

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD	A-ADDR	B-ADDR
101			JOB		FORTRAN COMPILER -- GEAX PHASE ONE -- PHASE 61								
102			CTL		6611								
103			*										
104			*		THIS PHASE PRINTS THE END OF COMPILATION MESSAGE, INITIALIZES								
105			*		THE SENSE LIGHTS, AND PREPARES THE BRANCH INTO THE OBJECT								
106			*		PROGRAM CODING.								
107			*										
108			X1	EQU	89			0089					
109			*										
110			*		ADDRESSES IN THE RESIDENT AREA								
111			*										
112			NSTMTS	EQU	183			0183					
113			*		NUMBER OF STATEMENTS, INCLUDING GENERATED STOP								
114			GLOBER	EQU	184			0184					
115			GOTXL	EQU	185			0185					
116			MANTIS	EQU	692			0692					
117			DORWD	EQU	695			0695					
118	*		GM61B	EQU	680			0680					
119			*		WHERE XLINKF GMWM IS WANTED IN V3M4								
120			EXT00		SNAPSH, LOADNX, CDOVLY					MACRO			
121			SNAPSH	EQU	333			0333		GEN			
122			PHASLD	EQU	381			0381		GEN			
123			SNAPEX	EQU	564			0564		GEN			
124			LOADNX	EQU	700			0700		GEN			
125			CDOVLY	EQU	700			0700		GEN			
126			TPREAD	EQU	704			0704		GEN			
127			TPERR	EQU	728			0728		GEN			
128			*										
129			EXT03		START, TOP OR PHASE 3					MACRO			
130			BEGIN3	EQU	838			0838		GEN			
131			TOP3	EQU	2600			2600		GEN			
132			*										
133			PHAS61	LDPH	GEAX ONE, LOADAD, BEGN61, , , 61					MACRO			
			*	PHAZ	LDPH [PHASID], LOADAD, ENTAD[, SKIPFG, SKIP], [NUMBER] [, HALT]					GEN			
			*	XFR	PHASZ PROHIBITED IN A MACRO					GEN			
			*							GEN			
			*	LOAD	A BLOCK					GEN			
			*							GEN			
134			)6J003	EQU	110			0110		GEN			
135			)6K003	EQU	700			0700		GEN			
136			)6L003	EQU	704			0704		GEN			
137			)6M003	EQU	728			0728		GEN			
			*							GEN			
138			ORG		201				0201				
139			PHAS61	BSS	)8J003,G		5	0201	B 257 G	GEN	1	257	
140				NOF	TO PATCH IN TRAPS FOR DEBUGGING		1	0206	N	GEN	1		
141			)0J003	EQU	*&1			0207		GEN			
142			LCA	)9J003,)	6J003		7	0207	L 281 110	GEN	1	281	110
143			BCE	)1J003,)	6K003,1 Q: LOADING FROM CARDS?		8	0214	B 250 700 1	GEN	1	250	700
144			BCE	)1J003,)	6L003&4,0 Q: LOADING FROM AUTOCODER TAPE?		8	0222	B 250 708 0	GEN	1	250	708

