```
ASMA Ver. 0.2.0 Simple 3211 Printer Tests
                                                                                    27 Aug 2018 14:30:17 Page
                                                                                                               2
 LOC
          OBJECT CODE
                          ADDR1
                                          STMT
                                  ADDR2
                                            43 ********************************
                                            44 *
                                            45 *
                                                  Example Hercules Testcase:
                                            46 *
                                            47 *
                                            48 *
                                                       *Testcase 3211 printer
                                            49 *
                                                       mainsize 1
                                            50 *
                                                       numcpu
                                            51 *
                                                       sysclear
                                            52 *
                                                       archlvl
                                                               390
                                            53 *
                                                       loadcore "$(testpath)/3211.core"
                                            54 *
                                            55 *
                                                       # NOTE: In addition to the above 3211.core file this test
                                            56 *
                                                             also uses an associated "3211.rexx" script too.
                                            57 *
                                                       #
                                            58 *
                                                       detach
                                            59 *
                                                       attach
                                                               00f 3211 "3211.txt"
                                            60 *
                                                       diag8cmd enable noecho # need diag8 to exec rexx script
                                            61 *
                                                                             # rexx script needs shell access
                                                       shcmdopt enable diag8
                                            62 *
                                                       runtest
                                                                             # (plenty of time)
                                                               0.1
                                            63 *
                                                       detach
                                                               000f
                                                                             # (no longer needed)
                                            64 *
                                                       diag8cmd disable noecho # (no longer needed)
                                            65 *
                                                       shcmdopt disable nodiag8 # (no longer needed)
                                            66 *
                                                       *Compare
                                            67 *
                                                       r 1000.10
                                            68 *
                                                       *Want "Return Code flags" 00000000 00000000 00000000 00000000
                                            69 *
                                                       *Done
                                            70 *
                                            71 *
                                            72 *
                                                  Refer to comments at label "BEGIN" for register usage.
                                            73 *
                                            74 ****************************
                                            76
                                                      PRINT OFF
                                          3481
                                                      PRINT ON
                                          3484 *
                                                      SATK prolog stuff...
                                          ARCHLVL ZARCH=NO, MNOTE=NO
                                          3487
                                          3489+$AL
                                                      OPSYN AL
                                          3490+$ALR
                                                      OPSYN ALR
                                          3491+$B
                                                      OPSYN B
                                                      OPSYN BAS
                                          3492+$BAS
                                                      OPSYN BASR
                                          3493+$BASR
                                          3494+$BC
                                                      OPSYN BC
                                          3495+$BCTR
                                                      OPSYN BCTR
```

ASMA Ver.	0.2.0 Simple 3211	Printer Tes	sts				27 Aug 2018 14:30:17 Page 4
LOC	OBJECT CODE	ADDR1	ADDR2	STMT			
				3546 * 3547 *	Initia with t	ate the TEST3211 (**************************************
00000000 0000008 00000058 00000060 00000068 00000070 00000078 00000080	000A0000 00000008 000A0000 00000018 000A0000 00000020 000A0000 00000028 000A0000 00000030 000A0000 00000038	00000000	000026FF 00000058	3551+TEST3211 3553+ 3554+ 3556+ 3557+ 3558+ 3559+ 3560+	START PSW ORG PSW PSW PSW	AD REGION=CODE 0,CODE 0,0,2,0,X'008' TEST3211+X'058' 0,0,2,0,X'018' 0,0,2,0,X'020' 0,0,2,0,X'028' 0,0,2,0,X'030' 0,0,2,0,X'038' TEST3211+512	64-bit Restart ISR Trap New PSW 64-bit External ISR Trap New PSW 64-bit Supervisor Call ISR Trap New PSW 64-bit Program ISR Trap New PSW 64-bit Machine Check Trap New PSW 64-bit Input/Output Trap New PSW
				3564 *	Create	PIPL (restart) PS	:*************************************
00000200 00000000 00000008	00080000 00000200	00000000 00000200 00000008 00000000	000026FF 00000000 00000200 000026FF	3568+TEST3211 3569+ 3570+	CSECT ORG PSW ORG	IA=BEGIN TEST3211 0,0,0,0,BEGIN,24 TEST3211+512	Reset CSECT to end of assigned storage area

