

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD	A-ADDR	B-ADDR
147			*							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			
151			*							GEN			
151				ORG	201				0201				
152			PHAS18	EQU	*&1			0201		GEN			
153				LCA	)9J003,)6J003	7		0201	L 252 110	GEN	3	252	110
154				BCE	)6K003,)6K003,1 Q: LOADING FROM CARDS?	8		0208	B 700 700 1	GEN	3	700	700
155				BCE	)6K003,)6L003&4,0 Q: LOADING FROM AUTOCODER TAPE?	8		0216	B 700 708 0	GEN	3	700	708
156				RTW	1,LOADAD READ THE BLOCK	8		0224	L %U1 838 R	GEN	3	%U1	838
157				BER	)6M003 Q: TAPE ERROR?	5		0232	B 728 L	GEN	3	728	
158				CS	LOADNX,)9R003 ENTER THE BLOCK	7		0237	/ 700 258	GEN	4	700	258
159			)9J003	DCW	@CONST ONE@ PHASE ID	9		0252		GEN	4		
160				DC	#1	1		0253		GEN	4		
161				DC	@18.1@ PHASE NUMBER	4		0257		GEN	4		
162			)9R003	DCW	@)@	1		0258		GEN	4		
163				XFR	PHAS18				B 201		5	201	
164			*										
165				ORG	BEGIN3				0838				
166			LOADAD	EQU	*&1 LOAD ADDRESS			0838					
167	838		BEGN18	CS	299	4		0838	/ 299		6	299	
168	842			SW	GM	4		0842	, L28		6	2328	
169	846			SW	200	4		0846	, 200		6	200	
170	850			MCW	TOPCOR,X2	7		0850	M 688 094		6	688	094
171	857			MN	0&X2	4		0857	D 0!0		6	000+2	
172	861			MN		1		0861	D		6		
173	862			SAR	X2 TOPCOR-2	4		0862	Q 094		6	094	
174	866			SBR	83 TOPCOR-2	4		0866	H 083		7	083	
175	870			LCA	GM,1&X2 GMWM TO TOPCOR-1	7		0870	L L28 0!1		7	2328	001+2
176	877	LOOP		BCE	DONE,0&X1, BOTTOM OF STATEMENTS IF BLANK	8		0877	B J53 0!0		7	2153	000+1
177	885			MCW	0&X1,SEQCOD	7		0885	M 0!0 L32		7	000+1	2332
178	892			LCA	0&X1,PREFIX	7		0892	L 0!0 L42		7	000+1	2342
179	899			SAR	X1	4		0899	Q 089		7	089	
180	903			SBR	SX1	4		0903	H L45		8	2345	
181	907			SBR	SX2,0&X2	7		0907	H L48 0!0		8	2348	000+2
182	914			LCA	PREFIX,0&X2 MOVE PREFIX UP	7		0914	L L42 0!0		8	2342	000+2
183	921			SBR	X2	4		0921	H 094		8	094	
184	925			MCW	SEQCOD-3,*&8	7		0925	M L29 939		8	2329	939
185	932			BCE	IO,0&X2 INTERESTING STATEMENT?	8		0932	B 972 L58 0		8	972	2358
186	940			CHAIN	9					MACRO			
187				BCE		1		0940	B	GEN	8		
188				BCE		1		0941	B	GEN	9		
189				BCE		1		0942	B	GEN	9		
190				BCE		1		0943	B	GEN	9		
191				BCE		1		0944	B	GEN	9		
192				BCE		1		0945	B	GEN	9		
193				BCE		1		0946	B	GEN	9		
194				BCE		1		0947	B	GEN	9		

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD	A-ADDR	B-ADDR
195				BCE		1		0948	B	GEN	10		
196	949		LCA		0&X1,0&X2 MOVE STATEMENT BODY UP	7		0949	L 0|0 0!0		10	000+1	000+2
197	956		SAR		X1	4		0956	Q 089		10	089	
198	960		C		0&X2	4		0960	C 0!0		10	000+2	
199	964		SAR		X2	4		0964	Q 094		10	094	
200	968		B		LOOP	4		0968	B 877		10	877	
201			*										
202			*		I/O, IF, DO, ARITHMETIC STATEMENT								
203			*										
204	972		IO	SBR	X3,CODTAB-4	7		0972	H 099 K86		10	099	2286
205	979			MCW	SEQCOD-3,*&8	7		0979	M L29 993		11	2329	993
206	986		SEARCH	BCE	FOUND,4&X3,0	8		0986	B |02 0?4 0		11	1002	004+3
207	994			SBR	X3	4		0994	H 099		11	099	
208	998			B	SEARCH	4		0998	B 986		11	986	
209			*										
210			*		FOUND THE STATEMENT CODE IN CODTAB. COPY THE INTERESTING								
211			*		PUNCTUATION AND THE COUNT TO PUNCNT. THE PUNCTUATION								
212			*		MARK IS WHAT IS SOUGHT IN THE STATEMENT. THE COUNT								
213			*		PART IS 2 MINUS THE NUMBER OF TIMES THE PUNCTUATION								
214			*		MARK MUST BE FOUND. IT STARTS AT 0, 1 OR 2, AND IS								
215			*		INCREMENTED UNTIL IT IS 2.								
