

LOC	OBJECT CODE	ADDR1	ADDR2	STMT
				2 **** 3 * FAC5861.ASM 4 **** 5 * 6 * This program performs a quick test of the instructions defined by 7 * the new Miscellaneous-Instruction-Extensions Facilities 2 and 3. 8 * It is NOT a comprehensive test. It does not, for example, check 9 * for proper detection of overflow and/or boundary conditions, etc. 10 * It simply verifies a simple execution of each instruction produces 11 * the expected results. Nothing more. 12 * 13 ****
00000000	00000000 00000000	00000000 000010F8	15 FAC5861	START 0
			16	USING FAC5861,R0
00000000	00000001 80000000	00000000 000001A0	18	ORG FAC5861+X'1A0' z Restart New PSW
000001A0			19	DC X'0000000180000000',AD(BEGIN)
000001B0	00000001 80000000	000001B0 000001D0	21	ORG FAC5861+X'1D0' z Program New PSW
000001D0			22	ZPGMNEW DC X'0000000180000000',AD(PGMCHK)
			24	***** 25 * Start of actual program... 26 *****
000001E0		000001E0 00000200	28	ORG FAC5861+X'200' So no base registers needed
00000200	4100 001F	0000001F	30	BEGIN LA R0,(L'FACLIST/8)-1
00000204	B2B0 0800	00000800	31	STFLE FACLIST
00000208	9120 0807	00000807	33	TM FACLIST+M2FACBYT,M2FACBIT
0000020C	A784 037A	00000900	34	JZ M2FAIL
00000210	9104 0807	00000807	36	TM FACLIST+M3FACBYT,M3FACBIT
00000214	A784 037A	00000908	37	JZ M3FAIL

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	
				39 ****	*****
				40 * Miscellaneous-Instruction-Extensions Facility 2	
				41 ****	*****
				42 *	
				43 ** Add Halfword	
				44 *	
00000218	9201 093F	0000093F	45	MVI FAILPSW+16-1,X'01' Test number...	
0000021C	E300 0950 0004	00000950	46	LG R0,=XL8'0000000000000001'	
00000222	E300 0A5C 0038	00000A5C	47	AGH R0,=H'123'	
00000228	A7D4 0194	00000550	48	BRC B'1101', FAILURE	not cc2 > 0, no oflow
0000022C	E300 0958 0020	00000958	49	CG R0,=XL8'000000000000007C'	
00000232	A774 018F	00000550	50	JNE FAILURE	
			51 *		
00000236	E300 0960 0004	00000960	52	LG R0,=XL8'FFFFFFFFFFFF'	
0000023C	E300 0A5E 0038	00000A5E	53	AGH R0,=H'-123'	
00000242	A7B4 0187	00000550	54	BRC B'1011', FAILURE	not cc1 < 0, no oflow
00000246	E300 0968 0020	00000968	55	CG R0,=XL8'FFFFFFFFFFFF84'	
0000024C	A774 0182	00000550	56	JNE FAILURE	
			57 *		
00000250	E300 0960 0004	00000960	58	LG R0,=XL8'FFFFFFFFFFFF'	
00000256	E300 0A60 0038	00000A60	59	AGH R0,=H'1'	
0000025C	A774 017A	00000550	60	BRC B'0111', FAILURE	not cc0 = 0, no oflow
00000260	E300 0970 0020	00000970	61	CG R0,=XL8'0000000000000000'	
00000266	A774 0175	00000550	62	JNE FAILURE	
			64 *		
			65 ** Subtract Halfword		
			66 *		
0000026A	9202 093F	0000093F	67	MVI FAILPSW+16-1,X'02' Test number...	
0000026E	E300 0950 0004	00000950	68	LG R0,=XL8'0000000000000001'	
00000274	E300 0A5C 0039	00000A5C	69	SGH R0,=H'123'	
0000027A	A7B4 016B	00000550	70	BRC B'1011', FAILURE	not cc1 < 0, no oflow
0000027E	E300 0978 0020	00000978	71	CG R0,=XL8'FFFFFFFFFFFF86'	
00000284	A774 0166	00000550	72	JNE FAILURE	
			73 *		
00000288	E300 0960 0004	00000960	74	LG R0,=XL8'FFFFFFFFFFFF'	
0000028E	E300 0A5E 0039	00000A5E	75	SGH R0,=H'-123'	
00000294	A7D4 015E	00000550	76	BRC B'1101', FAILURE	not cc2 > 0, no oflow
00000298	E300 0980 0020	00000980	77	CG R0,=XL8'000000000000007A'	
0000029E	A774 0159	00000550	78	JNE FAILURE	
			79 *		
000002A2	E300 0960 0004	00000960	80	LG R0,=XL8'FFFFFFFFFFFF'	
000002A8	E300 0A62 0039	00000A62	81	SGH R0,=H'-1'	
000002AE	A774 0151	00000550	82	BRC B'0111', FAILURE	not cc0 = 0, no oflow
000002B2	E300 0970 0020	00000970	83	CG R0,=XL8'0000000000000000'	
000002B8	A774 014C	00000550	84	JNE FAILURE	

