subchannel to the channel sub-system CCO (SCHIB updated), device is ready. CC1,CC2,CC3 (SCHIB update failed), quit
000038E 0000394 0000394 0000398 000039C 00003A0 00003A4 00003A4 00003A4 00003B2 00003B6 00003B6	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 00000004 00000000 00000000 00000000 000000	3734 * 3735 ******** 3737 ENADEV 3738+ENADEV 3739+ 3740+ 3741+FINL0008 3742+ 3743+ 3744+ 3745+ 3746+ 3747+ 3748+* Subchar 3749+ 3750+ 3751+ 3752+ 3753+ 3754+FINN0008	Enabl ***** ENADE L \$L USING DS STSCH \$BC TM \$BZ CLC \$BNE nnel f ST OI MSCH \$BC \$B DS	e the device, makin ***************** V ENAOKAY, FAILDEV, 1, FIND0008 4, IOCBSIB SCHIB, 4 0H Retrieve Subco 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	ng it ready for use ******************************** ,REG=4 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 i Make sure it is enabled so I/O requests accepte Enable the subchannel to the channel sub-system CCO (SCHIB updated), device is ready. CC1,CC2,CC3 (SCHIB update failed), quit xt subchannel
0000038E 00000394 00000394 00000398 000003A0 000003A4 000003A4 000003A6 000003B6 000003B6 000003B6 000003B2	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	3734 * 3735 ******** 3737 ENADEV 3738+ENADEV 3739+ 3740+ 3741+FINL0008 3742+ 3743+ 3744+ 3745+ 3746+ 3747+ 3748+* Subchal 3749+ 3750+ 3751+ 3752+ 3753+ 3754+FINN0008 3755+	Enabl ***** ENADE L \$L USING DS STSCH \$BC TM \$BZ CLC \$BNE nnel f ST OI MSCH \$BC \$B DS LA	e the device, makin **************** V ENAOKAY, FAILDEV, 1, FIND0008 4, IOCBSIB SCHIB, 4 0H Retrieve Subco 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 ney 1,1(0,1)	ng it ready for use ***********************************
0000038E 00000394 00000394 00000398 000003A0 000003A4 000003A4 000003AE 000003BE 000003BE 000003BE 000003BE 000003BE	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 0000003C2 00000000 00000000 00000000 00000000 0000	3734 * 3735 ******** 3737 ENADEV 3738+ENADEV 3739+ 3740+ 3741+FINL0008 3742+ 3743+ 3744+ 3745+ 3746+ 3747+ 3748+* Subchar 3749+ 3750+ 3751+ 3752+ 3753+ 3754+FINN0008 3755+ 3756+	Enabl ***** ENADE L \$L USING DS STSCH \$BC TM \$BZ CLC \$BNE nnel f ST OI MSCH \$BC \$B DS LA CL	e the device, makin **************** V ENAOKAY, FAILDEV, 1, FIND0008 4, IOCBSIB SCHIB, 4 0H Retrieve Subco 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	ng it ready for use ***********************************
0000038E 00000394 00000394 00000398 000003A0 000003A4 000003A4 000003AA 000003B2 000003B6 000003B6 000003B6 000003C2 000003C2	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	3734 * 3735 ********* 3737 ENADEV 3738+ENADEV 3739+ 3740+ 3741+FINL0008 3742+ 3743+ 3744+ 3745+ 3746+ 3747+ 3748+* Subchar 3749+ 3750+ 3751+ 3752+ 3753+ 3754+FINN0008 3755+ 3756+ 3757+	Enabl ***** ENADE L \$L USING DS STSCH \$BC TM \$BZ CLC \$BNE nnel f ST OI MSCH \$BC \$BC ABC BBC ABC ABC ABC ABC ABC ABC ABC A	e the device, makin **************** V ENAOKAY, FAILDEV, 1, FIND0008 4, IOCBSIB SCHIB, 4 0H Retrieve Subco 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	ng it ready for use ***********************************
0000038E 00000394 00000394 00000398 0000039C 000003AA 000003AA 000003AA 000003BA 000003BA 000003BA 000003BA 000003BA 000003BA 000003CA 000003CA	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	3734 * 3735 ********* 3737 ENADEV 3738+ENADEV 3739+ 3740+ 3741+FINL0008 3742+ 3743+ 3744+ 3745+ 3746+ 3747+ 3748+* Subchar 3749+ 3750+ 3751+ 3752+ 3753+ 3754+FINN0008 3755+ 3756+ 3757+ 3758+	Enabl ***** ENADE L \$L USING DS CH \$BC TM \$BZ CLC \$BNE nnel f OI MSCH \$BC \$B CL \$BNH \$BH	e the device, makin **************** V ENAOKAY, FAILDEV, 1, FIND0008 4, IOCBSIB SCHIB, 4 0H Retrieve Subco 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	ng it ready for use ***********************************
0000038E 00000394 00000394 00000398 000003A0 000003A0 000003A4 000003AA 000003BA 000003BA 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 A724 FF89		00000028 00000000 000002E0 0000005 0000004 000003C2 00000000 0000005 00000000 0000005 000000	3734 * 3735 ********* 3737 ENADEV 3738+ENADEV 3739+ 3740+ 3741+FINL0008 3742+ 3743+ 3745+ 3746+ 3747+ 3748+* Subchar 3749+ 3750+ 3751+ 3752+ 3753+ 3754+FINN0008 3755+ 3756+ 3757+ 3758+ 3759+	Enabl ***** ENADE \$L USING DS STSCH \$BZ CLC \$BNE nnel f OI MSCH \$BC \$B DS LA CL \$BNH \$BH DROP	e the device, makin ***************** V ENAOKAY, FAILDEV, 1, FIND0008 4, IOCBSIB SCHIB, 4 0H Retrieve Subco 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	ng it ready for use ***********************************
0000038E 00000394 00000394 00000398 000003A0 000003A0 000003A4 000003A4 000003B2 000003B2 000003B2 000003B2 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		00000028 00000000 000002E0 0000005 000003C2 00000000 0000005 00000000 0000005 000000	3734 * 3735 ********* 3737 ENADEV 3738+ENADEV 3739+ 3740+ 3741+FINL0008 3742+ 3743+ 3744+ 3745+ 3746+ 3747+ 3748+* Subchar 3749+ 3750+ 3751+ 3752+ 3753+ 3754+FINN0008 3755+ 3756+ 3757+ 3758+ 3759+ 3760+FIND0008	Enabl ***** ENADE \$L USING DS STSCH \$BZ CLC \$BNE OI MSCH \$BC \$B DS LA CL \$BNH \$BC DR DR DR DR DC DC	e the device, makin ***************** V ENAOKAY, FAILDEV, 1, FIND0008 4, IOCBSIB SCHIB, 4 0H Retrieve Subco 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 FINL0008 FAILDEV 4 A(X'00010000')	ng it ready for use ***********************************
0000038E 00000394 00000394 00000398 000003A0 000003A0 000003A4 000003AA 000003BA 000003BA 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 A724 FF89		00000028 00000000 000002E0 0000005 000003C2 00000000 0000005 00000000 0000005 000000	3734 * 3735 ********* 3737 ENADEV 3738+ENADEV 3739+ 3740+ 3741+FINL0008 3742+ 3743+ 3745+ 3746+ 3747+ 3748+* Subchar 3749+ 3750+ 3751+ 3752+ 3753+ 3754+FINN0008 3755+ 3756+ 3757+ 3758+ 3759+	Enabl ***** ENADE \$L USING DS STSCH \$BZ CLC \$BNE OI MSCH \$BC \$B DS LA CL \$BNH \$BC DR DR DR DR DC DC	e the device, makin ***************** V ENAOKAY, FAILDEV, 1, FIND0008 4, IOCBSIB SCHIB, 4 0H Retrieve Subco 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	ng it ready for use ***********************************
000038E 0000394 0000394 0000394 0000398 00003A0 00003A4 00003A4 00003A4 00003B2 00003B6 00003B6 00003B6 00003C2 00003C2 00003C2 00003C2	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 000003C2 00000000 0000005 00000000 0000005 000000	3734 * 3735 ********* 3737 ENADEV 3738+ENADEV 3739+ 3740+ 3741+FINL0008 3742+ 3743+ 3744+ 3745+ 3746+ 3747+ 3748+* Subchar 3749+ 3750+ 3751+ 3752+ 3753+ 3754+FINN0008 3755+ 3756+ 3757+ 3758+ 3759+ 3760+FIND0008	Enabl ***** ENADE L SING DS STSCH \$BC TM \$BZ CLC \$BNE OI MSCH \$BB DS LA CL \$BNH \$BH DROP DC DC	e the device, makin ***************** V ENAOKAY, FAILDEV, 1, FIND0008 4, IOCBSIB SCHIB, 4 0H Retrieve Subco 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 FINL0008 FAILDEV 4 A(X'00010000')	ng it ready for use ***********************************

