```
ASMA Ver. 0.2.0
                                   CCW Incorrect Length Suppression Test
                                                                                      02 Nov 2017 20:16:21 Page
 LOC
           OBJECT CODE
                          ADDR1
                                   ADDR2
                                           STMT
                                             3 *
                                             4 *
                                                              CCW Incorrect Length Suppression Test
                                             5 *
                                             6 *********************
                                             7 *
                                             8 *
                                                  This program verifies proper Hercules channel subsystem handling
                                             9 *
                                                  of immediate CCWs (e.g. 0x03 NOP CCW) with a non-zero length field
                                                  and WITHOUT the SLI flag set, for both Format-0 and Format-1, and
                                            11 * both with and without the ORB 'L' Incorrect Length Suppression Mode
                                            12 * flag.
                                            13 *
                                            15 *
                                            16 *
                                                   Example Hercules Testcase:
                                            17 *
                                            18 *
                                                      *Testcase CCW-ILS (CCW Incorrect Length Suppression)
                                            19 *
                                            20 *
                                                      # Prepare test environment
                                            21 *
                                            22 *
                                                      mainsize
                                                                1
                                            23 *
                                                      numcpu
                                                                1
                                            24 *
                                                      sysclear
                                            25 *
                                                      archlvl
                                                                z/Arch
                                            26 *
                                                      detach
                                                                390
                                            27 *
                                                                390 3390 "$(testpath)/CCWILS.3390-1.comp-z"
                                                      attach
                                             28 *
                                                                          "$(testpath)/CCW-ILS.core"
                                                      loadcore
                                            29 *
                                            30 *
                                                                           # (trace device CCWs)
                                                      t+390
                                            31 *
                                                      0+390
                                                                           # (trace device ORBs)
                                             32 *
                                             33 *
                                                      # Run the test...
                                            34 *
                                                                           # (plenty of time)
                                                      runtest 0.25
                                            35 *
                                            36 *
                                            37 *
                                                      # Clean up afterwards
                                            38 *
                                                      detach
                                                               390
                                                                           # (no longer needed)
                                             39 *
                                            40 *
                                                      *Compare
                                            41 *
                                                      r FFF.1
                                            42 *
                                                      *Want "Ending test number" 03
                                            43 *
                                            44 *
                                                      *Done
                                            45 *
                                            46 ***********************
```

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LOC	OBJECT CODE	ADDR1	ADDR2	STMT						
				48 3429	PRINT OFF PRINT ON					
						**********				
				3432 * 3433 *****	SATK prolog st *********	uff **************	******	******	****	
				3435	ARCHLVL MNOTE	=NO				
				3437+\$AL 3438+\$ALR	OPSYN AL OPSYN ALR					
				3439+\$B 3440+\$BAS	OPSYN B OPSYN BAS					
				3441+\$BASR 3442+\$BC	OPSYN BASR OPSYN BC					
				3443+\$BCTR 3444+\$BE	OPSYN BCTR OPSYN BE					
				3445+\$BH 3446+\$BL	OPSYN BH OPSYN BL					
				3447+\$BM 3448+\$BNE	OPSYN BM OPSYN BNE					
				3449+\$BNH 3450+\$BNL	OPSYN BNH OPSYN BNL					
				3451+\$BNM 3452+\$BNO	OPSYN BNM OPSYN BNO					
				3453+\$BNP	OPSYN BNP					
				3454+\$BNZ 3455+\$BO	OPSYN BNZ OPSYN BO					
				3456+\$BP 3457+\$BXLE	OPSYN BP OPSYN BXLE					
				3458+\$BZ 3459+\$CH	OPSYN BZ OPSYN CH					
				3460+\$L 3461+\$LH	OPSYN L OPSYN LH					
				3462+\$LM 3463+\$LPSW	OPSYN LM OPSYN LPSW					
				3464+\$LR 3465+\$LTR	OPSYN LR OPSYN LTR					
				3466+\$NR 3467+\$SL	OPSYN NR OPSYN SL					
				3468+\$SLR 3469+\$SR	OPSYN SLR OPSYN SR					
				3470+\$ST 3471+\$STM	OPSYN ST OPSYN STM					
				3472+\$X 3473+\$AHI	OPSYN X OPSYN AHI					
				3474+\$B 3475+\$BC	OPSYN J OPSYN BRC					
				3476+\$BE	OPSYN JE					
				3477+\$BH 3478+\$BL	OPSYN JH OPSYN JL					
				3479+\$BM 3480+\$BNE	OPSYN JM OPSYN JNE					

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LOC	OBJECT CODE	ADDR1	ADDR2	STMT			
				3481+\$BNH	OPSYN JNH		
				3482+\$BNL	OPSYN JNL		
				3483+\$BNM 3484+\$BNO	OPSYN JNM OPSYN JNO		
				3485+\$BNP	OPSYN JNP		
				3486+\$BNZ	OPSYN JNZ		
				3487+\$B0	OPSYN JO		
				3488+\$BP 3489+\$BXLE	OPSYN JP OPSYN JXLE		
				3490+\$BZ	OPSYN JZ		
				3491+\$CHI	OPSYN CHI		
				3492+\$AHI	OPSYN AGHI		
				3493+\$AL 3494+\$ALR	OPSYN ALG OPSYN ALGR		
				3495+\$BCTR	OPSYN BCTGR		
				3496+\$BXLE	OPSYN JXLEG		
				3497+\$CH	OPSYN CGH		
				3498+\$CHI	OPSYN LG		
				3499+\$L 3500+\$LH	OPSYN LG OPSYN LGH		
				3501+\$LM	OPSYN LMG		
				3502+\$LPSW	OPSYN LPSWE		
				3503+\$LR	OPSYN LGR		
				3504+\$LTR 3505+\$NR	OPSYN LTGR OPSYN NGR		
				3506+\$SL	OPSYN SLG		
				3507+\$SLR	OPSYN SLGR		
				3508+\$SR	OPSYN SGR		
				3509+\$ST 3510+\$STM	OPSYN STG OPSYN STMG		
				3510+\$31M 3511+\$X	OPSYN XG		
				3322.47	0. 5. W AG		

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1.06	ODJECT CODE	ADDD1		J	• •		
LOC	OBJECT CODE	ADDR1	ADDR2	STMT			
					*****	******	**********
				3514 *			ECT in the CODE region
				3515 * 3516 *******	with *****	the location count	ter at 0 ***********
				2210			
				3518 CCWILS	ASALO	AD REGION=CODE	
		00000000	00000FFF	3519+CCWILS		0,CODE	64 1 1
00000000 00000010	00020000 00000000	00000010	00000058	3521+ 3522+	PSW ORG	0,0,2,0,X'008' CCWILS+X'058'	64-bit Restart ISR Trap New PSW
00000010	00020000 00000000	00000010	00000038	3524+	PSW	0,0,2,0,X'018'	64-bit External ISR Trap New PSW
00000068	00020000 00000000			3525+	PSW	0,0,2,0,X'020'	64-bit Supervisor Call ISR Trap New PSW
00000078	00020000 00000000			3526+	PSW	0,0,2,0,X'028'	64-bit Program ISR Trap New PSW
00000088 00000098	00020000 00000000 00020000 00000000			3527+ 3528+	PSW PSW	0,0,2,0,X'030' 0,0,2,0,X'038'	64-bit Machine Check Trap New PSW 64-bit Input/Output Trap New PSW
00000038	00020000 00000000	000000A8	000001A0	3529+	ORG	CCWILS+X'1A0'	04-bic input/output hap new row
000001A0	00020000 00000000			3531+	PSWZ	0,0,2,0,X'120'	Restart ISR Trap New PSW
000001B0	00020000 00000000			3532+		0,0,2,0,X'130'	External ISR Trap New PSW
000001C0 000001D0	00020000 00000000 00020000 00000000			3533+ 3534+		0,0,2,0,X'140'	Supervisor Call ISR Trap New PSW Program ISR Trap New PSW
000001D0	00020000 00000000			3535+		0,0,2,0,X'150' 0,0,2,0,X'160'	Machine Check Trap New PSW
000001F0	00020000 00000000			3536+		0,0,2,0,X'170'	Input/Output Trap New PSW
				3538 ******	*****	******	**********
				3539 *	Defin	e the z/Arch RESTA	ART PSW
				3540 ******	*****	*****	***********
		00000200	00000001	3542 PREVORG	EQU	*	
00000200		00000200	000001A0	3543	ORG	CCWILS+X'1A0'	
00000110	0000000			3544 *	PSWZ		<pre>&gt;,<pre>&gt;,<addr>[,amode]</addr></pre></pre>
000001A0 000001B0	00000001 80000000	000001B0	00000200	3545 3546	PSWZ ORG	0,0,0,0,X'200',64 PREVORG	
99999109		OOOOOTDO	00000200	JJ40	ONG	FILLVUNU	
				ጋርላር ቶቶቶሉለ	****	****	<b>{ * * * * * * * * * * * * * * * * * * *</b>
				3548 ******* 3549 *	Creat	e IPL (restart) PS	5 W
					*****	*****	**********
		0000000	00000555	3552	ASAIP		
00000200		00000000 00000200	00000FFF 00000000	3553+CCWILS 3554+	CSECT ORG	CCWILS	
00000200	00080000 00000200	00000200	3000000	3555+		90 0,0,0,0,BEGIN,2	24
0000008		00000008		3556+	ORG	CCWILS+512	Reset CSECT to end of assigned storage area
		00000000	00000FFF	3557+CCWILS	CSECT		

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LOC	OBJECT CODE	ADDR1	ADDR2	STMT				
				3560 * 3561 ******* 3562 * 3563 * Archi 3564 * Addre 3565 * Regis 3566 * 3567 * R0	******  tecture  ssing M  ter Usa	The actual CCWI ********  Mode: z/Arch Mode: 64-bit age: work)	**************************************	
				3568 * R1 3569 * R2 3570 * R3 3571 * R4 3572 * R5 3573 * R6,R 3574 * R8 3575 * R9	Pr IC IC Us 7 Si OR	rogram base regis OCB pointer for E O work register ( Sed for CPU regis	y ENADEV and RAWIO macros ster ENADEV and RAWIO macros used by ENADEV and RAWIO ster when signaling architecture change rs when changing architecture	
				3576 * R10- 3577 * 3578 ******	R15 (w	vork)	************	
00000200 00000200 00000200 00000200 00000200		00000000 00000200 0000000 0000000 000000		3580 3581 3582 3583 3584	USING USING USING USING USING	IOCB,R3 ORB,R8	Low core addressability Program Addressability SATK Device I/O Control Block ESA/390 Operation Request Block ESA/390 Subchannel Status Word	
00000200 00000202 00000204	0520 0620 0620			3586 BEGIN 3587 3588	BCTR	R2,0 R2,0 R2,0	Initalize Base Register Initalize Base Register Initalize Base Register	
00000206	45E0 20DA		000002DA	3590 3591 *	BAL	R14,INIT	Initalize Program	
	45E0 201A 45E0 205A 45E0 209A		0000021A 0000025A 0000029A	3592 ** 3593 * 3594 3595	BAL	R14,TEST01 R14,TEST02 R14,TEST03	Format-0 Format-1, without ORB ILS flag Format-1, with ORB ILS flag	
00000216	47F0 20F8		000002F8		В	ЕОЈ	Normal completion	