LOC	OBJECT CODE	ADDR1	ADDR2	STMT
				86 *
				87 ** Multiply Halfword
				88 *
000002BC	9203 093F	0000093F	89	MVI FAILPSW+16-1,X'03' Test number...
000002C0	E300 0960 0004	00000960	90	LG R0,=XL8'FFFFFFFFFFFFFF'
000002C6	E300 0A5C 003C	00000A5C	91	MGH R0,=H'123'
000002CC	E300 0988 0020	00000988	92	CG R0,=XL8'FFFFFFFFFFFF85'
000002D2	A774 013F	00000550	93	JNE FAILURE
				95 *
				96 ** Multiply
				97 *
000002D6	9204 093F	0000093F	98	MVI FAILPSW+16-1,X'04' Test number...
000002DA	E320 0990 0004	00000990	99	LG R2,=XL8'0000000000000007B'
000002E0	B9EC 2002		100	MGRK R0,R2,R2
000002E4	B902 0000		101	LTGR R0,R0
000002E8	A774 0134	00000550	102	JNZ FAILURE
000002EC	E310 0998 0020	00000998	103	CG R1,=XL8'000000000003B19'
000002F2	A774 012F	00000550	104	JNE FAILURE
				105 *
000002F6	9205 093F	0000093F	106	MVI FAILPSW+16-1,X'05' Test number...
000002FA	E310 0990 0004	00000990	107	LG R1,=XL8'0000000000000007B'
00000300	E300 0990 0084	00000990	108	MG R0,=XL8'0000000000000007B'
00000306	B902 0000		109	LTGR R0,R0
0000030A	A774 0123	00000550	110	JNZ FAILURE
0000030E	E310 0998 0020	00000998	111	CG R1,=XL8'000000000003B19'
00000314	A774 011E	00000550	112	JNE FAILURE

LOC	OBJECT CODE	ADDR1	ADDR2	STMT
				114 *
				115 ** Multiply Single
				116 *
00000318	9206 093F	0000093F	117	MVI FAILPSW+16-1,X'06' Test number...
0000031C	5810 0A30	00000A30	118	L R1,=XL4'7FFFFFF'
00000320	5820 0A34	00000A34	119	L R2,=F'34800'
00000324	B9FD 2001		120	MSRK C R0,R1,R2
00000328	A7E4 0114	00000550	121	JNO FAILURE
0000032C	5900 0A38	00000A38	122	C R0,=XL4'FFFF7810'
00000330	A774 0110	00000550	123	JNE FAILURE
			124 *	
00000334	9207 093F	0000093F	125	MVI FAILPSW+16-1,X'07' Test number...
00000338	5800 0A30	00000A30	126	L R0,=XL4'7FFFFFF'
0000033C	E300 0A34 0053	00000A34	127	MSC R0,=F'34800'
00000342	A7E4 0107	00000550	128	JNO FAILURE
00000346	5900 0A38	00000A38	129	C R0,=XL4'FFFF7810'
0000034A	A774 0103	00000550	130	JNE FAILURE
			131 *	
0000034E	9208 093F	0000093F	132	MVI FAILPSW+16-1,X'08' Test number...
00000352	E310 09A0 0004	000009A0	133	LG R1,=XL8'000000007FFFFFF'
00000358	E320 09A8 0004	000009A8	134	LG R2,=D'34800'
0000035E	B9ED 2001		135	MSGRKC R0,R1,R2
00000362	A7D4 00F7	00000550	136	JNP FAILURE
00000366	E300 09B0 0020	000009B0	137	CG R0,=XL8'000043F7FFFF7810'
0000036C	A774 00F2	00000550	138	JNE FAILURE
			139 *	
00000370	9209 093F	0000093F	140	MVI FAILPSW+16-1,X'09' Test number...
00000374	E300 09A0 0004	000009A0	141	LG R0,=XL8'000000007FFFFFF'
0000037A	E300 09A8 0083	000009A8	142	MSG C R0,=D'34800'
00000380	A7D4 00E8	00000550	143	JNP FAILURE
00000384	E300 09B0 0020	000009B0	144	CG R0,=XL8'000043F7FFFF7810'
0000038A	A774 00E3	00000550	145	JNE FAILURE
			147 *	
			148 **	Branch Indirect On Condition
			149 *	
0000038E	9210 093F	0000093F	150	MVI FAILPSW+16-1,X'10' Test number...
00000392	E380 0910 0047	00000910	151	BIC B'1000',ADDRAAAA
00000398	A7F4 00DC	00000550	152	BBB B FAILURE
0000039C	E370 0918 0047	00000918	153	AAA BIC B'0111',ADDRBBBB

