

ASMA Ver.	0.2.1	CN	IPSC Co	mpression Call	instruction test		08 Mar 2022 1	13:30:06	Page	2
LOC	OBJECT CODE	ADDR1	ADDR2	STMT						
				35 3416 3417	PRINT OFF PRINT ON PRINT DATA					
				3419 ******	********	******	******	******	****	
				3420 * 3421 *****	SATK prolog stuff ***********	**********	**********	******	****	
				3423 3425+\$AL 3426+\$ALR 3427+\$B 3428+\$BAS 3429+\$BASR 3430+\$BC 3431+\$BCTR 3432+\$BE 3433+\$BH 3434+\$BL 3435+\$BM 3436+\$BNE 3437+\$BNH 3438+\$BNL 3439+\$BNM 3440+\$BNO 3441+\$BNP 3442+\$BNZ 3444+\$BP	ARCHLVL MNOTE=NO OPSYN AL OPSYN ALR OPSYN B OPSYN BAS OPSYN BASR OPSYN BC OPSYN BCTR OPSYN BE OPSYN BH OPSYN BH OPSYN BH OPSYN BN OPSYN BN OPSYN BNB					
				3445+\$BXLE 3446+\$BZ 3447+\$CH 3448+\$L 3449+\$LH	OPSYN BXLE OPSYN BZ OPSYN CH OPSYN L OPSYN LH					
				3450+\$LM 3451+\$LPSW 3452+\$LR 3453+\$LTR 3454+\$NR	OPSYN LM OPSYN LPSW OPSYN LR OPSYN LTR OPSYN NR					
				3455+\$SL 3456+\$SLR 3457+\$SR 3458+\$ST 3459+\$STM	OPSYN SL OPSYN SLR OPSYN SR OPSYN ST OPSYN STM					
				3460+\$X 3461+\$AHI 3462+\$B 3463+\$BC	OPSYN X OPSYN AHI OPSYN J OPSYN BRC					
				3464+\$BE 3465+\$BH 3466+\$BL	OPSYN JE OPSYN JH OPSYN JL					
				3467+\$BM	OPSYN JM					

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LOC	OBJECT CODE	ADDR1	ADDR2	STMT			
				3468+\$BNE	OPSYN JNE		
				3469+\$BNH	OPSYN JNH		
				3470+\$BNL 3471+\$BNM	OPSYN JNL OPSYN JNM		
				3472+\$BNO	OPSYN JNO		
				3473+\$BNP	OPSYN JNP		
				3474+\$BNZ	OPSYN JNZ		
				3475+\$B0	OPSYN JD		
				3476+\$BP 3477+\$BXLE	OPSYN JP OPSYN JXLE		
				3478+\$BZ	OPSYN JZ		
				3479+\$CHI	OPSYN CHI		
				3480+\$AHI	OPSYN AGHI		
				3481+\$AL 3482+\$ALR	OPSYN ALG OPSYN ALGR		
				3483+\$BCTR	OPSYN ALGR OPSYN BCTGR		
				3484+\$BXLE	OPSYN JXLEG		
				3485+\$CH	OPSYN CGH		
				3486+\$CHI	OPSYN CGHI		
				3487+\$L 3488+\$LH	OPSYN LG OPSYN LGH		
				3489+\$LM	OPSYN LMG		
				3490+\$LPSW	OPSYN LPSWE		
				3491+\$LR	OPSYN LGR		
				3492+\$LTR	OPSYN LTGR		
				3493+\$NR 3494+\$SL	OPSYN NGR OPSYN SLG		
				3495+\$SLR	OPSYN SLGR		
				3496+\$SR	OPSYN SGR		
				3497+\$ST	OPSYN STG		
				3498+\$STM	OPSYN STMG		
				3499+\$X	OPSYN XG		