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LOC	OBJECT CODE	ADDR1	ADDR2	STMT			
				3601 *	TEST	01: Format-0	
0000021A	9201 2DFF		00000FFF	3604 TES	ST01 MVI	TESTNUM,X'01'	Initialize test number
0000021E 00000222	9200 8005 9200 8007		00000005 00000007	3606 3607	MVI MVI	ORB1_8,0 ORRB1_24,0	Initialize ORB flags Initialize ORB flags
00000226 0000022A	947F 8005 947F 8007		00000005 00000007	3608 * 3609 3610	NI NI	ORB1_8,X'FF'-ORBF ORRB1_24,X'FF'-ORBL	Format-0 CCWs (ILS mode irrelevant)
0000022E 00000232	4100 2300 45F0 219A		00000500 0000039A	3612 3613	LA BAL	R0,NOPPROG R15,EXCP	No-Operation channel program Do the I/O
00000236 0000023C 00000242	D203 2600 9004 D200 2604 9008 D200 2605 9009	00000800 00000804 00000805	00000004 00000008 00000009	3615 3616 3617	MVC MVC MVC	TESTCCWA, SCSWCCW TESTUS, SCSWUS TESTCS, SCSWCS	Save Ending CCW Address Save Unit Status Save Channel Status
00000248	D201 2606 900A	00000806	0000000A	3618	MVC	TESTRES, SCSWCNT	Save Residual
0000024E 00000254 00000258	D507 2600 2608 4770 2128 07FE	00000800	00000808 00000328	3620 3621 3622	CLC BNE BR	TESTRSLT,GOODRSLT FAILTEST R14	Is results what we expected? No, FAIL the test Yes, test SUCCESS

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LOC	OBJECT CODE	ADDR1	ADDR2	STMT				
				3624	******	******	******	*********
				3625	k	TEST0	2: Format-1.	without ORB ILS flag
				3626 *	******	******		*********
0000025A	9202 2DFF		00000FFF	3628	ΓEST02	MVI	TESTNUM,X'02'	Initialize test number
0000025E	9200 8005		00000005	3630		MVI	ORB1_8,0	Initialize ORB flags
00000262	9200 8007		00000007	3631		MVI	ORRB1_24,0	Initialize ORB flags
00000266	9680 8005		00000005	3632 <sup>3</sup>	ĸ	OI	ORB1 8,ORBF	Format-1 CCWs
0000026A	947F 8007		00000007	3634		NI	ORRB <u>1</u> 24,X'FF'-ORBL	ILS mode off
							<del>-</del> '	
0000026E	4100 2300		00000500	3636		LA	RØ, NOPPROG	No-Operation channel program
00000272	45F0 219A		0000039A	3637		BAL	R15,EXCP	Do the I/O
00000276	D203 2600 9004	00000800	00000004	3639		MVC	TESTCCWA, SCSWCCW	Save Ending CCW Address
0000027C	D200 2604 9008	00000804	80000008	3640		MVC	TESTUS, SĆSWUS	Save Unit Štatus
00000282	D200 2605 9009	00000805	00000009	3641		MVC	TESTCS, SCSWCS	Save Channel Status
00000288	D201 2606 900A	00000806	A000000A	3642		MVC	TESTRES, SCSWCNT	Save Residual
0000028E	D507 2600 2610	00000800	00000810	3644		CLC	TESTRSLT, BADRSLT	Is results what we expected?
00000294	4770 2128		00000328	3645		BNE	FAILTEST	No, FAIL the test
00000298	07FE			3646		BR	R14	Yes, test SUCCESS

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LOC	OBJECT CODE	ADDR1	ADDR2	STMT			
				3649 *	TEST0	3: Format-1.	**************************************
0000029A	9203 2DFF		00000FFF	3652 TEST03	MVI	TESTNUM,X'03'	Initialize test number
0000029E 000002A2	9200 8005 9200 8007		00000005 00000007	3654 3655	MVI MVI	ORB1_8,0 ORRB1_24,0	Initialize ORB flags Initialize ORB flags
000002A6 000002AA	9680 8005 9680 8007		00000005 00000007	3656 * 3657 3658	0I 0I	ORB1_8,ORBF ORRB1_24,ORBL	Format-1 CCWs ILS mode on
000002AE 000002B2	4100 2300 45F0 219A		00000500 0000039A	3660 3661	LA BAL	R0,NOPPROG R15,EXCP	No-Operation channel program Do the I/O
000002B6 000002BC 000002C2	D203 2600 9004 D200 2604 9008 D200 2605 9009	00000800 00000804 00000805	00000004 00000008 00000009	3663 3664 3665	MVC MVC	TESTCCWA,SCSWCCW TESTUS,SCSWUS TESTCS,SCSWCS	Save Ending CCW Address Save Unit Status Save Channel Status
000002C8 000002CE	D201 2606 900A D507 2600 2608	00000806	0000000A 00000808	3666 3668	MVC	TESTRES, SCSWCNT TESTRSLT, GOODRSLT	Save Residual  Is results what we expected?
000002CL 000002D4 000002D8	4770 2128 07FE	0000000	00000328	3669 3670	BNE BR	FAILTEST R14	No, FAIL the test Yes, test SUCCESS

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LOC	OBJECT CODE	ADDR1	ADDR2	STMT				
				3673 *	Progra	am Initialization	**************************************	
000002DA				3676 INIT	DS	0H	Program Initialization	
000002DE	4130 2244 E380 3018 0004		00000444 00000018	3678 3679	LA \$L	R3,IOCB_390 R8,IOCBORB	Point to IOCB Point to ORB	
	E3F0 3020 0004 4190 F000	00000000	00000020 00000000	3680 3681 3682	\$L USING LA	R9,ÍRBSCSW	Point to IRB Temporary addressability Point to SCSW	
	45F0 2138		00000338	3683 3685	DROP	R15 R15,IOINIT	Done with IRB  Initialize the CPU for I/O operations	
000002F2 000002F6	45F0 2146 07FE		00000346	3686 3688	BAL BR	R15,ENADEV R14	Enable our device making ready for use Return to caller	
				3691 *	Normal	completion or A	**************************************	
000002F8				3694 EOJ 3696+EOJ	DS	END LOAD=YES OH	Normal completion	
000002F8 00000300	8200 2100 000A0000 00000000		00000300	3697+ 3698+DWAT0009		DWAT0009 00 0,0,2,0,X'0000	000'	
00000308 00000308	8200 2110		00000310	3700 FAILDEV 3701+FAILDEV 3702+	DS	LOAD=YES,CODE=01 0H DWAT0010	. ENADEV failed	
00000310	000A0000 00010001			3703+DWAT0010 3705 FAILIO		00 0,0,2,0,X'0100 LOAD=YES,CODE=02		
	8200 2120 000A0000 00010002		00000320	3706+FAILIO 3707+	DS LPSW	0H DWAT0011 00 0,0,2,0,X'0100		
00000328				3711+FAILTEST	DS	LOAD=YES, CODE=BA	D Abnormal termination	
	8200 2130 000A0000 00010BAD		00000330	3712+ 3713+DWAT0012		DWAT0012 90 0,0,2,0,X'010B	BAD'	

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LOC	OBJECT C	CODE ADDR1	ADDR2	STMT			
				3716 *	Initia	alize the CPU fo	**************************************
				3719 IOINIT	IOINI	Т.	
00000338 0000033C 00000340	B766 2140 47F0 2144		00000340 00000344	3720+IOINIT 3721+ 3722+IOMK0013	LCTL B	6,6,10MK0013 IOMK0013+4 0F	Enable subchannel subclasses for interruptions
0000340	FF000000 07FF			3723+ 3724		XL4'FF000000' R15	All subchannel subclasses enabled Return to caller
				3726 ******	:*****	*****	********
				3727 *	Enable	e the device. ma	aking it ready for use
				3730 ENADEV	ENADE	V ENAOKAY, FAILD	DEV,REG=4
0000346	5810 2190	0004		3731+ENADEV		1,FIND0014	Landa when the COUTP is to be stored
000034A	E340 3028 0	00000000	00000028	3/32+ 3733+	\$L USTNG	4,IOCBSIB SCHIB,4	Locate where the SCHIB is to be stored
0000350		0000000		3734+FINL0014			Subchannel Information Block for desired device numb
	B234 4000		00000000	3735+	STSCH		Store the SCHIB for first subchannel
0000354	A774 FFDA			3736+	\$BC	B'0111', FAILDEN	
	9101 4005 A784 0011		00000005 0000037E	3737+ 3738+	TM \$BZ	PMCW1_8,PMCWV FINN0014	<pre>Is the subchannel device number valid?No, check the next subchannel</pre>
0000336	D501 4006 3	3004 00000006		3739+	•	PMCWDNUM, IOCBDE	
	A774 000C		0000037E			FINN0014	No, check the next subchannel
				3741+* Subcha			
000036A	5010 3000			3742+		1, IOCBDID	Remember the subchannel so I/O can be done to i
000036E	9680 4005 B232 4000			3743+ 3744+	OI MSCH	PMCW1_8,PMCWE 0(4)	Make sure it is enabled so I/O requests accepte Enable the subchannel to the channel sub-system
	A784 0011		00000398			B'1000',ENAOKAY	
000037A	A7F4 FFC7		00000308	3746+	\$B	FAILDEV	CC1,CC2,CC3 (SCHIB update failed), quit
000037E				3747+FINN0014			next subchannel
	4110 1001		00000001		LA		Advance to next subchannel
	5510 2194 A7D4 FFE5			3749+ 3750+		1,FINM0014	Beyond maximum subchannelNo, examine the next subchannel
	A724 FFBF			3751+		FAILDEV	Yes, failed to enable the device
000038E	· · · - ·		2 2 2 2 <b>2 2 3</b>	3752+	•	4	Forget SCHIB addressing
	00010000			3753+FIND0014		A(X'00010000')	First subchannel subsystem ID
				27F4.FTNM0044	DC	1/V'0001FFFF'	Last subskapped subsustant ID
	0001FFFF			3754+FINM0014 3755 *	. DC	A(X'0001FFFF')	Last subchannel subsystem ID