SMA Ver.	0.2.1		GitHub Is	sue #572 Prefi	x CCW	tests	11 Jul 2023 13:15:16 Page 9
LOC	OBJECT CODE	ADDR1	ADDR2	STMT			
	055101 0051	ADDIT	NOOKE	3765 ******	*****	**************************************	**************************************
				3767 ******	*****	****************	<pre>m pointed to by R0 ************************************</pre>
00003DE	4100 06A8		000006A8	3769 DOSENSE		R0,SENSEPGM	R0 -> Read SENSE Channel Program
000003E2	5000 8008		8000000	3770 EXCP	ST	R0,ORBCCW	Plug Channel Program into IORB
00003E6	B904 0004			3771	LGR	R0,R4	Save SCHIB pointer
000003EA	9282 8005		00000005		MVI	ORB1_8,ORBF+ORBH	Format-1 CCWs, Format-2 IDAWs
000003EE	9200 8007		00000007	3773	MVI	ORRB1_24,0	Set all these ORB flags to zero
				3775	RAWIC	4,FAIL=FAILIO	
00003F2	9200 300E		0000000E	3776+		IOCBSC,X'00'	Clear SC information
00003F6	D201 300A 3006	A000000A	00000006		MVC	IOCBST, IOCBZERO	Clear accumulated status
00003FC	5810 3000		00000000		L	1,IOCBDID	Remember the device ID with which I am work
						channel-based input/o	utput operation
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
0000040A	A774 FF6F		000002E8		\$BC	B'0111',FAILIO	Start function failed, report/handle the
0000040E	E340 3020 0004	0000000	00000020		\$L	4,IOCBIRB	Locate the IRB storage area
00000414		00000000		3784+	USING	i IRB,4	Make it addressable
							status via an interruption
00000414	D005 0440 0450	00000440	00000150	3787+IOWT0009		OH Wait for I/O to	
00000414	D20F 0448 01F0	00000448	000001F0	3789+	MVC	IOS0010(16),496(0)	Save Input/Output new PSW
0000041A	D20F 01F0 0438	000001F0	00000438		MVC	496(16,0),ION0010	Establish Input/Ouput new PSW
00000420	B2B2 0428		00000428			WPSW0010	Wait for event
00000428	02020000 00000000			3792+WPSW0010		2,0,2,0,0	Wait for event
00000438	00002000 00000000			3793+ION0010		0,0,0,32,IRST0010,24	I/O New PSW: cc==2
00000448	00000000 00000000			3794+I0S0010		XL16'00'	
00000450						:/output interruption	
00000458	D20F 01F0 0440	00000150	00000440	3796+IRST0010		0H	Postono innut/sutnut nou DCII
00000458	D20F 01F0 0448	OUUUIFU	00000448	3797+	MVC	496(16,0),1050010	Restore input/output new PSW
						interruption	ovnostod subshanral
20000155	5510 00B8		000000B8			erruption is for the	
0000045E 00000462			00000414	3800+ 3801+	CL CL	1,IOSSID IOWT0009	Is this the device for which I am waiting?
00000462	A//4 FFU9		00000414			וטשוטטט nterruption informati.	No, continue waiting for it
00000466	B235 4000		0000000	3802+* ACCUMU	TSCH		Retrive interrupt information
00000466 0000046A	A744 FFD5		00000414	3804+	\$BC	0(4) B'0100',IOWT0009	CC1 (not status pending), wait for it to an
0000046A 0000046E	A744 FF05 A714 FF3D		00000414 000002E8	3805+	\$BC \$BC	B'0001', FAILIO	CC3 (not operational), an error then
000040L	A/ 14 11 JD		000002L0	3806+*	ΨDC	D 0001 , AILIO	CCO (status was pending), accumulate the st
00000472	D600 300E 4003	0000000E	00000003	3807+	OC	TOCRSC TRRSCSM+SCSM2	Accumulate status control
00000472	D601 300A 4008	000000L	00000003	3808+	OC OC		S Accumulate status control S Accumulate device and channel status
00000478 0000047E	9104 300E	CCCCCCA	0000000E		TM	IOCBSC, SCSWSPRI	Primary subchannel status?
00000472	A7E4 FFC9		0000001		\$BNO	IOWT0009	No, wait for primary status
00000482	D203 3010 4004	00000010	00000414	3811+	MVC	IOCBSCCW, IRBSCSW+SCS	
0000048C		00000016	0000004 0000000A		MVC		WCNT Residual count
2222406	5201 3010 400A	0000010	30000A			ors as specified in t	
00000492	910C 300A		000000A		TM	IOCBUS, CSWCE+CSWDE	Channel end and device end both accumulated
00000496			0000000A	3815+	\$BNO		Hunh? No CE and DE but do have primary state
23000750	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		3000210			operation successful	
000049A	B904 0040			3818	LGR	R4,R0	Restore SCHIB pointer
0000049A	07FF			3819	BR	R15	Return to caller
0000043E	0/11			3017	DΙ	IVI	NCCUIII CO CALLEI

ASMA Ver.	0.2.1		GitHub Is	sue #572 Prefi	x CCW	tests	11 Jul 2023 13:15:16 Page 10
LOC	OBJECT CODE	ADDR1	ADDR2	STMT			
				3822 *	Issue	HERCULES MESSAGE poin-	**************************************
000004A0	4900 06A4		000006A4	3825 MSG	СН	R0,=H'0'	Do we even HAVE a message?
000004A4	07DE			3826	BNHR	R14	No, ignore
000004A6	9002 04D8		000004D8	3828	STM	R0,R2,MSGSAVE	Save registers
	4900 06A6 47D0 04B6 4100 0080		000006A6 000004B6 00000080	3830 3831 3832	CH BNH LA	R0,=AL2(L'MSGMSG) MSGOK R0,L'MSGMSG	Message length within limits? Yes, continue
00000462	4100 0080		00000000	3632	LA	•	No, set to maximum
	1820			3834 MSGOK	LR	R2,R0	Copy length to work register
000004B8 000004BA	0620 4420 04E4		000004E4	3835 3836	EX	R2,0 R2,MSGMVC	Minus-1 for execute Copy message to O/P buffer
	4120 200A 4110 04EA		0000000A 000004EA	3838 3839	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	3841 3842 3843	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	3845 MSGRET 3846	LM BR	R0,R2,MSGSAVE R14	Restore registers Return to caller
000004D8 000004E4	00000000 00000000 D200 04F3 1000	000004F3	00000000	3848 MSGSAVE 3849 MSGMVC	DC MVC	3F'0' MSGMSG(0),0(R1)	Registers save area Executed instruction
000004EA 000004F3	D4E2C7D5 D6C8405C 40404040 40404040			3851 MSGCMD 3852 MSGMSG	DC DC	C'MSGNOH * ' CL128' '	*** HERCULES MESSAGE COMMAND *** The message text to be displayed

ASMA Ver.	0.2.1		GitHub Is	sue #572 Prefix	x CCW	tests	11 Jul 2023 13:15:16 Page 12
LOC	OBJECT CODE	E ADDR1	ADDR2	STMT			
LUC	OBJECT CODE	L ADDRI	ADDITZ	STRI			
					*****		**********
				3889 * 3890 ******	*****	WORKING ST 	UKAGE ***********
00000610		00000610 00000610	00000001 00000FFF	3892 WKSTORG 3893	EQU	* E7TEST+X'FFF'	
00000FFF	00	00000010	00000FFF	3894 TESTONLY		AL1(0)	Only do this one test if non-zero
00001000		00001000	00000610	3895	ORG	WKSTORG	
		00000040	00000001	3897 CC	EQU	X'40'	Chain Command
		00000040	00000001			X'20'	Suppress Incorrect Length Indication
		00000004	00000001	3899 IDA	EQU	X'04'	Indirect Data Addressing
		00000004	00000001	3901 SNS	EQU	X'04'	Basic Sense CCW opcode
		00000004	00000001		EQU	X'06'	Read Data CCW opcode
		0000003E	00000001		EQU	X'3E'	Read Subsystem Data CCW opcode
		00000047 00000063	00000001 00000001			X'47' X'63'	Locate Record CCW opcode Define Extent CCW opcode
		00000086	00000001	3906 RDMT	EQU	X'86'	Read Data Multi-track CCW opcode
		000000E7	00000001	3907 PFX	EQU	X'E7'	Prefix CCW opcode
				3909 *			
				3910 **	TESTS	CONTROL TABLE	
				3911 *			
00000610	00000618 00000	0007		3913 ATESTTAB		A(TESTTAB, NUMTESTS	
		00000200	00000001	3914 TESTNUM 3915 *	EQU	X'200'	Current test number
				2312			(identifies failed test)
00000618				3917 TESTTAB	DC	0A(0)	
00000618	00000001 00000	36F0		3918 3919	PRINT DC	DATA A(1,T1_CHPGM,0,T1_I	MSGLN T1 DESC)
00000620	00000000 00000			3313	<i>D</i> C	A(1) 11_ciii dii) 0	1130EN, 11_5ESC)
00000628	000006B0	3750		2020	DC	A/2 T2 CUDCM A T2 I	MCCLN TO DECC
0000062C 00000634	00000002 00000			3920	DC	A(2,T2_CHPGM,0,T2_I	MSGLN, 12_DESC)
0000063C	00000700						
00000640 0000648	00000003 00000			3921	DC	A(3,T3_CHPGM,0,T3_I	MSGLN,T3_DESC)
00000048	00000780	0000					
00000654	00000004 00000			3922	DC	A(4,T4_CHPGM,0,T4_I	MSGLN, T4_DESC)
0000065C 00000664	00000000 00000 000007F8	0056					
00000668	00000005 00000			3923	DC	A(5,T5_CHPGM,1,T5_	MSGLN,T5_DESC) (1=Expect I/O ERROR)
00000670	00000001 00000	006F					
00000678 0000067C	00000878 00000006 00000	9960		3924	DC	A(6,T6_CHPGM,0,T6_	MSGLN.T6 DESC)
00000684	00000000 00000			- -		(1)11_0 0	, ·,
0000068C 00000690	00000908 00000007 00000	29R0		3925	DC	A(7,T7 CHPGM,0,T7	MSGLN T7 DESC)
00000698	00000000 00000			J J Z J	DC	A(/,1/_CIIFON,0,1/_I	risden, i/_besc/
000006A0	00000980			2026	DDT	NODATA	
		0000007	00000001	3926 3927 NUMTESTS		NODATA 7	Number of test table entries
		00000014	00000001		EQU	(*-TESTTAB)/NUMTES	

SMA Ver.	0.2.1		GitHub I	ssue #572 P	refix CCW tests		11 Jul 2023 13:15:16	Page	13
LOC	OBJECT CODE	ADDR1	ADDR2	STMT					
00006A4 00006A4	0000			3930 3931	LTORG , =H'0'	Literals Pool			
0006A6	0080			3932	=AL2(L	'MSGMSG)			

ASMA Ver.	0.2.1		GitHub Is	sue #572 Prefix CCW	tests	11 Jul 2023	13:15:16 Pag	ge 14
LOC	OBJECT CODE	ADDR1	ADDR2	STMT				
				3934 ***********************************	CHANNEL PROGRAMS	**************************************	********	<*
000006A8 000006A8	04200020 000009B8			3938 DC 3939 SENSEPGM DC	0D'0' AL1(SNS),AL1(SLI),A	L2(L'SNSBYTES),AL4(SNSB	YTES)	
				3941 *********	*******	********	******	<*
000006B0	E3C5E2E3 407BF17A	0000003E	00000001	3943 T1_DESC DC 3944 T1_MSGLN EQU	*-T1 DESC	PFX to obtain subsystem	m information	n (no IDA)'
000006F0 000006F0 000006F8	E760004C 000009D8 3E200100 00000A24			3945 DC 3946 T1_CHPGM DC 3947 DC	0D'0 ^T AL1(PFX),AL1(CC+SLI AL1(RSD),AL1(SLI),A),AL2(T1_E7LEN),AL4(T1_ L2(L'T1_3EBUF),AL4(T1_3	E7DAT) EBUF)	
				3949 *********	*******	*********	******	**
00000700 00000758	E3C5E2E3 407BF27A	00000055	00000001	3951 T2_DESC DC 3952 T2_MSGLN EQU 3953 DC	C'TEST #2: Format 0 *-T2_DESC 0D'0'	PFX with Define Extent	Valid bit of	f (DX CCW
00000758 00000760 00000768 00000770	E7600040 00000B24 63600010 00000B64 47600010 00000B74 0624000A 00000778 00000000 00000B84			3954 T2_CHPGM DC 3955 DC 3956 DC 3957 DC 3958 T2_06IDA DC	AL1(PFX),AL1(CC+SLI AL1(DX),AL1(CC+SLI) AL1(LR),AL1(CC+SLI)),AL2(L'T2_E7DAT),AL4(T ,AL2(L'T2_63DAT),AL4(T2 ,AL2(L'T2_47DAT),AL4(T2),AL2(L'T2_06BUF),AL4(T	_63DAT) 47DAT)	
				3330 12_001DA DC	7.5 (12_00501)			
				3960 ********	*******	********	*****	**
00000780	E3C5E2E3 407BF37A			3962 T3 DESC DC		PFX with Define Extent		
000007D8 000007D8	E7600040 00000B8E	00000056	00000001	3963 T3_MSGLN EQU 3964 DC 3965 T3_CHPGM DC	*-T3_DESC 0D'0' AL1(PFX),AL1(CC+SLI),AL2(L'T3_E7DAT),AL4(T	3_E7DAT)	
000007E0 000007E8 000007F0	47600010 00000BCE 0624000A 000007F0 00000000 00000BDE			3966 DC 3967 DC 3968 T3_06IDA DC	AL1(LR),AL1(CC+SLI) AL1(RD),AL1(SLI+IDA AD(T3_06BUF)	,AL2(L'T3_47DAT),AL4(T3),AL2(L'T3_06BUF),AL4(T3	_47DAT) 3_06IDA)	