000001F8 00000000 00000170

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LOC	OBJECT CODE	ADDR1	ADDR2	STMT		
				3527 *	Define the z/Arch RESTAR	**************************************
		00000200	00000001	3530 PREVORG	EQU *	
00000200 000001A0	00000001 80000000	00000200	000001A0	3531 3532 * 3533	ORG CMPSC+X'1A0' PSWZ <sys>, <key>, <mwp>, PSWZ 0,0,0,0,X'200',64</mwp></key></sys>	<prog>,<addr>[,amode]</addr></prog>
000001A8 000001B0	00000000 00000200	000001B0	00000200	3534	ORG PREVORG	
				3537 *	Create IPL (restart) PSW	************* *********
00000200		00000000 00000200	0003FFFF 00000000	3540 3541+CMPSC 3542+	ASAIPL IA=BEGIN CSECT ORG CMPSC	
00000000 00000008	00080000 00000200	00000008 00000000	00000200 0003FFFF	3543+ 3544+ 3545+CMPSC	PSWE390 0,0,0,0,BEGIN,24 ORG CMPSC+512 R CSECT	eset CSECT to end of assigned storage area

ASMA Ver.	0.2.1	CMPSC Co	mpression Call	instru	ction test	08 Mar 2022 13:30:06 Page 6
LOC	OBJECT CODE	ADDR1 ADDR2	STMT			
			3548 *		The actual CMPSC	<pre> **************** program itself *********************************</pre>
00000200		00000000	3551	USING	CMPSC,R0	No base registers needed
00000200			3553 BEGIN	DS	ØН	
00000200			3554 * 3555 ** 3556 *		ESS the data	
0000020C 00000212 00000218	E300 02D0 0004 E310 02E0 0004 E320 02A0 0004 E330 02A8 0004 E340 02B0 0004 E350 02B8 0004 B263 0024	000002D0 000002E0 000002A0 000002A8 000002B0 000002B8	3557 3558 3559 3560 3561 3562 3563 3564 *	LG LG LG LG LG CMPSC	R0,CMP_R0 R1,CMP_R1 R2,=AD(CMPADDR) R3,=AD(1024) R4,=AD(INADDR) R5,=AD(INSIZE) R2,R4	R0 <== Compress R1 <== Compress R2> Compression buffer R3 <== Compression buffer size R4> Input data R5 <== Input size Compress data
00000228	E360 02A8 0004	000002A8	3565 ** 3566 * 3567	Calcu LG	late length of comp R6,=AD(1024)	R6 <== Original R3 value
0000022E	B909 0063 E360 02C0 0008	000002C0	3568 3569 3570 *	SGR AG	R6,R3 R6,=AD(1)	Subtract ending R3 value Plus +1 to get true length
00000238	E300 02D8 0004	000002D8	3571 ** 3572 * 3573		D what we compresse	
0000023E 00000244 0000024A 00000250	E310 02E8 0004 E320 02C8 0004 E330 02A8 0004 E340 02A0 0004	000002B8 000002C8 000002A8 000002A0	3574 3575 3576 3577	LG LG LG LG	R0,EXP_R0 R1,EXP_R1 R2,=AD(EXPADDR) R3,=AD(1024) R4,=AD(CMPADDR)	R0 <== Expand R0 <== Expand R2> Expansion buffer R3 <== Expansion vuffer size R4> Input data
00000256 0000025A	B904 0056 B263 0024		3578 3579 3580 *	LGR CMPSC	R5,R6 R2,R4	R5 <== Input size Expand data
			3581 ** 3582 *	VERIF	Y it matches origin	nal input data
00000264 0000026A 00000270	E320 02B0 0004 E330 02B8 0004 E340 02C8 0004 E350 02B8 0004	000002B0 000002B8 000002C8 000002B8	3584 3585 3586	LG LG LG	R2,=AD(INADDR) R3,=AD(INSIZE) R4,=AD(EXPADDR) R5,=AD(INSIZE)	R2> Original input data R3 <== Original input size R4> Expanded data R5 <== R3 (same size)
	0F24 4780 0280 47F0 0290	00000280 00000290		CLCL BE B	R2,R4 GOODEOJ FAILEOJ	Compare expanded data with original If it's identical then all is well Otherwise something is VERY WRONG!