216			*										
217	1 002		FOUND	MCW	6&X3,PUNCNT	7		1002	M 0?6 L60		11	006+3	2360
218	1 009			MCW	PUNCNT-1,SCHPUN&7	7		1009	M L59 |38		11	2359	1038
219	1 016		SCHCNT	BCE	FOUND2,PUNCNT,2 FOUND IT ENOUGH TIMES?	8		1016	B |67 L60 2		12	1067	2360
220	1 024			A	K1,PUNCNT	7		1024	A L61 L60		12	2361	2360
221	1 031		SCHPUN	BCE	GOTPUN,0&X1,0 FOUND THE DESIRED PUNCTUATION?	8		1031	B |55 0|0 0		12	1055	000+1
222	1 039			BCE	FOUND2,0&X1,} FOUND GM?	8		1039	B |67 0|0 } GMARK		12	1067	000+1
223	1 047			SBR	X1	4		1047	H 089		12	089	
224	1 051			B	SCHPUN GO SEARCH FOR MORE PUNCTUATION	4		1051	B |31		12	1031	
225	1 055		GOTPUN	MN	0&X1	4		1055	D 0|0		13	000+1	
226	1 059			SAR	X1	4		1059	Q 089		13	089	
227	1 063			B	SCHCNT GO TEST HAVE WE SEEN IT ENOUGH TIMES?	4		1063	B |16		13	1016	
228	1 067		FOUND2	BWZ	NOZONE,0&X1,3 DIGIT OR GMWM?	8		1067	V |91 0|0 3		13	1091	000+1
229	1 075			SBR	X1	4		1075	H 089		13	089	
230	1 079			BCE	SWITCH,1&X1,\$ SUBSCRIPT?	8		1079	B /76 0|1 \$		13	1176	001+1
231	1 087			B	FOUND2	4		1087	B |67		13	1067	
232	1 091		NOZONE	BCE	ENDSTM,0&X1,} GM MEANS END OF STATEMENT	8		1091	B J74 0|0 } GMARK		14	2174	000+1
233	1 099			SBR	X1	4		1099	H 089		14	089	
234	1 103			BCE	FOUND2,1&X1,# ASSIGNMENT OPERATOR IS NOT A NUMBER	8		1103	B |67 0|1 #		14	1067	001+1
235	1 111			BCE	FOUND2,1&X1,@ ATSIGN IS NOT A NUMBER	8		1111	B |67 0|1 @		14	1067	001+1
236	1 119			MCW	2&X1,BEFORE	7		1119	M 0|2 L27		14	002+1	2327
237	1 126			MCW	AT	1		1126	M		14		
238	1 127			MCW	AFTER	1		1127	M		14		
239	1 128			SAR	X1	4		1128	Q 089		15	089	
240	1 132			MCW	BEFORE,*&8	7		1132	M L27 /46		15	2327	1146
241	1 139			BCE	FOUND3,OPPUN,0 CHAR BEFORE IS OPERATOR OR PUNCT?	8		1139	B S16 L72 0		15	1216	2372
242	1 147		CHAIN		10					MACRO			
243				BCE		1		1147	B	GEN	15		
244				BCE		1		1148	B	GEN	15		

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD	A-ADDR	B-ADDR
245				BCE		1		1149	B	GEN	15		
246				BCE		1		1150	B	GEN	15		
247				BCE		1		1151	B	GEN	16		
248				BCE		1		1152	B	GEN	16		
249				BCE		1		1153	B	GEN	16		
250				BCE		1		1154	B	GEN	16		
251				BCE		1		1155	B	GEN	16		
252				BCE		1		1156	B	GEN	16		
253	1	157		BCE	ENDSTM,1&X1,}	8		1157	B J74 0|1 }	GMARK	16	2174	001+1
254	1	165	BACKSP	SBR	X1,1&X1	7		1165	H 089 0|1		17	089	001+1
255	1	172		B	FOUND2	4		1172	B |67		17	1067	
256			*										
257			*	SUBSCRIPT	BEGIN								
258			*										
259	1	176	SWITCH	NOP	UNSW	4		1176	N /98		17	1198	
260	1	180		MCW	BRANCH,SWITCH	7		1180	M L73 /76		17	2373	1176
261	1	187		MCW	KB1,SWICH3&4 SET TO UNCONDITIONAL BRANCH	7		1187	M M83 !42		17	2483	2042
262	1	194		B	FOUND2	4		1194	B |67		17	1067	
263			*										
264			*	SUBSCRIPT	END								
265			*										
266	1	198	UNSW	MCW	NOP,SWITCH	7		1198	M L74 /76		18	2374	1176
267	1	205		MCW	UNEQ,SWICH3&4 SET TO BRANCH UNEQUAL	7		1205	M L75 !42		18	2375	2042