ASMA Ver.	0.2.1		GitHub Is	sue #572 Prefix CCW	tests	11 Jul 2023	13:15:16 Page	e 15
LOC	OBJECT CODE	ADDR1	ADDR2	STMT				
				3970 *********	*********	*******	*******	*
000007F8 00000850	E3C5E2E3 407BF47A	00000056	00000001	3972 T4_DESC DC 3973 T4_MSGLN EQU 3974 DC	C'TEST #4: Format 2 PF *-T4_DESC 0D'0'	X to obtain control	unit informat	ion (PFX E7
00000850 00000858 00000860	E764004C 00000860 3E240100 00000870 00000000 00001FD8			3975 T4_CHPGM DC 3976 DC 3977 T4_E7IDA DC	AL1(PFX),AL1(CC+SLI+IDA AL1(RSD),AL1(SLI+IDA),A AD(T4_E7DAT_PART1)	A),AL2(L'T4_E7DAT),A AL2(L'T4_3EBUF),AL4(AL4(T4_E7IDA) T4_3EIDA)	
	00000000 00002000 00000000 00000BE8			3978 DC 3979 T4_3EIDA DC	AD(T4_E7DAT_PART2) AD(T4_3EBUF)			
				3981 *********	**********	********	**********	*
00000878 000008E8	E3C5E2E3 407BF57A	0000006F	00000001	3983 T5_DESC DC 3984 T5_MSGLN EQU 3985 DC	C'TEST #5: Read 06 CCW *-T5_DESC 0D'0'	should fail since L	R operation is	s Read(16)
000008E8 000008F0 000008F8	E7600040 00000CE8 47600010 00000D28 0624000A 00000900			3986 T5_CHPGM DC 3987 DC 3988 DC	AL1(PFX),AL1(CC+SLI),ALAL1(LR),AL1(CC+SLI),ALAL1(RD),AL1(SLI+IDA),ALAL1(RD),ALAL1(RD)	2(L'T5_47DAT),AL4(T5	5_47DAT)	
00000900	00000000 00000D38			3989 T5_06IDA DC	AD(T5_06BUF)			
				3991 *********	*********	*******	<*************	*
0000908	E3C5E2E3 407BF67A	00000051	00000001	3993 T6_DESC DC 3994 T6_MSGLN EQU 3995 DC	C'TEST #6: Same as Tes [*] *-T6_DESC 0D'0'	t #5, but properly ι	uses multi-tra	ck Read (86
0000960	E7600040 00000D42			3996 T6_CHPGM DC	AL1(PFX),AL1(CC+SLI),A			
00000968 00000970 00000978	47600010 00000D82 8624000A 00000978 00000000 00000D92			3997 DC 3998 DC 3999 T6_86IDA DC	AL1(LR),AL1(CC+SLI),AL1 AL1(RDMT),AL1(SLI+IDA) AD(T6_86BUF)	,AL2(L'T6_86BUF),AL4	1(T6_86IDA)	
				<u>-</u>	· <u>-</u>			
				4001 ********	********	*******	·**********	*
0000980	E3C5E2E3 407BF77A	0000002F	00000001	4003 T7_DESC DC 4004 T7 MSGLN EQU	C'TEST #7: Peter''s z/\ *-T7 DESC			
00009B0 00009B0	E7200040 00000D9C	3333321		4005 DC 4006 T7_CHPGM DC	0D'0' AL1(PFX),AL1(SLI),AL2(T7_E7LEN),AL4(T7_E7D	DAT)	

ADDR1 ADDR2 STMT	ASMA Ver.	0.2.1	GitHub I	ssue #572 Prefix CCW tests	11 Jul 2023 13:15:16 Page 16
000009B8	LOC	OBJECT CODE	ADDR1 ADDR2	STMT	
000009B8 0000000 00000000 4015 ************************************				4009 * I/O DATA AND I/O BUFF	ERS
000009D8 02000000 00000000		00000000 00000000			SENSE buffer)
00000954 0000000 00000000 4018 DC X'0000000 0000000 00000000' +12 DEF EXT 00000004 00000000 00000000' +28 00000004 00000000 00000000 00000000' +44 LREC EXD 0000001 00000000 00000000' +60 UREC EXD 00000001 00000000 00000000' +60 UREC EXD 00000001 00000000 00000000' +60 UREC EXD 00000000000000000000000000000000000				4015 ********************	********
00000B24 0000000 00000000 4028 T2_E7DAT DC XL64'00' 00000B64 40C00000 00000000 4029 T2_63DAT DC XL16'40C00000 00000000 00000000' 00000B74 06000001 00000000 4030 T2_47DAT DC XL16'06000001 00000000 03000000' 00000B84 00000000 00000000 4031 T2_06BUF DC XL10'00'	000009E4 000009F4 00000A04 00000A14 00000A16	00000000 00000000 00000000 00000000 000000	0000004C 00000001	4018	000000 00000000' +12 DEF EXT 000000 00000000' +28 000000 00000000' +44 LREC EXD +60 .000000 00000000' +62 PSF
00000B64 40C00000 00000000 4029 T2_63DAT DC XL16'40C00000 00000000 00000000 00000000' 00000B74 06000001 000000000 4030 T2_47DAT DC XL16'06000001 00000000 00000000 03000000' 00000B84 00000000 000000000 4031 T2_06BUF DC XL10'00'				4026 ********************	*********
4033 ***********************************	00000B64 00000B74	40C00000 00000000 06000001 00000000		4029 T2_63DAT DC XL16'40C00000 000000000 4030 T2_47DAT DC XL16'06000001 00000000	0000000 00000000' 00000000 03000000'
				4033 ***********************	*********
00000B8E 4035 T3_E7DAT DS 0XL64 00000B8E 00800000 00000000 4036 DC XL16'00800000 0000000 00000000 40C00000' 00000B9E 00000000 00000000 4037 DC XL16'00000000 0000000 00000000 00000000 00000	00000B8E 00000B9E 00000BAE 00000BBE 00000BCE	00000000 00000000 00000000 00000000 000000		4036 DC XL16'00800000 00000000000000000000000000000	00000000 00000000' 00000000 00000000' 00000000

ASMA Ver.	0.2.1		GitHub Is	sue #572 Prefix CCW test	s 11 Jul 2023 13:15:16 Page 17
LOC	OBJECT CODE	ADDR1	ADDR2	STMT	
LUC	OBJECT CODE	ADDIT	ADDITZ	SIMI	
				4044 ************	*************
00000BE8	00000000 00000000			AGAC TA SERVE	DC XL256'00'
000000E0	00000000 00000000			4046 T4_3EBUF 4047	DC XL256'00' PRINT DATA
		00000CE8	00000001	4048 T4_ORG	EQU *
		0000004C		4049 T4_E7DAT_TOTAL_LEN	
		00000028 00000024	00000001 00000001	4050 T4_E7DAT_PART1_LEN 4051 T4 E7DAT PART2 LEN	
00000CE8		00000024 00000CE8	0000001 00001FD8	4052 4052	ORG ETTEST+X'2000'-T4 ETDAT PARTI LEN
00001FD8				4053 T4_E7DAT	DS 0XL(T4_E7DAT_TOTAL_LEN)
00001FD8	02000000 0000000			4054 T4_E7DAT_PART1 4055	DS
00001FD8 00001FE0	02000000 00000000 00000000 00000000			4033	DC VETO 05000000 00000000 00000000 00000000
00001FE8	00000000 00000000			4056	DC XL16'00000000 00000000 00000000 00000000'
00001FF0	00000000 00000000			4057	DC VIOL 0000000 00000001
00001FF8 00002000	00000000 00000000			4057 4058 T4 E7DAT PART2	DC XL8' 00000000 00000000' DS 0XL(T4_E7DAT_PART2_LEN)
00002000	00000000 00000000			4059	DC XL8' 00000000 00000000'
00002008	00000000 00000000			4060	DC XL16'00000000 00000000 00000000 00001800'
00002010 00002018	00000000 00001800 00000000 41000000			4061	DC XL12'00000000 41000000 00000000'
00002018	00000000 41000000			4001	DC XL12 0000000 41000000 00000000
00002024		00002024	00000CE8	4062	ORG T4_ORG
				4063	PRINT NODATA
				4065 ************	*************
00000CE8				4067 T5 E7DAT DS 0XL6	4
00000CE8	00800000 00000000			4068 DC XL1	6'00800000 00000000 00000000 40C00000'
00000CF8 00000D08	00000000 00000000 00000000 00000000				6'00000000 00000000 00000000 00000000' 6'00000000 00000000 00000000 00000000'
00000D08					6'0000000 0000000 0000000 00000000'
	16000001 00000000			4072 T5 47DAT DC XL1	6'16000001 00000000 00000000 03000000'
00000D38	00000000 00000000			4073 T5_06BUF DC XL1	0'00'
				40/5 **********	**************
00000043				4077 TC F7D4T DC 0VLC	4
00000D42 00000D42	00800000 00000000			4077 T6_E7DAT DS	4 6'00800000 00000000 00000000 40C00000'
00000D52				4079 DC XL1	6'00000000 00000000 00000000 00000000'
00000D62					6'0000000 0000000 00000000 00000000'
00000D72	00000000 00000000 16000001 00000000				6'0000000 0000000 00000000 00000000' 6'16000001 00000000 00000000 03000000'
	0000000 00000000			4082 T6_47DAT DC XL1 4083 T6_86BUF DC XL1	0'00'

SMA Ver.	0.2.1		GitHub I	ssue #572 Prefix CC	W tests	11 Jul 20	23 13:15:16 Page	18
LOC	OBJECT CODE	ADDR1	ADDR2	STMT				
				4086 ********	**********	******	******	
	01800000 00000000 40C01000 00000042			4088 T7_E7DAT DC	X'01800000 00000000 000000 X'40C01000 00000042 00020	000' 000 00020000'	+00 PFX +12 DFF FXT	
000DB8	0000000 0000000 0600001 0002000			4090 DC	X'0000000 0000000 000000 X'0600001 0002000 00020	000 00000000'	+28	
	00000000		00000001	4092 DC 4093 T7_E7LEN EQU	X'00000000'	000 01230000	+60	
		333333.5	3333333	.033 17_272211 240	.,,,,,,			