### STATE CMPSC Compression Call instruction test 88 Mar 2022 13:30:06 Page 7 ### DOC 08JECT CODE ADDR1 ADDR2 STMT STATE ADDR2 STMT ADDR2 STMT	ACMA \/a	A 2 1	CMDC	C	anaccian Call	inctnucti:	on tost	00 Mass 2022 12:20:00 Dags	7
3591 ************************************						THIS CLUC CTC	טוו נפגנ	oo man 2022 13.30.00 Page	/
3592 * PSWS 3593 ***********************************	LOC	OBJECT CODE	ADDR1	ADDR2					
3593 ***********************************						*******		**********	
3596 DWAITEND LOAD=YES PSW 0000000000 Test SUCCESS 0000284 8200 0288 000A0000 00000000 3599+DWAT0009 PSWE390 0,0,2,0,X'000000' 3601 FAILEOJ DWAIT LOAD=YES,CODE=BAD 10BAD: One of the tests FAILED! 3602+FAILEOJ DS 0H 0000290 8200 0298 00000298 3603+ LPSW DWAT0010					3593 ******	*******	***************	**********	
3596 DWAITEND LOAD=YES PSW 0000000000 Test SUCCESS 0000284 8200 0288 000A0000 00000000 3599+DWAT0009 PSWE390 0,0,2,0,X'000000' 3601 FAILEOJ DWAIT LOAD=YES,CODE=BAD 10BAD: One of the tests FAILED! 3602+FAILEOJ DS 0H 0000290 8200 0298 00000298 3603+ LPSW DWAT0010	00000280	92FF 0500	0	0000500	3595 GOODEOJ	MVI	TESTFLAG, X'FF'	Indicate test SUCCESS	
3599+DWAT0009 PSWE390 0,0,2,0,X'000000' 3601 FAILEOJ DWAIT LOAD=YES,CODE=BAD 10BAD: One of the tests FAILED! 3602+FAILEOJ DS 0H 360290 8200 0298 0000298 3603+ LPSW DWAT0010	00000284	8200 0288			3596	DWAITEND	LOAD=YES	PSW 00000000000 Test SUCCESS	
3602+FAILEOJ DS 0H 3000290 8200 0298			· ·	0000200	3599+DWAT0009	PSWE390 (0,0,2,0,X'000000'		
3602+FAILEOJ DS 0H 3000290 8200 0298									
0000290 8200 0298	9999999						LOAD=YES, CODE=BAD	10BAD: One of the tests FAILED!	
3000/396 000040000 000100AD	00000290		0	0000298	3603+	LPSW DWA	AT0010		
	00000298	00040000 00010BAD			3604+DWA10010	PSWE390 6	0,0,2,0,X 010BAD		

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LOC	OBJECT CODE	ADDR1	ADDR2	STMT						
				3606 ******* 3607 * 3608 *****		Working S	**************************************			
000002A0				3610	LTORG	,	Literals pool			
000002A0 000002A8 000002B0				3611 3612 3613		=AD(CMPADDR) =AD(1024) =AD(INADDR)				
	00000000 00000140 00000000 00000001 00000000 00003000			3614 3615 3616		=AD(INSIZE) =AD(1) =AD(EXPADDR)				
		00000500	00000001	3618 FLAGADDR 3619	EQU	X'500'	Fixed address of test	results fl	ag	
		00001000	00000001	3620 INADDR	EQU	X'1000'	Address of input data			
		00002000 00003000		3621 CMPADDR 3622 EXPADDR	EQU EOU	X'2000' X'3000'	Address of compressio Address of expansion			
		00020000		3623 CDICTADR	•	X'2000'	Address of 64K compre		onarv	
		00030000		3624 EDICTADR		X'30000'	Address of 64K expans			
000002D0				3626	DC	0D'0'	(alignment)			
000002D0	00000000 00005200			3627 CMP_R0	DC	XL8'00000000000052		options		
	00000000 00005300			3628 EXP_R0	DC	XL8'000000000000053		tions		
000002E8	00000000 00020000 00000000 00030000			3629 CMP_R1 3630 EXP R1	DC DC	AD(CDICTADR) AD(EDICTADR)	R1 addr Compres R1 addr Expansi	on dictiona	nary rv	
				_		, ,			. ,	
000002F0		000002F0	00000500	3632	ORG	CMPSC+FLAGADDR	Fixed address of resu	it †lag		
00000500	00			3634 TESTFLAG	DC	X'00'	Failing test number o	r X'FF' = g	ood	

