

CLEAR STORAGE 1	,008015,022026,030037,044,049,053053N000000N00001026	1
CLEAR STORAGE 2	L068116,105106,110117B101/I9I#071029C029056B026/B001/0991,001/001117I0?	2
BOOTSTRAP	,008015,022029,036040,047054,061068,072/061039,0010011040	3

1401 FORTRAN SYSTEM	VERSION THREE	50003	PAGE	1
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SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
101	1	01	273	JOB	1401 FORTRAN SYSTEM						
102	1	02		CTL	645 11						
103	1	03		ORG	111				0111		
104	1	04	XDOAD1	DCW	#1	1		0111			4
105	1	05	XDOAD2	DCW	#1	1		0112			4
106	1	06	XDOAD3	DCW	#1	1		0113			4
107	1	07	XDOINI	DCW	#1	1		0114			4
108	1	08	XOBLST	DCW	#1	1		0115			4
109	1	09	XDOSBS	DCW	#1	1		0116			4
110	1	10	XCOMF1	DCW	#1	1		0117			4
111	1	11	XSINFU	DCW	#1	1		0118			5
112	1	12	XLOGFN	DCW	#1	1		0119			5
113	1	13	XXPNTL	DCW	#1	1		0120			5
114	1	14	XATANF	DCW	#1	1		0121			5
115	1	15	XABSV	DCW	#1	1		0122			5
116	1	16	XNEGTF	DCW	#1	1		0123			5
117	1	17	XFIXFU	DCW	#1	1		0124			5
118	1	18	XFLTFU	DCW	#1	1		0125			6
119	1	19	XSQRTF	DCW	#1	1		0126			6
120	1	20	XUSER1	DCW	#1	1		0127			6
121	1	21	XUSER2	DCW	#1	1		0128			6
122	1	22	XUSER3	DCW	#1	1		0129			6
123	1	23	XUSER4	DCW	#1	1		0130			6
124	1	24	XUSER5	DCW	#1	1		0131			6
125	1	25	XUSER6	DCW	#1	1		0132			7
126	1	26	XUSER7	DCW	#1	1		0133			7
127	1	27	XUSER8	DCW	#1	1		0134			7
128	1	28	XUSER9	DCW	#1	1		0135			7
129	1	29	XUSR10	DCW	#1	1		0136			7
130	1	30	XUSR11	DCW	#1	1		0137			7
131	1	31	XUSR12	DCW	#1	1		0138			7
132	1	32	XLINKF	DCW	#1	1		0139			8
133	1	33	NDTABL	EQU	*&1			0140			
134	1	34	ONEADR	DCW	#3	3		0142			8
135	1	35	ADTBLL	DCW	#3	3		0145			8
136	1	36	BSAUCE	DCW	#3	3		0148			8
137	1	37	GNSTMZ	DCW	#3	3		0151			8
138	1	38	PERIOD	DCW	#3	3		0154			8
139	1	39	XEXPON	DCW	#3	3		0157			8
140	1	40	PLUSDF	DCW	#3	3		0160			9
141	1	41	MACFLS	DCW	#3	3		0163			9
142	1	42		ORG	181				0181		
143	1	43	INTSTZ	DCW	#3	3		0183			10
144	1	44	GOGOGO	EQU	*			0183			
145	1	45	FAILSW	DC	#1	1		0184			10
146	1	46	XLINKW	DCW	#1	1		0185			10
147	1	47	GOTOFN	DCW	#3	3		0188			10

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	1	48	SUBSCR	DCW	#3						
149	1	49	CONLST	DCW	#3						
150	1	50	FUNCSW	DC	#1						
151	1	51		ORG	196						
152	1	52		DCW	@V3M4@	V3M4	4	0199	0196		

