

LOC	OBJECT CODE	ADDR1	ADDR2	STMT
				44 *****
				45 * TEST PROGRAM
				46 *****
				47
000001E0		000001E0	00000200	48 ORG START+X'200' START OF TEST PROGRAM
				49
00000200	EB02 0430 0004		00000430	50 BEGIN LMG R0,R2,TESTVALS Load test registers
				51
00000206	B904 0030			52 LGR R3,R0
0000020A	B904 0040			53 LGR R4,R0
0000020E	B904 0050			54 LGR R5,R0
00000212	B904 0060			55 LGR R6,R0
00000216	B904 0070			56 LGR R7,R0
0000021A	B904 0080			57 LGR R8,R0
0000021E	B904 0090			58 LGR R9,R0
00000222	B904 00A0			59 LGR R10,R0
00000226	B904 00B0			60 LGR R11,R0
0000022A	B904 00C0			61 LGR R12,R0
0000022E	B904 00D0			62 LGR R13,R0
00000232	B904 00E0			63 LGR R14,R0
00000236	B904 00F0			64 LGR R15,R0
				65
				66
				67
				68 *-----
				69 * LOAD AND ZERO RIGHTMOST BYTE (64)
				70 *-----
				71
0000023A	E330 0438 002A		00000438	72 LZRG R3,ONES E3r00aaa002A
00000240	E330 0448 0021		00000448	73 CLG R3,LZRB64 Correct value loaded?
00000246	A784 0004		0000024E	74 JE *+8 Yes, continue on to next test
0000024A	A7F5 0092		0000036E	75 JAS R15,FAILURE No, abort
				76
				77 *-----
				78 * LOAD AND ZERO RIGHTMOST BYTE (32)
				79 *-----
				80
0000024E	E340 0438 003B		00000438	81 LZRF R4,ONES E3r00aaa003B
00000254	E340 0458 0021		00000458	82 CLG R4,LZRB32 Correct value loaded?
0000025A	A784 0004		00000262	83 JE *+8 Yes, continue on to next test
0000025E	A7F5 0088		0000036E	84 JAS R15,FAILURE No, abort
				85
				86 *-----
				87 * LOAD LOGICAL AND ZERO RIGHTMOST BYTE (64 <- 32)
				88 *-----
				89
00000262	E350 0438 003A		00000438	90 LLZRGF R5,ONES E3r00aaa003A
00000268	E350 0450 0021		00000450	91 CLG R5,LZRB64L Correct value loaded?
0000026E	A784 0004		00000276	92 JE *+8 Yes, continue on to next test
00000272	A7F5 007E		0000036E	93 JAS R15,FAILURE No, abort

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT
					95 *-----
					96 * Initialize condition code...
					97 *-----
					98
00000276	B902	0000			99 LTGR R0,R0 Set condition code 0 (i.e. '8')
					100
					101 *-----
					102 * LOAD HALFWORD HIGH IMMEDIATE ON CONDITION (32 <- 16)
					103 *-----
					104
0000027A	EC67	FFFF	004E		105 LOCHHI R6,-1,7 ECrmiiii004E
00000280	E360	0430	0021	00000430	106 CLG R6,ZEROS Correct value loaded?
00000286	A784	0004		0000028E	107 JE *+8 Yes, continue on to next test
0000028A	A7F5	0072		0000036E	108 JAS R15,FAILURE No, abort
					109
0000028E	EC68	FFFF	004E		110 LOCHHI R6,-1,8 ECrmiiii004E
00000294	E360	0460	0021	00000460	111 CLG R6,LOC32H Correct value loaded?
0000029A	A784	0004		000002A2	112 JE *+8 Yes, continue on to next test
0000029E	A7F5	0068		0000036E	113 JAS R15,FAILURE No, abort
					114
					115 *-----
					116 * LOAD HALFWORD IMMEDIATE ON CONDITION (32 <- 16)
					117 *-----
					118
000002A2	EC77	FFFF	0042		119 LOCHI R7,-1,7 ECrmiiii0042
000002A8	E370	0430	0021	00000430	120 CLG R7,ZEROS Correct value loaded?
000002AE	A784	0004		000002B6	121 JE *+8 Yes, continue on to next test
000002B2	A7F5	005E		0000036E	122 JAS R15,FAILURE No, abort
					123
000002B6	EC78	FFFF	0042		124 LOCHI R7,-1,8 ECrmiiii0042
000002BC	E370	0468	0021	00000468	125 CLG R7,LOC32 Correct value loaded?
000002C2	A784	0004		000002CA	126 JE *+8 Yes, continue on to next test
000002C6	A7F5	0054		0000036E	127 JAS R15,FAILURE No, abort
					128
					129 *-----
					130 * LOAD HALFWORD IMMEDIATE ON CONDITION (64 <- 16)
					131 *-----
					132
000002CA	EC87	FFFF	0046		133 LOCGHI R8,-1,7 ECrmiiii0046
000002D0	E380	0430	0021	00000430	134 CLG R8,ZEROS Correct value loaded?
000002D6	A784	0004		000002DE	135 JE *+8 Yes, continue on to next test
000002DA	A7F5	004A		0000036E	136 JAS R15,FAILURE No, abort
					137
000002DE	EC88	FFFF	0046		138 LOCGHI R8,-1,8 ECrmiiii0046
000002E4	E380	0470	0021	00000470	139 CLG R8,LOC64 Correct value loaded?
000002EA	A784	0004		000002F2	140 JE *+8 Yes, continue on to next test
000002EE	A7F5	0040		0000036E	141 JAS R15,FAILURE No, abort