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LOC OBJECT CODE	ADDR1 ADDR2	STMT	
		3637 * Input "Fil	<pre> <*********** Le" (data) <************* </pre>
00000501	00000501 00001000	0 3640 ORG CMPSC+INADDR	Fixed address of input buffer
00001000 02C5E2C4 40404040 000010100 40404040 40404040 40404040		1 3642 INFILE EQU * 3643 DC X'02C5E2C44040404040404003046 3644 DC X'C9C7E6D3C4E2E3C100000000006 3645 DC X'4040404040404040F0F0F0F0F0 3646 DC X'A7F4001728C9C7E6D3C4E2E3C1 3647 DC X'F9F5F2F240F1F77AF0F37AF1F0 3648 DC X'02E3E7E3400000384040003840 3649 DC X'00000B75B9170099B24D009C58	Fixed address of input buffer Original input data 04000014040404040404040400000000000000
00001108		3652 DC X'F9F1F5F1D7D361E760F3F9F040	040F0F2F0F4F1F9F1F5F140F0F0F0F0F0F1F3F6'
00001130	5	1 3653 INSIZE EQU *-INFILE	Size of input data

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LOC	OBJECT CODE	ADDR1	ADDR2	STMT							
				3656	*	Compres	**************************************				
00001140		00001140	00020000	3659	ORG	CMPSC+CDICTAD	OR Compression	on dictionary			
00020000	DF810000 01385840	00020000	00000001	3661 3662	CMPDICT EQU DC X'DF81000	* 001385840DF042A	Compressio 001C47500CDF8470	on dictionary CE300C5D940DF4	.526D0D1D2	D3F0'	
00020008 00020010 00020018	DF042A00 1C47500C DF847CE3 00C5D940 DF4526D0 D1D2D3F0										
00020020 00020028 00020030	DF057758 41500047 DC05B9EF 00304B18 D1061A40 504160C5			3663	DC X'DF05775	841500047DC05B9	EF00304B18D1061A	440504160C5DC0	62400FF07	D247'	
00020038 00020040 00020048	DC062400 FF07D247 DF064300 58474140 58067100 FF000000			3664	DC X'DF06430	058474140580671	.00FF000000B90675	4050008905200	678000000	0000'	
00020050 00020058 00020060	B9067540 50008905 20067B00 00000000 DF067C00 584147F0			3665	DC X'DE067C0	258/1//7F07C06/\R	30001040000B806C3	2/00F00/1/7D90	16D1/1010D0	5058'	
00020068 00020070	7C06AB00 01040000 B806C340 0E004147			3003	DC X DI 00700	03041471 07C00AD	0001040000000000	,4002004147050	001401000	3030	
00020078 00020080 00020088	D906D140 10D05058 DFC6DC00 D0F0D1D4 7C073700 43310000			3666	DC X'DFC6DC0	0D0F0D1D47C0737	0043310000DB0730	05FF900044000	000000000	0000'	
00020090 00020098 000200A0	DB073C05 FF900044 00000000 00000000 DF075C18 12404100			3667	DC X'DF075C1	812404100DD077C	.004B505818DA078 <i>F</i>	N0547C94058D30	797181258	054B'	
000200A8 000200B0 000200B8	DD077C00 4B505818 DA078A05 47C94058 D3079718 1258054B										
000200C0 000200C8	DF079E12 581740D2 6007F000 58500000 DC07F3F5 78F05875			3668	DC X'DF079E1	2581740D26007F0	0058500000DC07F3	3F578F05875DF0	80600F055	6678'	
000200D8 000200E0	DF080600 F0556678 DC082500 05475841			3669	DC X'DC08250	00547584130083D	00000000000AC083E	4707404158600	8454B58FF	0000'	
000200F0	30083D00 00000000 AC083E47 07404158 6008454B 58FF0000										
				5710	PRINT OFF PRINT ON						
	00000000 00000000 0000000 00000000 201FFFF0 00000000			5711	DC X'0000000	90000000000000000000000000000000000000	00000000000201FFF	F00000000000000	000000000	0000'	
	00000000 00000000	00010000	00000001	5712	CDICTSIZ EQU	*-CMPDICT	Compressio	on dictionary	size		

