



SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD	A-ADDR	B-ADDR
			*							GEN			
147			)6J003	EQU	110 PHASE ID			0110		GEN			
148			)6K003	EQU	700 LOAD NEXT PHASE			0700		GEN			
149			)6L003	EQU	704 TAPE READ INSTRUCTION			0704		GEN			
150			)6M003	EQU	728 TAPE ERROR HANDLER			0728		GEN			
			*							GEN			
151				ORG	201				0201				
152			PHAS18	BSS	)8J003,G	5		0201	B 257 G	GEN	3	257	
153				NOP	TO PATCH IN TRAPS FOR DEBUGGING	1		0206	N	GEN	3		
154			)0J003	EQU	*&1			0207		GEN			
155				LCA	)9J003,)6J003	7		0207	L 281 110	GEN	3	281	110
156				BCE	)1J003,)6K003,1 Q: LOADING FROM CARDS?	8		0214	B 250 700 1	GEN	3	250	700
157				BCE	)1J003,)6L003&4,0 Q: LOADING FROM AUTOCODER TAPE?	8		0222	B 250 708 0	GEN	3	250	708
158				RTW	1,LOADAD READ THE BLOCK	8		0230	L %U1 838 R	GEN	3	%U1	838
159				BER	)6M003 Q: TAPE ERROR?	5		0238	B 728 L	GEN	4	728	
160				CS	LOADNX,)9R003 ENTER THE BLOCK	7		0243	/ 700 287	GEN	4	700	287
161			)1J003	CS	)6K003,)9R003 LOAD CARDS OR AUTOCODER TAPE	7		0250	/ 700 287	GEN	4	700	287
162			)8J003	SW	)9R003	4		0257	, 287	GEN	4	287	
163				MU	%T0,)8K003,W	8		0261	M %T0 273 W	GEN	4	%T0	273
164				H	)0J003	4		0269	. 207	GEN	4	207	
165			)8K003	EQU	*&1			0273		GEN			
166			)9J003	DCW	@CONST ONE@ PHASE ID	9		0281		GEN	5		
167				DCW	#1	1		0282		GEN	5		
168				DC	@18.1@ PHASE NUMBER	4		0286		GEN	5		
169			)9R003	DCW	@}@	1		0287		GEN	5		
170				XFR	PHAS18				B 201		5	201	
171			*										
172				ORG	BEGIN3				0838				
173			LOADAD	EQU	*&1 LOAD ADDRESS			0838					
174	838		BEGN18	CS	299	4		0838	/ 299		6	299	
175	842			SW	GM	4		0842	, L19		6	2319	
176	846			SW	200	4		0846	, 200		6	200	
177	850			MCW	TOPCOR,X2	7		0850	M 688 094		6	688	094
178	857			MN	0&X2	4		0857	D 0!0		6	000+2	
179	861			MN		1		0861	D		6		
180	862			SAR	X2 TOPCOR-2	4		0862	Q 094		6	094	
181	866			SBR	83 TOPCOR-2	4		0866	H 083		7	083	
182	870			LCA	GM,1&X2 GMWM TO TOPCOR-1	7		0870	L L19 0!1		7	2319	001+2
183	877	LOOP		BCE	DONE,0&X1, BOTTOM OF STATEMENTS IF BLANK	8		0877	B 700 0!0		7	700	000+1
184	885			MCW	0&X1,SEQCOD	7		0885	M 0!0 L23		7	000+1	2323
185	892			LCA	0&X1,PREFIX	7		0892	L 0!0 L33		7	000+1	2333
186	899			SAR	X1	4		0899	Q 089		7	089	
187	903			SBR	SX1	4		0903	H L36		8	2336	
188	907			SBR	SX2,0&X2	7		0907	H L39 0!0		8	2339	000+2
189	914			LCA	PREFIX,0&X2 MOVE PREFIX UP	7		0914	L L33 0!0		8	2333	000+2
190	921			SBR	X2	4		0921	H 094		8	094	
191	925			MCW	SEQCOD-3,*&8	7		0925	M L20 939		8	2320	939
192	932			BCE	IO,CODES,0 INTERESTING STATEMENT?	8		0932	B 972 L49 0		8	972	2349
193	940			CHAIN	9					MACRO			
194				BCE		1		0940	B	GEN	8		

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD	A-ADDR	B-ADDR
195				BCE		1		0941	B	GEN	9		
196				BCE		1		0942	B	GEN	9		
197				BCE		1		0943	B	GEN	9		
198				BCE		1		0944	B	GEN	9		
199				BCE		1		0945	B	GEN	9		