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LOC	ОВЈЕСТ	CODE	ADDR1	ADDR2	STMT				
					3575 *		The actual TEST	<pre> *********************************</pre>	
					3577 * 3578 *		Mode: ESA/390		
					3579 * 3580 * 3581 *	Addressing M Register Usa	lode: 24-bit		
					3582 * 3583 * 3584 *	R1 Ì/ R2 Pr	ogram base regis		
					3585 * 3586 * 3587 *	R4 IC R5 Us) work register used for CPU regis	ENADEV and RAWIO macros used by ENADEV and RAWIO ster when signaling architecture change	
					3588 * 3589 * 3590 *	R8 OR R9 SC	RB pointer CSW pointer	rs when changing architecture	
					3591 * 3592 * 3593 ***	`	iork) ************	************	
00000200			0000000		3595		ASA,R0	Low core addressability	
00000200 00000200 00000200		0 0	0000200 0000000 0000000		3596 3597 3598	USING USING USING	IOCB,Ŕ3 ORB,R8	Program Addressability SATK Device I/O Control Block ESA/390 Operation Request Block	
00000200		0	0000000		3599	USING	SCSW,R9	ESA/390 Subchannel Status Word	
00000202	0520 0620 0620				3601 BEO 3602 3603	BCTR	R2,0 R2,0 R2,0	Initalize Base Register Initalize Base Register Initalize Base Register	
00000206	45E0 203C			0000023C	3605	BAL	R14,INIT	Initalize Program	
0000020E	45E0 20E6 45E0 211E				3608	BAL BAL	R14,TEST01 R14,TEST02	z/VM 6.3 printer 3211 initial sequence Skip to nonexistent FCB channel	
00000216 0000021A	45E0 2160 45E0 21A8 45E0 21F0				3609 3610 3611	BAL	R14,TEST03 R14,TEST04 R14,TEST05	Skip to chan we're at = No Skip Skip to chan we're at = Should Skip Channel 9 crossed	
00000222 00000226	45E0 223C 45E0 2274 45E0 2330			00000474 00000530	3612 3613 3614	BAL BAL BAL	R14, TEST06 R14, TEST07 R14, TEST08	Channel 12 crossed FCB/UCS Load Check Diagnostic Read FCB Diagnostic White/Pood BLB	
	45E0 2384			00000584		BAL	R14,TEST09	Diagnostic Write/Read PLB	
00000234	D60F 2E00 4770 205C 47F0 2078	2E00 0		00001000 0000025C 00000278	3617 3618 3619	OC BNZ B	RCFLAGS, RCFLAGS FAIL EOJ	Did all tests succeed? (all zeros?) No, Abnormal termination Yes, Normal completion	

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LOC	OBJECT CODE	ADDR1	ADDR2	STMT			
				3621 ******* 3622 * 3623 ******	****** Progra	am Initialization	***********
0000023C				3625 INIT	DS	0H	Program Initialization
				3627	SETAR	CH 2	Cleanly enter 64-bit mode if sensible
0000023C 00000240 00000244	4130 24BC 5880 3018 58F0 3020		000006BC 00000018 00000020	3629 3630 3631	LA L L	R3,IOCB_00F R8,IOCBORB R15,IOCBIRB	Point to IOCB Point to ORB Point to IRB
00000248 00000248 0000024C	4190 F000	00000000	00000000	3632 3633 3634	USING LA DROP	IRB,R15 R9,IRBSCSW R15	Temporary addressability Point to SCSW Done with IRB
0000024C 00000250	45F0 2088 45F0 2096		00000288 00000296	3636 3637	BAL BAL	R15,IOINIT R15,ENADEV	Initialize the CPU for I/O operations Enable our device making ready for use
00000254 0000025A	D20F 2E00 2DF0 07FE	00001000	00000FF0	3639 3640	MVC BR	RCFLAGS, DOFLAGS R14	Initialize test return code flags Return to caller
				3642 ******* 3643 * 3644 ******	Norma]	l completion or A	**************************************
				3646 FAIL	DWAIT	LOAD=YES, CODE=BA	D Abnormal termination
0000025C 0000025C 00000260	8200 2060 000A0000 00010BAD		00000260	3647+FAIL 3648+ 3649+DWAT0008		0H DWAT0008 0,0,2,0,X'010BAD	
				3651 FAILD8	DWAIT	LOAD=YES,CODE=D8	Diagnose X'008' failed
00000268 00000268 00000270	8200 2070 000A0000 000100D8		00000270	3652+FAILD8 3653+ 3654+DWAT0009		0H DWAT0009 0,0,2,0,X'0100D8	
				3656 EOJ	DWAITE	END LOAD=YES	Normal completion
00000278 00000278	8200 2080		00000280	3658+E0J 3659+	DS LPSW	0H DWAT0011	

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LOC	OBJECT CODE	ADDR1	ADDR2	STMT			
				3663 *	Initia	alize the CPU fo	**************************************
00000288	B766 2090		00000290	3666 IOINIT 3667+IOINIT	IOINI	T , 6,6,IOMK0012	Enable subchannel subclasses for interruptions
0000028C 00000290	47F0 2094		00000294	3668+ 3669+IOMK0012	В	IOMK0012+4 0F	
00000290 00000294	FF000000 07FF			3670+ 3671	DC BR	XL4'FF000000' R15	All subchannel subclasses enabled Return to caller