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LOC	OBJECT CODE	ADDR1	ADDR2	STMT				
				2750 ******	*****	******	<b>***</b> *****	********
				3759 *	Execu	te the channel r	nrogram r	pointed to by R0
				3760 ******	****	***********	******	oointed to by R0  ***********************************
000039A	5000 8008		0000000	2762 EVCD	СТ	DO ODDCCU	Dlug Cha	onnol Drognom addross into TOPP
оооозэа	3000 8008		00000008	3762 EXCP	ST	R0,ORBCCW	Plug Cha	annel Program address into IORB
				3764		4,FAIL=FAILIO		
000039E	9200 300E	0000000	0000000E			IOCBSC, X'00'		Clear SC information
00003A2 00003A8	D201 300A 3006 5810 3000	A000000A	00000006 00000000		MVC	IOCBST, IOCBZERO		Clear accumulated status
ONCOUD	3810 3000		0000000		te Sub	1,IOCBDID channel-based in		Remember the device ID with which I am work:
00003AC	E340 3018 0004		00000018		\$L	4, IOCBORB		ocate the ORB for the channel subsystem
00003RC			00000000		SSCH	0(4)		Initiate the I/O operation
	A774 FFB1		00000318		\$BC	B'0111',FAILIO		Start function failed, report/handle the
00003BA	E340 3020 0004		00000020	3772+	\$L	4,IOCBIRB	L	ocate the IRB storage area
00003C0		00000000		3773+	USING	IRB,4	M	Make it addressable
				3775+* Wait f	or I/O	operation to pr	resent st	catus via an interruption
0003C0				3776+IOWT0015		0H Wait for I/		
0003C0	D20F 21F0 01F0	000003F0	000001F0	3778+	MVC	IOS0016(16),496	5(0)	Save Input/Output new PSW
00003C6	D20F 01F0 21E0	000001F0	000003E0		MVC	496(16,0),ION00	916	
00003CC			000003D0			WPSW0016		Wait for event
00003D0				3781+WPSW0016		2,0,2,0,0		Wait for event
00003E0				3782+ION0016		0,0,0,32,IRST00	016,24	I/O New PSW: cc==2
00003F0	00000000 00000000			3783+IOS0016		XL16'00'	++on	
0000400				3785+IRST0016		/output interrup 0H	CIOII	
0000400	D20F 01F0 21F0	000001F0	000003F0	3786+	MVC	496(16,0),10500	916	Restore input/output new PSW
0000100	220. 01.0 21.0	00000110	00000310			interruption	710	Researce impute, outepute frew 15M
							the exp	pected subchannel
0000406	5510 00B8		000000B8	3789+	CL		į	Is this the device for which I am waiting?
000040A	A774 FFDB		000003C0	3790+		IOWT0015		.No, continue waiting for it
						nterruption info		
000040E			0000000			0(4)		Retrive interrupt information
	A744 FFD7 A714 FF81		000003C0 00000318		\$BC \$BC	B'0100',IOWT001 B'0001',FAILIO		CC1 (not status pending), wait for it to are
0000416	A/14 FF01		00000310	3795+*	<b>ADC</b>	b 0001 ,FAILIU		CC3 (not operational), an error then CC0 (status was pending), accumulate the st
000041A	D600 300E 4003	0000000E	00000003	3796+	OC	TOCRSC TRRSCSW+		Accumulate status control
000041A	D601 300A 4008	0000000L		3797+	OC OC			Accumulate device and channel status
0000426	9104 300E	3000007	0000000E		TM	IOCBSC, SCSWSPRI		Primary subchannel status?
000042A	A7E4 FFCB			3799+	\$BNO	IOWT0015		.No, wait for primary status
000042E	D203 3010 4004	00000010	00000004	3800+	MVC	IOCBSCCW, IRBSCS	SW+SCSWCC	CW CCW address
0000434	D201 3016 400A	00000016	A000000A		MVC			NT Residual count
000043A	910C 300A		000000A	3803+ Test T	TM	ors as specified IOCBUS,CSWCE+CS		Thannel end and device end both accumulated
	A7E4 FF6D		00000000	3804+		FAILIO		Hunh? No CE and DE but do have primary state
JJUU4JE	,,, ET 1100		5555515			operation succe		iam. No ce and be but do have premary state
0000442	0755			·	·	·		
	W/FF			3807	BR	R15	keturn t	co caller

ASMA Ver.	0.2.0		CCW Inco	rrect I	ength S	uppres	sion Test		02 Nov 201	7 20:16:21	Page	13
LOC	OBJECT CODE	ADDR1	ADDR2	STMT								
				3840	k	Worki	ng Storage		*******			
000004E0				3843		LTORG	,	Literals pool				
		00000400	00000001	3845 H	<	EQU	1024	One kilobyte	(OK! OK! "Kibib	te!" Shees	h!)	
		00000500 00000800 00000FFF	00000001 00000001 00000001	3848 F	HEX500 RESLTADR FESTADDR		X'500' (2*K) (4*K)-1	Address where	er address and bur e test results wi e test number wil	ll be place	d	
					******				**********			
				3852 <sup>3</sup>	*******	Forma ****	T-0/1 Neut ********	raı NOP CCW Cna *******	nnel Program	******	****	
000004E0		000004E0	00000500	3855		ORG	CCWILS+HE	X500 (	s/b @ X'0500')			
		00000003	00000001	3857 N	NOOP	EQU	X'03'	N	lo Operation CCW	opcode		
00000500	03000500 00000500			3859 N	NOPPROG	DC	AL1(NOOP)	,AL1(0),AL2(HEX	(500),AL1(0),AL1(	ð),AL2(HEX5	00)	

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LOC	OBJECT CODE	ADDR1	ADDR2	STMT				
							***********	
00000508		00000508	00000800	3865	OR	CCWILS+RESLTADR	(s/b @ X'0800')	
00000800 00000800 00000804 00000805 00000806	00			3867 TES 3868 TES 3869 TES 3870 TES 3871 TES	TCCWA DC TUS DC TCS DC	0XL8 A(0) X'00' X'00' H'0'	Saved Test Results Ending CCW Address Unit Status Channel Status Residual	
00000808 0000080C				3873 G00l 3874	DRSLT DC DC	XL4'00000508' AL1(SCSWCE+SCSWDE),	,AL1(0),AL2(1280)	
00000810 00000814				3876 BADI 3877	RSLT DC DC	XL4'00000508' AL1(SCSWCE+SCSWDE),	,AL1(SCSWIL),AL2(1280)	
00000818		00000818	00000FFF	3879	OR	CCWILS+TESTADDR	(s/b @ X'0FFF')	
00000FFF	00			3881 TES	TNUM DC	X'00' Test num	nber of active test	

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LOC	OBJECT CODE	ADDR1	ADDR2	STMT						
				<b>2882 ****</b> ***	******	****	****	***	***	*********
				3884 *	IOCB D					
				3885 ******	*****	k****	****	***	***	**********
				3887	DSECTS	5 NAMI	E=IO	СВ		
				3889+IOCB	DSECT					
								H S	C D	escription (R->program read-only, X->program read/wr
0000000	0000			3891+IOCBDID			+0	_ I	R I	Device Identifier - Subsystem ID for channel subsyst
0000000	0000			3892+	DS		+0			reserved - must be zeros
00000002	0000 0000			3893+IOCBDV 3894+IOCBDEV		H -	+2	K V V	v 1	Channel Unit Device address of I/O operation
00000004 00000006	0000			3895+IOCBZERO		H -	+4 +6	R F	Λ I D I	Device address or device number (R after ENADEV) Must be zeros
30000008	00			3896+IOCBUM				X )		Unit status test mask
00000000	00			3897+IOCBCM	DS			$\hat{X}$		Channel status test mask
00000003 0000000A	00			3898+IOCBST			+10			Input/Output unit and channel status accumulation
000000A	00			3899+IOCBUS			+10			Accumulated unit status
9000000В	00			3900+IOCBCS						Accumulated channel status
000000C	00			3901+IOCBUT		Χ -	+14	R F	R I	Used to test unit status
000000D	00			3902+IOCBCT	DS	χ -	+13	R F	R I	Used to test channel status
000000E	00			3903+IOCBSC			+14	F		Accumulted subchanel status control
000000F	00			3904+IOCBWAIT			+15			Recognized unsolicited interruption unit status even
00000010	00000000			3905+IOCBSCCW						I/O status CCW address
0000014				3906+IOCBSCNT						I/O status residual count as a positive full word
0000014	0000			3907+	DS		+20			reserved must be zeros
00000016	0000			3908+IOCBRCNT			+22			I/O status residual count as an unsigned halfword
00000018	00000000 00000000			3909+IOCBCAW	DS		+24			Channel Address word
00000018 00000020	00000000 00000000			3910+IOCBORB 3911+IOCBIRB		AD -	+24			Address of the ORB for channel subsystem I/O
00000020	00000000 00000000			3911+10CB1RB 3912+I0CBSIB	DS DS	AD -				Channel subsystem IRB address Channel subsystem SCHIB address
30000020	0000000 0000000	00000030	00000001	3912+10CB31B	EQU	*-I0				of IOCB control block (48) without embedded structu