200				BCE		1		0946	B	GEN	9		
201				BCE		1		0947	B	GEN	9		
202				BCE		1		0948	B	GEN	10		
203	949		LCA	0&X1,0&X2	MOVE STATEMENT BODY UP	7		0949	L 0 0 0!0		10	000+1	000+2
204	956		SAR	X1		4		0956	Q 089		10	089	
205	960		C	0&X2		4		0960	C 0!0		10	000+2	
206	964		SAR	X2		4		0964	Q 094		10	094	
207	968		B	LOOP		4		0968	B 877		10	877	
208			*										
209			*	I/O, IF, DO, ARITHMETIC STATEMENT									
210			*										
211	972	IO	SBR	X3,CODTAB-4		7		0972	H 099 K77		10	099	2277
212	979		MCW	SEQCOD-3,*&8		7		0979	M L20 993		11	2320	993
213	986	SEARCH	BCE	FOUND,4&X3,0		8		0986	B  02 0?4 0		11	1002	004+3
214	994		SBR	X3		4		0994	H 099		11	099	
215	998		B	SEARCH		4		0998	B 986		11	986	
216			*										
217			*	FOUND THE STATEMENT CODE IN CODTAB. COPY THE INTERESTING									
218			*	PUNCTUATION AND THE COUNT TO PUNCNT. THE PUNCTUATION									
219			*	MARK IS WHAT IS SOUGHT IN THE STATEMENT. THE COUNT									
220			*	PART IS 2 MINUS THE NUMBER OF TIMES THE PUNCTUATION									
221			*	MARK MUST BE FOUND. IT STARTS AT 0, 1 OR 2, AND IS									
222			*	INCREMENTED UNTIL IT IS 2.									
223			*										
224	1 002	FOUND	MCW	6&X3,PUNCNT		7		1002	M 0?6 L51		11	006+3	2351
225	1 009		MCW	PUNCNT-1,SCHPUN&7		7		1009	M L50  38		11	2350	1038
226	1 016	SCHCNT	BCE	FOUND2,PUNCNT,2	FOUND IT ENOUGH TIMES?	8		1016	B  67 L51 2		12	1067	2351
227	1 024		A	K1,PUNCNT		7		1024	A L52 L51		12	2352	2351
228	1 031	SCHPUN	BCE	GOTPUN,0&X1,0	FOUND THE DESIRED PUNCTUATION?	8		1031	B  55 0 0 0		12	1055	000+1
229	1 039		BCE	FOUND2,0&X1,}	FOUND GM?	8		1039	B  67 0 0 } GMARK		12	1067	000+1
230	1 047		SBR	X1		4		1047	H 089		12	089	
231	1 051		B	SCHPUN	GO SEARCH FOR MORE PUNCTUATION	4		1051	B  31		12	1031	
232	1 055	GOTPUN	MN	0&X1		4		1055	D 0 0		13	000+1	
233	1 059		SAR	X1		4		1059	Q 089		13	089	
234	1 063		B	SCHCNT	GO TEST HAVE WE SEEN IT ENOUGH TIMES?	4		1063	B  16		13	1016	
235	1 067	FOUND2	BWZ	NOZONE,0&X1,3	DIGIT OR GMWM?	8		1067	V  91 0 0 3		13	1091	000+1
236	1 075		SBR	X1		4		1075	H 089		13	089	
237	1 079		BCE	SWITCH,1&X1,\$	SUBSCRIPT?	8		1079	B /76 0 1 \$		13	1176	001+1
238	1 087		B	FOUND2		4		1087	B  67		13	1067	
239	1 091	NOZONE	BCE	ENDSTM,0&X1,}	GM MEANS END OF STATEMENT	8		1091	B J65 0 0 } GMARK		14	2165	000+1
240	1 099		SBR	X1		4		1099	H 089		14	089	
241	1 103		BCE	FOUND2,1&X1,#	ASSIGNMENT OPERATOR IS NOT A NUMBER	8		1103	B  67 0 1 #		14	1067	001+1
242	1 111		BCE	FOUND2,1&X1,@	ATSIGN IS NOT A NUMBER	8		1111	B  67 0 1 @		14	1067	001+1
243	1 119		MCW	2&X1,BEFORE		7		1119	M 0 2 L18		14	002+1	2318
244	1 126		MCW	AT		1		1126	M		14		

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245	1	127		MCW	AFTER	1		1127	M		14		
246	1	128		SAR	X1	4		1128	Q 089		15	089	
247	1	132		MCW	BEFORE, *&8	7		1132	M L18 /46		15	2318	1146