ASMA Ver.	0.2.1		GitHub Is	sue #572 Prefi	x CCW 1	tests	5			11 Jul 2023 13:15:16 Page 19
LOC	OBJECT CODE	ADDR1	ADDR2	STMT						
				4095 ******	*****	****	****	***	**:	*********
				4096 *	IOCB [DSECT	Γ			
				4097 ******	*****	****	****	***	**:	**********
				4099	DSECTS	S NAM	1E=I0	СВ		
				4101+IOCB	DSECT					
										Description (R->program read-only, X->program read/wri
00000000				4103+IOCBDID	DS	0F			R	Device Identifier - Subsystem ID for channel subsyste
00000000	0000			4104+	DS			R		reserved - must be zeros
00000002	0000			4105+IOCBDV	DS		+2		.,	Channel Unit Device address of I/O operation
00000004	0000			4106+IOCBDEV		Н	+4	X	X	
0000006	0000			4107+IOCBZERO				R		Must be zeros
80000008	00			4108+IOCBUM	DS			X		Unit status test mask
00000009 0000000A	00			4109+IOCBCM 4110+IOCBST	DS DS			X		
0000000A	00			4111+IOCBUS						Input/Output unit and channel status accumulation Accumulated unit status
0000000A	00			4111+10CBCS 4112+I0CBCS	DS		+11			Accumulated channel status
3000000C	00			4113+IOCBUT	DS		+14			Used to test unit status
00000000 0000000D	00			4114+IOCBCT	DS		+13			Used to test channel status
0000000E	00			4115+IOCBSC	DS		+14		R	Accumulted subchanel status control
000000F	00			4116+IOCBWAIT			+15			Recognized unsolicited interruption unit status even
00000010	00000000			4117+IOCBSCCW						I/O status CCW address
00000014				4118+IOCBSCNT	DS	0F	+20	R	R	I/O status residual count as a positive full word
00000014	0000			4119+	DS	Н	+20	R		reserved must be zeros
00000016	0000			4120+IOCBRCNT	DS		+22			I/O status residual count as an unsigned halfword
00000018				4121+IOCBCAW	DS		+24			Channel Address word
00000018	00000000 00000000			4122+IOCBORB	DS		+24			Address of the ORB for channel subsystem I/O
00000020	00000000 00000000			4123+IOCBIRB	DS		+32			Channel subsystem IRB address
00000028	00000000 00000000			4124+IOCBSIB	DS	AD_	_			Channel subsystem SCHIB address
		00000030	00000001	4125+IOCBL	EQU	*-IC)CB	Len	gtl	h of IOCB control block (48) without embedded structur

SMA Ver.	0.2.1		GitHub Is	sue #572 Prefi	x CCW	tests		11 Jul 2023 13:15:16 Page 20
LOC	OBJECT CODE	ADDR1	ADDR2	STMT				
				4127 ******* 4128 * 4129 ******	***** ORB D ****	SECT		*******
				4131	DSECT	S NAME=OR	R	
0000000	00000000			4133+ORB 4134+ORBPARM	DSECT DC	F'0'	Word 0, bits 0-31	
0000004	00	000000F0 00000008	00000001 00000001	4136+ORB1_0 4137+ORBKEYM 4138+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	4139+ORBC 4140+ORBM 4141+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	4143+ORB1_8 4144+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	4147+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	4148+ORBU 4149+ORBB 4150+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 corChannel-Program-Type ControlFormat 2-IDAW Control
0000006 0000007	00 00	00000001	00000001	4151+ORBT 4152+ORBLPM 4153+ORRB1 24	EQU DC	X'01' X'00' X'00'	Word 1, bit 15	- 2K-IDAW control - Logical Path Mask
		00000080 0000007F 00000040	00000001 00000001 00000001	4154+ORBL 4155+ORBRSV3 4156+ORBD	EQU EQU EQU	X'80' X'7F' X'40'	Word 1, bit 24	Incorrect Length Suppression Modereserved must be zerosMIDAW Addressing Control
		0000003E 0000007E 00000001	00000001 00000001 00000001	4157+ORBRSV26 4158+ORBRSV25 4159+ORBX	EQU	X'3E' X'7E' X'01'	Word 1, bits 26-30	reserved must be zerosreserved must be zerosORB-extension control
000008	00000000	00000080	00000001	4161+ORBCCW 4162+ORBRSV4		A(0) X'80'	Word 2, bit 0	- Channel Program Address - reserved must be zero
00000C	99	0000000C	00000001	4163+ORBLEN 4164+* Extend 4165+ORBCSS	EQU ed ORB DC		ngth of standard ORE	- Channel Subsystem Priority
000000C 000000D 000000E	00			4165+ORBRSV5 4167+ORBPGM 4168+ORBCU		X'00' 0X'00' X'00'	Word 3, bits 8-15 Word 3, bits 16-23	 reserved must be zeros Transport mode reserves for program Control Unit Priority
00000F	00 00000000 00000000			4169+ORBRSV6 4170+ORBRSV7	DC	X'00'		- reserved must be zeros - reserved must be zeros

SMA Ver.	0.2.1			GitHub Is	sue #572 Prefi	x CCW	tests		11	Jul 2023 1	3:15:16 F	age	21
LOC	ОВЈЕСТ	CODE	ADDR1	ADDR2	STMT								
					4174 ******	*****	******	******	*******	******	*******	***	
					4175 * 4176 ******	IRB DS	SECT ******	******	*******	******	*******	***	
					4178		S NAME=IR						
					4180+IRB	DSECT	Interrup	tion	Response E	lock			
	00000000				4181+IRBSCSW 4182+IRBESW	DC DC	XL12'00' XL20'00'	Words 0-2 - Words 3-7 -	Subchannel Extended St	Status Word	(Defined	by DSEC	T S(
	00000000		00000040	0000001	4183+IRBECW	DC	XL32'00'	Words 8-15	- Extended (Control Word			
0000040	00000000	00000000	00000040	00000001	4184+IRBL 4185+IRBEMW		*-IRB XL32'00'	IRB Length Words 16-23	- Extended	Measurement	Word		
			00000060	00000001	4186+IRBXL		*-IRB	Extended IR					

SMA Ver.	0.2.1		GitHub Is	sue #572 Prefi	x CCW	tests	11 Jul 2023 13:15:16 Page 22
LOC	OBJECT CODE	ADDR1	ADDR2	STMT			
				4190 *	SCHIB	DSECT	**************************************
				4193 4195+SCHIB 4196+* Fields	DSECT	S NAME=SCHI Subchannel	
				4197+SCHPMCW 4198+PMCWIP	DC DC	0XL28'00' F'0' RW	Words 0-6 - Path-Management-Control Word Word 0, bits 0-31 - Interruption Parameter
000004	00	00000038	00000001	4199+PMCW1_0 4200+PMCWISCM		X'00' X'38' RW	Word 1, bits 0-7 Interruption Subclass Code Mask
000005	00	00000080 00000060	00000001	4202+PMCW1_8 4203+PMCWE 4204+PMCWLM	DC EQU EQU		Word 1, bits 8-15 Word 1, bit 8 - Subchannel Enabled Word 1, bits 9,10 - Limit-Mode Mask
		00000000 00000020 00000040	00000001	4205+PMCWLMG 4206+PMCWLML	EQU	X'20' RW	Word 1, bit 9 - Address must be GE to limit Word 1, bit 10 - Address must be less than the limit
		00000018 00000010 00000008	00000001	4207+PMCWMM 4208+PMCWMME 4209+PMCWMMC		X'10' RW	Word 1, bits 11,12 - Measurement Mode Mask Word 1, bit 11 - Measurement Block Update Enabled Word 1, bit 12 - Device Connect Time Measurement Enable
		00000004 000000002 00000001	00000001	4210+PMCWM 4211+PMCWT	EQU EQU EQU	X'04' RW X'02' IN	Word 1, bit 13 - Multipath Mode Enabled Word 1, bit 14 - Timing facility availability Word 1, bit 15 - Device number valid
00006	0000			4214+PMCWDNUM	DC	H'0' IN	Word 1, bits 16-31 - Device Number
000008 000009 00000A	00			4216+PMCWLPM 4217+PMCWPNOM 4218+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	0000			4219+PMCWPIM 4220+PMCWMBI 4221+PMCWPOM	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			4222+PMCWPAM 4223+PMCWCHP0 4224+PMCWCHP1	DC	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	00			4225+PMCWCHP2 4226+PMCWCHP3 4227+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
000015 000016 000017	00			4228+PMCWCHP5 4229+PMCWCHP6 4230+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
000018 000018 00001B				4231+PMCWRES1 4232+PMCWRES2 4233+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	00000001 00000001 00000001	4234+PMCWB 4235+PMCWX	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			4238+SCHSCSW 4239+SCHMDA3	DC	XL12'00' 0XL12'00'	
000028 000030	00000000 00000000 00000000	00000034	00000001	4240+SCHMBA 4241+SCHMDA1 4242+SCHIBL	DC DC EQU	XL4'00'	Words 10,11 - Measurement Block Address Word 12 - Model Dependent Area on z systems ngth of SCHIB