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LOC	OBJECT CODE	ADDR1	ADDR2	STMT									
				3915 ******* 3916 * 3917 ******	***** ORB D ****	SECT	*******************						
				3919	DSECT	S NAME=OR	D						
				3921+ORB	DSECT	3 NAME-OR	D .						
000000	0000000			3922+ORBPARM	DC	F'0'	Word 0, bits 0	-31					
0000004	00	000000F0 00000008	00000001 00000001	3924+ORB1_0 3925+ORBKEYM 3926+ORBS	DC EQU EQU	X'00' X'F0' X'08'	Word 1, bits 0 Word 1, bits 0 Word 1, bit 4	-3 -		Key Mask Control			
		00000004 000000002 00000001	00000001 00000001 00000001	3927+ORBC 3928+ORBM 3929+ORBY	EQU EQU EQU	X'04' X'02' X'01'	Word 1, bit 5 Word 1, bit 6 Word 1, bit 7	- -	Streami Modific	ng Mode Contaction on the contact of	trol		
0000005	00	00000080	00000001	3931+ORB1_8 3932+ORBF	DC EQU	X'00' X'80'	Word 1, bits 8 Word 1, bit 8		CCW For	mat-Contr	ol		
		00000040 00000020 00000010	00000001 00000001 00000001	3933+ORBP 3934+ORBI 3935+ORBA	EQU EQU EQU	X'40' X'20' X'10'	Word 1, bit 9 Word 1, bit 10 Word 1, bit 11	- -	Pre-fet Initial	ch contro -status I Limit Ch	l nterrup		
		00000008 00000004 00000002	00000001 00000001 00000001	3936+ORBU 3937+ORBB 3938+ORBH	EQU EQU EQU	X'08' X'04' X'02'	Word 1, bit 12 Word 1, bit 13 Word 1, bit 14	-	Suppres Channel	s-suspend -Program- 2-IDAW Co	ed-inte Type Co	rruptio	
0000006 0000007	00 00	00000001	00000001	3939+ORBT 3940+ORBLPM 3941+ORRB1 24	EQU DC	X'01' X'00' X'00'	Word 1, bit 15 Word 1, bits 10 Word 1, bits 20	- 6-23 -	2K-IDAW	control			
		00000080 0000007F 00000040	00000001 00000001 00000001	3942+ORBL 3943+ORBRSV3 3944+ORBD	EQU EQU EQU	X'80' X'7F' X'40'	Word 1, bit 24 Word 1, bits 2 Word 1, bit 25	- 5-31 -	reserve	ct Length d must be ddressing	zeros		1ode
		0000003E 0000007E 00000001	00000001 00000001 00000001	3945+ORBRSV26 3946+ORBRSV25 3947+ORBX	EQU	X'3E' X'7E' X'01'	Word 1, bits 20 Word 1, bits 20 Word 1, bit 31	6-30 - 5-30 -	reserve reserve	d must be	zeros zeros	_	
000008	00000000	00000080	00000001	3949+ORBCCW 3950+ORBRSV4	DC EQU	A(0) X'80'	Word 2, bits 1 Word 2, bit 0	-		Program . d must be			
		0000000C	00000001	3951+ORBLEN 3952+* Extend	EQU ed ORB		ngth of standar	d ORB					
200000C				3953+ORBCSS	DC	X'00'	Word 3, bits 0					ity	
000000D 000000E 000000E				3954+ORBRSV5 3955+ORBPGM 3956+ORBCU	DC DC DC	X'00' 0X'00' X'00'	Word 3, bits 8 Word 3, bits 10 Word 3, bits 10	6-23 -	Transpo	rt mode r	eserves	for pr	rogram
00000F	00 00000000 00000000			3957+ORBRSV6 3958+ORBRSV7	DC	X'00'	Word 3, bits 24 Words 4-7	4-31 -	reserve		zeros		
		00000000	00000001	3959+ORBXLEN	EOH	* OPP Lo	ngth of extended						

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LOC	OBJECT C	ODE	ADDR1	ADDR2	STMT								
					3962 ******* 3963 * 3964 ******	IRB DS	SECT						
00000C	00000000 00 00000000 00 00000000 00	000000 000000	00000010	00000001	3966 3968+IRB 3969+IRBSCSW 3970+IRBESW 3971+IRBECW 3972+IRBL	DSECT DC DC DC	XL12'00' XL20'00'	tion Words 0-2 - Words 3-7 - Words 8-15	Subchanne Extended	l Status Wo Status Word		ed by DS	ECT S
0000040	00000000 00	000000			3973+IRBEMW	DC	XL32'00'	Words 16-23		d Measureme	nt Word		
			00000060	00000001	3974+IRBXL	EQU	*-IRB	Extended IR	B Length				

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1.00	OBJECT CODE	ADDD1 ADDD2	CTMT			
LOC	OBJECT CODE	ADDR1 ADDR2	STMT			
			3977 ******	*****	*****	*************
			3978 *	SCSW	DSECT	
			3979 ******	*****	*****	*************
			3981	DSECT	S NAME=	=SCSM
			3983+SCSW		Subcha	
00000000	00		3984+SCSWFLA		X'00'	Flags
		000000F0 000000	01 3985+SCSWKEY	M EQU	X'F0'	Storage Key Mask of subchannel storage key
			01 3986+SCSWSUS		X'08'	Suspend Control
			01 3987+SCSWESW		X'04'	Extended Status Word Format
			01 3988+SCSWDCC		X'03'	Deferred condiont code mask
			01 3989+SCSWDCC		X'00'	Normal I/O interruption
			01 3990+SCSWDCC		X'01'	Deferred condition code is 1
		00000003 000000	01 3991+SCSWDCC	3 EQU	X'03'	Deferred condition code is 3
00000001	00		3993+SCSWCTL	S DC	X'00'	General Controls
		00000080 000000	01 3994+SCSWCCW		X'80'	CCW Format control when
			01 3995+SCSWCCW		X'40'	CCW Prefetch Control
			01 3996+SCSWISI		X'20'	Initial-Status-Interruption Control
		00000010 000000	01 3997+SCSWALK	C EQU	X'10'	Address-Limit-Checking Control
		00000008 000000	01 3998+SCSWSSI	C EQU	X'08'	Suppress suspended interruption
			01 3999+SCSW0CC		X'04'	Zero-Condition Code
			01 4000+SCSWECW		X'02'	Extended Control Word control
		00000001 000000	01 4001+SCSWPNO	P EQU	X'01'	Path Not Operational
00000002	99		4003+SCSW1	DC	X'00'	Control Byte 1
00000002	00	00000070 000000		EQU	X'70'	Functional Control Mask
			01 4005+SCSWFS	EQU	X'40'	Function Control - Start Function
			01 4006+SCSWFH	EQU	X'20'	Function Control - Halt Function
		00000010 000000	01 4007+SCSWFC	EQU	X'10'	Function Control - Clear Function
		00000008 000000	01 4008+SCSWARP		X'08'	Activity Control - Resume pending
			01 4009+SCSWASP		X'04'	Activity Control - Start pending
			01 4010+SCSWAHP		X'02'	Activity Control - Halt pending
		00000001 000000	01 4011+SCSWACP	-	X'01'	Activity Control - Clear pending
00000003	00		4012+SCSW2	DC	X'00'	Control Byte 2
		00000080 000000		•	X'80'	Activity Control - Subchannel Active
			01 4014+SCSWADA		X'40'	Activity Control - Device Active
			01 4015+SCSWASU 01 4016+SCSWSAS		X'20' X'10'	Activity Control - Suspended Status Control - Alert Status
			01 4016+3C3W3A3 01 4017+SCSWSIN		X'08'	Status Control - Alert Status Status Control - Intermediate Status
			01 4017+3C3W31N 01 4018+SCSWSPR		X'04'	Status Control - Intermediate Status Status Control - Primary Status
			01 4010+3C3W3FR		X'02'	Status Control - Secondary Status
		00000001 000000			X'01'	Status Control - Status Pending
00000004	00000000		4022+SCSWCCW	DC	A(0)	CCW Address
00000008	99		4024+SCSWUS	DC	X'00'	Unit Status
3000000		00000080 000000			X'80'	Attention
			01 4025+3C3WATT	EQU	X'40'	Status modifier
			01 4020+3C3W3N		X'20'	Control-unit end
			01 4028+SCSWBUS		X'10'	Busy
			01 4029+SCSWCE	EQU	X'08'	Channel end
			<del>-</del>	<b>C</b> =	-	

LOC	ASMA Ver.	0.2.0		CCW Inco	rrect Length S	uppres	ssion Test	02	Nov	2017	20:16:21	Page	19
00000002	LOC	OBJECT CODE	ADDR1	ADDR2	STMT								
00000080         00000001         4035+SCSWPCI         EQU         X'80'         Program-controlled interruption           00000040         00000001         4036+SCSWIL         EQU         X'40'         Incorrect length           00000020         00000001         4037+SCSWPRGM         EQU         X'20'         Program check           00000010         00000001         4038+SCSWPROT         EQU         X'10'         Protection Check           00000008         00000001         4039+SCSWCDAT         EQU         X'08'         Channel-data check           00000004         00000001         4040+SCSWCCTL         EQU         X'04'         Channel-control check           00000000         00000001         4041+SCSWCHNG         EQU         X'02'         Interface-control check           00000000         00000001         4042+SCSWCNT         DC         H'0'         Residual         CCW         Count			00000002	00000001	4031+SCSWUC 4032+SCSWUX	EQU EQU	X'02' X'01'	Unit check Unit exception					
	30000009 	00	00000040 00000020 00000010 00000008 00000004 00000002	00000001 00000001 00000001 00000001 000000	4035+SCSWPCI 4036+SCSWIL 4037+SCSWPRGM 4038+SCSWPROT 4039+SCSWCDAT 4040+SCSWCCTL 4041+SCSWICTL	EQU EQU EQU EQU EQU EQU	X'80' X'40' X'20' X'10' X'08' X'04' X'02'	Program-controlled inte Incorrect length Program check Protection Check Channel-data check Channel-control check Interface-control check		ion			
	000000A	0000	0000000C	00000001				Residual CCW count					

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LOC	OBJECT CODE			STMT	J -	.,			-
	333261 6002	, I DILL				(othe	r DSECTS needed by SA	**************************************	
				4052		DSECT	S PRINT=OFF,NAME=(ASA	.SCHIB.CCW0.CCW1.CSW)	
				4032		DSECT	J TRINT-OTT, NAME-(ASA	, senit b, ceno, cent, esn/	
				4328		PRINT	ON		
				4220 %		ale ale ale ale ale			
				4331 *		Regis	**************************************		
				4332 **	*****	*****	******	************	
			00000001 00000001	4334 R6 4335 R1		EQU EQU	0 1		
		00000002 0	0000001	4336 R2	2	EQU	2		
			0000001	4338 R4	1	EQU EQU	4		
				4339 R5 4340 R6		EQU EQU	5 6		
		00000007 0	0000001	4341 R7	7	EQU	7		
			00000001	4342 R8 4343 R9	3 9	EQU EQU	8 9		
		000000A 0	0000001	4344 R1 4345 R1	L0	EQU EQU	10 11		
		0000000C 0	0000001	4346 R1	L2	EQU	12		
				4347 R1 4348 R1		EQU EQU	13 14		
				4349 R1		EQU	15		
				4351		END			
						_,,,,			

SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFER	ENCES											
SA	4	000000	512	4056	3580	4404	44.40	44.40	4467	4474	4400	4404	44.00	4404	4044		
SBEGIN	U	000000	1	4057	4062	4104	4140	4149	4167	41/4	4180	4184	4188	4194	4211		
SEND	U	000200	1	4210	4211												
SLENGTH	U	000200	1	4211													
ADRSLT	Χ	000810	4	3876	3644												
CEXTCOD	Н	00001A	2	4074													
CIOCOD	Н	00003A	2	4082													
CMCKCOD	Н	000032	2	4080													
CPGMCOD	Н	00002A	2	4078													
CSVCCOD	Н	000022	2	4076													
BEGIN	T	000200	2	3586	3555	3581											
AW	F	000048	4	4086	5555	3301											
AWADDR	R	000049	3	4089													
AWKEY	X	000043	1	4087													
CAWSUSP	Û	000048	1	4088													
	4	000000	O T		<b>//</b> 221												
CW0	-		8	4215	4221												
CWOADDR	R	000001	3	4217													
CWOCNT	Н	000006	2	4220													
CWOCODE	X	000000	1	4216													
CWOFLGS	X	000004	1	4218													
CW0L	U	800000	1	4221													
CW1	4	000000	8	4233	4238												
CCW1ADDR	Α	000004	4	4237													
CCW1CNT	Н	000002	2	4236													
CW1CODE	Χ	000000	1	4234													
CW1FLGS	Χ	000001	1	4235													
CCW1L	U	800000	1	4238													
CCWCC	U	000040	1	4225													
CCWCD	Ū	000080	1	4224													
CCWIDA	Ū	000004	1	4229													
CWILS	j	000000	4096	3519	3522	3529	3543	3554	3556	3855	3865	3879					
CWPCI	Ü	000008	1	4228	3322	3323	2242	JJJ4	3330	5055	5005	3073					
CCWSKIP	U	000010	1	4227													
CWSLI	_	000010	1	4226													
	U		1														
CWSUSP	Ū	000002	Ţ	4230													
CHANID	F	8A0000	4 4 4 4 4 4	4141													
ODE	2	000000	4096	3519													
PUID	Ū	00031B	1	4213													
SW	F	000040	8	4085													
SWATTN	U	000080	1	4255													
SWBUSY	U	000010	1	4258													
SWCCTL	U	000004	1	4270													
SWCCW	R	000001	3	4252													
SWCDAT	U	800000	1	4269													
SWCE	U	000008	1	4259	3803												
SWCHNG	U	000001	1	4272													
SWCNT	Н	000006	2	4274													
SWCS	X	000005	1	4264													
SWCUE	Û	000020	1	4257													
SWDCC0	Ü	000020	1	4248													
SWDCC1	Ü	000001	1	4249													
SWDCC3	U	000001	1	4259													
1 mm 1 / 1 1 1 1	U	כששששש	1	4230													

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SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFER	ENCES									
SWDCCM	U	000003	1	4247											
SWDE	U	000004	1	4260	3803										
SWFLAG	Χ	000000	1	4242											
SWFMT	4	000000	8	4241	4275										
SWFMTL	U	000008	1	4275											
SWICTL	Ū	000002	1	4271											
SWIL	Ü	000040	1	4266											
SWKEYM	Ü	0000F0	1	4243											
SWLOG	Ü	000004	1	4246											
SWPCI	Ü	000080	1	4265											
SWPRGM	Ü	000020	1	4267											
CSWPROT	U	000010	1	4268											
CSWSM	Ü	000010	1	4256											
CSWSUSP		000040	1	4245											
SWUC	U	000002	1	4245											
		000002	1	4251											
SWUS	X		1												
CSWUX	U	000001	_	4262	2607										
DWAT0009	3	000300	8	3698	3697										
DWAT0010	3	000310	8	3703	3702										
DWAT0011	3	000320	8	3708	3707										
DWAT0012	3	000330	8	3713	3712										
NADEV	Ī	000346	4	3731	3686										
NAOKAY	I	000398	2	3756	3745										
<b>E</b> 0J	Н	0002F8	2	3696	3598										
EXCP	I	00039A	4	3762	3613	3637	3661								
EXTCPUAD	Н	000084	2	4106											
EXTICODE	Н	000086	2	4107											
EXTIPARM	F	000080	4	4105											
EXTNPSW	F	000058	8	4095											
EXTOPSW	F	000018	8	4067	4073										
FAILDEV	Н	000308	2	3701	3736		3751								
FAILIO	Н	000318	2	3706	3771	3794	3804								
FAILTEST	Н	000328	2	3711	3621	3645	3669								
IND0014	Α	000390	4	3753											
INL0014	Н	000350	2	3734	3750										
INM0014	Α	000394	4	3754	3749										
INN0014	Н	00037E	2	3747	3738	3740									
GOODRSLT	Χ	000808	4	3873	3620	3668									
HEX500	Ü	000500	1	3847	3855	3859									
IIRB0017	F	000474	4	3829	3827	3828									
IMAGE	1	000000	4096	0		-									
INIT	H	0002DA	2		3590										
IOCB	4	000000	48	3889	3913	3582									
OCBCAW	Α	000018	4	3909											
OCBCM	X	000009	1	3897											
OCBCS	X	00000B	$\bar{\overline{1}}$	3900											
OCBCT	Χ	00000D	<u></u>	3902											
IOCBDEV	H	000004	2	3894	3739										
IOCBDID	F	000000	4	3891	3742	3767									
IOCBDV	H	000002	2	3893	J,	5,0,									
IOCBIRB	A	000002	8	3911	3680	3772									
IOCBL	Ü	000020	1	3913	2000	J112									
	U			ンフェン											

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SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFER	ENCES									
OCBORB	Α	000018	8	3910	3679	3769									
						3709									
IOCBRCNT	Н	000016	2	3908	3801	2706	2700								
IOCBSC	X	00000E	1	3903	3765	3796	3/98								
IOCBSCCW	Α	000010	4	3905	3800										
IOCBSCNT	F	000014	4	3906											
IOCBSIB	Α	000028	8	3912	3732										
IOCBST	Н	00000A	2	3898	3766	3797									
IOCBUM	Χ	800000	1	3896											
IOCBUS	X	00000A	1	3899	3803										
IOCBUT	X	00000C	1	3901	3003										
IOCBWAIT		00000C	1	3904											
	X				2766										
IOCBZERO	H	000006	2	3895	3766										
IOCB_390	A	000444	4	3815	3678										
IOELADDR	F	0000AC	4	4142											
IOICODE	Н	0000BA	2	4147											
IOIID	F	0000C0	4	4152											
IOINIT	I	000338	4	3720	3685										
IOIPARM	F	0000BC	4	4151											
IOMK0013	F	000340	4	3722	3720	3721									
ION0016	Ü	0003E0	16	3782	3779										
IONPSW	F	000078	8	4099	3113										
IOOPSW		000078	8	4071	4081										
IORB0017	, , , , , , , , , , , , , , , , , , ,	000038 0004D4	12	3831	3826										
	X					2706									
IOS0016	X	0003F0	16	3783	3778	3786									
IOSSID	F	0000B8	4	4150	3789	2702	2700								
IOWT0015	H	0003C0	2	3776	3790	3793	3/99								
IPLCCW1	F	800000	8	4059											
IPLCCW2	F	000010	8	4060											
IPLPSW	F	000000	8	4058											
IRB	4	000000	96	3968	3972	3974	3681	3773							
IRBECW	Χ	000020	32	3971											
IRBEMW	Χ	000040	32	3973											
IRBESW	X	00000C	20	3970											
IRBL	Û	000040	1	3972											
IRBSCSW	X	000040	12	3969	3682	3796	3797	3800	3801						
IRBXL	Û	000060	1	3974	2002	5790	2131	2000	200T						
					2702										
IRST0016	H	000400	2	3785	3782	2040									
K	Ū	000400	1	3845	3848	3849									
LCHANLOG	<b>⊢</b> -	0000B0	4	4143											
MCKLOG	F	000100	4	4175											
MCKNPSW	F	000070	8	4098											
MCKOPSW	F	000030	8	4070	4079										
MEASUREB	Χ	0000B9	1	4146											
MKARCHMD	X	0000A3	1	4134											
MKARS	F	000120	4	4173											
1KCLKCMP	F	000120 0000E0	8	4159											
MKCPUTIM	, E	0000L0	8	4158											
MKCRS	I E	0001C0	4	4178											
	r r		•												
MKDMGCOD	F	0000F4	4	4162											
MKFAILA	F -	0000F8	4	4164											
MKFPRS	D	000160	8	4176											
MKICODE	F	0000E8	4	4160											