				3674 * 3675 ******	Enabl ****	e the device, ma **********	aking it ready for use ************************************
0000000	F010 20DC		00000000	3677 ENADEV	ENADE		,REG=4
00000296 0000029A	5810 20DC 5840 3028		000002DC 00000028	3678+ENADEV 3679+	\$L	1,FIND0013 4,IOCBSIB	Locate where the SCHIB is to be stored
0000029E	3040 3020	0000000	00000020	3680+		SCHIB,4	Edeate where the Sellib 13 to be Stored
0000029E				3681+FINL0013	DS	OH Retrieve S	Subchannel Information Block for desired device numbe
0000029E	B234 4000		00000000	3682+	STSCH		Store the SCHIB for first subchannel
000002A2 000002A6	A774 FFDD 9101 4005		0000025C	3683+	\$BC	B'0111', FAIL	Subchannel does not exist and device number not
000002A6	A784 0011		00000005 000002CC	3684+ 3685+	TM \$BZ	PMCW1_8,PMCWV FINN0013	<pre>Is the subchannel device number valid?No, check the next subchannel</pre>
000002AA	D501 4006 3004	00000006	00000200	3686+	CLC	PMCWDNUM, IOCBDE	
000002B4	A774 000C		000002CC	3687+ 3688+* Subchar	\$BNE	FINN0013	No, check the next subchannel
000002B8	5010 3000		0000000	3689+	ST	1,IOCBDID	Remember the subchannel so I/O can be done to it
00002BC	9680 4005		00000005	3690+	ΟÏ	PMCW1_8,PMCWE	Make sure it is enabled so I/O requests accepted
00002C0	B232 4000		00000000	3691+	MSCH	0(4)	Enable the subchannel to the channel sub-system
000002C4	A784 0010		000002E4	3692+	\$BC	B'1000', ENAOKA	
000002C8	A7F4 FFCA		0000025C		\$B	FAIL	CC1,CC2,CC3 (SCHIB update failed), quit
000002CC 000002CC	1110 1001		00000001	3694+FINN0013			next subchannel
000002CC 000002D0	4110 1001 5510 20E0		00000001 000002E0		LA CL	1,1(0,1) 1,FINM0013	Advance to next subchannel Beyond maximum subchannel
000002D0	A7D4 FFE5		000002E0		\$BNH	FINL0013	No, examine the next subchannel
000002D4	A724 FFC2		0000025C	3698+	\$BH	FAIL	Yes, failed to enable the device
00002DC			_	3699+	DROP	4	Forget SCHIB addressing
000002DC	00010000			3700+FIND0013		A(X'00010000')	First subchannel subsystem ID
000002E0	0001FFFF			3701+FINM0013 3702 *	DC	A(X'0001FFFF')	Last subchannel subsystem ID
000002E4	07FF			3703 ENAOKAY	BR	R15	Return to caller if device enabled OK

ASMA Ver.	0.2.0 Simple 3211	Printer Te	sts					27 Aug 2018 14:30:17 Page 19	I
LOC	OBJECT CODE	ADDR1	ADDR2	STMT					
				4170 *	Execu	te the channel p	orogram r	**************************************	
0000628	4100 2538		00000738	4173 EXCPSENS	LA	R0,SENSEPGM	R0 -> R6	etrieve SENSE Channel Program	
3000062C	5000 8008		00000008	4175 EXCP	ST	R0,ORBCCW	Plug Cha	nnel Program address into IORB	
00000630 00000634 0000063A	9200 300E D201 300A 3006 5810 3000	000000A	0000000E 00000006 00000000	4177 4178+ 4179+ 4180+	RAWIO MVI MVC L	4,FAIL=FAIL IOCBSC,X'00' IOCBST,IOCBZERC 1,IOCBDID) (Clear SC information Clear accumulated status Demember the device ID with which I am wor	kin
0000063E 00000642 00000646	5840 3018 B233 4000 A774 FE0B		00000018 00000000 0000025C	4182+ 4183+	\$L	channel-based in 4,IOCBORB 0(4) B'0111',FAIL	nput/outp l [
0000064A 0000064E	5840 3020	00000000	00000230		\$L	4,IOCBIRB IRB,4	L	ocate the IRB storage area	
00000012						•		atus via an interruption	
0000064E 0000064E 00000654	D207 2470 0078 D207 0078 2468	00000670 00000078	00000078 00000668	4189+IOWT0014 4191+ 4192+		0H Wait for I/ IOS0015(8),120(120(8,0),ION001	/O to com (0)		
0000065A 00000660 00000668 00000670	8200 2460 020A0000 00000000 00082000 00000678 00000000 00000000		00000660	4194+WPSW0015 4195+ION0015 4196+IOS0015	PSW PSW DC	WPSW0015 2,0,2,0,0 0,0,0,32,IRST00 XL8'00' /output interrup		Wait for event Wait for event I/O New PSW: cc==2	
00000678 00000678	D207 0078 2470	00000078	00000670	4198+IRST0015 4199+ 4200+* Proces	DS MVC s the	0H 120(8,0),I0S001 interruption	15	Restore input/output new PSW	
	5510 00B8 A774 FFE6		000000B8 0000064E	4202+ 4203+	CL \$BNE	1,IOSSID IOWT0014 nterruption info	j	s this the device for which I am waiting? .No, continue waiting for it	
	B235 4000 A744 FFE2 A714 FDE7		00000000 0000064E 0000025C	4205+ 4206+	TSCH \$BC \$BC	0(4) B'0100',IOWT001 B'0001',FAIL	F 14 (Retrive interrupt information CC1 (not status pending), wait for it to a CC3 (not operational), an error then CC0 (status was pending), accumulate the s	
0000069E	D600 300E 4003 D601 300A 4008 9104 300E A7E4 FFD6	0000000E 0000000A	00000003 00000008 0000000E 0000064E	4209+ 4210+ 4211+	OC OC TM \$BNO		+SCSW2	Accumulate status control Accumulate device and channel status Primary subchannel status? .No, wait for primary status	
000006A6 000006AC	D203 3010 4004 D201 3016 400A	00000010 00000016	00000004 0000000A	4213+ 4214+	MVC MVC	IOCBSCCW, IRBSCS	SW+SCSWC0 SW+SCSWCN	W CCW address IT Residual count	
	910C 300A A7E4 FDD3		0000000A 0000025C	4216+ 4217+	TM \$BNO	ors as specified IOCBUS,CSWCE+CS FAIL operation succe	SWDE (Channel end and device end both accumulated lunh? No CE and DE but do have primary sta	
00006BA	07FF			4220	BR	R15		o caller	