LOC	OBJECT CODE	ADDR1	ADDR2	STMT
				155 **** 156 * Miscellaneous-Instruction-Extensions Facility 3 157 **** 158 * 159 ** And With Complement 160 *
000003A2	9211 093F	0000093F	161	MVI FAILPSW+16-1,X'11' Test number...
000003A6	5810 0A3C	00000A3C	162	L R1,=XL4'81818181'
000003AA	5820 0A40	00000A40	163	L R2,=XL4'01010101'
000003AE	B9F5 2001		164	NCRK R0,R1,R2
000003B2	5900 0A44	00000A44	165	C R0,=XL4'80808080'
000003B6	A774 00CD	00000550	166	JNE FAILURE
000003BA	9212 093F	0000093F	167 *	MVI FAILPSW+16-1,X'12' Test number...
000003BE	E310 09B8 0004	000009B8	168	LG R1,=XL8'81818181818181'
000003C4	E320 09C0 0004	000009C0	169	LG R2,=XL8'0101010101010101'
000003CA	B9E5 2001		170	NCGRK R0,R1,R2
000003CE	E300 09C8 0020	000009C8	171	CG R0,=XL8'8080808080808080'
000003D4	A774 00BE	00000550	172	JNE FAILURE
			173	
			175 *	
			176 **	Move Right To Left
			177 *	
000003D8	9213 093F	0000093F	178	MVI FAILPSW+16-1,X'13' Test number...
000003DC	4100 00FF	000000FF	179	LA R0,256-1
000003E0	E50A 0CC1 0FF9	00000CC1	180	MVCRL DST,SRC
000003E6	D5FF 0CC1 0FF9	00000CC1	181	CLC DST,SRC
000003EC	4770 0550	00000550	182	BNE FAILURE
			184 *	
			185 **	Nand
			186 *	
000003F0	9214 093F	0000093F	187	MVI FAILPSW+16-1,X'14' Test number...
000003F4	5810 0A3C	00000A3C	188	L R1,=XL4'81818181'
000003F8	5820 0A48	00000A48	189	L R2,=XL4'F0F0F0F0'
000003FC	B974 2001		190	NNRK R0,R1,R2
00000400	5900 0A4C	00000A4C	191	C R0,=XL4'7F7F7F7F'
00000404	A774 00A6	00000550	192	JNE FAILURE
			193 *	
00000408	9215 093F	0000093F	194	MVI FAILPSW+16-1,X'15' Test number...
0000040C	E310 09B8 0004	000009B8	195	LG R1,=XL8'81818181818181'
00000412	E320 09D0 0004	000009D0	196	LG R2,=XL8'F0F0F0F0F0F0F0F0'
00000418	B964 2001		197	NNGRK R0,R1,R2
0000041C	E300 09D8 0020	000009D8	198	CG R0,=XL8'7F7F7F7F7F7F7F7F'
00000422	A774 0097	00000550	199	JNE FAILURE