248	1	139		BCE	FOUND3, OPPUN, 0 CHAR BEFORE IS OPERATOR OR PUNCT?	8		1139	B S16 L63 0		15	1216	2363
249	1	147		CHAIN	10					MACRO			
250				BCE		1		1147	B	GEN	15		
251				BCE		1		1148	B	GEN	15		
252				BCE		1		1149	B	GEN	15		
253				BCE		1		1150	B	GEN	15		
254				BCE		1		1151	B	GEN	16		
255				BCE		1		1152	B	GEN	16		
256				BCE		1		1153	B	GEN	16		
257				BCE		1		1154	B	GEN	16		
258				BCE		1		1155	B	GEN	16		
259				BCE		1		1156	B	GEN	16		
260	1	157		BCE	ENDSTM, 1&X1, }	8		1157	B J65 0   1 }	GMARK	16	2165	001+1
261	1	165	BACKSP	SBR	X1, 1&X1	7		1165	H 089 0   1		17	089	001+1
262	1	172		B	FOUND2	4		1172	B   67		17	1067	
263				*									
264				*	SUBSCRIPT BEGIN								
265				*									
266	1	176	SWITCH	NOP	UNSW	4		1176	N /98		17	1198	
267	1	180		MCW	BRANCH, SWITCH	7		1180	M L64 /76		17	2364	1176
268	1	187		MCW	KB1, SWICH3&4 SET TO UNCONDITIONAL BRANCH	7		1187	M M74 !42		17	2474	2042
269	1	194		B	FOUND2	4		1194	B   67		17	1067	
270				*									
271				*	SUBSCRIPT END								
272				*									
273	1	198	UNSW	MCW	NOP, SWITCH	7		1198	M L65 /76		18	2365	1176
274	1	205		MCW	UNEQ, SWICH3&4 SET TO BRANCH UNEQUAL	7		1205	M L66 !42		18	2366	2042
275	1	212		B	FOUND2	4		1212	B   67		18	1067	
276				*									
277				*	FOUND A DIGIT PRECEDED BY AN OPERATOR OR PUNCTUATION IN OPPUN								
278				*									
279	1	216	FOUND3	BCE	DECMAL, 3&X1, . 3&X1 = BEFORE	8		1216	B K02 0   3 .		18	2202	003+1
280	1	224		MCW	AFTER, *&8	7		1224	M L16 S38		18	2316	1238
281	1	231		BCE	BACKSP, ATHRUR, 0 ?A-I!J-R ?	8		1231	B /65 L86 0		19	1165	2386
282	1	239		CHAIN	19					MACRO			
283				BCE		1		1239	B	GEN	19		
284				BCE		1		1240	B	GEN	19		
285				BCE		1		1241	B	GEN	19		
286				BCE		1		1242	B	GEN	19		
287				BCE		1		1243	B	GEN	19		
288				BCE		1		1244	B	GEN	19		
289				BCE		1		1245	B	GEN	20		
290				BCE		1		1246	B	GEN	20		
291				BCE		1		1247	B	GEN	20		
292				BCE		1		1248	B	GEN	20		
293				BCE		1		1249	B	GEN	20		
294				BCE		1		1250	B	GEN	20		

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD	A-ADDR	B-ADDR
295				BCE		1		1251	B	GEN	20		
296				BCE		1		1252	B	GEN	21		
297				BCE		1		1253	B	GEN	21		
298				BCE		1		1254	B	GEN	21		
299				BCE		1		1255	B	GEN	21		
300				BCE		1		1256	B	GEN	21		
301				BCE		1		1257	B	GEN	21		
302	1	258		BCE	TESTIF,3&X1,)	8		1258	B J53 0 3 )		21	2153	003+1
303	1	266	MARK	SW	3&X1 WM ABOVE FIELD	4		1266	, 0 3		22	003+1	
304	1	270		MCW	SX1,X3	7		1270	M L36 099		22	2336	099
305	1	277		LCA	0&X3,0&X2 MOVE UP STUFF ABOVE FIELD	7		1277	L 0?0 0!0		22	000+3	000+2
306	1	284		SBR	X2	4		1284	H 094		22	094	
307	1	288		MCW	KLESS,3&X1	7		1288	M L87 0 3		22	2387	003+1
308	1	295		SBR	TLESS&6,3&X1	7		1295	H J17 0 3		22	2117	003+1
309	1	302		CW	1&X2	4		1302	) 0!1		23	001+2	
310	1	306		LCA	KUNDER,0&X2 MARK TOP OF CONSTANT	7		1306	L L88 0!0		23	2388	000+2
311	1	313		SBR	X2	4		1313	H 094		23	094	