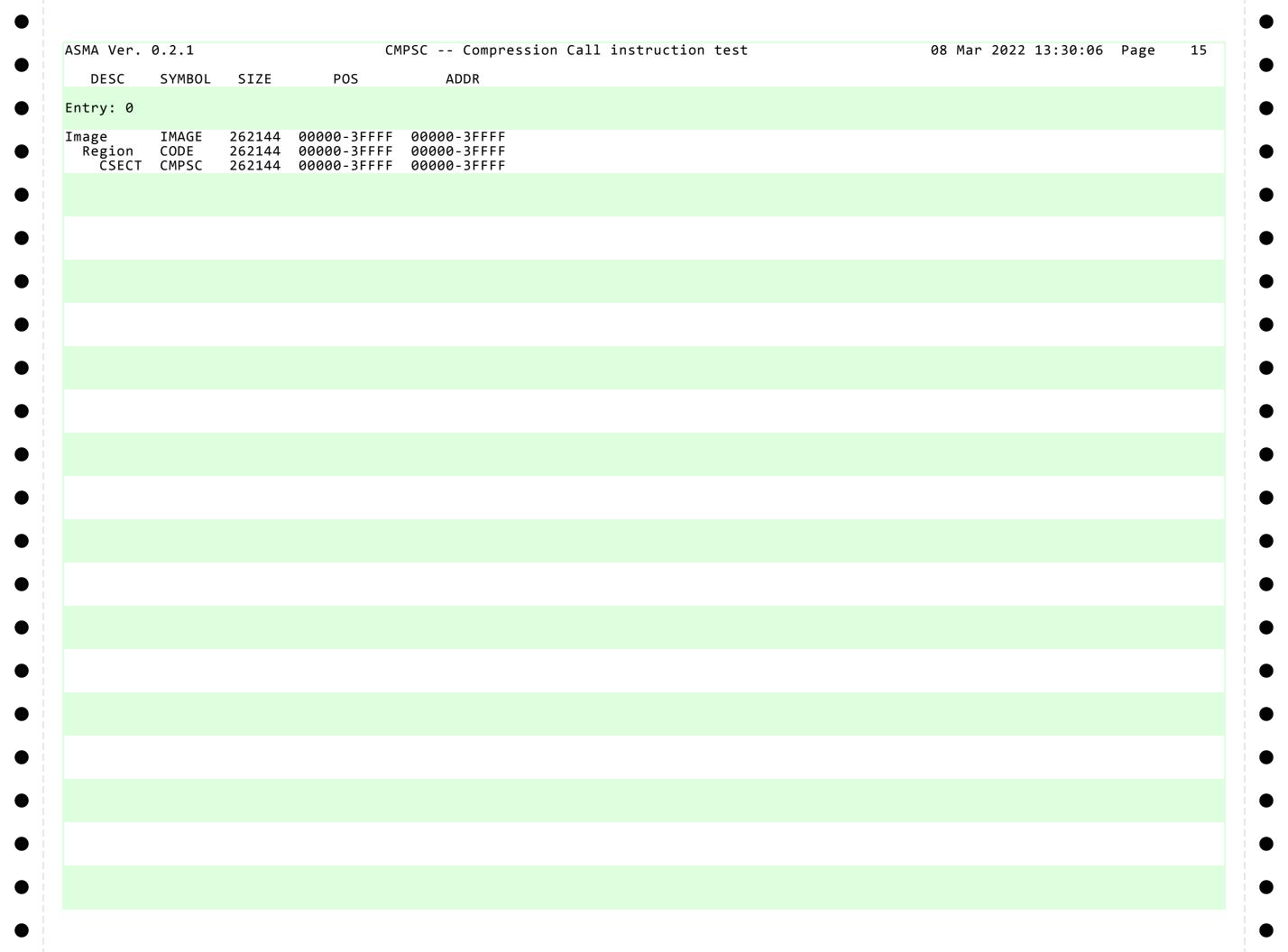
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LOC	OBJECT CODE	ADDR1	ADDR2	STMT							