LOC	OBJECT CODE	ADDR1	ADDR2	STMT		
				201 *		
				202 **	Nor	
				203 *		
00000426	9216 093F	0000093F	204	MVI	FAILPSW+16-1,X'16'	Test number...
0000042A	5810 0A44	00000A44	205	L	R1,=XL4'80808080'	
0000042E	5820 0A50	00000A50	206	L	R2,=XL4'08080808'	
00000432	B976 2001		207	NORK	R0,R1,R2	
00000436	5900 0A54	00000A54	208	C	R0,=XL4'77777777'	
0000043A	A774 008B	00000550	209	JNE	FAILURE	
			210 *			
0000043E	9217 093F	0000093F	211	MVI	FAILPSW+16-1,X'17'	Test number...
00000442	E310 09C8 0004	000009C8	212	LG	R1,=XL8'8080808080808080'	
00000448	E320 09E0 0004	000009E0	213	LG	R2,=XL8'0808080808080808'	
0000044E	B966 2001		214	NOGRK	R0,R1,R2	
00000452	E300 09E8 0020	000009E8	215	CG	R0,=XL8'7777777777777777'	
00000458	A774 007C	00000550	216	JNE	FAILURE	
			218 *			
			219 **	Not Exclusive Or		
			220 *			
0000045C	9218 093F	0000093F	221	MVI	FAILPSW+16-1,X'18'	Test number...
00000460	5810 0A3C	00000A3C	222	L	R1,=XL4'81818181'	
00000464	5820 0A40	00000A40	223	L	R2,=XL4'01010101'	
00000468	B977 2001		224	NXRK	R0,R1,R2	
0000046C	5900 0A4C	00000A4C	225	C	R0,=XL4'7F7F7F7F'	
00000470	A774 0070	00000550	226	JNE	FAILURE	
			227 *			
00000474	9219 093F	0000093F	228	MVI	FAILPSW+16-1,X'19'	Test number...
00000478	E310 09B8 0004	000009B8	229	LG	R1,=XL8'8181818181818181'	
0000047E	E320 09C0 0004	000009C0	230	LG	R2,=XL8'0101010101010101'	
00000484	B967 2001		231	NXGRK	R0,R1,R2	
00000488	E300 09D8 0020	000009D8	232	CG	R0,=XL8'7F7F7F7F7F7F7F7F'	
0000048E	A774 0061	00000550	233	JNE	FAILURE	
			235 *			
			236 **	Or With Complement		
			237 *			
00000492	9220 093F	0000093F	238	MVI	FAILPSW+16-1,X'20'	Test number...
00000496	5810 0A44	00000A44	239	L	R1,=XL4'80808080'	
0000049A	5820 0A58	00000A58	240	L	R2,=XL4'FEFEFEFE'	
0000049E	B975 2001		241	OCRK	R0,R1,R2	
000004A2	5900 0A3C	00000A3C	242	C	R0,=XL4'81818181'	
000004A6	A774 0055	00000550	243	JNE	FAILURE	
			244 *			
000004AA	9221 093F	0000093F	245	MVI	FAILPSW+16-1,X'21'	Test number...
000004AE	E310 09C8 0004	000009C8	246	LG	R1,=XL8'8080808080808080'	
000004B4	E320 09F0 0004	000009F0	247	LG	R2,=XL8'FEFEFEFEFEFEFEFE'	
000004BA	B965 2001		248	OCGRK	R0,R1,R2	
000004BE	E300 09B8 0020	000009B8	249	CG	R0,=XL8'8181818181818181'	
000004C4	A774 0046	00000550	250	JNE	FAILURE	