312	1	317		CW	1&X2	4		1317	) 0!1		23	001+2	
313	1	321		CW	FLAG	4		1321	) N14		23	2514	
314	1	325		S	EXP	4		1325	S L90		23	2390	
315	1	329		S	SIGWID	4		1329	S L93		23	2393	
316	1	333		S	NLZ	4		1333	S L98		24	2398	
317	1	337		MCW	SW,SWNOP	7		1337	M L94 K34		24	2394	2234
318	1	344		MCW	NOP,ASN2	7		1344	M L65 T90		24	2365	1390
319	1	351		MCW	BRANCH,SWICH2	7		1351	M L64 U04		24	2364	1404
320	1	358		SBR	MAN&3,ADD	7		1358	H K45 L11		24	2245	2311
321	1	365		SBR	MSN&3,SUB	7		1365	H K16 L12		24	2216	2312
322	1	372		SBR	X1,2&X1	7		1372	H 089 0 2		25	089	002+1
323	1	379	ZSCAN	MCW	0&X1,AT	7		1379	M 0 0 L17		25	000+1	2317
324	1	386		SAR	X1	4		1386	Q 089		25	089	
325	1	390	ASN2	NOP	KP1,EXP ADD, SUB OR NOP	7		1390	N L95 L90		25	2395	2390
326	1	397		A	KP1,NLZ	7		1397	A L95 L98		25	2395	2398
327	1	404	SWICH2	BCE	ZSCAN,AT,0	8		1404	B T79 L17 0		26	1379	2317
328	1	412		BCE	MSN,AT,.	8		1412	B K13 L17 .		26	2213	2317
329	1	420		BCE	MAN,SWICH2,B	8		1420	B K42 U04 B		26	2242	1404
330	1	428		A	KP1,SIGWID	7		1428	A L95 L93		26	2395	2393
331	1	435	TSTASG	BCE	KLEFT,AT,# CONSTANT ON LEFT SIDE OF EQUAL SIGN	8		1435	B X20 L17 #		26	1720	2317
332	1	443		BCE	*&9,AT,@ ORIGINALLY SLASH IN INPUT?	8		1443	B U59 L17 @		27	1459	2317
333	1	451	BWZ	ZSCAN,AT,2		8		1451	V T79 L17 2		27	1379	2317
334	1	459		C	MAN&3,ANOP	7		1459	C K45 L15		27	2245	2315
335	1	466		BU	GOTIK	5		1466	B Z31 /		27	1931	
336	1	471		BWZ	*&8,EXP,B	8		1471	V U86 L90 B		27	1486	2390
337	1	479		A	KP1,EXP	7		1479	A L95 L90		28	2395	2390
338	1	486		SW	2&X1	4		1486	, 0 2		28	002+1	
339	1	490		BCE	DEC2,2&X1,.	8		1490	B Y22 0 2 .		28	1822	002+1
340	1	498	DECBK	BCE	GOTEXP,AT,E	8		1498	B Y37 L17 E		28	1837	2317
341	1	506	EXPBAK	C	NLZ,KP01	7		1506	C L98 M00		28	2398	2400
342	1	513		NOP	SYNTAX	4		1513	N X84		28	1784	
343	1	517		NOP		1		1517	N		28		
344	1	518		C	SIGWID,KPZ3	7		1518	C L93 M03		29	2393	2403

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD	A-ADDR	B-ADDR
345	1	525		BU	GOTFPK	5		1525	B V49 /		29	1549	
346	1	530	SYNBAK	LCA	K15K,0&X2	7		1530	L M06 0!0		29	2406	000+2
347	1	537		SBR	X2	4		1537	H 094		29	094	
348	1	541		CW	1&X2	4		1541	) 0!1		29	001+2	
349	1	545		B	TLESSX	4		1545	B J00		29	2100	
350				*									
351				*	FOUND A FLOATING-POINT CONSTANT								
352				*									
353	1	549	GOTFPK	MCW	X1,SX1A	7		1549	M 089 M09		29	089	2409
354	1	556		BW	*&8,FLAG	8		1556	V V71 N14 1		30	1571	2514
355	1	564		LCA	0&X3,1&X3	7		1564	L 0?0 0?1		30	000+3	001+3
356	1	571		MCW	SX1B,X1	7		1571	M M12 089		30	2412	089
357	1	578		MCW	MANTIS,WIDTH	7		1578	M 692 M14		30	692	2414
358	1	585		A	KP2,WIDTH	7		1585	A M15 M14		30	2415	2414
359	1	592		SBR	X3,198	7		1592	H 099 198		31	099	198
360	1	599		SW	200	4		1599	, 200		31	200	
361	1	603	FLOOP	MCW	0&X1,AT USE THE	7		1603	M 0 0 L17		31	000+1	2317
362	1	610		SAR	X1 PRINT AREA	4		1610	Q 089		31	089	