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT			
					143	*	-----	
					144	*	LOAD HIGH ON CONDITION (32)	
					145	*	-----	
					146			
000002F2	B9E0	7091			147		LOCFHR	R9,R1,7 B9E0m0xy
000002F6	E390	0430	0021	00000430	148		CLG	R9,ZEROS Correct value loaded?
000002FC	A784	0004		00000304	149		JE	*+8 Yes, continue on to next test
00000300	A7F5	0037		0000036E	150		JAS	R15,FAILURE No, abort
					151			
00000304	B9E0	8091			152		LOCFHR	R9,R1,8 B9E0m0xy
00000308	E390	0478	0021	00000478	153		CLG	R9,LOC3211S Correct value loaded?
0000030E	A784	0004		00000316	154		JE	*+8 Yes, continue on to next test
00000312	A7F5	002E		0000036E	155		JAS	R15,FAILURE No, abort
					156			
					157	*	-----	
					158	*	LOAD HIGH ON CONDITION (32)	
					159	*	-----	
					160			
00000316	EBA7	0438	00E0	00000438	161		LOCFH	R10,ONES,7 EBrm0aaa00E0
0000031C	E3A0	0430	0021	00000430	162		CLG	R10,ZEROS Correct value loaded?
00000322	A784	0004		0000032A	163		JE	*+8 Yes, continue on to next test
00000326	A7F5	0024		0000036E	164		JAS	R15,FAILURE No, abort
					165			
0000032A	EBA8	0438	00E0	00000438	166		LOCFH	R10,ONES,8 EBrm0aaa00E0
00000330	E3A0	0478	0021	00000478	167		CLG	R10,LOC3211S Correct value loaded?
00000336	A784	0004		0000033E	168		JE	*+8 Yes, continue on to next test
0000033A	A7F5	001A		0000036E	169		JAS	R15,FAILURE No, abort
					170			
					171	*	-----	
					172	*	STORE HIGH ON CONDITION	
					173	*	-----	
					174			
0000033E	EB17	0480	00E1	00000480	175		STOCFH	R1,STOCFH,7 EBrm0aaa00E1
00000344	E320	0480	0021	00000480	176		CLG	R2,STOCFH Correct value stored?
0000034A	A784	0004		00000352	177		JE	*+8 Yes, continue on to next test
0000034E	A7F5	0010		0000036E	178		JAS	R15,FAILURE No, abort
					179			
					180			
00000352	EB18	0480	00E1	00000480	181		STOCFH	R1,STOCFH,8 EBrm0aaa00E1
00000358	D507	0480	0488	00000488	182		CLC	STOCFH,STOCFH1F Correct value stored?
0000035E	A784	0004		00000366	183		JE	*+8 Yes, continue on to next test
00000362	A7F5	0006		0000036E	184		JAS	R15,FAILURE No, abort