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
153	1	53		JOB	1401 FORTRAN SNAPSHOT ROUTINE						
154	1	54		SFX	7	7					
155	1	55	XXX	EQU	0	7		0000			
156	1	56	XL1	EQU	089	7		0089			
157	1	57	089	DCW	000	7	3	0089			11
158	1	58	XL3	EQU	099	7		0099			
159	1	59	099	DCW	000	7	3	0099			12
160	1	60		ORG	333	7			0333		
161	1	61		SBR	PRTXT&3	7	4	0333	H 567		13
162	1	62		SBR	HLDXT&6	7	4	0337	H 408		13
163	1	63		MCW	@000@,LINCT-2	7	7	0341	M 661 656		13
164	1	64		MCW	XL3, HLD32&6	7	7	0348	M 099 415		13
165	1	65		MCW	XL1, HLD31&6	7	7	0355	M 089 422		13
166	1	66		SBR	XL1, 1	7	7	0362	H 089 001		13
167	1	67		SBR	XL3, 202	7	7	0369	H 099 202		14
168	1	68		CS	332	7	4	0376	/ 332		14
169	1	69		CS		7	1	0380	/		14
170	1	70		MCW	110,210	7	7	0381	M 110 210		14
171	1	71		BSS	ONLY,F	7	5	0388	B 621 F		14
172	1	72		CC	1	7	2	0393	F 1		14
173	1	73		MCW	094,250	7	7	0395	M 094 250		14
174	1	74	HLDXT	SBR	216,XXX	7	7	0402	H 216 000		15
175	1	75	HLD32	SBR	256,XXX	7	7	0409	H 256 000		15
176	1	76	HLD31	SBR	244,XXX	7	7	0416	H 244 000		15
177	1	77		W		7	1	0423	2		15
178	1	78		CC	K	7	2	0424	F K		15
179	1	79		ZA	&2,PGCTR#2	7	7	0426	? 662 664		15
180	1	80	NULINE	CS	332	7	4	0433	/ 332		15
181	1	81		CS		7	1	0437	/		16
182	1	82		CC	J	7	2	0438	F J		16
183	1	83		MCW	LINCT,306	7	7	0440	M 658 306		16
184	1	84		MCW		7	1	0447	M		16
185	1	85		SBR	MVHED&6	7	4	0448	H 465		16
186	1	86		MCW	@9@, CTR-1	7	7	0452	M 665 668		16
187	1	87	MVHED	MCW	CTR-1,XXX	7	7	0459	M 668 000		16
188	1	88		MCW	HEAD	7	4	0466	M 651		17
189	1	89		SBR	MVHED&6	7	4	0470	H 465		17
190	1	90		A	@I0@, CTR#2	7	7	0474	A 667 669		17
191	1	91		BWZ	MVHED, CTR-1, 2	7	8	0481	V 459 668 2		17
192	1	92		A	&1,LINCT-2	7	7	0489	A 670 656		17
193	1	93		W		7	1	0496	2		17
194	1	94	LOOP	SW	0&X3	7	4	0497	, 0?0		17
195	1	95		MCW	0&X1,0&X3	7	7	0501	M 0|0 0?0		18
196	1	96		BW	CMPAB,0&X1	7	8	0508	V 520 0|0 1		18
197	1	97		CW	0&X3	7	4	0516	) 0?0		18
198	1	98	CMPAB	C	XL1,PARAM&2	7	7	0520	C 089 688		18
199	1	99		BU	CPL	7	5	0527	B 568 /		18
200	2	00		W		7	1	0532	2		18
201	2	01		WM		7	2	0533	2)		18
202	2	02	RSTRX	MCW	HLD31&6,XL1	7	7	0535	M 422 089		19

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
203	2	03		MCW	HLD32&6,XL3	7	7	0542	M 415 099		19
204	2	04		CS	332	7	4	0549	/ 332		19
205	2	05		CS		7	1	0553	/		19
206	2	06		BSS	*&5,G	7	5	0554	B 563 G		19
207	2	07		B	PRTXT	7	4	0559	B 564		19
208	2	08		H		7	1	0563	.		19
209	2	09	PRTXT	B	0	7	4	0564	B 000		20
210	2	10	CPL	SBR	XL1, 1&X1	7	7	0568	H 089 0|1		20
211	2	11		BCE	INC, XL3-2, 2	7	8	0575	B 632 097 2		20
212	2	12		SBR	XL3, 201	7	7	0583	H 099 201		20
213	2	13		W		7	1	0590	2		20
214	2	14		WM		7	2	0591	2)		20
215	2	15		A	&1,PGCTR	7	7	0593	A 670 664		20
216	2	16		C	PGCTR,&15	7	7	0600	C 664 672		21
217	2	17		BU	NULINE	7	5	0607	B 433 /		21
218	2	18		S	PGCTR	7	4	0612	S 664		21
219	2	19		CCB	NULINE,1	7	5	0616	F 433 1		21
220	2	20	ONLY	MCW	@EXECUTED@,220	7	7	0621	M 680 220		21
221	2	21		W	RSTRX	7	4	0628	2 535		21
222	2	22	INC	A	&1,XL3	7	7	0632	A 670 099		21
223	2	23		B	LOOP	7	4	0639	B 497		22
224	2	24	HEAD	DCW	@9.....@	7	9	0651			22
225	2	25		DCW	@9-@	7	2	0653			22
226	2	26	LINCT	DCW	00000	7	5	0658			22
227	2	27		LTORG	*	7			0659		
				DCW	@000@	7	3	0661		LIT	22
				DCW	&2	7	1	0662		LIT	22
			PGCTR7	DCW	#02	7	2	0664		AREA	22
				DCW	@9@	7	1	0665		LIT	23
				DCW	@I0@	7	2	0667		LIT	23
			CTR 7	DCW	#02	7	2	0669		AREA	23
				DCW	&1	7	1	0670		LIT	23
				DCW	&15	7	2	0672		LIT	23
				DCW	@EXECUTED@	7	8	0680		LIT	23