Symbol   TyPe   Value   Lencth   Def N   References	ASMA Ver. 0.2.0							ngth Su	. PP1 C33	2011 10	. 5 C	02	201/	20:16:21	1 450	24
KNODEL F 0000FC 4 4165 KXSAA F 0000PA 4 4157 KXSAA F 0000PA 2 4122  ONCLOS H 0000PA 2 4122  ONCLOS F 0000PA 2 4124  ONCLOS F 0000PA 2 1 1414  KKSA F 0000PA 1 1414  ONCLOS F 0000PA 1 1412  ONCLOS F 000130 A 1417  ONCLOS F 0	SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFER	ENCES									
XXSAA F 000014 4 157 ONICLS H 0000914 2 4122 ONICLDE F 000095 4 1429 ONICLDE F 000095 4 1429 ONICLDE F 000095 1 4124 ONICLDE F 000096 1 4124  X 000096 1 1 4124  X 000097 1 000096 1 1 3859 OPPROG R 000180 1 1 3859 OPPROG R 000096 1 1 3856 OPPROG R	KLOGOUT	F	000100	4	4166											
KXSAA F 080004 4 4157 ONCLD F 08099C 4 4129 ONCLD F 08093P 1 4124  KGRS F 080180 4 4177 OPPROR R 080180 4 4177 OPPROR R 080800 1 3859 3612 3636 3660 OPPROR R 080800 1 3859 3612 3636 3660 OPPROR R 080800 1 3859 3612 3660 OPPROR R 080800 1 3851 3859 3680 OPPROR R 080800 1 3851 3859 3680 OPPROR R 080800 1 3851 3859 3680 OPPROR R 080800 1 3851 3850 3660 OPPROR R 080800 1 3851 3850 3660 OPPROR R 080800 1 3851 3850 3660 OPPROR R 080800 1 3856 3600 3630 3633 3654 3657 OPPROR R 080800 1 3856 3600 3600 3600 3600 3600 3600 3600 36	KMODEL	F	0000FC	4												
ONCLOS H 080094 2 4122 ONCLODE F 080095 1 4129 ONNUMBR X 080005 1 4137 KGRS F 080003 1 3557 KGRS F 080003 1 3557 KGRS F 0800003 1 3557 KGRS F 0800003 1 3557 KGR G G G G G G G G G G G G G G G G G G	IKXSAA		0000D4	4												
ONCODE																
ONNUMBR		F														
PGACCID   X   00000A2   1   4132   1132		Y														
NGRS				_												
OOP				_												
Image				4		2050										
NRB				1			2626	2660								
NRI																
RRI						3951	3959	3583								
NRAF U 000004 1 3935 NRBC U 000004 1 3937 NRBCC U 000008 4 3949 NRBCCS X 000005 1 3953 NRBCU X 000006 1 3953 NRBCU U 000008 1 3954 NRBCU U 000008 1 3936 NRBD U 000008 1 3938 NRBH U 000002 1 3938 NRBH U 000002 1 3938 NRBH U 000002 1 3938 NRBLU U 000002 1 3934 NRBLU U 000006 1 3944 NRBLEN U 000006 1 3944 NRBLEN U 000006 1 3944 NRBLEN U 000006 1 3954 NRBLEN U 000006 1 3954 NRBLEN U 000006 1 3958 NRBLEN U 000006 1 3958 NRBLEN U 000006 1 3946 NRBREN U 000006 1 3958 NRBREN U 000001 1 3938 NRBREN U 000001 1 3938 NRBREN U 000001 1 3958 NRBREN U 000001 1 3959 NRBREN U 000001 1																
NRBS U 000004 1 3937 NRBC U 000004 1 3927 NRBCCN A 000008 4 3949 3762 NRBCSS X 00000C 1 3953 NRBCU X 00000C 1 3953 NRBCU X 00000 1 3954 NRBCSS X 00000C 1 3954 NRBCSS X 00000C 1 3934 NRBCSS X 00000C 1 3935 NRBCS U 00002 1 3934 NRBCSS X 00000C 1 3955 NRBCS U 00000C 1 3951 NRBL U 00000C 1 3951 NRBL U 00000C 1 3951 NRBL W 0 00000C 1 3952 NRBCSS X 00000C 1 3953 NRBCSS X 00000C 1 3954 NRBCSS X 00000C 1 3955 NRBCSS X 00000C 1 3954 NRBCSS X 00000C 1 3955 NRBCSS X 00000C 1 3955 NRBCSS X 00000C 1 3956 NRBCS X 00000C 1 3957 NRBCS X 00000C 1 3956 NRBCS X 00000C 1				1		3606	3609	3630	3633	3654	3657					
REC U 00004 1 3927 RECCW A 000006 1 3954 RECCS X 00000C 1 3953 RECCW X 00000E 1 3956 RECCW X 00000E 1 3954 RECCW X 00000E 1 3955 RECCW X 00000E 1 3956 RECCW X 00000E 1 3957 RECCW X 00000E 1 3959 RECCW X 00000E 1 4136 RECCW X 0000E 1 4136 RECCW X 0000E 1 4136 RECCW X 0000E 1 4136 RECCW		U		1												
REC U 00004 1 3927 RECCW A 000006 1 3954 RECCS X 00000C 1 3953 RECCW X 00000E 1 3956 RECCW X 00000E 1 3954 RECCW X 00000E 1 3955 RECCW X 00000E 1 3956 RECCW X 00000E 1 3957 RECCW X 00000E 1 3959 RECCW X 00000E 1 4136 RECCW X 0000E 1 4136 RECCW X 0000E 1 4136 RECCW X 0000E 1 4136 RECCW	RBB		000004	1	3937											
NRBCCN				1												
NRECS   X   00000E				4		3762										
NRECU   X   000006																
NRBD				_												
RBF U 000000 1 3932 3609 3633 3657 RBH U 000002 1 3934 RBKEYM U 000000 1 3934 RBL U 000000 1 3934 RBL U 000000 1 3955 RBL U 000000 1 3951 RBLPM X 000000 1 3951 RBLPM X 000000 1 3938 RBLPM U 000000 1 3938 RBLPM U 000000 1 3938 RBPARM F 000000 1 3938 RBPARM F 000000 1 3955 RBRSV3 U 000000 1 3946 RBRSV5 U 00003 1 3946 RBRSV3 U 000000 1 3954 RBRSV5 X 000000 1 3957 RBRSV5 X 000000 1 3954 RBRSV6 X 000000 1 3954 RBRSV7 X 000001 16 3958 RBRSV U 000000 1 3956				_												
NRBH				1		3600	2622	2657								
IRBI U 000020 1 3934 IRBKYM U 0000F0 1 3952 IRBL U 00000C 1 3951 IRBL U 00000C 1 3958 IRBL U 00000C 1 3958 IRBPM U 00000C 1 3958 IRBPM U 00000C 1 3958 IRBPM F 00000C 1 3955 IRBPM F 00000C 1 3955 IRBPM F 00000C 1 3955 IRBPM I 00000C 1 3956 IRBRSV25 U 00007F 1 3945 IRBRSV4 U 00000C 1 3950 IRBRSV4 U 00000C 1 3950 IRBRSV5 X 00000C 1 3950 IRBRSV6 X 00000C 1 3958 IRBRSV6 X 00000C 1 3958 IRBRSV7 X 00000C 1 3958 IRBRSV7 X 00000C 1 3958 IRBRSV7 X 00000C 1 3959 IRBR U 0000C 1 3959 IRBR U 000C 1 3959 IRBR U 0000C 1 3959 IRBR U 0000C 1 3959 IRBR U 0000C 1 3959				1		3003	3033	3037								
RBKEYM				_												
NRBLEN U 000080 1 3951 NRBLEN U 00000C 1 3951 NRBLEN U 00000C 1 3958 NRBLEN U 00000C 1 3958 NRBP U 00000 4 3952 NRBPGM F 000000 4 3955 NRBPGM X 00000E 1 3958 NRBPGM X 00000E 1 3958 NRBRSV25 U 00007E 1 3945 NRBRSV26 U 00007E 1 3945 NRBRSV3 U 00007F 1 3945 NRBRSV4 U 000080 1 3950 NRBRSV4 U 000080 1 3954 NRBRSV5 X 00000F 1 3957 NRBRSV6 X 00000F 1 3957 NRBRSV6 X 00000F 1 3957 NRBRSV7 X 000010 16 3958 NRBRSV6 X 00000F 1 3958 NRBRSV7 X 000001 1 3939 NRBRSV U 000008 1 3936 NRBRSV U 000008 1 3936 NRBRSV U 000008 1 3956 NRBRSV U 000008 1 3958 NRBRSV U 000008 1 3959 NRBRSV U 000008 1 4128 NRBRSV U 000096 1 4128 NRBRSV U 0000960 1 4128 NRBRSV U 000096 1 4128 NRBRSV U 0000960 1 4128 NRBRSV U 000096 1 4128 NRBRSV U 000096 1 4128 NRBRSV U				1												
DRBLEN U 00000C 1 3951  DRBLPM X 00000C 1 3940  DRBN U 000002 1 3928  DRBP U 000000 1 3933  DRBPARM F 000000 1 3933  DRBPGM X 00000E 1 3955  DRBPSWS V 00000F 1 3945  DRBRSV25 U 00007F 1 3945  DRBRSV3 U 00007F 1 3943  DRBRSV3 U 00007F 1 3950  DRBRSV5 X 00000D 1 3954  DRBRSV5 X 00000F 1 3957  DRBRSV6 X 00000F 1 3957  DRBRSV6 X 00000F 1 3958  DRBRSV6 X 00000F 1 3958  DRBRSV6 X 00000F 1 3936  DRBRSV U 000008 1 3936  DRBR U 000001 1 3947  DRBR DRBR U 0000001 1 3947  DRBR DRBR U 0000000 1 3947  DRBR DRBR U 000000 1 3947  DRBR DRBR U 0000000 1 3947  DRBR DRBR U 00000000 1 3947  DRBR DRBR U 0000000 1 3947  DRBR DRBR U 00000000 1 3947  DRBR DRBR U 0000000000000000				1												
NRBLY				_		3610	3634	3658								
NRBM				1												
DRBP		X		1												
DRBPARM F 00000 4 3922 DRBPGM X 0000E 1 3955 DRBPSV25 U 0000TE 1 3946 DRBRSV26 U 00003E 1 3945 DRBRSV3 U 0000F 1 3943 DRBRSV4 U 000080 1 3950 DRBRSV5 X 00000F 1 3954 DRBRSV5 X 00000F 1 3954 DRBRSV6 X 00000F 1 3957 DRBRSV7 X 000010 16 3958 DRBS U 00008 1 3936 DRBS U 00008 1 3936 DRBS U 00008 1 3936 DRBS U 000008 1 3936 DRBX U 000001 1 3939 DRBY U 000001 1 3959 DRBY U 000001 1 3959 DRBY U 000001 1 3959 DRBY U 000001 1 3929 DRRB1 24 X 000007 1 3941 DRRB1 24 X 000007 1 3941 DRRB 24 X 000007 1 4131 DERACCID X 00006 1 4125 DERACODE X 00006 1 4125 DERCODE X 00006 1 4126 DERCODMK U 000060 1 4136	)RBM	U	000002	1	3928											
DRBPGM X 0000E 1 3945 DRBRSV25 U 00007E 1 3946 DRBRSV36 U 00007F 1 3943 DRBRSV3 U 00007F 1 3959 DRBRSV4 U 000080 1 3950 DRBRSV5 X 00000D 1 3954 DRBRSV6 X 00000F 1 3957 DRBRSV6 X 00000B 1 3958 DRBRSV7 X 000001 16 3958 DRBRSV7 X 000001 1 3939 DRBS U 000008 1 3936 DRBU U 000001 1 3939 DRBU U 000001 1 3947 DRBX U 000001 1 3947 DRBX U 000001 1 3959 DRBY U 000001 1 3959 DRBY U 000001 1 3929 DRBY U 000001 1 3941	)RBP	U	000040	1	3933											
DRBPGM X 0000E 1 3945 DRBRSV25 U 00007E 1 3946 DRBRSV36 U 00007F 1 3943 DRBRSV4 U 000080 1 3950 DRBRSV5 X 00000D 1 3954 DRBRSV6 X 00000F 1 3957 DRBRSV6 X 00000B 1 3958 DRBRSV7 X 00000B 1 3958 DRBRSV7 X 00000B 1 3958 DRBRSV U 00000B 1 3938 DRBRSV U 00000B 1 3939 DRBRS U 00000B 1 3936 DRBR U 00000B 1 3936 DRBR U 00000B 1 3936 DRBR U 00000B 1 3947 DRBR U 00000B 1 3959 DRBY U 00000C 1 3959 DRRB 1 24 X 000007 1 3941 3607 3610 3631 3634 3655 3658 DCFETO A 0000C4 4 4153 DCFRACCID X 00009B 4 4128 DCFRCODE X 00009B 1 4126 DCFRCODE X 000000 1 4126 DCFRCODE X 000000 1 4126 DCFRCCODMK U 000000 1 4126	DRBPARM	F	000000	4	3922											
DRBRSV25 U 00007E 1 3946 DRBRSV3 U 00007F 1 3943 DRBRSV4 U 000080 1 3950 DRBRSV4 U 00000D 1 3954 DRBRSV5 X 00000D 1 3957 DRBRSV7 X 000010 16 3958 DRBS U 00000B 1 3936 DRBT U 00000B 1 3939 DRBS U 00000B 1 3939 DRBS U 00000B 1 3939 DRBU U 00000B 1 3936 DRBX U 00000B 1 3947 DRBU U 000001 1 3947 DRBX U 000001 1 3947 DRBX U 000001 1 3959 DRBX U 000001 1 3959 DRBX U 000001 1 3959 DRBY U 000001 1 3941 3607 3610 3631 3634 3655 3658 DEFROCTO A 000004 1 4131 DEFRACTO X 000001 1 4125 DEFRADDR F 00009B 4 4128 DEFRCODE X 000000 1 4136				1												
DRBRSV26 U 00003E 1 3945 DRBRSV4 U 000080 1 3950 DRBRSV5 X 00000D 1 3954 DRBRSV6 X 00000F 1 3958 DRBRSV7 X 000010 16 3958 DRBRSV U 000008 1 3926 DRBS U 000008 1 3936 DRBT U 000008 1 3936 DRBT U 000001 1 3939 DRBU U 000008 1 3947 DRBX U 000001 1 3947 DRBX U 000001 1 3947 DRBX U 000001 1 3959 DRBY U 000001 1 3947 DRBY U 000001 1 3940 DRBY U 000001 1 3941 DRBY U 000001 1 3941 DRBY U 000001 1 4153 DERACCID X 00000A1 1 4131 DERACCID X 00000A0 1 4126 DERCODE X 0000A0 1 4126 DERCODMK U 0000F0 1 4126 DERCCODMK U 0000F0 1 4126 DERCCODMK U 0000F0 1 4126				1												
DRBRSV3 U 00007F 1 3943 DRBRSV5 X 00000D 1 3954 DRBRSV6 X 00000F 1 3957 DRBRSV7 X 000010 16 3958 DRBSS U 00000B 1 3939 DRBS U 00000B 1 3939 DRBS U 00000B 1 3939 DRBU U 00000B 1 3939 DRBX U 000001 1 3947 DRBX U 000001 1 3959 DRBX U 000001 1 3959 DRBX U 000001 1 3929 DRBX U 000001 1 3929 DRBX U 000001 1 3929 DRBY U 000001 1 3929 DRBY U 000001 1 3929 DRBY U 000001 1 3941 DRBY U 000001 1 3929 DRBY U 000001 1 3941 DRBY U 000001 DR																
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DRBRSV5 X 00000F 1 3954 DRBRSV7 X 00000F 1 3957 DRBRSV7 X 000010 16 3958 DRBS U 000008 1 3926 DRBT U 000008 1 3939 DRBU U 000008 1 3936 DRBX U 000008 1 3947 DRBX U 000001 1 3947 DRBX U 000001 1 3959 DRBY U 000001 1 3929 DRBY U 000001 1 3929 DRBY U 000001 1 3929 DRBY U 000007 1 3941 3607 3610 3631 3634 3655 3658 DCFETO A 0000C4 4 4153 DCFRACCID X 0000A1 1 4131 DCFRADDR F 000098 4 4128 DCFRCODE X 0000F0 1 4125 DCFRCODMK U 0000F0 1 4126 DCFRACCID X 0000A0 1 4130				1												
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DRBS U 000008 1 3936 DRBT U 000001 1 3939 DRBU U 000008 1 3936 DRBX U 000001 1 3947 DRBXLEN U 000020 1 3959 DRBY U 000001 1 3929 DRRB1_24 X 000007 1 3941 3607 3610 3631 3634 3655 3658 DCFETO A 0000C4 4 4153 DCFRACCID X 0000A1 1 4131 DCFRADDR F 000098 4 4128 DCFRCODE X 0000F0 1 4125 DCFRCODMK U 0000F0 1 4126 DCFRACCID X 0000A0 1 4130				-												
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DRBU U 000008 1 3936  DRBX U 000001 1 3947  DRBXLEN U 000020 1 3959  DRBY U 000001 1 3929  DRFS1_24 X 000007 1 3941 3607 3610 3631 3634 3655 3658  PCFETO A 0000C4 4 4153  PCERACCID X 000008 4 4128  PCERADDR F 000098 4 4128  PCERCODE X 000096 1 4125  PCERCODHK U 0000F0 1 4126  PCERCODMK U 0000A0 1 4130				1												
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DRBXLEN U 000020 1 3959 DRBY U 000001 1 3929 DRRB1_24 X 000007 1 3941 3607 3610 3631 3634 3655 3658 DEFETO A 0000C4 4 4153 DEFRACCID X 0000A1 1 4131 DEFRADDR F 000098 4 4128 DEFRCODE X 000096 1 4125 DEFRCODE X 0000F0 1 4126 DEFRCODMK U 0000F0 1 4130		U		1												
DRBXLEN U 000020 1 3959 DRBY U 000001 1 3929 DRRB1_24 X 000007 1 3941 3607 3610 3631 3634 3655 3658 DEFETO A 0000C4 4 4153 DEFRACCID X 0000A1 1 4131 DEFRADDR F 000098 4 4128 DEFRCODE X 000096 1 4125 DEFRCODE X 0000F0 1 4126 DEFRCODMK U 0000F0 1 4130	IRBX	U	000001	1												
DRBY U 000001 1 3929  DRRB1_24 X 000007 1 3941 3607 3610 3631 3634 3655 3658  DCFETO A 0000C4 4 4153  DERACCID X 0000A1 1 4131  DERADDR F 000098 4 4128  DERCODE X 000096 1 4125  DERCODMK U 0000F0 1 4126  DERMACCID X 0000A0 1 4130		U		1												
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PERACCID X 0000A1 1 4131 PERADDR F 000098 4 4128 PERCODE X 000096 1 4125 PERCODMK U 0000F0 1 4126 PERCOLD X 0000A0 1 4130		_		1		5007	2010	5051	2027		5050					
PERADDR F 000098 4 4128 PERCODE X 000096 1 4125 PERCODMK U 0000F0 1 4126 PGMACCID X 0000A0 1 4130		Ÿ		1												
PERCODE X 000096 1 4125 PERCODMK U 0000F0 1 4126 PGMACCID X 0000A0 1 4130		^		1												
PERCODMK U 0000F0 1 4126 PGMACCID X 0000A0 1 4130		F		4												
PGMACCID X 0000A0 1 4130				1												
				1												
CUDVC F 000000 4 4400				1												
GMDXC F 000090 4 4120	PGMDXC	F	000090	4	4120											