268	1	212		B	FOUND2	4		1212	B |67		18	1067	
269			*										
270			*	FOUND	A DIGIT PRECEDED BY AN OPERATOR OR PUNCTUATION IN OPPUN								
271			*										
272	1	216	FOUND3	BCE	DECMAL,3&X1,. 3&X1 = BEFORE	8		1216	B K11 0|3 .		18	2211	003+1
273	1	224		MCW	AFTER,*&8	7		1224	M L25 S38		18	2325	1238
274	1	231		BCE	BACKSP,ATHRUR,0 ?A-I!J-R ?	8		1231	B /65 L95 0		19	1165	2395
275	1	239		CHAIN	19					MACRO			
276				BCE		1		1239	B	GEN	19		
277				BCE		1		1240	B	GEN	19		
278				BCE		1		1241	B	GEN	19		
279				BCE		1		1242	B	GEN	19		
280				BCE		1		1243	B	GEN	19		
281				BCE		1		1244	B	GEN	19		
282				BCE		1		1245	B	GEN	20		
283				BCE		1		1246	B	GEN	20		
284				BCE		1		1247	B	GEN	20		
285				BCE		1		1248	B	GEN	20		
286				BCE		1		1249	B	GEN	20		
287				BCE		1		1250	B	GEN	20		
288				BCE		1		1251	B	GEN	20		
289				BCE		1		1252	B	GEN	21		
290				BCE		1		1253	B	GEN	21		
291				BCE		1		1254	B	GEN	21		
292				BCE		1		1255	B	GEN	21		
293				BCE		1		1256	B	GEN	21		
294				BCE		1		1257	B	GEN	21		

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD	A-ADDR	B-ADDR
345					*								
346	1	549	GOTFPK	MCW	X1, SX1A	7		1549	M 089 M18		29	089	2418
347	1	556		BW	* & 8, FLAG	8		1556	V V71 N23 1		30	1571	2523
348	1	564		LCA	0 & X3, 1 & X3	7		1564	L 0?0 0?1		30	000+3	001+3
349	1	571		MCW	SX1B, X1	7		1571	M M21 089		30	2421	089
350	1	578		MCW	MANTIS, WIDTH	7		1578	M 692 M23		30	692	2423
351	1	585		A	KP2, WIDTH	7		1585	A M24 M23		30	2424	2423
352	1	592		SBR	X3, 198	7		1592	H 099 198		31	099	198
353	1	599		SW	200	4		1599	, 200		31	200	
354	1	603	FLOOP	MCW	0 & X1, AT USE THE	7		1603	M 0|0 L26		31	000+1	2326
355	1	610		SAR	X1 PRINT AREA	4		1610	Q 089		31	089	
356	1	614		MCW	AT, 2 & X3 TO REVERSE	7		1614	M L26 0?2		31	2326	002+3
357	1	621		SBR	X3 THE CONSTANT	4		1621	H 099		31	099	
358	1	625		BW	FINFK, 1 & X1 TO CORRECT	8		1625	V W52 0|1 1		32	1652	001+1
359	1	633		S	KP1, WIDTH ORDER	7		1633	S M04 M23		32	2404	2423
360	1	640		C	WIDTH, KP00	7		1640	C M23 M26		32	2423	2426
361	1	647		BU	FLOOP	5		1647	B W03 /		32	1603	
362	1	652	FINFK	SBR	X3, 1 & X3 FINISHED WITH FLOATING POINT CONSTANT	7		1652	H 099 0?1		32	099	001+3
363	1	659	SKIPO	BCE	* & 5, 0 & X3, 0	8		1659	B W71 0?0 0		33	1671	000+3
364	1	667		B	NOT0	4		1667	B W83		33	1683	
365	1	671		MN	0 & X3	4		1671	D 0?0		33	000+3	
366	1	675		SAR	X3	4		1675	Q 099		33	099	
367	1	679		B	SKIPO	4		1679	B W59		33	1659	
368	1	683	NOT0	MN	0 & X3	4		1683	D 0?0		33	000+3	
369	1	687		SAR	X3	4		1687	Q 099		33	099	
370	1	691		MCW	EXP, 3 & X3 MOVE EXPONENT	7		1691	M L99 0?3		34	2399	003+3
371	1	698		MZ	ADD2, 1 & X3 ZONE FOR MANTISSA	7		1698	Y M27 0?1		34	2427	001+3
372	1	705		LCA	3 & X3, 0 & X2	7		1705	L 0?3 0!0		34	003+3	000+2
373	1	712		SBR	X2	4		1712	H 094		34	094	
374	1	716		B	KFIN	4		1716	B !89		34	2089	
375					*								
376					* CONSTANT ON LEFT SIDE OF EQUAL SIGN								