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
228	2	28		JOB	1401 FORTRAN SYSTEM MONITOR AND PARAMETER CARD	7					
229	2	29		SFX	A	A					
230	2	30	PRMCD	DA	1X19	A		0681	0699		23
231	2	31	PARAM		6	A		0686		SBFLD	
232	2	32	MONTER	MCW	BCLEAR-2,CCLEAR-2	A	7	0700	M 831 828		24
233	2	33	ACLEAR	CS	0	A	4	0707	/ 000		24
234	2	34		SBR	TCLEAR	A	4	0711	H 710		24
235	2	35		C	TCLEAR,CCLEAR	A	7	0715	C 710 830		24
236	2	36		BU	ACLEAR	A	5	0722	B 707 /		24
237	2	37		SW	LOD&4	A	4	0727	, 758		24
238	2	38		MCW	TCLEAR,LOD&6	A	7	0731	M 710 760		25
239	2	39		CW	LOD&4	A	4	0738	) 758		25
240	2	40	CK	C	LOD&6,BCLEAR#3	A	7	0742	C 760 833		25
241	2	41		BE	MONTOR	A	5	0749	B 769 S		25
242	2	42	LOD	LCA	@ @,0	A	7	0754	L 834 000		25
243	2	43		SBR	LOD&6	A	4	0761	H 760		25
244	2	44		B	CK	A	4	0765	B 742		25
245	2	45	TCLEAR	EQU	ACLEAR&3	A		0710			
246	2	46	*RESTRICTIONS ON CLEAR ROUTINE								
247	2	47	*		1. MUST CLEAR AT LEAST ONE CENTURY						
248	2	48	*		2. CANNOT CLEAR ABOVE 4K						
249	2	49	MONTOR	R	040	A	4	0769	1 040		26
250	2	50	NINE	MCW	&9,RDCNT	A	7	0773	M 835 837		26
251	2	51	INITAP	RTW	1,XBEGIN	A	8	0780	L %U1 838 R		26
252	2	52		BER	ERRTP	A	5	0788	B 797 L		26
253	2	53	INITXT	B	XBEGIN	A	4	0793	B 838		26
254	2	54	ERRTP	BSP	1	A	5	0797	U %U1 B		26
255	2	55		S	&1,RDCNT#1	A	7	0802	S 836 837		27
256	2	56		BWZ	INITAP,RDCNT,B	A	8	0809	V 780 837 B		27
257	2	57		H	3333,3333	A	7	0817	. C33 C33		27
258	2	58		B	NINE	A	4	0824	B 773		27
259	2	59	CCLEAR	DCW	999	A	3	0830			27
260	2	60		LTORG	*	A			0831		
			BCLEAR	DCW	#03	A	3	0833		AREA	27
				DCW	@ @	A	1	0834		LIT	27
				DCW	&9	A	1	0835		LIT	28
				DCW	&1	A	1	0836		LIT	28
			RDCNTA	DCW	#01	A	1	0837		AREA	28
261	2	61	XBEGIN	EQU	*&1	A		0838			