363	1	614		MCW	AT,2&X3 TO REVERSE	7		1614	M L17 0?2		31	2317	002+3
364	1	621		SBR	X3 THE CONSTANT	4		1621	H 099		31	099	
365	1	625		BW	FINFK,1&X1 TO CORRECT	8		1625	V W52 0 1 1		32	1652	001+1
366	1	633		S	KP1,WIDTH ORDER	7		1633	S L95 M14		32	2395	2414
367	1	640		C	WIDTH,KP00	7		1640	C M14 M17		32	2414	2417
368	1	647		BU	FLOOP	5		1647	B W03 /		32	1603	
369	1	652	FINFK	SBR	X3,1&X3 FINISHED WITH FLOATING POINT CONSTANT	7		1652	H 099 0?1		32	099	001+3
370	1	659	SKIPO	BCE	*&5,0&X3,0	8		1659	B W71 0?0 0		33	1671	000+3
371	1	667		B	NOT0	4		1667	B W83		33	1683	
372	1	671		MN	0&X3	4		1671	D 0?0		33	000+3	
373	1	675		SAR	X3	4		1675	Q 099		33	099	
374	1	679		B	SKIPO	4		1679	B W59		33	1659	
375	1	683	NOT0	MN	0&X3	4		1683	D 0?0		33	000+3	
376	1	687		SAR	X3	4		1687	Q 099		33	099	
377	1	691		MCW	EXP,3&X3 MOVE EXPONENT	7		1691	M L90 0?3		34	2390	003+3
378	1	698		MZ	ADD2,1&X3 ZONE FOR MANTISSA	7		1698	Y M18 0?1		34	2418	001+3
379	1	705		LCA	3&X3,0&X2	7		1705	L 0?3 0!0		34	003+3	000+2
380	1	712		SBR	X2	4		1712	H 094		34	094	
381	1	716		B	KFIN	4		1716	B !89		34	2089	
382				*									
383				*	CONSTANT ON LEFT SIDE OF EQUAL SIGN								
384				*									
385	1	720	KLEFT	CS	332	4		1720	/ 332		34	332	
386	1	724		CS		1		1724	/		34		
387	1	725		SW	GLOBER	4		1725	, 184		35	184	
388	1	729		MN	SEQCOD,256	7		1729	D L23 256		35	2323	256
389	1	736		MN		1		1736	D		35		
390	1	737		MN		1		1737	D		35		
391	1	738		MCW	KLM1	4		1738	M M40		35	2440	
392	1	742		MCW	KLM2	4		1742	M M73		35	2473	
393	1	746		W		1		1746	2		35		
394	1	747		BCV	*&5	5		1747	B X56 @		36	1756	

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD	A-ADDR	B-ADDR
395	1	752		B	*&3	4		1752	B X58		36	1758	
396	1	756		CC	1	2		1756	F 1		36		
397	1	758		MCW	SX2, X2	7		1758	M L39 094		36	2339	094
398	1	765		MCW	KB1, 0&X2	7		1765	M M74 0!0		36	2474	000+2
399	1	772		C	0&X1	4		1772	C 0 0		36	000+1	
400	1	776		SAR	X1	4		1776	Q 089		36	089	
401	1	780		B	LOOP	4		1780	B 877		37	877	
402				*									
403				*	SYNTAX ERROR FOR CONSTANT								
404				*									
405	1	784	SYNTAX	CS	332	4		1784	/ 332		37	332	
406	1	788		CS		1		1788	/		37		
407	1	789		SW	GLOBER	4		1789	, 184		37	184	
408	1	793		MN	SEQCOD, 241	7		1793	D L23 241		37	2323	241
409	1	800		MN		1		1800	D		37		
410	1	801		MN		1		1801	D		37		
411	1	802		MCW	ERR44	4		1802	M N12		38	2512	
412	1	806		W		1		1806	2		38		
413	1	807		BCV	*&5	5		1807	B Y16 @		38	1816	
414	1	812		B	*&3	4		1812	B Y18		38	1818	
415	1	816		CC	1	2		1816	F 1		38		
416	1	818		B	SYNBAK	4		1818	B V30		38	1530	
417				*									
418	1	822	DEC2	MCW	K0, 2&X1	7		1822	M N13 0 2		38	2513	002+1
419	1	829		SW	FLAG	4		1829	, N14		39	2514	
420	1	833		B	DECBAK	4		1833	B U98		39	1498	
421				*									
422				*	FLOATING-POINT EXPONENT								
423				*									
424	1	837	GOTEXP	ZA	PZE, THEEXP	7		1837	? N15 N17		39	2515	2517