LOC	OBJECT CODE	ADDR1	ADDR2	STMT
				252 *
				253 ** Select
				254 *
000004C8	9222 093F	0000093F	255	MVI FAILPSW+16-1,X'22' Test number...
000004CC	E300 09F8 0004	000009F8	256	LG R0,=XL8'1122334455667788'
000004D2	E310 0A00 0004	00000A00	257	LG R1,=XL8'AAAAAAA11111111'
000004D8	E320 0A08 0004	00000A08	258	LG R2,=XL8'BBBBBBB22222222'
000004DE	B9F0 2801		259	SELR R0,R1,R2,B'1000'
000004E2	E300 0A10 0020	00000A10	260	CG R0,=XL8'1122334411111111'
000004E8	4770 0550	00000550	261	BNE FAILURE
			262 *	
000004EC	9223 093F	0000093F	263	MVI FAILPSW+16-1,X'23' Test number...
000004F0	E300 09F8 0004	000009F8	264	LG R0,=XL8'1122334455667788'
000004F6	E310 0A00 0004	00000A00	265	LG R1,=XL8'AAAAAAA11111111'
000004FC	E320 0A08 0004	00000A08	266	LG R2,=XL8'BBBBBBB22222222'
00000502	B9E3 2801		267	SELGR R0,R1,R2,B'1000'
00000506	E300 0A00 0020	00000A00	268	CG R0,=XL8'AAAAAAA11111111'
0000050C	4770 0550	00000550	269	BNE FAILURE
			271 *	
			272 ** Select High	
			273 *	
00000510	9224 093F	0000093F	274	MVI FAILPSW+16-1,X'24' Test number...
00000514	E300 09F8 0004	000009F8	275	LG R0,=XL8'1122334455667788'
0000051A	E310 0A00 0004	00000A00	276	LG R1,=XL8'AAAAAAA11111111'
00000520	E320 0A08 0004	00000A08	277	LG R2,=XL8'BBBBBBB22222222'
00000526	B9C0 2801		278	SELFHR R0,R1,R2,B'1000'
0000052A	E300 0A18 0020	00000A18	279	CG R0,=XL8'AAAAAAA55667788'
00000530	4770 0550	00000550	280	BNE FAILURE
			282 *	
			283 ** Population Count	
			284 *	
00000534	9225 093F	0000093F	285	MVI FAILPSW+16-1,X'25' Test number...
00000538	E310 0A20 0004	00000A20	286	LG R1,=XL8'0102040810204080'
0000053E	B9E1 8001		287	POPCNT R0,R1,B'1000'
00000542	E300 0A28 0020	00000A28	288	CG R0,=D'8'
00000548	4770 0550	00000550	289	BNE FAILURE

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	
				291 **** 292 * 293 ****	SUCCESS!
0000054C	B2B2 0920	00000920	295	SUCCESS LPSWE GOODPSW	Load test completed successfully PSW
				297 **** 298 * 299 ****	FAILURE!
00000550	B2B2 0930	00000930	301	FAILURE LPSWE FAILPSW	Load the test FAILED somewhere!! PSW
				303 **** 304 * 305 ****	PROGRAM CHECK!
00000554	D200 094F 093F	0000094F	0000093F	307 PGMCHK MVC PROGPSW+16-1(1),FAILPSW+16-1	Copy test number to PSW
0000055A	B2B2 0940		00000940	308 LPSWE PROGPSW	UNEXPECTED PROGRAM CHECK

LOC	OBJECT CODE	ADDR1	ADDR2	STMT		
				310 ****	*****	*****
				311 *	WORKING STORAGE	
				312 ****	*****	*****
0000055E		0000055E	00000FF9	314	ORG	FAC5861+X'FF9'
						(odd alignment + page cross)
00000FF9				316 SRC	DS	0CL256
00000FF9	C1C1C1C1 C1C1C1C1			317	DC	256C'A'
						MVCRL instruction source operand
000010F9		000010F9	00000CC1	319	ORG	FAC5861+X'CC1'
						(odd alignment)
00000CC1				321 DST	DS	0CL256
00000CC1	C2C2C2C2 C2C2C2C2			322	DC	256C'B'
						MVCRL instruction destination operand
00000DC1		00000DC1	00000800	324	ORG	FAC5861+X'800'
						(primary working storage)
00000800	00000000 00000000			326 FACLIST	DC	XL256'00'
						Facility List
		0000003A	00000001	328 M2FACNUM	EQU	58 Miscellaneous-Instruction-Extensions Facility 2
		00000007	00000001	329 M2FACBYT	EQU	X'07'
		00000020	00000001	330 M2FACBIT	EQU	X'20'
00000900	9258 093F		0000093F	331 M2FAIL	MVI	FAILPSW+16-1,X'58'
00000904	A7F4 FE26		00000550	332	J	FAILURE
		0000003D	00000001	334 M3FACNUM	EQU	61 Miscellaneous-Instruction-Extensions Facility 3
		00000007	00000001	335 M3FACBYT	EQU	X'07'
		00000004	00000001	336 M3FACBIT	EQU	X'04'
00000908	9261 093F		0000093F	337 M3FAIL	MVI	FAILPSW+16-1,X'61'
0000090C	A7F4 FE22		00000550	338	J	FAILURE
00000910	00000000 0000039C			340 ADDRAAAA	DC	AD(AAAA)
00000918	00000000 00000398			341 ADDRBBBB	DC	AD(BBBB)
						BIC instruction branch address
00000920				343	DC	0D'0'
						(alignment)
00000920	00020001 80000000			345 GOODPSW	DC	XL8'0002000180000000'
00000928	00000000 00000000			346	DC	XL4'00000000',A(X'00000000')
00000930	00020001 80000000			348 FAILPSW	DC	XL8'0002000180000000'
00000938	00000BAD 000000FF			349	DC	XL4'00000BAD',A(X'000000FF') FF = code where we failed
00000940	00020001 80000000			351 PROGPSW	DC	XL8'0002000180000000'
00000948	0000DEAD 000000FF			352	DC	XL4'0000DEAD',A(X'000000FF') FF = code where we failed