377					*								
378	1	720	KLEFT	CS	332	4		1720	/ 332		34	332	
379	1	724		CS		1		1724	/		34		
380	1	725		SW	GLOBER	4		1725	, 184		35	184	
381	1	729		MN	SEQCOD, 256	7		1729	D L32 256		35	2332	256
382	1	736		MN		1		1736	D		35		
383	1	737		MN		1		1737	D		35		
384	1	738		MCW	KLM1	4		1738	M M49		35	2449	
385	1	742		MCW	KLM2	4		1742	M M82		35	2482	
386	1	746		W		1		1746	2		35		
387	1	747		BCV	* & 5	5		1747	B X56 @		36	1756	
388	1	752		B	* & 3	4		1752	B X58		36	1758	
389	1	756		CC	1	2		1756	F 1		36		
390	1	758		MCW	SX2, X2	7		1758	M L48 094		36	2348	094
391	1	765		MCW	KB1, 0 & X2	7		1765	M M83 0!0		36	2483	000+2
392	1	772		C	0 & X1	4		1772	C 0|0		36	000+1	
393	1	776		SAR	X1	4		1776	Q 089		36	089	
394	1	780		B	LOOP	4		1780	B 877		37	877	

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD	A-ADDR	B-ADDR
395					*								
396					* SYNTAX ERROR FOR CONSTANT								
397					*								
398	1	784	SYNTAX	CS	332	4		1784	/ 332		37	332	
399	1	788		CS		1		1788	/		37		
400	1	789		SW	GLOBER	4		1789	, 184		37	184	
401	1	793		MN	SEQCOD,241	7		1793	D L32 241		37	2332	241
402	1	800		MN		1		1800	D		37		
403	1	801		MN		1		1801	D		37		
404	1	802		MCW	ERR44	4		1802	M N21		38	2521	
405	1	806		W		1		1806	2		38		
406	1	807		BCV	*&5	5		1807	B Y16 @		38	1816	
407	1	812		B	*&3	4		1812	B Y18		38	1818	
408	1	816		CC	1	2		1816	F 1		38		
409	1	818		B	SYNBAK	4		1818	B V30		38	1530	
410					*								
411	1	822	DEC2	MCW	K0,2&X1	7		1822	M N22 0|2		38	2522	002+1
412	1	829		SW	FLAG	4		1829	, N23		39	2523	
413	1	833		B	DECBAK	4		1833	B U98		39	1498	
414					*								
415					* FLOATING-POINT EXPONENT								
416					*								
417	1	837	GOTEXP	ZA	PZE,THEEXP	7		1837	? N24 N26		39	2524	2526
418	1	844		BWZ	EXPNS,0&X1,2	8		1844	V Y63 0|0 2		39	1863	000+1
419	1	852		MZ	0&X1,THEEXP EXPONENT IS SIGNED	7		1852	Y 0|0 N26		39	000+1	2526
420	1	859		SAR	X1	4		1859	Q 089		39	089	
421	1	863	EXPNS	MN	0&X1	4		1863	D 0|0		39	000+1	
422	1	867		SAR	X1	4		1867	Q 089		40	089	
423	1	871		C	0&X1,Z	7		1871	C 0|0 N27		40	000+1	2527
424	1	878		BL	EXP2	5		1878	B Y94 T		40	1894	
425	1	883		MN	1&X1,THEEXP	7		1883	D 0|1 N26		40	001+1	2526
426	1	890		B	EXP3	4		1890	B Z12		40	1912	
427	1	894	EXP2	MN	1&X1,THEEXP-1	7		1894	D 0|1 N25		40	001+1	2525
428	1	901		MN	0&X1,THEEXP	7		1901	D 0|0 N26		41	000+1	2526
429	1	908		SAR	X1	4		1908	Q 089		41	089	
430	1	912	EXP3	A	THEEXP,EXP	7		1912	A N26 L99		41	2526	2399
431	1	919		MN	0&X1	4		1919	D 0|0		41	000+1	
432	1	923		SAR	X1	4		1923	Q 089		41	089	
433	1	927		B	EXPBAK	4		1927	B V06		41	1506	
434					*								
435					* FOUND INTEGER CONSTANT								
436					*								
437	1	931	GOTIK	C	SIGWID,KPZ3	7		1931	C M02 M12		41	2402	2412
438	1	938		BU	I2	5		1938	B Z62 /		42	1962	
439	1	943		LCA	KB0,0&X2 ZERO CONSTANT	7		1943	L N29 0!0		42	2529	000+2
440	1	950		SBR	X2	4		1950	H 094		42	094	