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LOC	OBJECT CODE	ADDR1	ADDR2	STMT			
				4451 ***	***************	********	* *
				4452 *	Literals Pool		le ele
				4453 ***	******************************	*******	· *
000BB0				4455	LTORG ,		
	00002100 00002200 00002300 00002400			4456 4457	=A(SIZ03A,SIZ03B)		
000BC0	00002500 00002400			4458	=A(SIZ04A,SIZ04B) =A(SIZ09A,SIZ09B)		

OC	OBJECT CODE	ADDR1	ADDR2	STMT				
				4678 *****	*******	*********	******	*
				4679 *	(other DSECTS)	eeded by SATK)		
				4680 *****	******	***********	******	*
				4682	DSECTS PRINT=0	F, NAME=(ASA, SCHIB, CCW0, CCW1, CS	SW)	
				4059	DDINI ON			
				4958	PRINT ON			
						*********	*******	*
				4961 *	Register equate		*******	*
				4962 *****	***	************	**************************************	r
		00000000	00000001	4964 R0	EQU 0			
		00000001 00000002	00000001 00000001	4965 R1 4966 R2	EQU 1 EQU 2			
		00000003	00000001	4967 R3	EQU 3			
		00000004	00000001	4968 R4	EQU 4			
		00000005 00000006	00000001	4969 R5 4970 R6	EQU 5 EQU 6			
		00000007	00000001	4971 R7	EQU 7			
		00000008	00000001	4972 R8	EQU 8			
		00000009	00000001	4973 R9	EQU 9			
		0000000A 0000000B	00000001 00000001	4974 R10 4975 R11	EQU 10 EQU 11			
		0000000C	00000001	4976 R12	EQU 12			
		000000D	00000001	4977 R13	EQU 13			
		0000000E	00000001	4978 R14	EQU 14			
		0000000F	00000001	4979 R15	EQU 15			
				4004	END			
				4981	END			

SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFER	ENCES													
TACOOOD		000054		4260	4422														
IAG809B	A	0009E4	4	4360	4122														
IAGGATE	U	000007	1	4268	4387	4391	4432	4435	4438	4444	4448								
OFLAGS	Χ	000FF0	16	4465	3639														
WAT0008	3	000260	8	3649	3648														
WAT0009	3	000270	8	3654	3653														
WAT0011	3	000280	8	3660	3659														
NADEV	I	000296	4	3678	3637														
NAOKAY	I	0002E4	2	3703	3692														
:OJ	H	000278	2	3658	3619														
XCP	Ï	00062C	4	4175	3721	3729	3754	3759	3792	3800	3830	3838	3872	3884	3918	3926	3968	3980	
.ACI	-	000020	-	41/3	3992	4004	4016	4021	4026	4058	4066	4074	4104	4115	3310	3320	3300	3300	
XCPSENS	I	000628	4	4173	3763	3876	3888	3972	3984	3996	4008	4144	4104	4113					
		000028	_		3703	3070	2000	3312	3304	3990	4000	4144							
XTCPUAD	Н		2	4736															
XTICODE	H	000086	2	4737															
XTIPARM	F	000080	4	4735															
XTNPSW	<u> </u>	000058	8	4725	4-0-														
XTOPSW	F	000018	8	4697	4703														
AIL	Н	00025C	2	3647	3618	3683	3693	3698	4184	4207	4217								
AILD8	Н	000268	2	3652	4162														
CB07A	Χ	0007A4	32	4324	4423														
CB07D	Χ	0007C4	12	4329	4424														
CB07E	X	0007D0	12	4330	4425														
CB07G	X	0007E2	31	4332	4427														
CB07H	X	000801	179	4337	4339	4428													
CB071	X	0008B4	181	4338	4341	4343	4429												
CB071	X	000969	12	4345	4346	4062	4431												
CB08A2	X	000975	12	4346	4062	4433	4431												
							4424												
CB08B	X	000981	13	4347	4348	4070	4434												
CB08B2	X	00098E	13	4348	4070	4436	4407												
CB08C	X	00099B	13	4349	4350	4078	4437												
CB08C2	X	0009A8	13	4350	4078	4439													
CBL3211	U	0000B4	1	4274	4337	4338													
IND0013	Α	0002DC	4	3700	3678														
INL0013	Н	00029E	2	3681	3697														
INM0013	Α	0002E0	4	3701	3696														
INN0013	Н	0002CC	2	3694	3685	3687													
LAG00	Ü	001000	16	4494															
LAG01	Ü	001001	16	4496	3717	3736													
LAG02	Ü	001001	16	4497	3750	3772													
LAG03	Ü	001002	16	4498	3788	3811													
LAG04	Ü	001003	16	4499	3826	3849													
		001004		4500	3868														
LAG05	U		16 16			3895													
LAG06	U	001006	16	4501	3914	3933													
LAG07	U	001007	16	4502	3964	4030													
LAG08	U	001008	16	4503	4054	4081													
LAG09	U	001009	16	4504	4100	4132													
LAG10	U	00100A	16	4506															
LAG11	U	00100B	16	4507															
LAG12	U	00100C	16	4508															
LAG13	U	00100D	16	4509															
LAG14	Ū	00100E	16	4510															
LAG15	Ü	00100F	16	4511															
	•	332301	10																