LOC	OBJECT CODE	ADDR1	ADDR2	STMT
				354 ****
				355 * Literals Pool
				356 ****
00000950				358 LTORG ,
00000950	00000000 00000001			359 =XL8'0000000000000001'
00000958	00000000 0000007C			360 =XL8'000000000000007C'
00000960	FFFFFFFFFF FFFFFFFF			361 =XL8'FFFFFFFFFFFFFFF'
00000968	FFFFFFFFFF FFFFFF84			362 =XL8'FFFFFFFFFFF84'
00000970	00000000 00000000			363 =XL8'0000000000000000'
00000978	FFFFFFFFFF FFFFFF86			364 =XL8'FFFFFFFFFFF86'
00000980	00000000 0000007A			365 =XL8'000000000000007A'
00000988	FFFFFFFFFF FFFFFF85			366 =XL8'FFFFFFFFFFF85'
00000990	00000000 0000007B			367 =XL8'000000000000007B'
00000998	00000000 0003B19			368 =XL8'000000000003B19'
000009A0	00000000 7FFFFFFF			369 =XL8'000000007FFFFFFF'
000009A8	00000000 000087F0			370 =D'34800'
000009B0	000043F7 FFFF7810			371 =XL8'000043F7FFF7810'
000009B8	81818181 81818181			372 =XL8'81818181818181'
000009C0	01010101 01010101			373 =XL8'0101010101010101'
000009C8	80808080 80808080			374 =XL8'80808080808080'
000009D0	F0F0F0F0 F0F0F0F0			375 =XL8'F0F0F0F0F0F0F0F0'
000009D8	7F7F7F7F 7F7F7F7F			376 =XL8'7F7F7F7F7F7F7F7F'
000009E0	08080808 08080808			377 =XL8'08080808080808'
000009E8	77777777 77777777			378 =XL8'77777777777777'
000009F0	FEFEFEFE FEFEFEFE			379 =XL8'FEFEFEFEFEFEFE'
000009F8	11223344 55667788			380 =XL8'1122334455667788'
00000A00	AAAAAAA 11111111			381 =XL8'AAAAAAA11111111'
00000A08	BBBBBBBB 22222222			382 =XL8'BBBBBBBB22222222'
00000A10	11223344 11111111			383 =XL8'1122334411111111'
00000A18	AAAAAAA 55667788			384 =XL8'AAAAAAA55667788'
00000A20	01020408 10204080			385 =XL8'0102040810204080'
00000A28	00000000 00000008			386 =D'8'
00000A30	7FFFFFFF			387 =XL4'7FFFFFFF'
00000A34	000087F0			388 =F'34800'
00000A38	FFFF7810			389 =XL4'FFFF7810'
00000A3C	81818181			390 =XL4'81818181'
00000A40	01010101			391 =XL4'01010101'
00000A44	80808080			392 =XL4'80808080'
00000A48	F0F0F0F0			393 =XL4'F0F0F0F0'
00000A4C	7F7F7F7F			394 =XL4'7F7F7F7F'
00000A50	08080808			395 =XL4'08080808'
00000A54	77777777			396 =XL4'77777777'
00000A58	FEFEFEFE			397 =XL4'FEFEFEFE'
00000A5C	007B			398 =H'123'
00000A5E	FF85			399 =H'-123'
00000A60	0001			400 =H'1'
00000A62	FFFF			401 =H'-1'