441	1	954		CW	1&X2	4		1954	) 0!1		42	001+2	
442	1	958		B	TLESSX	4		1958	B J00		42	2100	
443	1	962	I2	MCW	X1,SX1A	7		1962	M 089 M18		42	089	2418
444	1	969		MCW	SX1B,X3	7		1969	M M21 099		42	2421	099

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD	A-ADDR	B-ADDR
445	1	976		SW	0&X3	4		1976	, 0?0		43	000+3	
446	1	980		SBR	X3,299	7		1980	H 099 299		43	099	299
447	1	987		MCW	IMOD,WIDTH	7		1987	M 690 M23		43	690	2423
448	1	994	ILOOP	MCW	2&X1,AT MOVE UP	7		1994	M 0|2 L26		43	002+1	2326
449	2	001		SAR	X1 CONSTANT,	4		2001	Q 089		43	089	
450	2	005		MCW	AT,0&X3 REVERSING DIGITS	7		2005	M L26 0?0		43	2326	000+3
451	2	012		SBR	X3 TO CORRECT	4		2012	H 099		44	099	
452	2	016		BW	FINIK,1&X1 ORDER	8		2016	V !43 0|1 1		44	2043	001+1
453	2	024		S	KP1,WIDTH	7		2024	S M04 M23		44	2404	2423
454	2	031		C	WIDTH,KP00	7		2031	C M23 M26		44	2423	2426
455	2	038	SWICH3	BU	ILOOP	5		2038	B Z94 /		44	1994	
456	2	043	FINIK	SW	1&X3 FINISHED WITH INTEGER CONSTANT	4		2043	, 0?1		44	001+3	
457	2	047		LCA	299,0&X2	7		2047	L 299 0!0		45	299	000+2
458	2	054		SBR	X2	4		2054	H 094		45	094	
459	2	058		CW	1&X3	4		2058	) 0?1		45	001+3	
460	2	062		C	SIGWID,KP001	7		2062	C M02 N32		45	2402	2532
461	2	069		BU	KFIN	5		2069	B !89 /		45	2089	
462	2	074		CW	1&X2	4		2074	) 0!1		45	001+2	
463	2	078		LCA	KB1A,0&X2	7		2078	L N33 0!0		45	2533	000+2
464	2	085		SBR	X2	4		2085	H 094		46	094	
465	2	089	KFIN	CW	1&X2 FINISHED WITH INTEGER OR FP CONSTANT	4		2089	) 0!1		46	001+2	
466	2	093		MCW	SX1A,X1	7		2093	M M18 089		46	2418	089
467	2	100	TLESSX	SBR	X1,1&X1	7		2100	H 089 0|1		46	089	001+1
468	2	107		SBR	SX1	4		2107	H L45		46	2345	
469	2	111	TLESS	BCE	FOUND2,0-0,<	8		2111	B |67 000 <		46	1067	000
470				*									
471				*	PROGRAM IS TOO BIG								
472				*									
473	2	119		CS	332	4		2119	/ 332		46	332	
474	2	123		CS		1		2123	/		47		
475	2	124		CC	1	2		2124	F 1		47		
476	2	126		MCW	ERROR2,270	7		2126	M N69 270		47	2569	270
477	2	133		W		1		2133	2		47		
478	2	134		CC	1	2		2134	F 1		47		
479	2	136		BCE	HALT,CDOVLY,1	8		2136	B J49 700 1		47	2149	700
480	2	144		RWD	1	5		2144	U %U1 R		47	%U1	
481	2	149	HALT	H	HALT	4		2149	. J49		48	2149	
482				*									
483				*	TAPE BLOCK IS TOO BIG FOR CHM TAU EMULATOR								
484				*									
485			END1	DCW	@}@	1		2153		GMARK	48		
486				XFR	LOADNX LOAD THIS				B 700		49	700	
487			PART2	LDPH	,DONE,BEGN18,,18.2 LOAD PART2 AND START IN PART 1					MACRO			
				*	PHAZ LDPH [PHASID],LOADAD,ENTAD[,SKIPFG,SKIP],[NUMBER][,HALT]					GEN			
				*	XFR PHASZ PROHIBITED IN A MACRO					GEN			
				*						GEN			
				*	LOAD A BLOCK					GEN			
				*						GEN			
488			)6K004	EQU	700 LOAD NEXT PHASE			0700		GEN			
489			)6L004	EQU	704 TAPE READ INSTRUCTION			0704		GEN			

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD	A-ADDR	B-ADDR
490			)6M004	EQU	728 TAPE ERROR HANDLER			0728		GEN			