425	1	844		BWZ	EXPNS, 0&X1, 2	8		1844	V Y63 0 0 2		39	1863	000+1
426	1	852		MZ	0&X1, THEEXP EXPONENT IS SIGNED	7		1852	Y 0 0 N17		39	000+1	2517
427	1	859		SAR	X1	4		1859	Q 089		39	089	
428	1	863	EXPNS	MN	0&X1	4		1863	D 0 0		39	000+1	
429	1	867		SAR	X1	4		1867	Q 089		40	089	
430	1	871		C	0&X1, Z	7		1871	C 0 0 N18		40	000+1	2518
431	1	878		BL	EXP2	5		1878	B Y94 T		40	1894	
432	1	883		MN	1&X1, THEEXP	7		1883	D 0 1 N17		40	001+1	2517
433	1	890		B	EXP3	4		1890	B Z12		40	1912	
434	1	894	EXP2	MN	1&X1, THEEXP-1	7		1894	D 0 1 N16		40	001+1	2516
435	1	901		MN	0&X1, THEEXP	7		1901	D 0 0 N17		41	000+1	2517
436	1	908		SAR	X1	4		1908	Q 089		41	089	
437	1	912	EXP3	A	THEEXP, EXP	7		1912	A N17 L90		41	2517	2390
438	1	919		MN	0&X1	4		1919	D 0 0		41	000+1	
439	1	923		SAR	X1	4		1923	Q 089		41	089	
440	1	927		B	EXPBAK	4		1927	B V06		41	1506	
441				*									
442				*	FOUND INTEGER CONSTANT								
443				*									
444	1	931	GOTIK	C	SIGWID, KPZ3	7		1931	C L93 M03		41	2393	2403







SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD	A-ADDR	B-ADDR
539			*										
540	2	232	DECIMAL	SBR	X1,1&X1	7		2202	H 089 0 1		52	089	001+1
541	2	239		B	MARK	4		2209	B S66		52	1266	
542			*										
543			* DECIMAL POINT										
544			*										
545	2	243	MSN	MCW	SUB2,ASN2 MOVE SUB OR NOP	7		2213	M N61 T90		52	2561	1390
546	2	250		MCW	ANOP,MAN&3	7		2220	M L15 K45		52	2315	2245
547	2	257		MCW	X1,X3	7		2227	M 089 099		53	089	099
548	2	264	SWNOP	SW	FLAG EITHER SW OR NOP	4		2234	, N14		53	2514	
549	2	268		B	ZSCAN	4		2238	B T79		53	1379	
550			*										
551	2	272	MAN	MCW	ADD2,ASN2 MOVE ADD OR NOP	7		2242	M M18 T90		53	2418	1390
552	2	279		MCW	ANOP,MSN&3	7		2249	M L15 K16		53	2315	2216
553	2	286		MCW	NOP,SWICH2	7		2256	M L65 U04		53	2365	1404
554	2	293		SBR	SX1B,1&X1	7		2263	H M12 0 1		54	2412	001+1
555	2	300		MCW	NOP,SWNOP	7		2270	M L65 K34		54	2365	2234
556	2	307		B	TSTASG	4		2277	B U35		54	1435	
557			*										
558			* DATA										
559			*										
560			CODTAB	EQU	*&1			2281					
561	2	340		DCW	@R 2E 2D#1L,15,0U,1P,16,01,13,1@	30		2310			55		
562	2	341	ADD	A		1		2311	A		55		
563	2	342	SUB	S		1		2312	S		55		
564	2	345	ANOP	DSA	NOP	3		2315	L65		55	2365	
565	2	346	AFTER	DCW	#1 CHAR AFTER DIGIT	1		2316			55		
566	2	347	AT	DCW	#1 DIGIT	1		2317			55		
567	2	348	BEFORE	DCW	#1 CHAR BEFORE DIGIT	1		2318			55		
568	2	349	GM	DC	@}@ GM	1		2319		GMARK	55		
569	2	353	SEQCOD	DCW	#4 STATEMENT CODE, SEQUENCE NUMBER	4		2323			56		
570	2	363	PREFIX	DCW	#10 ENTIRE STATEMENT PREFIX	10		2333			56		
571	2	366	SX1	DCW	#3	3		2336			56		
572	2	369	SX2	DCW	#3	3		2339			56		
573	2	379	CODES	DCW	@UPL3165DER@ I/O, DO, IF, ARITH CODES	10		2349			56		
574	2	381	PUNCNT	DCW	#2	2		2351			56		
575	2	382	K1	DCW	1	1		2352			56		
576	2	393	OPPUN	DCW	@) }@.#%\$,*-&@ OPERATORS AND PUNCTUATION	11		2363			57		