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD	A-ADDR	B-ADDR
145				RTW	1,LOADAD			8 0230	L %U1 838 R	GEN	1	%U1	838
146				BER	)6M003			5 0238	B 728 L	GEN	2	728	
147				CS	BEGN61,)9R003			7 0243	/ 838 285	GEN	2	838	285
148			)1J003	CS	)6K003,)9R003			7 0250	/ 700 285	GEN	2	700	285
149			)8J003	SW	)9R003			4 0257	, 285	GEN	2	285	
150				MU	%T0,)8K003,W			8 0261	M %T0 273 W	GEN	2	%T0	273
151				H	)0J003			4 0269	. 207	GEN	2	207	
152			)8K003	EQU	*&1				0273	GEN			
153			)9J003	DCW	@GEAX ONE@			9 0281		GEN	3		
154				DCW	#1			1 0282		GEN	3		
155				DC	@61@			2 0284		GEN	3		
156			)9R003	DCW	@}@			1 0285		GEN	3		
157				XFR	PHAS61				B 201		4	201	
158			*										
159				ORG	BEGIN3				0838				
160			LOADAD	EQU	*&1				0838				
161	*	838	BEGN61	LCA	W4,84 INITIALIZE			7 0838	L |54 084		5	1054	084
162		845		SW	84 SENSE			4 0845	, 084		5	084	
163		849		SW	LIGHTS			1 0849	,		5		
164		850		SW				1 0850	,		5		
165		851		CC	1			2 0851	F 1		5		
166		853		CS	332			4 0853	/ 332		5	332	
167		857		CS				1 0857	/		5		
168		858		MCW	ENDMSG,218			7 0858	M |72 218		6	1072	218
169		865		W				1 0865	2		6		
170		866		MCW	NSTMTS,X1 ENTRY ADDRESS FOR GENERATED CODE			7 0866	M 183 089		6	183	089
171		873		BW	ERRORS,GLOBER			8 0873	V |32 184 1		6	1032	184
172		881		CC	J			2 0881	F J		6		
173		883		CS	332			4 0883	/ 332		6	332	
174		887		CS				1 0887	/		6		
175		888		MCW	START,217			7 0888	M |89 217		7	1089	217
176		895		W				1 0895	2		7		
177		896	AFTERR	SW	GMWM			4 0896	, S84		7	1284	
178		900		LCA	GMWM,MANTIS&1			7 0900	L S84 693		7	1284	693
179				MCW	NOP,DORWD ASSUME LOADING FROM CARDS			7 0907	M |90 695		7	1090	695
180				BCE	XLREV,700,1			8 0914	B 929 700 1		7	929	700
181				MCW	RWD,DORWD REWIND IF LOADING FROM TAPE			7 0922	M /20 695		8	1120	695
182			*		REVERSE THE WM STATUS OF GOTXL BECAUSE THAT'S HOW THE								
183			*		LDPH MACRO WORKS								
184			XLREV	BW	NOXL,GOTXL			8 0929	V 945 185 1		8	945	185
185				SW	GOTXL SKIP PHASE 61B			4 0937	, 185		8	185	
186				B	LOADNX			4 0941	B 700		8	700	
187			NOXL	CW	GOTXL			4 0945	) 185		8	185	
188				B	LOADNX LOAD PHASE 61B			4 0949	B 700		8	700	
189			*										
190			*		SKIP PHASE 61B, THE SNAPSHOT ROUTINE, BECAUSE XLINKF WAS LOADED								
191			*		IN ITS USUAL PLACE.								
192			*										
193	*		SKIP61	BCE	SKIPTP,TPREAD&4,0 Q: LOADING FROM AUTOCODER TAPE?			8 0953	B |07 708 0		8	1007	708
194				BCE	SKIPCD,CDOVLY,1			8 0961	B 994 700 1		9	994	700

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD	A-ADDR	B-ADDR
195				SW	GMWM	4		0969	, S84		9	1284	
196				RTW	1,GMWM	8		0973	L %U1 S84 R		9	%U1	1284
197				BER	TPERR	5		0981	B 728 L		9	728	
198			SKIPX	CW	GM61B	4		0986	) 680		9	680	
199				B	CLEAN	4		0990	B S14		9	1214	
200			SKIPCD	R		1		0994	1		9		
201				BCE	SKIPX,68,B	8		0995	B 986 068 B		10	986	068
202				B	SKIPCD	4		1003	B 994		10	994	
203			SKIPTP	RTW	1,1	8		1007	L %U1 001 R		10	%U1	001
204				BER	TPERR	5		1015	B 728 L		10	728	
205				BCE	SKIPX,8,B	8		1020	B 986 008 B		10	986	008
206				B	SKIPTP	4		1028	B |07		10	1007	
207				*									
208	1	056	ERRORS	CC	J	2		1032	F J		10		
209	1	058		CS	332	4		1034	/ 332		11	332	
210	1	062		CS		1		1038	/		11		
211	1	063		MCW	ERRMSG,228	7		1039	M /19 228		11	1119	228
212	1	070		W		1		1046	2		11		
213	1	071		B	AFTERR	4		1047	B 896		11	896	
214	1	078	W4	DCW	#4	4		1054			11		
215	1	096	ENDMSG	DCW	@END OF COMPILATION@	18		1072			11		
216	1	113	START	DCW	@PRESS START TO GO@	17		1089			12		
217	1	114	NO	NOP		1		1090	N		12		
218	1	115	HALT	H		1		1091	.		12		
219	1	143	ERRMSG	DCW	@CORRECT ERRORS AND RECOMPILE@	28		1119			13		
220			RWD	RWD		2		1120	U R		13		
221			CLRTOP	EQU	*			1121					
222				*									
223				ORG	*&X00 SO WE CAN CLEAR THE CLEAR ROUTINE AT THE END				1200				
224				*									
225				*	RETURN HERE AFTER RELOADING THE SNAPSHOT ROUTINE								
226				*									
227	*1	020	AFTOVL	LCA	NOP,PHASLD	7		1200	L |90 381		14	1090	381
228				LCA	HALT,SNAPEX	7		1207	L |91 564		14	1091	564
229				*									
230				*	CLEAR ROUTINE IS HERE BECAUSE THIS PHASE EITHER LOADS OR SKIPS								
231				*	THE NEXT ONE, SO IT CANNOT BE AN OVERLAY BETWEEN THEM.								
232				*									
233			CLEAN	CLRA	BEGN61,CLRTOP,,HERE,GMWM							MACRO	
				*	CLRA CLRBOT,CLRTOP[,SS,HERE,GWMAD]							GEN	
				*								GEN	
				*	CLEAR CORE AFTER A PHASE USING THE CLRTOP ADDRESS							GEN	
				*								GEN	
				*								GEN	
				*	CLEAR DOWN TO CLRBOT & X00 THE EASY WAY							GEN	
				*								GEN	
234			CLEAN	EQU	*&1			1214				GEN	
235			)0J004	CS	CLRTOP	4		1214	/ /21		14	1121	
236				SBR	)0J004&3	4		1218	H S17		14	1217	
237				SBR	)0L004&6	4		1222	H S63		14	1263	