			*							GEN			
491				ORG	201				0201				
492			PART2	EQU	*&1			0201		GEN			
493				BCE	)6K004,)6K004,1	8	0201	B 700 700 1	GEN		50	700	700
494				BCE	)6K004,)6L004&4,0	8	0209	B 700 708 0	GEN		50	700	708
495				RTW	1,DONE	8	0217	L %U1 J53 R	GEN		50	%U1	2153
496				BER	)6M004	5	0225	B 728 L	GEN		50	728	
497				CS	BEGN18,)9R004	7	0230	/ 838 242	GEN		50	838	242
498				DC	#1	1	0237		GEN		50		
499				DC	@18.2@	4	0241		GEN		51		
500			)9R004	DCW	@}@	1	0242		GEN		51		
501				XFR	PART2			B 201			52	201	
502				ORG	END1			2153					
503				*									
504				*	DONE								
505				*									
506	2	153	DONE	BSS	SNAPSH,C	5	2153	B 333 C			53	333	
507	2	179		B	LOADNX	4	2158	B 700			53	700	
508				*									
509				*	CHECK FOR IF STATEMENT								
510				*									
511	2	183	TESTIF	BCE	ENDSTM,SEQCOD-3,E	8	2162	B J74 L29 E			53	2174	2329
512	2	191		B	MARK	4	2170	B S66			53	1266	
513				*									
514				*	END OF STATEMENT. MOVE IT UP								
515				*									
516	2	195	ENDSTM	MCW	SX1,X3	7	2174	M L45 099			53	2345	099
517	2	202		LCA	0&X3,0&X2	7	2181	L 0?0 0!0			53	000+3	000+2
518	2	209		SAR	X3	4	2188	Q 099			53	099	
519	2	213		C	0&X2	4	2192	C 0!0			54	000+2	
520	2	217		SAR	X2	4	2196	Q 094			54	094	
521	2	221		MCW	X3,X1	7	2200	M 099 089			54	099	089
522	2	228		B	LOOP	4	2207	B 877			54	877	
523				*									
524				*	FP CONSTANT BEGN18ING WITH A DECIMAL POINT								
525				*									
526	2	232	DECMAL	SBR	X1,1&X1	7	2211	H 089 0|1			54	089	001+1
527	2	239		B	MARK	4	2218	B S66			54	1266	
528				*									
529				*	DECIMAL POINT								
530				*									
531	2	243	MSN	MCW	SUB2,ASN2	7	2222	M N70 T90			54	2570	1390
532	2	250		MCW	ANOP,MAN&3	7	2229	M L24 K54			55	2324	2254
533	2	257		MCW	X1,X3	7	2236	M 089 099			55	089	099
534	2	264	SWNOP	SW	FLAG EITHER SW OR NOP	4	2243	, N23			55	2523	
535	2	268		B	ZSCAN	4	2247	B T79			55	1379	
536				*									
537	2	272	MAN	MCW	ADD2,ASN2	7	2251	M M27 T90			55	2427	1390
538	2	279		MCW	ANOP,MSN&3	7	2258	M L24 K25			55	2324	2225

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD	A-ADDR	B-ADDR
539	2	286		MCW	NOP, SWICH2	7		2265	M L74 U04		56	2374	1404
540	2	293		SBR	SX1B, 1&X1	7		2272	H M21 0|1		56	2421	001+1
541	2	300		MCW	NOP, SWNOP	7		2279	M L74 K43		56	2374	2243
542	2	307		B	TSTASG	4		2286	B U35		56	1435	
543				*									
544				* DATA									
545				*									
546			CODTAB	EQU	*&1			2290					
547	2	340		DCW	@R 2E 2D#1L, 15, 0U, 1P, 16, 01, 13, 1@	30		2319			57		
548	2	341	ADD	A		1		2320	A		57		
549	2	342	SUB	S		1		2321	S		57		
550	2	345	ANOP	DSA	NOP	3		2324	L74		57	2374	
551	2	346	AFTER	DCW	#1 CHAR AFTER DIGIT	1		2325			57		
552	2	347	AT	DCW	#1 DIGIT	1		2326			57		
553	2	348	BEFORE	DCW	#1 CHAR BEFORE DIGIT	1		2327			57		
554	2	349	GM	DC	@}@ GM	1		2328		GMARK	57		
555	2	353	SEQCOD	DCW	#4 STATEMENT CODE, SEQUENCE NUMBER	4		2332			58		