ADDR1	SMA Ver.	0.2.1	GitHub I	ssue #572 Prefix C	CW tests	11 Jul 2023 13:15:16 Page	23
4246 SCSW DSECT	LOC	OBJECT CODE	ADDR1 ADDR2	STMT			
				4245 ********	*****	************	
				4246 * SC	SW DSECT		
				4247 ********	*****	**************	
				4249 DS	ECTS NAME=SC	SW	
00000000							
00000000	0000000	00					
00000001							
00000001							
00000000							
00000001 00000001 00000001 4259+5CSMDCC1 EQU X'01' Deferred condition code is 1 00000001 00000001 0259+5CSMDCC3 EQU X'02' Deferred condition code is 3 00000001 000000001 0259+5CSMDCC3 EQU X'80' CW Format control when 000000001 000000001 4263+5CSMCMP EQU X'80' CW Format control when 000000001 00000001 4263+5CSMCMP EQU X'20' Initial-Status-Interruption Control 000000001 00000001 4265+5CSMSCMP EQU X'20' Initial-Status-Interruption Control 000000001 00000001 4266+5CSMSIC EQU X'20' Initial-Status-Interruption Control 000000001 00000001 4266+5CSMSIC EQU X'20' Address-Limit-checking Control 000000001 00000001 4266+5CSMSIC EQU X'20' Suppress suspended interruption 000000001 00000001 4266+5CSMSIC EQU X'20' Extended Control Word control 000000001 4266+5CSMSIC EQU X'20' Extended Control Word control 000000001 4266+5CSMSIC EQU X'20' Path Not Operational 000000001 4273+5CSMFM EQU X'20' Function Control Mask 000000000 00000001 4273+5CSMFM EQU X'20' Function Control - Start Function 000000001 4273+5CSMFM EQU X'20' Function Control - Halt Function 000000001 4274+5CSMFM EQU X'20' Function Control - Halt Function 000000001 4274+5CSMFM EQU X'20' Function Control - Start pending 000000001 4278+5CSMAPP EQU X'20' Activity Control - Start pending 000000001 4278+5CSMAPP EQU X'20' Activity Control - Start pending 000000001 4278+5CSMAPP EQU X'20' Activity Control - Subchannel Active 000000001 4288+5CSMSINT EQU X'20' Status Control - Alert Status 000000001 4288+5CSMSINT EQU X'20' Status Control - Status Pending 000000001 4288+5CSMSINT EQU X'20' Status Control - Status Pending 000000001 4288+5CSMSINT EQU X'20' Status Control - Status Pending 000000001 4288+5CSMSINT EQU X'20' Status Control - Status Pending 000000001 4288+5CSMSINT EQU X'20' Status Control - Status Pend							
						Deferred condition code is 1	
00000080			00000003 00000001	4259+SCSWDCC3 EQ	U X'03'	Deferred condition code is 3	
00000080	0000001	00		4261+SCSWCTIS DC	x'00'	General Controls	
0000004		- 	00000080 00000001				
0000001			00000040 00000001	4263+SCSWCCWP EQ	U X'40'	CCW Prefetch Control	
00000008							
00000001 4267+SCSWECKC EQU X'04' Zero-Condition Code 00000001 4268+SCSWECKC EQU X'02' Extended Control Word control 00000001 4269+SCSWENNOP EQU X'02' Extended Control Word control 00000001 4269+SCSWENNOP EQU X'01' Path Not operational							
00000002 00000001 4268+SCSWECWC EQU X'01' Path Not Operational							
00000001 00000001 4269+SCSWPNOP EQU X'01' Path Not Operational							
00000070							
00000070				4074 606114 80	. VIOOI		
00000040	0000002	00	00000070 0000001			Control Byte 1	
0000001							
00000010 00000001 4275+SCSWFC EQU X'10' Function Control - Clear Function 00000008 00000001 4275+SCSWASP EQU X'08' Activity Control - Resume pending 00000000 4277+SCSWASP EQU X'04' Activity Control - Start pending 00000000 4277+SCSWASP EQU X'02' Activity Control - Halt pending 00000001 4278+SCSWAHP EQU X'02' Activity Control - Halt pending 00000001 4278+SCSWACP EQU X'01' Activity Control - Clear pending 4280+SCSW2 DC X'00' Control Byte 2 O0000000 4281+SCSWASA EQU X'80' Activity Control - Subchannel Active 00000000 4282+SCSWASA EQU X'40' Activity Control - Device Active O0000000 00000001 4282+SCSWASD EQU X'40' Activity Control - Suspended O0000010 00000001 4283+SCSWASD EQU X'10' Status Control - Alert Status O0000000 00000001 4285+SCSWSINT EQU X'08' Status Control - Primary Status O0000000 00000001 4288+SCSWSPRI EQU X'02' Status Control - Primary Status O0000000 00000001 4288+SCSWSPEN EQU X'01' Status Control - Status Status Ontrol - Ontrol Ontrol - Ontrol							
00000004 00000001 4277+SCSWASP EQU X'04' Activity Control - Start pending 00000002 00000001 4278+SCSWAHP EQU X'02' Activity Control - Halt pending 00000003 00000001 00000001 4279+SCSWACP EQU X'01' Activity Control - Clear pending 4280+SCSW2 DC X'00' Control Byte 2 00000080 00000001 4281+SCSWASA EQU X'80' Activity Control - Subchannel Active 0000040 00000001 4282+SCSWADA EQU X'40' Activity Control - Device Active 00000020 00000001 4283+SCSWASDS EQU X'10' Status Control - Alert Status 00000001 4284+SCSWASS EQU X'10' Status Control - Alert Status 00000004 00000001 4285+SCSWSINT EQU X'08' Status Control - Primary Status 00000004 00000001 4286+SCSWSPRI EQU X'04' Status Control - Secondary Status 00000001 00000001 4287+SCSWSEC EQU X'04' Status Control - Status Pending Status Pending 00000004 00000001 4288+SCSWCW DC A(0) CCW Address Ad							
00000001 0000001 4278+SCSWAHP EQU X'02' Activity Control - Halt pending 4279+SCSWACP EQU X'01' Activity Control - Clear pending 4280+SCSW2 DC X'00' Control Byte 2 00000000 4281+SCSWASA EQU X'80' Activity Control - Subchannel Active 00000000 00000001 4281+SCSWASA EQU X'80' Activity Control - Device Active 00000020 00000001 4283+SCSWASUS EQU X'20' Activity Control - Suspended 00000010 00000001 4284+SCSWASS EQU X'10' Status Control - Alert Status 00000000 4284+SCSWSINT EQU X'08' Status Control - Intermediate Status 00000000 00000001 4285+SCSWSINT EQU X'04' Status Control - Primary Status 00000000 00000001 4287+SCSWSSEC EQU X'02' Status Control - Secondary Status 00000000 00000001 4288+SCSWSPEN EQU X'01' Status Control - Status Pending 00000000 000000000 4288+SCSWSPEN EQU X'01' Status Control - Status Pending 00000000 00000000 00000000 000000							
0000001 0000001 4279+SCSWACP EQU X'01' Activity Control - Clear pending 4280+SCSW2 DC X'00' Control Byte 2 00000080 0000001 4281+SCSWASA EQU X'80' Activity Control - Subchannel Active 0000040 0000001 4282+SCSWADA EQU X'40' Activity Control - Device Active 0000020 00000001 4283+SCSWASUS EQU X'20' Activity Control - Suspended 0000001 00000001 4284+SCSWSAS EQU X'10' Status Control - Alert Status 0000008 00000001 4285+SCSWSINT EQU X'08' Status Control - Intermediate Status 00000004 00000001 4286+SCSWSPRI EQU X'04' Status Control - Primary Status 00000001 00000001 4287+SCSWSSEC EQU X'02' Status Control - Secondary Status 00000001 00000001 4288+SCSWSPEN EQU X'01' Status Control - Status Pending 00000000 0000000000000000000000000000							
					U X'02'		
00000080 00000001 4281+SCSWASA EQU X'80' Activity Control - Subchannel Active 00000040 00000001 4282+SCSWADA EQU X'40' Activity Control - Device Active 00000020 00000001 4283+SCSWASUS EQU X'20' Activity Control - Suspended 00000010 00000001 4284+SCSWSAS EQU X'10' Status Control - Alert Status 00000008 00000001 4285+SCSWSINT EQU X'08' Status Control - Intermediate Status 00000004 00000001 4286+SCSWSPRI EQU X'04' Status Control - Primary Status 00000002 00000001 4287+SCSWSSEC EQU X'02' Status Control - Secondary Status 00000001 00000001 4288+SCSWSPEN EQU X'01' Status Control - Status Pending 00000004 00000000 4290+SCSWCCW DC A(0) CCW Address Addr	0000003	99	0000001 0000001				
00000040 00000001 4282+SCSWADA EQU X'40' Activity Control - Device Active 00000020 00000001 4283+SCSWASUS EQU X'20' Activity Control - Suspended 00000010 00000001 4284+SCSWSAS EQU X'10' Status Control - Alert Status 00000008 00000001 4285+SCSWSINT EQU X'08' Status Control - Intermediate Status 00000004 00000001 4286+SCSWSPRI EQU X'04' Status Control - Primary Status 00000002 00000001 4287+SCSWSSEC EQU X'02' Status Control - Secondary Status 00000001 00000001 4288+SCSWSPEN EQU X'01' Status Control - Status Pending 00000004 00000000 00000001 4290+SCSWCCW DC A(0) CCW Address 00000008 00000000 00000008 00000000	0000003	00	00000080 00000001				
00000020							
00000008 00000001 4285+SCSWSINT EQU X'08' Status Control - Intermediate Status 00000004 00000001 4286+SCSWSPRI EQU X'04' Status Control - Primary Status 00000002 00000001 4287+SCSWSSEC EQU X'02' Status Control - Secondary Status 00000001 00000001 4288+SCSWSPEN EQU X'01' Status Control - Status Pending 00000004 00000000 4290+SCSWCCW DC A(0) CCW Address 4292+SCSWUS DC X'00' Unit Status				4283+SCSWASUS EQ	U X'20'	Activity Control - Suspended	
0000004 0000001 4286+SCSWSPRI EQU X'04' Status Control - Primary Status 00000002 00000001 4287+SCSWSSEC EQU X'02' Status Control - Secondary Status 00000001 00000001 4288+SCSWSPEN EQU X'01' Status Control - Status Pending 00000004 00000000					•		
00000002 00000001 4287+SCSWSSEC EQU X'02' Status Control - Secondary Status 00000001 00000001 4288+SCSWSPEN EQU X'01' Status Control - Status Pending 00000004 000000000					•		
00000001 00000001 4288+SCSWSPEN EQU X'01' Status Control - Status Pénding 00000004 00000000						•	
. `							
. `	0000004	00000000		1300+CCC//CC// DC	A(A)	CCW Address	
	0000004	00000000		+290T3C3WCCW DC	A(U)	CCW AUUI ESS	
ααραρανά αραραρανί που το συμπική ΕΝΙΙ Υ'Ορ' Λ++ορ+ίορ	8000000	00	0000000				
			00000080 00000001			Attention	
00000040 00000001 4294+SCSWSM EQU X'40' Status modifier 00000020 00000001 4295+SCSWCUE EQU X'20' Control-unit end							
00000020 00000001 4295+SCSWCUE EQU X'20' Control-unit end 00000010 00000001 4296+SCSWBUSY EQU X'10' Busy				-			
00000010 00000001 4290+3C3WD031 EQU X 10 Bd3y 00000008 00000001 4297+SCSWCE EQU X'08' Channel end							
00000004 00000001 4298+SCSWDE EQU X'04' Device end							
00000002 00000001 4299+SCSWUC EQU X'02' Unit check							
00000001 00000001 4300+SCSWUX EQU X'01' Unit exception			00000001 00000001	4300+SCSWUX EQ	U X'01'	Unit exception	

AC114 11	0 0 1		C'111 -	#F70 5 C.	0.00		44 7 7 2000 45 47 44 7
ASMA Ver.	0.2.1		GitHub Is	sue #572 Prefi	x CCW	tests	11 Jul 2023 13:15:16 Page 24
LOC	OBJECT CODE	ADDR1	ADDR2	STMT			
00000009	00	00000008 00000004 00000002	00000001 00000001 00000001 00000001 000000	4302+SCSWCS 4303+SCSWPCI 4304+SCSWIL 4305+SCSWPRGM 4306+SCSWPROT 4307+SCSWCDAT 4308+SCSWCCTL 4309+SCSWICTL 4310+SCSWCHNG	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
0000000A	0000			4312+SCSWCNT	DC	H'0'	Residual CCW count
		0000000C	00000001	4313+SCSWL		*-SCSW	