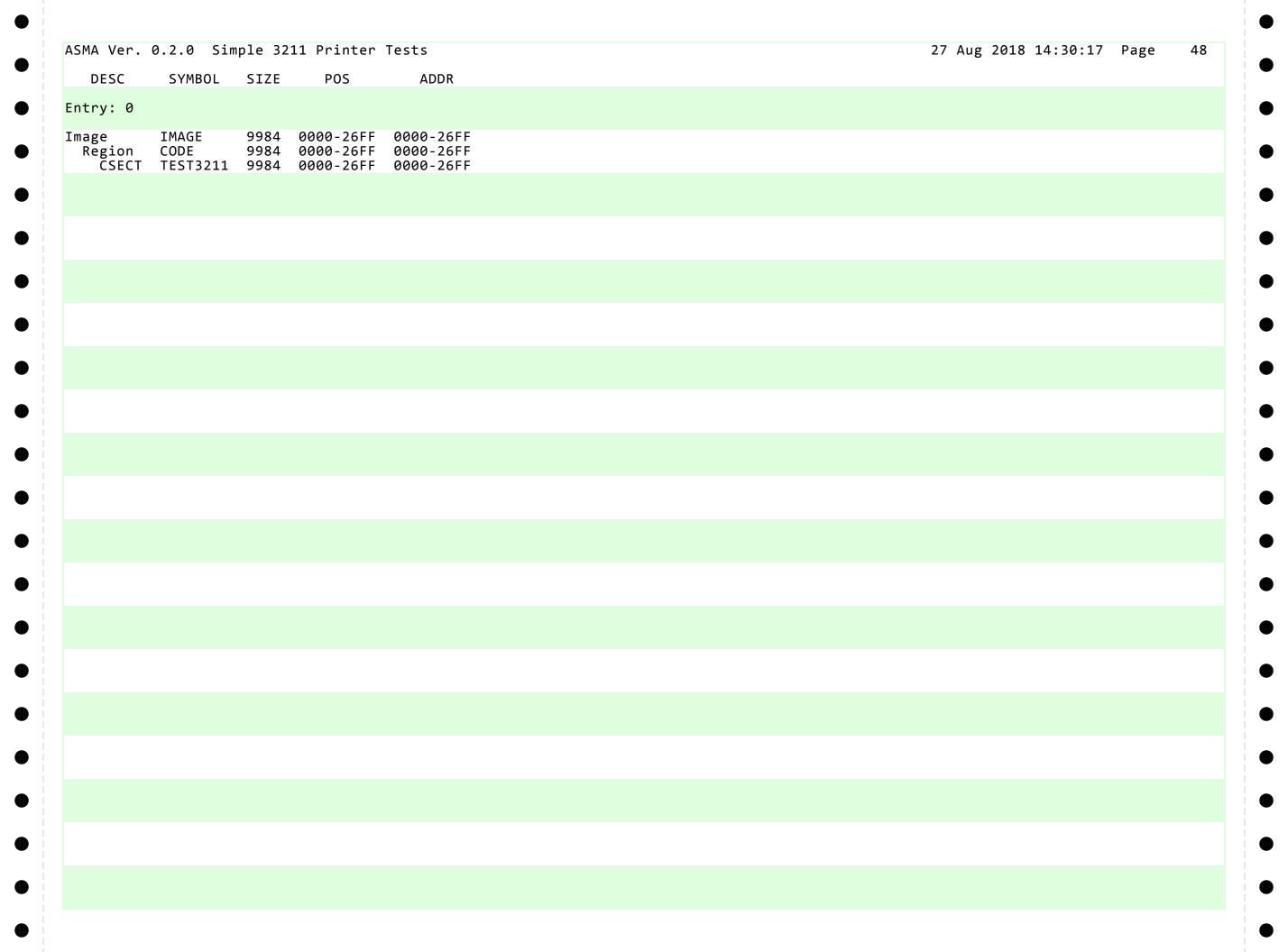
CVMDOL	TVDF	3211 Pri		DEEN	REFER	ENCTO					27	_	_	
SYMBOL	TYPE	VALUE	LENGTH	DEFN	KEFEK	ENCES								
MD	I	0005F0	4	4153	3797	3805	3835	3843	4112	4123				
MDSAVE	F	000614		4167	4153	4164								
	,				4241									
RB0016	Г	0006EC	4	4245	4241	4243								
AGE	1	000000	9984	0										
IT	Н	00023C	2	3625	3605									
СВ	4	000000	48	4519	4543	3597								
CBCAW	À	000018	4	4539	.5.5	332,								
CBCM	X	000009		4527										
CBCS	X	00000B	1	4530										
CBCT	Χ	00000D	1	4532										
CBDEV	Н	000004	2	4524	3686									
CBDID		000000	4	4521	3689	4180								
			•		3009	4100								
CBDV	Н	000002	2	4523										
CBIRB	Α	000020	8	4541	3631	4185								
CBL	U	000030	1	4543										
CBORB	۸	000018	8	4540	3630	4182								
	A					4107								
CBRCNT	Н	000016	2	4538	4214									
CBSC	X	00000E	1	4533	4178	4209	4211							
CBSCCW	Α	000010	4	4535	4213									
CBSCNT	F	000014	4	4536										
	١				2670									
CBSIB	Α	000028	8	4542	3679									
CBST	Н	00000A	2	4528	4179	4210								
CBUM	Χ	000008	1	4526										
CBUS	Χ	A00000	1		4216									
CBUT		00000A	1		7210									
	X													
CBWAIT	Х	00000F	1	4534										
CBZERO	Н	000006	2	4525	4179									
CB 00F	Α	0006BC	4	4228	3629									
ELADDR	F	0000AC	4	4772	5525									
	i.		2	4777										
ICODE	H	0000BA	_											
IID	F	0000C0	4	4782										
INIT	I	000288	4	3667	3636									
IPARM	F	0000BC	4	4781										
MK0012	F	000290	4	3669	3667	3668								
			4			3008								
N0015	3	000668	8	4195	4192									
NPSW	F	000078	8	4729										
OPSW	F	000038	8	4701	4711									
RB0016	X	00072C	12	4247	4239									
						4100								
S0015	X	000670	8	4196	4191	4199								
SSID	F	0000B8	4	4780	4202									
WT0014	Н	00064E	2	4189	4203	4206	4212							
LCCW1	F	000008	8	4689										
	, F													
LCCW2		000010	8	4690										
LPSW	F	000000	8	4688										
В	4	000000	96	4598	4602	4604	3632	4186						
BECW	X	000020	32	4601	•	•	•							
BEMW		000020	32	4603										
	X													
BESW	X	00000C	20	4600										
BL	U	000040	1	4602										
BSCSW	X	000000	12	4599	3633	4209	4210	4213	4214					
BXL	Ü	000060	1	4604	5055	.200	.210	1213	1217					
ST0015			-		4405									
N I M M I S	Н	000678	2	4198	4195									
310013														

SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFER	ENCES												
MCWPIM	Χ	00000B	1	4932														
MCWPNOM	Χ	000009	1	4930														
MCWPOM	Χ	00000E	1	4934														
MCWRES1	Χ	000018	4	4944														
MCWRES2	X	000018	3	4945														
MCWS	Û	000001	1	4949														
MCWT	Ü	000001	1	4924														
		000002	_		2694													
MCWV	U		1	4925	3684													
MCWX	U	000002	1	4948	4400													
RT04A	Ċ	000780	6	4316	4408													
RT05A	С	000798	6	4320	4413													
RT06B	С	00079E	6	4322	4421													
RT09A	С	0009B5	6	4352	4353	4108	4442											
RT09B	С	0009D4	6	4357	4358	4119	4446											
.0	U	000000	1	4964	3595	3720	3728	3753	3758	3791	3796	3799	3804	3829	3834	3837	3842	3871
. •	J		_		3883	3917	3925	3967	3979	3991	4003	4015	4020	4025	4057	4065	4073	4103
					4111	4114	4122	4155	4173	4175	4003	4013	4020	4023	4037	4005	4073	4103
1	U	000001	1	4965	4111	7114	7122	4177	41/2	71/3								
		000001	1		/1E2	/155	1156	/157	/1E0	/1EO	1161							
10	U		_	4974	4153	4155	4156	4157	4158	4159	4164							
11	U	00000B	1	4975	3807	3808	3845	3846	4125	4126								
12	U	00000C	1	4976	3807	3808	3845	3846	4125	4126								
.13	U	00000D	1	4977														
14	U	00000E	1	4978	3605	3607	3608	3609	3610	3611	3612	3613	3614	3615	3640	3718	3726	3734
					3737	3751	3761	3768	3770	3773	3789	3809	3812	3827	3847	3850	3869	3874
					3881	3886	3893	3896	3915	3923	3931	3934	3965	3970	3977	3982	3989	3994
					4001	4006	4013	4031	4055	4063	4071	4079	4082	4101	4109	4120	4127	4130
					4133	4146									• -	•		
15	U	00000F	1	4979	3631	3632	3634	3636	3637	3671	3703	3721	3729	3754	3759	3763	3792	3797
.13	O	000001	_	7777	3800	3805	3830	3835	3838	3843	3872	3876	3884	3888	3918	3926	3968	3972
						3984	3992	3996		4008	4016	4021	4026		4066	4074	4104	4112
					3980				4004	4000	4016	4021	4026	4058	4000	40/4	4104	4112
_			_		4115	4123	4144	4165	4220									
.2	U	000002	1	4966	3596	3601	3602	3603										
.3	U	000003	1	4967	3597	3629												
4	U	000004	1	4968														
5	U	000005	1	4969														
.6	U	000006	1	4970	4153	4156	4164											
7	Ü	000007	$\bar{1}$	4971	_													
.8	Ŭ	000008	1	4972	3598	3630	4159											
9	Ü	000009	1	4973	3599	3633	4156											
CFLAGS	X	001000	16	4491	4494	4496	4497	4498	4499	4500	4501	4502	4503	4504	4506	4507	4508	4509
CFLAGS	^	001000	10	4491					4499	4500	4501	4502	4505	4504	4500	4507	4500	4509
FADECD		000013	1	4270	4510	4511	3617	3639										
EADFCB	U	000012	1	4270	4433	4436	4439											
EADPLB	U	000002	1	4263	4443	4447												
EADUCS	U	A00000	1	4269														
STNPSW	F	000000	8	4693														
STOPSW	F	800000	8	4694														
XSAYSIZ	С	002000	256	4370	4309	4310	4311	4312	4314	4315	4317	4318	4355	4356	4360	4361		
AVEORG	Ü	0009F4	1	4367	4381						· ·							
CANOUT	X	000080	1	4731	4732													
		000000	1	4731	4/32													
CANOUTL	U				4055	2600												
CHIB	4	000000	52	4908	4955	3680												
CHIBL	U	000034	1	4955														