556	2	363	PREFIX	DCW	#10 ENTIRE STATEMENT PREFIX	10		2342			58		
557	2	366	SX1	DCW	#3	3		2345			58		
558	2	369	SX2	DCW	#3	3		2348			58		
559	2	379	CODES	DCW	@UPL3165DER@ I/O, DO, IF, ARITH CODES	10		2358			58		
560	2	381	PUNCNT	DCW	#2	2		2360			58		
561	2	382	K1	DCW	1	1		2361			58		
562	2	393	OPPUN	DCW	@) }@. # % \$, * - & @ OPERATORS AND PUNCTUATION	11		2372			59		
563	2	394	BRANCH	B		1		2373	B		59		
564	2	395	NOP	NOP		1		2374	N		59		
565	2	396	UNEQ	DCW	@/@ D-MODIFIER FOR UNEQUAL BRANCH	1		2375			59		
566	2	416	ATHRUR	DCW	@?ABCDEFGHIJKLMNPOQR@	20		2395			59		
567	2	417	KLESS	DCW	@<@	1		2396			59		
568	2	418	KUNDER	DCW	@_@	1		2397			59		
569	2	420	EXP	DCW	#2	2		2399			60		
570	2	423	SIGWID	DCW	#3 SIGNIFICANT WIDTH OF CONSTANT	3		2402			60		
571	2	424	SW	SW		1		2403	,		60		
572	2	425	KP1	DCW	&1	1		2404			60		
573	2	428	NLZ	DCW	#3 NUMBER OF LEADING ZEROS	3		2407			60		
574	2	430	KP01	DCW	&01	2		2409			60		
575	2	433	KPZ3	DCW	&000	3		2412			60		
576	2	436	K15K	DSA	15000	3		2415	?0?		61	15000	
577	2	439	SX1A	DCW	#3	3		2418			61		
578	2	442	SX1B	DCW	#3	3		2421			61		
579	2	444	WIDTH	DCW	#2 MANTIS OR IMOD	2		2423			61		
580	2	445	KP2	DCW	&2	1		2424			61		
581	2	447	KP00	DCW	&00	2		2426			61		
582	2	448	ADD2	A		1		2427	A		61		
583	2	470	KLM1	DCW	@EQUAL SIGN, STATEMENT @	22		2449			62		
584	2	503	KLM2	DCW	@ERROR 41 - CONSTANT LEFT SIDE OF @	33		2482			63		
585	2	504	KB1	DCW	#1	1		2483			63		
586	2	542	ERR44	DCW	@ERROR 44 - CONSTANT SYNTAX, STATEMENT @	38		2521			64		
587	2	543	K0	DCW	0	1		2522			64		
588	2	544	FLAG	DCW	#1	1		2523			65		

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD	A-ADDR	B-ADDR
589	2	545	PZE	DCW	&0	1		2524			65		
590	2	547	THEEXP	DCW	#2	2		2526			65		
591	2	548	Z	DCW	@Z@	1		2527			65		
592	2	550	KB0	DCW	@ 0@	2		2529			65		
593	2	553	KP001	DCW	&001	3		2532			65		
594	2	554	KB1A	DCW	#1	1		2533			65		
595	2	590	ERROR2	DCW	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@	36		2569			66		
596	2	600	SUB2	S		1		2570	S		66		
597	2	601	GMWM	DCW	@}@	1		2571		GMARK	66		
598			ORG		*&X00 MOKOTOFF V3M4.LST LINE 4022				2600				
599	*		FREBOT	EQU	*			2599					
600			XFR		BEGN18				B 838		67	838	
601			CLRME	CLRA	BEGN18,GMWM					MACRO			
			*	CLRA	CLRBOT,CLRTOP[,ORG,GMWMAD]					GEN			
			*							GEN			
			*	CLEAR CORE	AFTER A PHASE USING THE CLRTOP ADDRESS					GEN			
			*							GEN			
602			ORG		201				0201				
			*							GEN			
			*	CLEAR DOWN	TO CLRBOT & X00 THE EASY WAY					GEN			
			*							GEN			
603			CLRME	EQU	*&1			0201		GEN			
604			)0J005	CS	GMWM CLEAR FROM CLRTOP	4		0201	/ N71	GEN	68	2571	
605			SBR		)0J005&3	4		0205	H 204	GEN	68	204	
606			SBR		)0L005&6	4		0209	H 250	GEN	68	250	
607			C		)0J005&3,)0M005 DOWN TO CLRBOT & X00?	7		0213	C 204 261	GEN	68	204	261
608			BU		)0J005	5		0220	B 201 /	GEN	68	201	
			*							GEN			