ASMA Ver.	0.2.1		GitHub Is	sue #572 Pre	efix CCW	tests	11 Jul 2023 13:15:16 Page	25
LOC	OBJECT CODE	ADDR1	ADDR2	STMT				
				4316 ****** 4317 * 4318 *****	******** othe *****	********************** r DSECTS needed by SAT ************	**************************************	
				4320	DSECT	S PRINT=OFF, NAME=(ASA,	CCW0,CCW1,CSW)	
				4546	PRINT	ON		
							************* *******	
				4330				
			00000001		EQU	0		
		00000002		4554 R2	EQU EQU	1 2		
		00000003 00000004	00000001	4556 R4	EQU EQU	3 4		
		00000005 00000006			EQU EQU	5 6		
		00000007 00000008	00000001	4559 R7	EQU EQU	7 8		
			00000001	4561 R9	EQU EQU	9 10		
		0000000A 0000000B 0000000C	00000001	4563 R11	EQU	11 12		
		000000D	00000001	4565 R13	EQU EQU	13		
		0000000E 0000000F			EQU EQU	14 15		
				4569	END			

ASMA Ver. 0.2.1	TVDF	\/A!!! =					Prefix	CCW T	ests					II JUL	2023 13:15:	10	rage	26
SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFER	ENCES												
SA	4	000000	512	4324	3574													
SBEGIN	U	000000	1	4325	4330	4372	4408	4417	4435	4442	4448	4452	4456	4462	4479			
SEND	U	000200	1	4478	4479													
SLENGTH	U	000200	1	4479														
ATESTTAB	Α	000610	4	3913	3618													
BAD66PSW	D	000328	8	3707	3682													
BAD77PSW	D	000338	8	3708	3684													
BAD88PSW	D	000348	8	3709	3686													
BAD99PSW	D	000358	8	3710	3688													
BCEXTCOD	Н	00001A	2	4342														
BCIOCOD	Н	00003A	2	4350														
BCMCKCOD	Н	000032	2	4348														
BCPGMCOD	Н	00002A	2	4346														
BCSVCCOD	Н	000022	2	4344														
BEGIN	U	000200	1	3581	3551													
BEGIN0	I	000246	4	3616	3604													
CAW	F	000048	4	4354														
CAWADDR	R	000049	3	4357														
CAWKEY	X	000048	1	4355														
CAWSUSP	Û	000008	$\bar{1}$	4356														
CC	Ü	000040	1	3897	3946	3954	3955	3956	3965	3966	3975	3986	3987	3996	3997			
CCW0	4	000000	8	4483	4489	3331	3333	3330	3303	3300	3373	3300	3307	3330				
CCW0ADDR	R	000001	3	4485	4402													
CCWOCNT	Н	000001	2	4488														
CCWOCNT	X	000000	1	4484														
CCW0FLGS	X	000004	1	4486														
CCW0L	Û	000004	1	4489														
CCW0L CCW1	4	000000	8	4501	4506													
CCW1 CCW1ADDR		000004	4	4505	4500													
CCW1ADDR CCW1CNT	A	000004	2															
	H		1	4504														
CCW1CODE	X	000000 000001	_	4502														
CCW1FLGS	X		1	4503														
CCW1L	U	000008		4506														
CCWCC	U	000040	1	4493														
CCWCD	U	000080	1	4492														
CCWIDA	U	000004	1	4497														
CCWPCI	U	000008	1	4496														
CCWSKIP	U	000010	1	4495														
CCWSLI	U	000020	1	4494														
CCWSUSP	U	000002	1	4498														
CHANID	F	0000A8	4	4409														
CHKZARCH	I	000228	4	3600	3592													
CODE	2	000000	8228	3526														
CPUID	U	00031B	1	4481														
CSW	F	000040	8	4353														
SWATTN	U	000080	1	4523														
SWBUSY	U	000010	1	4526														
SWCCTL	U	000004	1	4538														
CSWCCW	R	000001	3	4520														
SWCDAT	U	000008	1	4537														
SWCE	Ü	000008	1	4527	3814													
SWCHNG	Ü	000001	1	4540														
CSWCNT	H	000006	2	4542														
CSWCS	X	000005	1	4532														
CSWCUE	Û	000020	ī	4525														
SWDCC0	Ü	000000	1															

ASMA Ver. 0.2.1				GitHub	Issue	#572	Prefix	CCW t	ests				-	11 Jul 20	23 13:15	:16	Page	27
SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFER	ENCES												
SWDCC1	U	000001	1	4517														
SWDCC3	Ū	000003	1	4518														
SWDCCM	Ü	000003	1	4515														
SWDE	Ü	000004	$\bar{1}$	4528	3814													
SWFLAG	X	000000	1	4510	301.													
SWFMT	4	000000	8	4509	4543													
SWFMTL	Ū	000008	1	4543	7777													
SWICTL	Ü	000000	1	4539														
CSWIL	Ü	000002	1	4534														
CSWKEYM	Ü	000040 0000F0	1	4511														
CSWLOG	U	000004	1	4514														
SWPCI		000004	1	4514														
	U		-															
CSWPRGM	U	000020	1	4535														
CSWPROT	U	000010	1	4536														
SSWSM	U	000040	1	4524														
CSWSUSP	U	000008	1	4513														
CSWUC	U	000002	1	4529														
CSWUS	X	000004	1	4522														
CSWUX	U	000001	1	4530	_													
DOSENSE	I	0003DE	4	3769	3669													
DOTEST	I	00027C	4	3640	3629													
ΟX	U	000063	1	3905	3955													
E7TEST	J	000000	8228	3526	3529	3536	3549	3553	3580	3893	4052	3573						
ENADEV	I	00038A	4	3738	3719													
ENAOKAY	I	0003DC	2	3763	3752													
ERRTEST	I	0002B8	4	3667	3661													
EXCP	I	0003E2	4	3770	3645													
EXTCPUAD	Н	000084	2	4374														
EXTICODE	Н	000086	2	4375														
EXTIPARM	F	000080	4	4373														
EXTNPSW	F	000058	8	4363														
EXTOPSW	F	000018	8	4335	4341													
FAIL	Ť	0002F8	6		3683	3685	3687	3689	3691									
FAILCPU0	Ī	0002D0	4	3682	3593	3594	3602	3610	3031									
FAILDEV	Ť	0002E0	4	3686	3743	3753	3758	3020										
FAILIO	Ť	0002E8	4	3688	3782	3805	3815											
FAILPSW	Ď	000318	8	3701	3690	3003	3013											
FAILSCH	T	000318 0002D8	4	3684	3651													
FAILTEST	T	0002D8	4	3690	3658	3664	3668											
FIND0008	Λ	0002F0	4	3760	3738	5004	5000											
FINL0008	A L	000304	4	3760 3741	3757													
	Π		<u> </u>															
FINM0008	A	0003D8	4	3761	3756	2747												
FINN0008	H	0003C2	2	3754	3745	3747												
GOODPSW	D	000308	8	3700	3634	2067	2075	2076	2000	2000								
IDA	Ū	000004	1	3899	3957	3967	3975	39/6	3988	3998								
IIRB0011	F	0005A4	4	3878	3876	3877												
IMAGE	1	000000	8228	0	2646													
INIT	I	000368	4	3716	3616													
IOCB	4	000000	48	4101	4125	3575												
IOCBCAW	Α	000018	4	4121														
OCBCM	Χ	000009	1	4109														
OCBCS	Χ	00000B	1	4112														
IOCBCT	Χ	00000D	1	4114														
IOCBDEV	Н	000004	2	4106	3746													
IOCBDID	F	000000	4	4103		3749	3778											
OCBDV	Н	000002	2	4105														

SMA Ver. 0.2.1							Prefix	CCW to	ests		11 Jul 20	23 13:15:16	5 Page	28
SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFER	ENCES								
OCBIRB	Α	000020	8	4123	3783									
OCBL	U	000030	1	4125										
OCBORB	Α	000018	8	4122	3717	3780								
OCBRCNT	Н	000016	2	4120	3812									
OCBSC	Χ	00000E	1	4115	3776	3807	3809							
OCBSCCW	Α	000010	4	4117	3811									
OCBSCNT	F	000014	4	4118										
OCBSIB	Α	000028	8	4124	3648	3739								
OCBST	Н	A0000	2	4110	3777	3808								
OCBUM	Χ	80000	1	4108										
OCBUS	X	A0000A	1	4111	3814									
OCBUT	Χ	00000C	1	4113										
OCBWAIT	Χ	00000F	1	4116										
OCBZERO	H	000006	2	4107	3777									
OCB A80	A	000574	4	3864	3716									
OELADDR	F	0000AC	4	4410	0									
OICODE	H	0000AC	2	4415										
OIID	F	0000C0	4	4420										
OINIT	T	00037C	4	3727	3718									
OIPARM	F	00007C	4	4419	3710									
OMK0007	F	000384	4	3729	3727	3728								
ON0010	3	000384	16	3723	3790	3720								
ONPSW	5	000438	8	4367	3730									
OOPSW	F	000078	8	4339	4349									
ORB0011	Г У	000604	12	3880	3875									
	X			3794	3675 3789	2707								
0S0010	X	000448	16			3797								
OSSID	F	0000B8	4	4418	3800	2004	2010							
OWT0009	H	000414	2	3787	3801	3804	3810							
PLCCW1	F	000008	8	4327										
PLCCW2	F -	000010	8	4328										
PLPSW	F	000000	8	4326	4404	4406	2704							
RB	4	000000	96	4180	4184	4186	3784							
RBECW	X	000020	32	4183										
RBEMW	X	000040	32	4185										
RBESW	Χ	00000C	20	4182										
RBL	U	000040	1	4184										
RBSCSW	Χ	000000	12	4181	3807	3808	3811	3812						
RBXL	U	000060	1	4186										
RST0010	Н	000458	2	3796	3793									
CHANLOG	F	0000B0	4	4411										
.R	U	000047	1	3904	3956	3966	3987	3997						
ICKLOG	F	000100	4	4443										
ICKNPSW	F	000070	8	4366										
ICKOPSW	F	000030	8	4338	4347									
IEASUREB	Χ	0000B9	1	4414										
IKARCHMD	Χ	0000A3	1	4402										
IKARS	F	000120	4	4441										
IKCLKCMP	F	0000E0	8	4427										
IKCPUTIM	F	0000D8	8	4426										
IKCRS	F	0001C0	4	4446										
IKDMGCOD	F	0001C0	4	4430										
KFAILA	F	0000F8	4	4432										
IKFPRS	D	000160	8	4444										
IKICODE	<u> </u>	000100 0000E8	4	4428										
IKLOGOUT	[[000100	4	4428										
		(1414) (1414)	4	4424										