00030000		00030000	00030000	5718	ORG	CMPSC+EDICTA	ADR Expansion	dictionary			
00030000	23700400 D3E9C	00030000 4C8	00000001	5720 5721		* 0D3E9C4C800006	Expansion 00000040000000000	dictionary 00000010000FFF	F00000000	1EDB'	
00030008 00030010 00030018 00030020 00030028 00030030	00000000 00400 00020000 00010 FFFF0000 00001 00002000 00000 00000000 00005 00005200 4654F	000 EDB 020 300		5722	DC X'0000200	00000002000000	00000000530000005	2004654FD38000	000000000	0000'	
00030038 00030040 00030048	00000000 00000 00000000 00000 00000000 00000	000 000		5723	DC X'0000000	9000000000000000	00000000000000000	00000000000000	000000000	0000'	
00030050 00030058 00030060 00030068 00030070	00000000 00000 00000000 00000 00000000 00000 000000	000 000 000 000		5724	DC X'0000000	30000000000000000000000000000000000000	000000000000000000000000000000000000000	00000000000000	000000000	0000'	
00030078 00030080 00030088 00030090	00000000 00000 00000000 00000 00000000 00000	000 000		5725	DC X'0000000	3000000000000000	000000000000000000000000000000000000000	00000000000000	000000000	0000'	
00030098 000300A0 000300A8 000300B0	00000000 00000 00000000 00000 00000000 00000	000 000		5726	DC X'0000000	300000000000000	00000000000000000	00000000000000	000000000	0000'	
000300B8 000300C0 000300C8	00000000 00000 00000000 00000 00000000 00000	000 000		5727	DC X'0000000	30000000000000	00000000000000000	00000000000000	000000000	0000'	
000300D0 000300D8 000300E0 000300E8	00000000 00000 0000000 00000	000 000		5728	DC X'0000000	9000000000000000	000000000000000000	00000000000000	000000000	0000'	
000300F0	00000000 00000 00000000 00000	000		5729 7769	PRINT OFF PRINT ON						
0003FFF0	03FF4770 00000 03FFF0F0 00000	000 000				00000000003FF4	17700000000003FFF	0F000000000004F	FF0F0F000	0000'	
0003FFF8	04FFF0F0 F0000	000 00010000	00000001	7771	EDICTSIZ EQU	*-EXPDICT	Expansion	dictionary si	ze		

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LOC	OBJECT CODE	ADDR1	ADDR2	STMT						
		00000000	00000001		EQU	0				
		00000001 00000002 00000003	00000001 00000001 00000001	7776 R2 7777 R3	EQU	0 1 2 3				
		00000004 00000005 00000006	00000001 00000001 00000001	7779 R5 7780 R6	EQU EQU EQU EQU EQU EQU EQU EQU	4 5 6				
		00000007 00000008 00000009 0000000A	00000001 00000001 00000001	7782 R8	EQU EQU	6 7 8 9 10				
		0000000A 0000000B 0000000C 0000000D	00000001 00000001	7785 R11 7786 R12 7787 R13	EQU EQU EQU	11 12 13				
		0000000E	00000001 00000001	7788 R14	EQU EQU	14 15				
				7791	END					