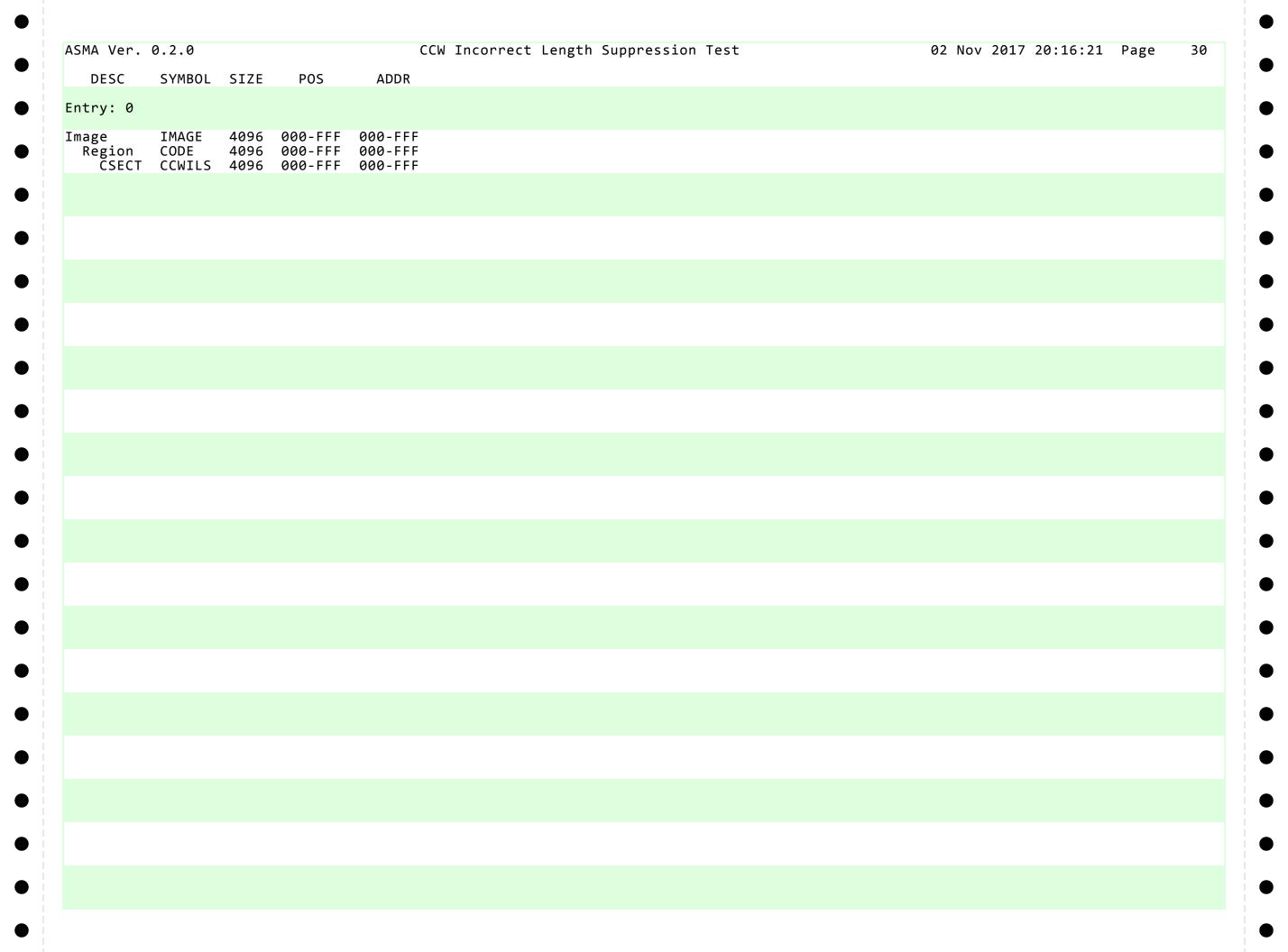
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SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFER	ENCES												
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GMIID	F	00008C	4	4115														
GMIILC	Χ	00008D	1	4117														
GMIILCM	U	00000C	1	4118														
GMNPSW	F	000068	8	4097														
MOPSW	F	000028	8	4069	4077													
MTRX	Ė	000020	4	4121	70//													
	, V	000004		4282														
1CW1_0	X		1		2727	2742												
1CW1_8	X	000005	1	4285	3737	3743												
1CWB	U	000004	1	4317														
1CWCHP0	X	000010	1	4306														
1CWCHP1	X	000011	1	4307														
1CWCHP2	Χ	000012	1	4308														
1CWCHP3	Χ	000013	1	4309														
1CWCHP4	Χ	000014	1	4310														
1CWCHP5	Χ	000015	1	4311														
1CWCHP6	X	000016	$\bar{1}$	4312														
1CWCHP7	X	000017	1	4313														
1CWDNUM	Ĥ	000006	2	4297	3739													
1CWE	Ü	000080	1	4286	3743													
1CWEXC	X	00001B	1	4316	3/43													
	^		1															
1CWIP	F	000000	4	4281														
1CWISCM	U	000038	1	4283														
1CWLM	U	000060	1	4287														
1CWLMG	U	000020	1	4288														
1CWLML	U	000040	1	4289														
1CWLPM	X	800000	1	4299														
1CWLPUM	Χ	00000A	1	4301														
1CWM	U	000004	1	4293														
1CWMBI	Н	00000C	2	4303														
1CWMM	Ü	000018	1	4290														
1CWMMC	Ü	000008	1	4292														
1CWMME	Ü	000010	1	4291														
1CWPAM	X	000010 00000F	1	4305														
		00000B	1															
1CWPIM	X		1	4302														
1CWPNOM	X	000009	1	4300														
1CWPOM	X	00000E	1	4304														
1CWRES1	X	000018	4	4314														
1CWRES2	X	000018	3	4315														
1CWS	U	000001	1	4319														
ICWT	U	000002	1	4294														
1CWV	U	000001	1	4295	3737													
1CWX	U	000002	1	4318														
EVORG	U	000200	1	3542	3546													
)	Ü	000000	1	4334	3580	3612	3636	3660	3762									
•	Ũ	000001	1	4335														
.0	ii	000001 00000A	1	4344														
10	U U	00000A	1	4345														
	11	00000C	1															
12	U		1	4346														
L3	U	00000D	1	4347	2500	2504	2505	2506	2622	2646	2670	2600						
L4	U	00000E	1	4348	3590	3594		3596		3646	3670	3688	2701	2754	200-			
15	U	00000F	1	4349	3613	3637	3661	3680	3681	3683	3685	3686	3/24	3/56	3807			