ASMA Ver. 0.2.1				GitHub	Issue	#572	Prefix	CCW t	ests			11 Jul	2023 1	.3:15:16	Page	29
SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFER	ENCES										
MKXSAA	F	0000D4	4	4425												
MONCLS	Н	000094	2	4390												
MONCODE	F	00009C	4	4397												
MONNUMBR	X	000095	1	4392												
MPGACCID	X	0000A2	1	4400	2626											
MSG	Ţ	0004A0	4	3825	3626	2020										
MSGCMD	C	0004EA	9	3851	3838	3839	2020									
MSGMSG	C	0004F3	128	3852	3832	3849	3830									
MSGMVC	<u> </u>	0004E4	6	3849 3834	3836											
MSGOK MSGRET	<u> </u>	0004B6 0004D0	2	3845	3831 3842											
MSGSAVE	F	0004D0	4	3848	3828	3845										
NKGRS		000408	=	4445	3020	3043										
NUMTESTS	Ū	000180	4 1	3927	3928	3913										
ORB	4	000007	32	4133	4163	4171	3578									
ORB1 0	X	000004	1	4136	4103	41/I	JJ/0									
ORB1_0 ORB1_8	X	000004	1	4143	3772											
ORBA	Û	000010	1	4143	J / / Z											
ORBB	Ü	000010	1	4149												
ORBC	Ü	000004	1	4139												
ORBCCW	A	000004	4	4161	3770											
ORBCSS	X	00000C	1	4165	27,0											
ORBCU	X	00000E	$\bar{1}$	4168												
ORBD	Û	000040	1	4156												
ORBF	Ü	000080	_ 1	4144	3772											
ORBH	Ū	000002	1	4150	3772											
ORBI	U	000020	1	4146												
ORBKEYM	U	0000F0	1	4137												
ORBL	U	000080	1	4154												
ORBLEN	U	00000C	1	4163												
ORBLPM	Χ	000006	1	4152												
ORBM	U	000002	1	4140												
ORBP	U	000040	1													
ORBPARM	F	000000	4	4134												
ORBPGM	Χ	00000E	1	4167												
ORBRSV25	U	00007E	1	4158												
ORBRSV26	U	00003E	1	4157												
ORBRSV3	U	00007F	1	4155												
ORBRSV4	U	080000	1	4162												
ORBRSV5	X	00000D	1	4166												
ORBRSV6	X	00000F	1	4169												
ORBRSV7	X	000010	16	4170												
ORBS	U	000008	1	4138												
ORBT	U	000001	1	4151												
ORBU	U	000008	1	4148												
ORBX ORBXLEN	U U	000001 000020	1	4159 4171												
ORBY	U	000001	1	4171 4141												
DRRB1_24	X	000007	1	4141	3773											
PCFETO	Ā	000007 0000C4	4	4421	5115											
PERACCID	X	0000C4	1	4399												
PERACCID	F	0000A1	4	4399												
PERCODE	X	000096	1	4393												
PERCODE	Û	0000F0	1	4394												
PFX	Ü	0000F0	1	3907	3946	395/	3965	3975	3986	3996	4006					
		OUGUL/		4398	J J + U	J J J 4			5500		- 000					

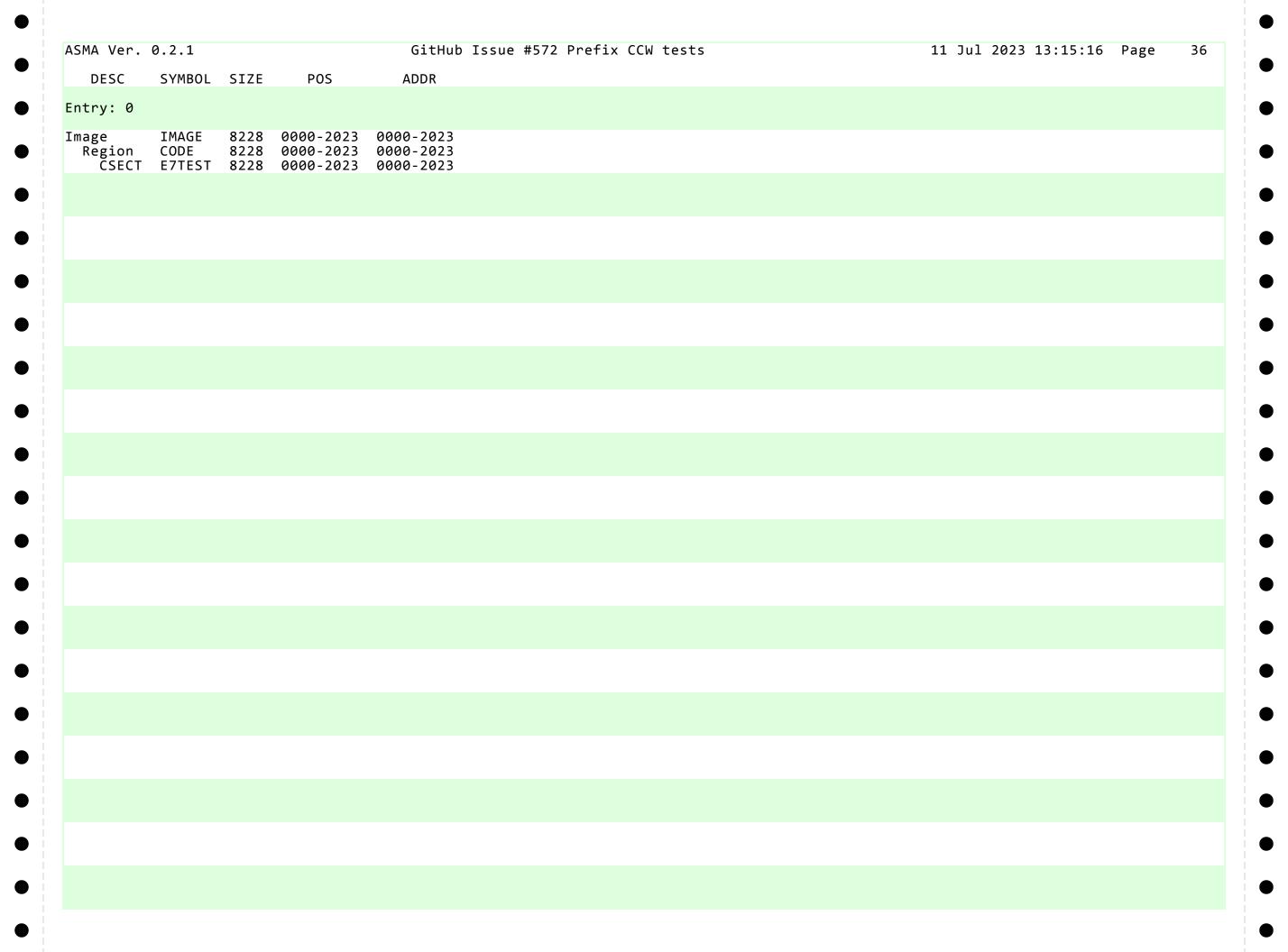
ASMA Ver. 0.2.1				GitHub			Pretix	CCW t	ests					11 Jul	2023	13:15:1	.6 Ра	ge	30
SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFER	ENCES													
GMDXC	F	000090	4	4388															
GMICODE	Н	00008E	2	4387															
GMIID	F	00008C	4	4383															
GMIILC	Χ	00008D	1	4385															
PGMIILCM	U	00000C	1	4386															
PGMNPSW	F	000068	8	4365															
PGMOPSW	F	000028	8	4337	4345														
PGMTRX	F	000090	4	4389															
PMCW1 0	Χ	000004	1	4199															
PMCW1 ⁻ 8	X	000005	1	4202	3744	3750													
PMCWB	U	000004	1	4234															
PMCWCHP0	Χ	000010	1	4223															
PMCWCHP1	X	000011		4224															
PMCWCHP2	X	000012	_ 1	4225															
PMCWCHP3	X	000013	1	4226															
PMCWCHP4	X	000013	1	4227															
PMCWCHP5	X	000015	1	4228															
PMCWCHP6	X	000015	1	4229															
PMCWCHP7	X	000017	1	4230															
PMCWDNUM	Ĥ	000006	2	4214	3746														
PMCWE	Ü	000080	1	4203	3750														
PMCWEXC	X	00001B	1	4233	3730														
PMCWIP	Ē	000010	4	4198															
PMCWISCM	Ü	000038	1	4200															
PMCWLM	Ü	000058	1	4204															
PMCWLMG	Ü	000020	1	4204															
PMCWLMC	Ü	000020	1	4205															
PMCWLPM	X	000040	1	4206															
PMCWLPUM		000008 A00000	1	4218															
PMCWM	X	00000A	1	4210															
	U		_																
PMCWMBI	Н	00000C	2	4220															
PMCWMM	U	000018	1	4207															
PMCWMMC	U	000008	1	4209															
PMCWMME	U	000010	1	4208															
PMCWPAM	X	00000F	1	4222															
PMCWPIM	X	00000B	1	4219															
PMCWPNOM	X	000009	1	4217															
PMCWPOM	X	00000E	1	4221															
PMCWRES1	X	000018	4	4231															
PMCWRES2	X	000018	3	4232															
PMCWS	U	000001	1	4236															
PMCWT	U	000002	1	4211															
PMCWV	U	000001	1	4212	3744														
PMCWX	U	000002	1	4235															
80	U	000000	1	4552	3573	3574	3582	3590	3601	3608	3625	3628	3642	3643	3769	3770	3771	3818	
					3825	3828	3830	3832	3834	3845									
R1	U	000001	1	4553	3584	3589	3625	3643	3647	3839	3849								
10	U	A00000	1	4562	3618	3622	3625	3628	3630										
R11	U	00000B	1	4563	3618	3632													
R12	U	00000C	1	4564															
13	U	00000D	1	4565															
314	U	00000E	1	4566	3616	3626	3629	3640	3671	3672	3720	3826	3846						
R15	U	00000F	1	4567	3645	3669	3718	3719	3731	3763	3819								
R2	Ū	000002	1	4554	3585	3628	3660	3828	3834	3835	3836	3838	3845						
R3	Ü	000003	1	4555	3575	3586	3588	3590	3607	3608	3716								
14	Ü	000004	$\bar{1}$	4556	3576	3600	3601	3604	3605	3648	3650	3771	3818						