LOC	OBJECT CODE	ADDR1	ADDR2	STMT
				403 **** 404 * Register equates 405 ****
	00000000	00000001	407 R0	EQU 0
	00000001	00000001	408 R1	EQU 1
	00000002	00000001	409 R2	EQU 2
	00000003	00000001	410 R3	EQU 3
	00000004	00000001	411 R4	EQU 4
	00000005	00000001	412 R5	EQU 5
	00000006	00000001	413 R6	EQU 6
	00000007	00000001	414 R7	EQU 7
	00000008	00000001	415 R8	EQU 8
	00000009	00000001	416 R9	EQU 9
	0000000A	00000001	417 R10	EQU 10
	0000000B	00000001	418 R11	EQU 11
	0000000C	00000001	419 R12	EQU 12
	0000000D	00000001	420 R13	EQU 13
	0000000E	00000001	421 R14	EQU 14
	0000000F	00000001	422 R15	EQU 15

424 END

SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFERENCES				
=D '8'	D	000A28	8	386	288				
=F '34800'	F	000A34	4	388	119	127			
=H '-1'	H	000A62	2	401	81				
=H '-123'	H	000A5E	2	399	53	75			
=H '1'	H	000A60	2	400	59				
=H '123'	H	000A5C	2	398	47	69	91		
=XL4 '01010101'	X	000A40	4	391	163	223			
=XL4 '08080808'	X	000A50	4	395	206				
=XL4 '77777777'	X	000A54	4	396	208				
=XL4 '7F7F7F7F'	X	000A4C	4	394	191	225			
=XL4 '7FFFFFFF'	X	000A30	4	387	118	126			
=XL4 '80808080'	X	000A44	4	392	165	205	239		
=XL4 '81818181'	X	000A3C	4	390	162	188	222	242	
=XL4 'F0F0F0F0'	X	000A48	4	393	189				
=XL4 'FEFEFEFE'	X	000A58	4	397	240				
=XL4 'FFFF7810'	X	000A38	4	389	122	129			
=XL8 '0000000000000000'	X	000970	8	363	61	83			
=XL8 '0000000000000001'	X	000950	8	359	46	68			
=XL8 '000000000000007A'	X	000980	8	365	77				
=XL8 '000000000000007B'	X	000990	8	367	99	107	108		
=XL8 '000000000000007C'	X	000958	8	360	49				
=XL8 '000000000003B19'	X	000998	8	368	103	111			
=XL8 '000000007FFFFFFF'	X	0009A0	8	369	133	141			
=XL8 '000043F7FFFF7810'	X	0009B0	8	371	137	144			
=XL8 '0101010101010101'	X	0009C0	8	373	170	230			
=XL8 '0102040810204080'	X	000A20	8	385	286				
=XL8 '0808080808080808'	X	0009E0	8	377	213				
=XL8 '1122334411111111'	X	000A10	8	383	260				
=XL8 '1122334455667788'	X	0009F8	8	380	256	264	275		
=XL8 '7777777777777777'	X	0009E8	8	378	215				
=XL8 '7F7F7F7F7F7F7F7F'	X	0009D8	8	376	198	232			
=XL8 '8080808080808080'	X	0009C8	8	374	172	212	246		
=XL8 '8181818181818181'	X	0009B8	8	372	169	195	229	249	
=XL8 'AAAAAAA11111111'	X	000A00	8	381	257	265	268	276	

SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFERENCES
=XL8'AAAAAAA55667788'	X	000A18	8	384	279
=XL8'BBBBBBB22222222'	X	000A08	8	382	258 266 277
=XL8'F0F0F0F0F0F0F0F0'	X	0009D0	8	375	196
=XL8'FEFEFEFEFEFEFEFE'	X	0009F0	8	379	247
=XL8'FFFFFFFFFFFF84'	X	000968	8	362	55
=XL8'FFFFFFFFFFFF85'	X	000988	8	366	92
=XL8'FFFFFFFFFFFF86'	X	000978	8	364	71
=XL8'FFFFFFFFFFFF87'	X	000960	8	361	52 58 74 80 90

MACRO DEFN REFERENCES

No defined macros

DESC	SYMBOL	SIZE	POS	ADDR
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Entry: 0

Image	IMAGE	4345	0000-10F8	0000-10F8
Region		4345	0000-10F8	0000-10F8
CSECT	FAC5861	4345	0000-10F8	0000-10F8

STMT	FILE NAME
1	c:\Users\Fish\Documents\Visual Studio 2008\Projects\MyProjects\ASMA-0\FAC5861\FAC5861.asm

** NO ERRORS FOUND **