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SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFER	ENCES							
2	U	000002	1	4336			3587	3588					
3	U	000003	1	4337	3582	3678							
4	U	000004	1	4338									
5	U	000005	1	4339									
6	U	000006	1	4340									
7	U	000007	1	4341									
8	U	000008	1	4342	3583	3679							
9	U	000009	1	4343	3584	3682							
ESLTADR	U	00800	1	3848	3865								
STNPSW	F	000000	8	4063									
RSTOPSW	F	000008	8	4064									
CANOUT	Χ	000080	1	4101	4102								
CANOUTL	U	000000	1	4102									
CHIB	4	000000	52	4278	4325	3733							
CHIBL	U	000034	1	4325									
СНМВА	Ā	000028	8	4323									
CHMDA1	X	000030	4	4324									
CHMDA3	X	000028	12	4322									
CHPMCW	Χ	000000	28	4280									
CHSCSW	Χ	00001C	12	4321									
CSW	4	000000	12	3983	4045	3584							
CSW0CC	Ú	000004	1	3999									
CSW1	X	000002	$\bar{1}$	4003									
CSW2	X	000003	1	4012	3796								
CSWACP	Û	000001	$\bar{1}$	4011									
CSWADA	Ü	000040	1	4014									
CSWAHP	Ü	000002	1	4010									
SCSWALKC	Ü	000010		3997									
SCSWARP	Ü	000008	1	4008									
SCSWASA	Ü	000080	1	4013									
SCSWASP	Ü	000004	1	4009									
SCSWASUS	Ŭ	000020	1	4015									
SCSWATTN	Ü	000080	1	4025									
SCSWBUSY	Ŭ	000010	1	4028									
CSWCCTL	Ü	000010	1	4040									
CSWCCW	A	000004	4	4022	3615	3639	3663	3800					
CSWCCWF	Ü	000004	1	3994	5015		5005	5000					
SCSWCCWP	Ü	000040	1	3995									
CSWCDAT	U	000040	1	4039									
CSWCE	U	000008	1	4029	3874	3877							
CSWCHNG	U	0000001	1	4042	JU/ <del>4</del>	5077							
SCSWCNT	Н	000001 A00000	2	4044	3618	3642	3666	3801					
CSWCS	X	000000	1	4034	3617	3641		JUU1					
CSWCTLS	X	000003	1	3993	5017	2041	5005						
CSWCUE	Û	000001	1	4027									
CSWDCC0	U	000020	1	3989									
CSWDCC1	U	000000	1	3999									
CSWDCC3	U	000001	1	3990									
CSWDCCM		000003	1	3988									
	U		1		2074	2077							
CSWDE	U	000004	1	4030	3874	30//							
SCSWECWC SCSWESWF	U	000002	1	4000									
	U	000004	1	3987									

CVMDOL	T\/D.E	\/A  !!F	LENGTH	DEEN	DE	FNCEC					Page	
SYMBOL	TYPE	VALUE	LENGTH	DEFN	KEFEK	ENCES						
CSWFC	U	000010	1	4007								
SWFH	U	000020	1	4006								
SWFLAG	Χ	000000	1	3984								
SWFM	U	000070	1	4004								
SWFS	U	000040	1	4005								
SWICTL	U	000002	1	4041								
SWIL	U	000040	1	4036	3877							
SWISIC	U	000020	1	3996								
SWKEYM	U	0000F0	1	3985								
SWL	U	00000C	1	4045								
SWPCI	U	000080	1	4035								
SWPNOP	Ü	000001	1	4001								
SWPRGM	Ū	000020	1	4037								
SWPROT	Ü	000010	1	4038								
SWSAS	Ü	000010	1	4016								
SWSINT	Ü	000008	$\bar{1}$	4017								
SWSM	Ü	000040	1	4026								
SWSPEN	Ü	000001	1	4020								
SWSPRI	Ü	000004	1	4018	3798							
SWSSEC	Ü	000002	1	4019	3,30							
CSWSSIC	Ü	000008	1	3998								
SWSUSC	Ü	000008	1	3986								
SWUC	Ŭ	000002	1	4031								
SWUS	X	000002	1	4024	3616	3640	3664	3797				
SWUX	ΰ	000001	1	4032	3010	3040	3004	3737				
SARCHMD	X	000001	1	4133								
SARS	F	000120	4	4189								
SCLKCMP	F	000120 0000E0	8	4183								
SCPUTIM	F	0000D8	8	4182								
SCRS	F	0001C0	4	4192								
SFPRS	Ď	000160	8	4190								
SGRS	F	000180	4	4191								
SMODEL	F	00010C	4	4187								
SPREFIX	<u>'</u>	000108	4	4186								
SPSW	<u>'</u>	000100	8	4185								
SXSAA	Λ	000100 0000D4	4	4181								
TFLDATA	E	0000D4 0000C8	4	4154								
/CICODE	Н	0000C8	2	4113								
/CIID		00008A	4	4113								
/CIILC	Г <b>У</b>	000089	4	4109								
/CIILCM	^	00000S	1 1	4111								
/CNPSW	U	000060	8	4096								
		000020	8	4096	1075							
/COPSW	F T				4075							
ST01	T	00021A	4		3594							
ST02	<u>+</u>	00025A	4	3628	3595							
ST03	1	00029A	4	3652								
STADDR	U	000FFF	1	3849	3879	2620	2662					
ESTCCWA	A	00800	4	3868	3615	3639	3663					
ESTCS	X	000805	1	3870	3617	3641	3665					
ESTNUM	X	000FFF	1	3881	3604	3628	3652					
ESTRES	H	000806	2	3871	3618	3642	3666					
ESTRSLT	Х	008800	8	3867	3620	3644	3668					

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SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFER	ENCES				
ESTUS	Х	000804	1	3869	3616	3640	3664			
IMER	F	000050	4	4092						
TDES	F	000054	4	4093						
IA0	F	000010	8	4065						
JA1	F	00004C	4	4090						
IA2	F	0000A4	4	4135						
IA3	F	0000B4	4	4144						
JA4	Χ	0000B8	1	4145						
IA5	X	0000CC	8	4155						
IA6	Χ	0000EC	8	4161						
IA7	F	000118	8	4172						
IA8	X	000180	32	4201						
IPSW0016	U	0003D0	16	3781	3780					
'BRKADDR	Α	000110	8	4171						
EMONCNT	F	00010C	4	4170						
ZEMONCTR	Α	000100	8	4168						
ZEMONSIZ	F	000108	4	4169						
'EXTNPSW	Χ	0001B0	16	4204						
ZEXTOPSW	Χ	000130	16	4196						
ZIONPSW	Χ	0001F0	16	4208						
ZIOOPSW	Χ	000170	16	4200						
MCKNPSW	Χ	0001E0	16	4207						
MCKOPSW	Χ	000160	16	4199						
MKFAILA	F	0000F8	8	4163						
MONCODE	F	0000B0	8	4138						
ZPGMNPSW	Χ	0001D0	16	4206						
ZPGMOPSW	Χ	000150	16	4198						
PGMTRX.	F	8A0000	8	4137						
RSTNPSW	Χ	0001A0	16	4203						
RSTOPSW	Χ	000120	16	4195						
SASDISP	U	0011C0	1	4209						
SVCNPSW	X	0001C0	16	4205						
:SVCOPSW	Χ	000140	16	4197						

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MACRO	DEFN	REFERE	NCES												
ANTR	114														
PROB	246														
ARCHIND	406	3436													
RCHLVL	547	3435													
SAIPL	673	3552													
ASALOAD	753	3518													
ASAREA ASAZAREA	808 993	4055													
PUWAIT	1076	3777													
SECTS	1402	3887	3919	3966	3981	4052									
WAIT	1605	3695	3700	3705	3710	.032									
DWAITEND	1662	3694													
ENADEV	1670	3730													
ESA390	1770														
IOCB	1781	3814													
IOCBDS	1957	3888	2067	2002	4244	4222	4240	4277							
IOFMT IOINIT	1991	3920	3967	3982	4214	4232	4240	4277							
IOTRFR	2329 2370	3719													
ORB	2418	3830													
POINTER	2607														
PSWFMT	2635														
RAWAIT	2769														
RAWIO	2865	3764													
SIGCPU	3023														
SMMGR	3081														
SMMGRB TRAP128	3181	2520													
TRAP126	3230 3207	3530 3520	3523												
TRAPS	3243	3320	3323												
ZARCH	3317														
ZEROH	3329														
ZEROL	3357														
ZEROLH	3385														
ZEROLL	3408														



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		JII TESC	02 NOV 2017 20.16.21	rage 5.
<pre>STMT  1     c:\Users\Fish\Document</pre>	FILE NAME	MA-0\CCW-TIS\CCW-TIS.asm		
2 C:\Users\Fish\Document	ss\Visual Studio 2008\Projects\MyProjects\ASMs\Visual Studio 2008\Projects\Hercules\_Git\	\_Harold\SATK-0\srcasm\satk.ma	ac	
** NO ERRORS FOUND **				