			*	NOW CLEAR	DOWN TO CLRBOT THE HARD WAY					GEN			
			*							GEN			
609			)0K005	C	)0L005&6,)0N005	7		0225	C 250 264	GEN	68	250	264
610			BU		)0L005	5		0232	B 244 /	GEN	68	244	
611			CS		LOADNX,)0Q005 LOAD THE NEXT BLOCK AT 1	7		0237	/ 700 271	GEN	69	700	271
612			)0L005	LCA	)0P005,0-0 CLEAR WITH BLANK AND WORD MARK	7		0244	L 265 000	GEN	69	265	000
613			SBR		)0L005&6	4		0251	H 250	GEN	69	250	
614			B		)0K005	4		0255	B 225	GEN	69	225	
615			)0M005	DSA	)0R005 CLRBOT & X00 - 1	3		0261	899	GEN	69	899	
616			)0N005	DSA	BEGN18 CLRBOT	3		0264	838	GEN	69	838	
617			)0P005	DCW	#1	1		0265		GEN	69		
618			DC		@CLRA @ IDENTIFY IN A DECK, TAPE, OR DUMP	5		0270		GEN	69		
619			)0Q005	DCW	@}@	1		0271		GEN	70		
620			ORG		BEGN18&X00				0900				
621			)0R005	EQU	* CLRBOT & X00 - 1			0899		GEN			
622			XFR		CLRME				B 201		71	201	

SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS
)0J005	0201: 0	)0K005	0225: 0	)0L005	0244: 0	)0M005	0261: 0	)0N005	0264: 0	)0P005	0265: 0
)0Q005	0271: 0	)0R005	0899: 0	)6J003	0110: 0	)6K003	0700: 0	)6L004	0700: 0	)6L003	0704: 0
)6L004	0704: 0	)6M003	0728: 0	)6M004	0728: 0	)9J003	0252: 0	)9R003	0258: 0	)9R004	0242: 0
ADD	2320: 0	ADD2	2427: 0	AFTER	2325: 0	ANOP	2324: 0	ASN2	1390: 0	AT	2326: 0
ATHRUR	2395: 0	BACKSP	1165: 0	BEFORE	2327: 0	BEGIN3	0838: 0	BEGN18	0838: 0	BRANCH	2373: 0
CDOVLY	0700: 0	CLRME	0201: 0	CODES	2358: 0	CODTAB	2290: 0	DEC2	1822: 0	DECBK	1498: 0
DECMAL	2211: 0	DONE	2153: 0	END1	2153: 0	ENDSTM	2174: 0	ERR44	2521: 0	ERROR2	2569: 0
EXP	2399: 0	EXP2	1894: 0	EXP3	1912: 0	EXPBAK	1506: 0	EXPNS	1863: 0	FINK	1652: 0
FINIK	2043: 0	FLAG	2523: 0	FLOOP	1603: 0	FOUND	1002: 0	FOUND2	1067: 0	FOUND3	1216: 0
FREBOT	2599: 0	GLOBER	0184: 0	GM	2328: 0	GMWM	2571: 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	2522: 0	K1	2361: 0	K15K	2415: 0	KB0	2529: 0	KB1	2483: 0
KB1A	2533: 0	KFIN	2089: 0	KLEFT	1720: 0	KLESS	2396: 0	KLM1	2449: 0	KLM2	2482: 0
KP00	2426: 0	KP001	2532: 0	KP01	2409: 0	KP1	2404: 0	KP2	2424: 0	KPZ3	2412: 0
KUNDER	2397: 0	LOADAD	0838: 0	LOADNX	0700: 0	LOOP	0877: 0	MAN	2251: 0	MANTIS	0692: 0
MARK	1266: 0	MSN	2222: 0	NLZ	2407: 0	NOP	2374: 0	NOT0	1683: 0	NOZONE	1091: 0
OPPUN	2372: 0	PART2	0201: 0	PHAS18	0201: 0	PHASLD	0381: 0	PREFIX	2342: 0	PUNCNT	2360: 0
PZE	2524: 0	SCHCNT	1016: 0	SCHPUN	1031: 0	SEARCH	0986: 0	SEQCOD	2332: 0	SIGWID	2402: 0
SKIP0	1659: 0	SNAPEX	0564: 0	SNAPSH	0333: 0	SUB	2321: 0	SUB2	2570: 0	SW	2403: 0
SWICH2	1404: 0	SWICH3	2038: 0	SWITCH	1176: 0	SWNOP	2243: 0	SX1	2345: 0	SX1A	2418: 0
SX1B	2421: 0	SX2	2348: 0	SYNBAK	1530: 0	SYNTAX	1784: 0	TESTIF	2162: 0	THEEXP	2526: 0
TLESS	2111: 0	TLESSX	2100: 0	TOP3	2600: 0	TOPCOR	0688: 0	TPERR	0728: 0	TPREAD	0704: 0
TSTASG	1435: 0	UNEQ	2375: 0	UNSW	1198: 0	WIDTH	2423: 0	X1	0089: 0	X2	0094: 0
X3	0099: 0	Z	2527: 0	ZSCAN	1379: 0						

UNREFERENCED SYMBOLS

FREBOT PHASLD SNAPEX TOP3 TPERR TPREAD