577	2	394	BRANCH	B		1		2364	B		57		
578	2	395	NOP	NOP		1		2365	N		57		
579	2	396	UNEQ	DCW	@/@ D-MODIFIER FOR UNEQUAL BRANCH	1		2366			57		
580	2	416	ATHRUR	DCW	@?ABCDEFGH!JKLMNOPQR@	20		2386			57		
581	2	417	KLESS	DCW	@<@	1		2387			57		
582	2	418	KUNDER	DCW	@_@	1		2388			57		
583	2	420	EXP	DCW	#2	2		2390			58		
584	2	423	SIGWID	DCW	#3 SIGNIFICANT WIDTH OF CONSTANT	3		2393			58		
585	2	424	SW	SW		1		2394	,		58		
586	2	425	KP1	DCW	&1	1		2395			58		
587	2	428	NLZ	DCW	#3 NUMBER OF LEADING ZEROS	3		2398			58		
588	2	430	KP01	DCW	&01	2		2400			58		

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD	A-ADDR	B-ADDR
589	2	433	KPZ3	DCW	&000		3	2403			58		
590	2	436	K15K	DSA	15000		3	2406	?0?		59	15000	
591	2	439	SX1A	DCW	#3		3	2409			59		
592	2	442	SX1B	DCW	#3		3	2412			59		
593	2	444	WIDTH	DCW	#2 MANTIS OR IMOD		2	2414			59		
594	2	445	KP2	DCW	&2		1	2415			59		
595	2	447	KP00	DCW	&00		2	2417			59		
596	2	448	ADD2	A			1	2418	A		59		
597	2	470	KLM1	DCW	@EQUAL SIGN, STATEMENT @		22	2440			60		
598	2	503	KLM2	DCW	@ERROR 41 - CONSTANT LEFT SIDE OF @		33	2473			61		
599	2	504	KB1	DCW	#1		1	2474			61		
600	2	542	ERR44	DCW	@ERROR 44 - CONSTANT SYNTAX, STATEMENT @		38	2512			62		
601	2	543	K0	DCW	0		1	2513			62		
602	2	544	FLAG	DCW	#1		1	2514			63		
603	2	545	PZE	DCW	&0		1	2515			63		
604	2	547	THEEXP	DCW	#2		2	2517			63		
605	2	548	Z	DCW	@Z@		1	2518			63		
606	2	550	KB0	DCW	@ 0@		2	2520			63		
607	2	553	KP001	DCW	&001		3	2523			63		
608	2	554	KB1A	DCW	#1		1	2524			63		
609	2	590	ERROR2	DCW	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@		36	2560			64		
610	2	600	SUB2	S			1	2561	S		64		
611	2	601	GMWM	DCW	@}@		1	2562			64		
612			ORG		*&X00 MOKOTOFF V3M4.LST LINE 4022				2600				
613	*		FREB0T	EQU	*			2599					
614			XFR		BEGN18				B 838		64	838	
615			CLRME	CLRA	BEGN18,GMWM,C					MACRO			
			*	CLRA	CLRB0T,CLRTP[,SS,HERE,GWMAD]					GEN			
			*							GEN			
			*	CLEAR CORE	AFTER A PHASE USING THE CLRTP ADDRESS					GEN			
			*							GEN			
616			ORG		201				0201				
			*							GEN			
			*	CLEAR DOWN	TO CLRB0T & X00 THE EASY WAY					GEN			
			*							GEN			
617			CLRME	EQU	*&1			0201		GEN			
618			BSS		SNAPSH,C		5	0201	B 333 C	GEN	65	333	
619			)0J005	CS	GMWM CLEAR FROM CLRTP		4	0206	/ N62	GEN	65	2562	
620			SBR		)0J005&3		4	0210	H 209	GEN	65	209	
621			SBR		)0L005&6		4	0214	H 255	GEN	65	255	
622			C		)0J005&3,)0M005 DOWN TO CLRB0T & X00?		7	0218	C 209 266	GEN	65	209	266
623			BU		)0J005		5	0225	B 206 /	GEN	65	206	
			*							GEN			
			*	NOW CLEAR	DOWN TO CLRB0T THE HARD WAY					GEN			
			*							GEN			
624			)0K005	C	)0L005&6,)0N005		7	0230	C 255 269	GEN	65	255	269
625			BU		)0L005		5	0237	B 249 /	GEN	66	249	
626			CS		LOADNX,)0Q005 LOAD THE NEXT BLOCK AT 1		7	0242	/ 700 276	GEN	66	700	276