CVMDOL	T\/5-	\/A ! !!=	LENGTH	DEEN	DEEE5	ENCEC													
SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFER	ENCES													
CSWSINT	U	800000	1	4647															
CSWSM	U	000040	1	4656															
CSWSPEN	Ū	000001	1	4650															
CSWSPRI	Ü	000004	1	4648	4211														
CSWSSEC	Ŭ	000007	1	4649	7211														
CSWSSIC	Ü	000002	1	4628															
CSWSUSC	Ü	000008	1	4616															
		000000	1		2722	2720	2755	2760	3764	2702	2001	2021	2020	2072	2077	2005	2000	2010	
CSWUC	U	000002	1	4661	3722	3730	3755	3760		3793	3801	3831	3839	3873	3877	3885	3889	3919	
					3927	3969	3973	3981	3985	3993	3997	4005	4009	4017	4022	4027	4059	4067	
CCLUIC	V	00000	4	4654	4075	4105	4116	4145	2764	2702	2001	2024	2020	2072	2077	2005	2000	2010	
CSWUS	Х	000008	1	4654	3722	3730	3755	3760	3764	3793	3801	3831	3839	3873	3877	3885	3889	3919	
					3922	3927	3930	3969	3973	3981	3985	3993	3997	4005	4009	4017	4022	4027	
0.51.11.17		00000			4059	4067	4075	4105	4116	4145	4210								
CSWUX	U	000001	1	4662	3922	3930													
ENSE	X	000740	2	4303	3767	3769	3880	3892	3976	3988	4000	4012	4302	4389	4393				
ENSECMD	U	000004	1	4265	4302	4389	4393												
ENSEPGM	W	000738	8	4302	4173														
IZ03A	C	002100	256	4372	4373	3808	4309	4310	3807										
IZ03B	C	002200	256	4373	4311	4312	3807												
IZ04A	С	002300	256	4375	4376	3846	4314	4315	3845										
IZ04B	С	002400	256	4376	4317	4318	3845												
IZ09A	С	002500	256	4378	4379	4126	4355	4356	4125										
IZ09B	Ċ	002600	256	4379	4360	4361	4125												
KIP	Ü	000010	1	4261	4389	4393													
KP11NOW	Ü	0000DB	1	4289	4418	4420													
KP12NOW	Ü	0000E3	1	4290	4399	4405													
KP1NOW	Ü	00008B	1	4286	4402	4409													
KP2NOW	Ü	000003	1	4287	4396	1105													
KP8NOW	Ü	000053	1	4288	4412	4414													
LI	Ü	000020	1	4260	4302	4387	4388	4389	4390	4391	4392	4393	4395	4396	4398	4399	4400	4401	
	U	000020		7200	4402	4404	4405	4406	4407	4408	4409	4411	4412	4414	4415	4417	4418	4419	
					4420	4421	4423	4424	4425	4426	4427	4431	4432	4433	4434	4435	4436	4437	
					4438	4439	4441	4443	4444	4445	4447	4448	4449	4433	4434	4433	4430	4437	
NS0CH9	U	000001	1	4295	3880	3892	4441	4443	4444	4443	4447	4440	4449						
NSØDTCK	11	000001	1	4293	3767	3092													
	U		1		3767														
NSØEQCK	U	000010	1	4292		2000	1000	1012											
NSØLDCK	U	000002	1	4294	3976	3988	4000	4012											
NS1LPCK	U	000010	1	4296	3769														
PØAFTER	U	000001	1	4277	4408														
P1AFTER	U	000009	1	4278	4442	4404	4407												
P1NOW	U	00000B	1	4282	4390	4401	4407												
P2AFTER	U	000011	1	4279	4421														
P2NOW	U	000013	1	4283	4415														
P3AFTER	U	000019	1	4280	4413														
P3NOW	U	00001B	1	4284	4400	4406	4419												
SARCHMD	X	0000A3	1	4763															
SARS	F	000120	4	4819															
SCLKCMP	F	0000E0	8	4813															
SCPUTIM	F	0000D8	8	4812															
SCRS	F	0001C0	4	4822															
	D	000160	8	4820															
SFPRS			_	-															
SGRS	F	000180	4	4821															