LOC	OBJECT CODE	ADDR1	ADDR2	STMT
				186 *-----
				187 * SUCCESSFUL END OF TEST
				188 *-----
				189
00000366	A7F4 0002		0000036A	190 J SUCCESS SUCCESSFUL END OF TEST
				191
				192
				193
				194
				195 *****
				196 * WORKING STORAGE
				197 *****
				198
0000036A	B2B2 0400		00000400	199 SUCCESS LPSWE GOODPSW Load test completed successfully PSW
0000036E	B2B2 0410		00000410	200 FAILURE LPSWE BADPSW Load the test FAILED somewhere!! PSW
00000372	B2B2 0420		00000420	201 PROGCHK LPSWE DEADBEEF Load "A PROGRAM-CHECK OCCURRED!" PSW
				202
				203
00000376		00000376	00000400	204 ORG START+X'400'
				205
				206
00000400	00020001 80000000			207 GOODPSW DC XL8'0002000180000000'
00000408	00000000 00000000			208 DC XL4'00000000',A(X'00000000')
				209
				210
00000410	00020001 80000000			211 BADPSW DC XL8'0002000180000000'
00000418	00000000 00000BAD			212 DC XL4'00000000',A(X'00000BAD')
				213
				214
00000420	00020001 80000000			215 DEADBEEF DC XL8'0002000180000000'
00000428	00000000 DEADBEEF			216 DC XL4'00000000',A(X'DEADBEEF')
				217
				218
				219
				220
		00000430	00000001	221 TESTVALS EQU *
00000430	00000000 00000000			222 ZEROS DC XL8'0000000000000000'
00000438	11111111 11111111			223 ONES DC XL8'1111111111111111'
00000440	FFFFFFFF FFFFFFFF			224 HEXFFS DC XL8'FFFFFFFFFFFFFFFF'
				225
				226
00000448	11111111 11111100			227 LZRB64 DC XL8'1111111111111100'
00000450	00000000 11111100			228 LZRB64L DC XL8'0000000011111100'
00000458	00000000 11111100			229 LZRB32 DC XL8'0000000011111100'
00000460	FFFFFFFF 00000000			230 LOC32H DC XL8'FFFFFFFF00000000'
00000468	00000000 FFFFFFFF			231 LOC32 DC XL8'00000000FFFFFFFF'
00000470	FFFFFFFF FFFFFFFF			232 LOC64 DC XL8'FFFFFFFFFFFFFFFF'
00000478	11111111 00000000			233 LOC3211S DC XL8'1111111100000000'
00000480	FFFFFFFF FFFFFFFF			234 STOCFH DC XL8'FFFFFFFFFFFFFFFF'
00000488	11111111 FFFFFFFF			235 STOCFH1F DC XL8'11111111FFFFFFFF'
				236
				237

LOC

OBJECT CODE

ADDR1

ADDR2

STMT

238

239

END

SymBOL	TYPE	VALUE	LENGTH	DEFN	REFERENCES
BADPSW	X	000410	8	211	200
BEGIN	I	000200	6	50	36
DEADBEEF	X	000420	8	215	201
FAC53TST	J	000000	1168	3	
FAILURE	I	00036E	4	200	75 84 93 108 113 122 127 136 141 150 155 164 169 178 184
GOODPSW	X	000400	8	207	199
HEXFFS	X	000440	8	224	
IMAGE	1	000000	1168	0	
LOC32	X	000468	8	231	125
LOC3211S	X	000478	8	233	153 167
LOC32H	X	000460	8	230	111
LOC64	X	000470	8	232	139
LZRB32	X	000458	8	229	82
LZRB64	X	000448	8	227	73
LZRB64L	X	000450	8	228	91
ONES	X	000438	8	223	72 81 90 161 166
PROGCHK	I	000372	4	201	42
R0	U	000000	1	10	30 50 52 53 54 55 56 57 58 59 60 61 62 63 64 99
R1	U	000001	1	11	147 152 175 181
R10	U	00000A	1	20	59 161 162 166 167
R11	U	00000B	1	21	60
R12	U	00000C	1	22	61
R13	U	00000D	1	23	62
R14	U	00000E	1	24	63
R15	U	00000F	1	25	64 75 84 93 108 113 122 127 136 141 150 155 164 169 178 184
R2	U	000002	1	12	50 176
R3	U	000003	1	13	52 72 73
R4	U	000004	1	14	53 81 82
R5	U	000005	1	15	54 90 91
R6	U	000006	1	16	55 105 106 110 111
R7	U	000007	1	17	56 119 120 124 125
R8	U	000008	1	18	57 133 134 138 139
R9	U	000009	1	19	58 147 148 152 153
START	U	000000	1	5	34 40 48 204 30
STOCFH	X	000480	8	234	175 176 181 182
STOCFH1F	X	000488	8	235	182
SUCCESS	I	00036A	4	199	190
TESTVALS	U	000430	1	221	50
ZEROS	X	000430	8	222	106 120 134 148 162

MACRO DEFN REFERENCES

No defined macros

DESC	SYMBOL	SIZE	POS	ADDR
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Entry: 0

Image	IMAGE	1168	000-48F	000-48F
Region		1168	000-48F	000-48F
CSECT	FAC53TST	1168	000-48F	000-48F

STMT

FILE NAME

```
1 c:\Users\Fish\Documents\Visual Studio 2008\Projects\MyProjects\ASMA-0\FAC53\FAC53.asm
```

```
** NO ERRORS FOUND **
```