627			)0L005	LCA	)0P005,0-0 CLEAR WITH BLANK AND WORD MARK		7	0249	L 270 000	GEN	66	270	000
628			SBR		)0L005&6		4	0256	H 255	GEN	66	255	

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD	A-ADDR	B-ADDR
629				B	)0K005		4	0260	B 230	GEN	66	230	
630			)0M005	DSA	)0R005 CLRBOT & X00 - 1		3	0266	899	GEN	66	899	
631			)0N005	DSA	BEGN18 CLRBOT		3	0269	838	GEN	66	838	
632			)0P005	DCW	#1		1	0270		GEN	67		
633				DC	@CLRA @ IDENTIFY IN A DECK, TAPE, OR DUMP		5	0275		GEN	67		
634			)0Q005	DCW	@}@		1	0276		GEN	67		
635				ORG	BEGN18&X00				0900				
636			)0R005	EQU	* CLRBOT & X00 - 1			0899		GEN			
637				XFR	CLRME				B 201		67	201	

SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS
)0J003	0207: 0	)0J004	0207: 0	)0J005	0206: 0	)0K005	0230: 0	)0L005	0249: 0	)0M005	0266: 0
)0N005	0269: 0	)0P005	0270: 0	)0Q005	0276: 0	)0R005	0899: 0	)1J003	0250: 0	)1J004	0243: 0
)6J003	0110: 0	)6K003	0700: 0	)6K004	0700: 0	)6L003	0704: 0	)6L004	0704: 0	)6M003	0728: 0
)6M004	0728: 0	)8J003	0257: 0	)8J004	0250: 0	)8K003	0273: 0	)8K004	0266: 0	)9J003	0281: 0
)9R003	0287: 0	)9R004	0271: 0	ADD	2311: 0	ADD2	2418: 0	AFTER	2316: 0	ANOP	2315: 0
ASN2	1390: 0	AT	2317: 0	ATHRUR	2386: 0	BACKSP	1165: 0	BEFORE	2318: 0	BEGIN3	0838: 0
BEGN18	0838: 0	BRANCH	2364: 0	CDOVLY	0700: 0	CLRME	0201: 0	CODES	2349: 0	CODTAB	2281: 0
DEC2	1822: 0	DECBAK	1498: 0	DECMAL	2202: 0	DONE	0700: 0	END1	2153: 0	ENDSTM	2165: 0
ERR44	2512: 0	ERROR2	2560: 0	EXP	2390: 0	EXP2	1894: 0	EXP3	1912: 0	EXPBAK	1506: 0
EXPNS	1863: 0	FINFK	1652: 0	FINIK	2043: 0	FLAG	2514: 0	FLOOP	1603: 0	FOUND	1002: 0
FOUND2	1067: 0	FOUND3	1216: 0	FREBOT	2599: 0	GLOBER	0184: 0	GM	2319: 0	GMWM	2562: 0
GOTEXP	1837: 0	GOTFPK	1549: 0	GOTIK	1931: 0	GOTPUN	1055: 0	HALT	2149: 0	I2	1962: 0
ILOOP	1994: 0	IMOD	0690: 0	IO	0972: 0	K0	2513: 0	K1	2352: 0	K15K	2406: 0
KB0	2520: 0	KB1	2474: 0	KB1A	2524: 0	KFIN	2089: 0	KLEFT	1720: 0	KLESS	2387: 0
KLM1	2440: 0	KLM2	2473: 0	KP00	2417: 0	KP001	2523: 0	KP01	2400: 0	KP1	2395: 0
KP2	2415: 0	KPZ3	2403: 0	KUNDER	2388: 0	LOADAD	0838: 0	LOADNX	0700: 0	LOOP	0877: 0
MAN	2242: 0	MANTIS	0692: 0	MARK	1266: 0	MSN	2213: 0	NLZ	2398: 0	NOP	2365: 0
NOT0	1683: 0	NOZONE	1091: 0	OPPUN	2363: 0	PART2	0201: 0	PHAS18	0201: 0	PHASLD	0381: 0
PREFIX	2333: 0	PUNCNT	2351: 0	PZE	2515: 0	SCHCNT	1016: 0	SCHPUN	1031: 0	SEARCH	0986: 0
SEQCOD	2323: 0	SIGWID	2393: 0	SKIP0	1659: 0	SNAPEX	0564: 0	SNAPSH	0333: 0	SUB	2312: 0
SUB2	2561: 0	SW	2394: 0	SWICH2	1404: 0	SWICH3	2038: 0	SWITCH	1176: 0	SWNOP	2234: 0
SX1	2336: 0	SX1A	2409: 0	SX1B	2412: 0	SX2	2339: 0	SYNBAK	1530: 0	SYNTAX	1784: 0
TESTIF	2153: 0	THEEXP	2517: 0	TLESS	2111: 0	TLESSX	2100: 0	TOP3	2600: 0	TOPCOR	0688: 0
TPERR	0728: 0	TPREAD	0704: 0	TSTASG	1435: 0	UNEQ	2366: 0	UNSW	1198: 0	WIDTH	2414: 0
X1	0089: 0	X2	0094: 0	X3	0099: 0	Z	2518: 0	ZSCAN	1379: 0		

## UNREFERENCED SYMBOLS

FREBOT PHASLD SNAPEX TOP3 TPERR TPREAD