LUE LENGTH DEFN 00150 16 4828 00A8 8 4767 01A0 16 4833 00120 16 4825 011C0 1 4839 001C0 16 4827 00BB0 4 4456 00BB8 4 4457	3807 3845	
000A8 8 4767 001A0 16 4833 00120 16 4825 011C0 1 4839 001C0 16 4835 00140 16 4827 00BB0 4 4456 00BB8 4 4457	3845	
000A8 8 4767 001A0 16 4833 00120 16 4825 011C0 1 4839 001C0 16 4835 00140 16 4827 00BB0 4 4456 00BB8 4 4457	3845	
16 4825 11C0 1 4839 01C0 16 4835 00140 16 4827 00BB0 4 4456	3845	
16 4825 11C0 1 4839 101C0 16 4835 10140 16 4827 10BB0 4 4456 10BB8 4 4457	3845	
001C0 16 4835 00140 16 4827 00BB0 4 4456 00BB8 4 4457	3845	
16 4827 16 4827 10 4456 10 4456 10 4457	3845	
0BB0 4 4456 0BB8 4 4457	3845	
0BB8 4 4457	3845	
4 4438	4123	

SMA Ver.	0.2.0	Simple	3211 Pi	rinter	Tests						27	Aug 2	018 14	:30:17	Page	47
MACRO	DEFN	REFEREN	ICES													
NTR	142															
PROB	274															
RCHIND	434	3488														
RCHLVL	575	3487														
SAIPL	701	3567														
SALOAD	781	3550														
SAREA	836	4685														
SAZAREA	1021															
PUWAIT	1104	4190														
SECTS	1430	4517	4549	4596	4611	4682										
VAIT	1633	3646	3651	3657												
NAITEND	1690	3656														
NADEV	1698	3677														
SA390	1798	4227														
OCB OCB OCB OCB OCB OCB OCB OCB OCB OCB	1809	4227														
OCBDS	1985	4518	4507	4612	1011	1060	1070	4007								
OFMT DINIT	2019 2357	4550	4597	4612	4844	4862	4870	4907								
TRFR	2398	3666														
B	2446	4246														
INTER	2635	4240														
SWFMT	2663															
WAIT	2797															
AMIO	2893	4177														
ETARCH	3461	3627														
IGCPU	3051	3027														
MMGR	3109															
MMGRB	3209															
RAP128	3258															
AP64	3235	3552	3555													
APS	3271															
RCH	3345															
ROH	3357															
ROL	3385															
ROLH	3413															
ROLL	3436															



ASMA Ver. 0.2.0 Simpl	le 3211 Printer Tests	27 Aug 2018 14:30:17	Page 49
STMT	FILE NAME		
<pre>1 c:\Users\Fish\Do 2 C:\Users\Fish\Do</pre>	ocuments\Visual Studio 2008\Projects\MyProjects\AS ocuments\Visual Studio 2008\Projects\Hercules_Git	MA-0\3211\3211.asm _Harold\SATK-0\srcasm\satk.mac	
** NO ERRORS FOUND **			