ASMA Ver. 0.2.1			CMF	SC	Compre	ssion	Call i	nstruc	tion t	est				08 Mar	2022 13:	30:06	Page	13
SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFER	ENCES												
BEGIN	Н	000200	2		3543													
CDICTADR	U	020000	1	3623	3659	3629												
CDICTSIZ	U	010000	1	5712	2550													
CMPADDR	U	002000	1	3621	3559													
CMPDICT	U	020000	1	3661	5712	2547	2524	2542	2544	2622	2640	2650	F710	2554				
CMPSC	J	000000	262144	3507	3510	3517	3531	3542	3544	3632	3640	3659	5/18	3551				
CMP_RØ	X	0002D0	8	3627	3557													
CMP_R1	A	0002E0	262144	3629	3558													
CODE DWAT0009	2	000000 000288	262144	3507 3599	3598													
DWAT0009 DWAT0010	3 3	000288	8 8	3604	3603													
EDICTADR	U	030000	0	3624	5718	3630												
EDICTADK	U	010000	1	7771	3/10	3030												
EXPADDR	11	003000	1	3622	3575													
EXPDICT	U	030000	1	5720	7771													
EXP RØ	X	0002D8	8	3628	3573													
EXP_R1	A	0002E8	8	3630	3574													
FAILEOJ	H	000290	2	3602	3589													
FLAGADDR	Ü	000500	1	3618	3632													
GOODEOJ	Ī	000280	4	3595	3588													
IMAGE	1	000000	262144	0														
INADDR	Ū	001000	1	3620	3640	3561												
INFILE	U	001000	1	3642	3653													
INSIZE	U	000140	1	3653	3562													
PREVORG	U	000200	1	3530	3534													
RØ	U	000000	1	7774	3551	3557	3573											
R1	U	000001	1	7775	3558	3574												
R10	U	0000A	1	7784														
R11	U	00000B	1	7785														
R12	U	00000C	1	7786														
R13	U	00000D	1	7787														
R14	U	00000E	1	7788														
R15	U	00000F 000002	1	7789 7776	3559	2562	2575	3570	3203	3587								
R2 R3	U	000002	1	7776 7777	3560	3563 3568	3575 3576	3579 3584	3583	330/								
R4	II	000003	1	7778	3561	3563	3577	3579	3585	3587								
R5	IJ	000004	1	7779	3562	3578	3586			5507								
R6	IJ	000005	1	7780	3567	3568	3569	3578										
R7	Ū	000007	1	7781		2200		22.0										
R8	Ū	000008	1	7782														
R9	Ū	000009	1	7783														
TESTFLAG	Χ	000500	1	3634	3595													
=AD(1)	Α	0002C0	8	3615	3569													
=AD(1024)	Α	0002A8	8	3612	3560	3567	3576											
=AD(CMPADDR)	Α	0002A0	8	3611	3559	3577												
=AD(EXPADDR)	Α	0002C8	8	3616	3575	3585												
=AD(INADDR)	Α	0002B0	8	3613	3561	3583												
=AD(INSIZE)	Α	0002B8	8	3614	3562	3584	3586											

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MACRO	DEFN	REFEREN	NCES			
ANTR APROB	101 233					
ARCHIND	393	3424				
ARCHLVL	534	3423				
ASAIPL	660	3540				
ASALOAD	740	3506				
ASAREA	795					
ASAZAREA	980					
CPUWAIT	1063					
DSECTS	1389					
DWAIT	1592	3597	3601			
DWAITEND	1649	3596				
ENADEV	1657					
ESA390	1757					
IOCB TOCBDS	1768 1944					
IOCBDS IOFMT	1944					
IOINIT	2316					
IOTRFR	2357					
ORB	2405					
POINTER	2594					
PSWFMT	2622					
RAWAIT	2756					
RAWIO	2852					
SIGCPU	3010					
SMMGR	3068					
SMMGRB	3168	2540				
TRAP128	3217	3518	2511			
TRAP64 TRAPS	3194 3230	3508	3511			
ZARCH	3304					
ZEROH	3316					
ZEROL	3344					
ZEROL ZEROLH ZEROLL	3372					
ZEROLL	3395					



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S	ТМТ		F)	LE NAME							
1 2	c:\ C:\	Users\Fish\Documents\Visual Users\Fish\Documents\Visual	Studio 2008\Proje Studio 2008\Proje	ects\MyProj ects\Hercul	jects\ASMA-0\CMPSC\CMPSC.as Les_Git_Harold\SATK-0\sro	sm casm\satk.r	nac				
** N	O ERR	ORS FOUND **									