ASMA Ver. 0.2.1							Prefix	CCW t	ests			11 Ju	1 2023	13:15:16	Page	3:
SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFER	ENCES										
R5	U	000005		4557	3577	3655										
R6	U	000006	1	4558												
.7	U	000007	1	4559												
8	U	000008	1	4560	3578	3717										
9	U	000009	1	4561	3682	3684	3686	3688	3690	3693	3694					
D	U	000006	1	3902	3957	3967	3988									
DMT	U	000086	1	3906	3998	2076										
SD	Ū	00003E	1	3903	3947	3976										
STNPSW	F -	000000	8	4331												
STOPSW	F	800000	8	4332	4270											
CANOUT	X	080000	1	4369	4370											
CANOUTL	U	000000	1	4370	4242	2576	2740									
CHIB CHIBL	4	000000 000034	52 1	4195 4242	4242	3576	3/40									
	U															
CHMBA	A	000028 000030	8	4240 4241												
CHMDA1	X		4													
CHMDA3	X	000028	12	4239												
CHPMCW CHSCSW	X	000000 00001C	28 12	4197 4238	2655											
	X				3655	2577										
CSW	4	000000	12 1	4251	4313	3577										
CSW0CC	U	000004	_	4267												
CSW1	X	000002	1	4271	2007											
CSW2	X	000003	1	4280	3807											
CSWACP	U	000001	1	4279												
CSWADA	U	000040	1													
CSWAHP	U	000002	1	_												
CSWALKC	U	000010	1	4265												
CSWARP	U	800000	1	4276												
CSWASA	U	000080	1	4281												
CSWASP	U	000004	1	4277												
CSWASUS	U	000020	1	4283												
CSWATTN	U	000080		4293												
CSWBUSY	U	000010		4296												
CSWCCTL	U	000004	1	4308	2011											
CSWCCW	A	000004	4	4290	3811											
CSWCCWF	U	000080	1													
CSWCCWP	U	000040	1	. —												
CSWCDAT	U	800000		4307	2662	2667										
CSWCE	U	000008	1	4297	3663	3667										
CSWCHNG	U	000001	1	4310	2012											
CSWCNT	H	A0000A	2	4312	3812											
SCSWCS CSWCTLS	X	000009	1	4302	3657											
CSWCTLS	X	000001	1													
CSWCUE	U	000020	1	_												
CSWDCC0	U	000000	1	4257												
CSWDCC1	U	000001	1 1	4258 4259												
CSWDCC3 CSWDCCM	U	000003 000003	1													
			1		3663	3667										
CSWDE CSWECWC	U	000004 000002			2002	3667										
	U			4268												
CSWESWF	U	000004	1	4255												
CSWFC	U	000010	_	4275												
CSWFH	U	000020	1	4274												
CSWFLAG	X	000000		4252												
CSWFM	U	000070		4272												
CSWFS	U	000040	1	4273												

ASMA Ver. 0.2.1				GitHub	Issue	#572	Prefix	CCW t	ests					11 Jul	2023	13:15:	16 Pa	ige	32
SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFER	ENCES													
CSWICTL	U	000002	1	4309															
CSWIL	Ŭ	000040	1	4304															
CSWISIC	Ü	000040	1	4264															
CSWKEYM	Ü	0000E0	1	4253															
CSWL	Ü	00001 C	1	4313															
CSWPCI	U	000000	1	4303															
SCSWPNOP		000000	-																
	U		1	4269															
SCSWPRGM	U	000020	1	4305															
SCSWPROT	U	000010	1	4306															
SCSWSAS	U	000010	1	4284															
SCSWSINT	U	000008	1	4285															
CSWSM	U	000040	1	4294															
SCSWSPEN	U	000001	1	4288															
SCSWSPRI	U	000004	1	4286	3809														
SCSWSSEC	U	000002	1	4287															
SCSWSSIC	U	800000	1	4266															
SCSWSUSC	U	800000	1	4254															
SCSWUC	U	000002	1	4299															
SCSWUS	Χ	000008	1	4292	3663	3667	3808												
SCSWUX	U	000001	1	4300															
SENSEPGM	R	0006A8	1	3939	3769														
SLI	Ü	000020	_ 1	3898	3939	3946	3947	3954	3955	3956	3957	3965	3966	3967	3975	3976	3986	3987	
	=		_	= · · -	3988	3996	3997	3998	4006	- -			- -		-	-			
SNS	U	000004	1	3901	3939		• • • • • • • • • • • • • • • • • • • •												
SNSBYTES	X	0009B8	32	4013	3939														
SSARCHMD	X	0000A3	1	4401	3232														
SSARS	F	000120	4	4457															
SSCLKCMP	E	000120 0000E0	8	4451															
SSCPUTIM	<u>.</u>	0000E0	8	4450															
SSCRS	<u>'</u>	0001C0	4	4460															
	Г	000160	•																
SSFPRS	D		8	4458															
SSGRS	F	000180	4	4459															
SSMODEL	F -	00010C	4	4455															
SSPREFIX	F _	000108	4	4454															
SSPSW	F	000100	8	4453															
SSXSAA	Α	0000D4	4	4449															
STFLDATA	F	0000C8	4	4422															
SVCICODE	Н	A80000	2	4381															
SVCIID	F	000088	4	4377															
SVCIILC	Χ	000089	1	4379															
SVCIILCM	U	00000C	1	4380															
SVCNPSW	F	000060	8	4364															
SVCOPSW	F	000020	8	4336	4343														
1 3EBUF	X	000A24	256	4024	3947														
1 CHPGM	R	0006F0	1	3946	3919														
1 DESC	C	0006B0	62	3943	3944	3919													
1 E7DAT	X	0009D8	12	4017	4023	3946													
1 E7LEN	II	00004C	1	4023	3946	J J 40													
1_L/LLN 1 MSGLN	II	00004C	1	3944	3919														
2 06BUF	V	00003E	10	4031	3957	3958													
	X					2220													
2_06IDA	A	000778	8	3958	3957														
T2_47DAT	X	000B74	16	4030	3956														
T2_63DAT	X	000B64	16	4029	3955														
CHPGM	R	000758	1	3954	3920														
T2_DESC	С	000700	85	3951	3952	3920													
2 E7DAT	Χ	000B24	64	4028	3954														

ASMA Ver. 0.2.1				GitHub	Issue	#572	Prefix CCW tests		11 Jul 2023	13:15:16	Page	33
SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFER	ENCES						
Γ2_MSGLN	U	000055	1	3952	3920							
Γ3_06BUF	Χ	000BDE	10	4041	3967	3968						
[3_06IDA	A	0007F0	8	3968	3967							
Γ3_47DAT	Χ	000BCE	16	4040	3966							
Γ3_CHPGM	R	0007D8	1	3965	3921							
Γ3_DESC	С	000780	86	3962	3963	3921						
T3_E7DAT	Χ	000B8E	64	4035	3965							
T3_MSGLN	U	000056	1	3963	3921							
Γ4_3EBUF	Χ	000BE8	256	4046	3976	3979						
Γ4_3EIDA	Α	000870	8	3979	3976							
Γ4_CHPGM	R	000850	1	3975	3922							
Γ4_DESC	С	0007F8	86	3972	3973	3922						
Γ4_E7DAT	Χ	001FD8	76	4053	3975							
Γ4_E7DAT_PART1	Χ	001FD8	40	4054	3977							
T4_E7DAT_PART1_LEN												
	U	000028	1	4050	4051	4052	4054					
T4_E7DAT_PART2	Χ	002000	36	4058	3978							
T4_E7DAT_PART2_LEN												
	U	000024	1	4051	4058							
T4_E7DAT_TOTAL_LEN												
	U	00004C	1	4049	4051	4053						
Γ4_E7IDA	Α	000860	8	3977	3975							
T4_MSGLN	U	000056	1	3973	3922							
Γ4_ORG	U	000CE8	1	4048	4062							
Γ5_06BUF	Χ	000D38	10	4073	3988	3989						
Γ5_06IDA	Α	000900	8	3989	3988							
T5_47DAT	Χ	000D28	16	4072	3987							
T5_CHPGM	R	0008E8	1	3986	3923							
T5_DESC	C	000878	111	3983	3984	3923						
T5_E7DAT	Χ	000CE8	64	4067	3986							
T5_MSGLN	U	00006F	1	3984	3923							
T6_47DAT	Χ	000D82	16	4082	3997							
T6_86BUF	Χ	000D92	10	4083	3998	3999						
Γ6_86IDA	Α	000978	8	3999	3998							
Γ6_CHPGM	R	000960	1	3996	3924							
T6_DESC	C	000908	81	3993	3994	3924						
T6_E7DAT	X	000D42	64	4077	3996							
T6_MSGLN	U	000051	1	3994	3924							
T7_CHPGM	R	0009B0	1	4006	3925							
T7_DESC_	C	000980	47	4003	4004	3925						
Γ7_E7DAT	X	000D9C	12	4088	4093	4006						
Γ7_E7LEN	U	000040	1	4093	4006							
Γ7_MSGLN	U	00002F	1	4004	3925							
TESTLEN	U	000014	1	3928	3625	3630						
TESTLOOP	Ī	00024E	4	3620	3632							
TESTNEXT	I	000270	4	3630	3623							
TESTNUM	U	000200	1	3914	3583	3642	3693					
TESTOK	I	0002C4	4	3671	3665							
TESTONLY	R	000FFF	1	3894	3620	3622						
TESTR14	A	0002CC	4	3674	3640	3671						
ESTTAB	A	000618	4	3917	3928	3913						
TESTTHIS	I	000260	4	3625	3621							
TIMER	F	000050	4	4360								
ΓTDES	F	000054	4	4361								
	_	000010	8	4333								
JA0 JA1	F	000010 00004C	0	4358								

SMA Ver.	0.2.1				GitH	Hub Issi	ue #572	Prefix	CCW test	:S		11 Ju	1 2023	13:15:1	6 F	Page	35
MACRO	DEFN	REFERE	NCES														
NTR	121																
PROB	253	2442															
RCHIND	413	3443															
RCHLVL SAIPL	554 680	3442															
SALOAD	760	3525															
SAREA	815	4323															
SAZAREA	1000	.525															
PUWAIT	1083	3788															
SECTS	1409	4099	4131	4178	4193	4249	4320										
WAIT	1612																
WAITEND	1669																
NADEV	1677	3737															
SA390	1777																
OCB	1788	3863															
OCBDS	1964	4100	4170	4104	4250	4400	4500	4500									
OFMT OINIT	1998	4132	4179	4194	4250	4482	4500	4508									
OTRFR	2336 2377	3726															
RB	2425	3879															
OINTER	2614	3013															
SWFMT	2642																
AWAIT	2776																
OIWA	2872	3775															
IGCPU	3030																
MMGR	3088																
MMGRB	3188																
RAP128	3237	3537	2520														
RAP64	3214	3527	3530														
RAPS ARCH	3250 3324																
EROH	3336																
EROL	3364																
EROLH	3392																
EROLL	3415																



ASMA Ver. 0.2.	·	Ci+Uub Taa	ue #572 Prefi	v (Ch. +as+s		11 77	2022 12.15	. 1 <i>c</i>	Dage	37
	L	GILHUD ISS		x ccw tests		II JUI	2023 13:15	.10	rage	5/
STMT			FILE NAME							
1 C:\Users 2 C:\Users	\Fish\Documents\Visual \Fish\Documents\Visual	Studio 2008\P Studio 2008\P	rojects\MyPro rojects\Hercu	jects\ASMA-0\E7F les_Git_Harolo	Prefix\E7Prefix.asm d\SATK-0\srcasm\satk.	mac				
** NO ERRORS FO	OUND **									