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD	A-ADDR	B-ADDR
238				C	)0J004&3,)0M004				DOWN TO CLRBOT & X00?	GEN	14	1217	1274
239				BU	)0J004	5	1233	B S14 /		GEN	14	1214	
				*						GEN			
				*	NOW CLEAR DOWN TO CLRBOT THE HARD WAY					GEN			
				*						GEN			
240			)0K004	C	)0L004&6,)0N004	7	1238	C S63 S77		GEN	15	1263	1277
241				BU	)0L004	5	1245	B S57 /		GEN	15	1257	
242				CS	LOADNX,)0Q004	7	1250	/ 700 S84	LOAD THE NEXT BLOCK AT 1	GEN	15	700	1284
243			)0L004	LCA	)0P004,0-0	7	1257	L S78 000	CLEAR WITH BLANK AND WORD MARK	GEN	15	1278	000
244				SBR	)0L004&6	4	1264	H S63		GEN	15	1263	
245				B	)0K004	4	1268	B S38		GEN	15	1238	
246			)0M004	DSA	)0R004	3	1274	899	CLRBOT & X00 - 1	GEN	15	899	
247			)0N004	DSA	BEGN61	3	1277	838	CLRBOT	GEN	16	838	
248			)0P004	DCW	#1	1	1278			GEN	16		
249				DC	@CLRA @	5	1283		IDENTIFY IN A DECK, TAPE, OR DUMP	GEN	16		
250			)0Q004	DCW	@}@	1	1284			GEN	16		
251			GMWM	EQU	)0Q004		1284			GEN			
252				ORG	BEGN61&X00			0900					
253			)0R004	EQU	*		0899		CLRBOT & X00 - 1	GEN			
254				XFR	BEGN61			B 838			17	838	

SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS
)0J003	0207: 0	)0J004	1214: 0	)0K004	1238: 0	)0L004	1257: 0	)0M004	1274: 0	)0N004	1277: 0
)0P004	1278: 0	)0Q004	1284: 0	)0R004	0899: 0	)1J003	0250: 0	)6J003	0110: 0	)6K003	0700: 0
)6L003	0704: 0	)6M003	0728: 0	)8J003	0257: 0	)8K003	0273: 0	)9J003	0281: 0	)9R003	0285: 0
AFTERR	0896: 0	AFTOVL	1200: 0	BEGIN3	0838: 0	BEGN61	0838: 0	CDOVLY	0700: 0	CLEAN	1214: 0
CLRTOP	1121: 0	DORWD	0695: 0	ENDMSG	1072: 0	ERRMSG	1119: 0	ERRORS	1032: 0	GLOBER	0184: 0
GM61B	0680: 0	GMWM	1284: 0	GOTXL	0185: 0	HALT	1091: 0	LOADAD	0838: 0	LOADNX	0700: 0
MANTIS	0692: 0	NOP	1090: 0	NOXL	0945: 0	NSTMTS	0183: 0	PHAS61	0201: 0	PHASLD	0381: 0
RWD	1120: 0	SKIP61	0953: 0	SKIPCD	0994: 0	SKIPTP	1007: 0	SKIPX	0986: 0	SNAPEX	0564: 0
SNAPSH	0333: 0	START	1089: 0	TOP3	2600: 0	TPERR	0728: 0	TPREAD	0704: 0	W4	1054: 0
X1	0089: 0	XLREV	0929: 0								

UNREFERENCED SYMBOLS

AFTOVL SKIP61 SNAPSH TOP3