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
262	2	62		JOB	1401 FORTRAN LOADER PHASE	A					
263	2	63		FBEGN	LOADER,XL1,R,XL2,R,XL3,R,A	A				MACRO	
264				SFX	A	A				GEN	
265		110		DCW	@LOADER@	A	6	0110		GEN	29
266		XL1		EQU	089	A		0089		GEN	
267		089		DCW	000	A	3	0089		GEN	30
268		091		DC	00	A	2	0091		GEN	30
269		XL2		EQU	094	A		0094		GEN	
270		094		DCW	000	A	3	0094		GEN	30
271		096		DC	00	A	2	0096		GEN	30
272		XL3		EQU	099	A		0099		GEN	
273		099		DCW	000	A	3	0099		GEN	30
274		100		DC	0	A	1	0100		GEN	30
275	2	64	START	BCE	* & 8,1,	A	8	0838	B 853 001		31
276	2	65		MCW	@N@,MONTOR	A	7	0846	M N49 769		31
277	2	66		CS	080	A	4	0853	/ 080		31
278	2	67		SW	1,GM	A	7	0857	, 001 N29		31
279	2	68		SW	81,84	A	7	0864	, 081 084		31
280	2	69		CS	332	A	4	0871	/ 332		31
281	2	70		CS		A	1	0875	/		31
282	2	71		R		A	1	0876	1		32
283	2	72		LCA	19,PRMCD&18	A	7	0877	L 019 699		32
284	2	73		C	PRMCD&4,@PARAM@	A	7	0884	C 685 N54		32
285	2	74		BU	NOPRM	A	5	0891	B L24 /		32
286	2	75		SW	073	A	4	0896	, 073		32
287	2	76		SW	006,007	A	7	0900	, 006 007		32
288	2	77		SW	PARAM	A	4	0907	, 686		32
289	2	78		MCW	80,PARAM-1	A	7	0911	M 080 685		33
290	2	79		CS	0	A	4	0918	/ 000		33
291	2	80		SBR	LARRY#3	A	4	0922	H N57		33
292	2	81		MCW	PARAM&2,DUM3#3	A	7	0926	M 688 N60		33
293	2	82		B	UNPAK	A	4	0933	B Y76		33
294	2	83		MCW	DUM5#5,WK5	A	7	0937	M N65 053		33
295	2	84		MCW	LARRY,DUM3	A	7	0944	M N57 N60		34
296	2	85		B	UNPAK	A	4	0951	B Y76		34
297	2	86		MCW	DUM5,WK51	A	7	0955	M N65 048		34
298	2	87		A	&1,WK5	A	7	0962	A N66 053		34
299	2	88		A	&1,WK51	A	7	0969	A N66 048		34
300	2	89		CS	332	A	4	0976	/ 332		34
301	2	90		CS		A	1	0980	/		34
302	2	91		MESSG	@START OF FORTRAN COMPILATION@,28,1,J	A				MACRO	
303				CC	1	A	2	0981	F 1	GEN	35
304				CS	332	A	4	0983	/ 332	GEN	35
305				CS		A	1	0987	/	GEN	35
306				MCW	@START OF FORTRAN COMPILATION@,28&200	A	7	0988	M N94 228	GEN	35
307				W		A	1	0995	2	GEN	35
308				CC	J	A	2	0996	F J	GEN	35
309	2	92		MCW	WK5,231	A	7	0998	M 053 231		35
310	2	93		MCW	@MACHINE SIZE SPECIFIED IS @	A	4	1005	M 020		36
311	2	94		W		A	1	1009	2		36

BLANK

DETERMINE TOP OF
MACHINE

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
312	2	95		CS	235	A	4	1010	/ 235		36
313	2	96		MCW	WK51,228	A	7	1014	M 048 228		36
314	2	97		MCW	@ACTUAL MACHINE SIZE IS @	A	4	1021	M 043		36
315	2	98		BCE	EXIT,PARAM&9,T	A	8	1025	B |96 695 T		36
316	2	99		W		A	1	1033	2		36
317	3	00		C	WK51#5,WK5#5	A	7	1034	C 048 053		37
318	3	01		BH	MSERR	A	5	1041	B |77 U		37
319	3	02		C	WK5,@03900@	A	7	1046	C 053 058		37
320	3	03		BL	EXIT	A	5	1053	B |96 T		37
321	3	04		MESSG	@MACHINE SIZE ERROR@,18,J	A				MACRO	
322				CC	J	A	2	1058	F J	GEN	37
323				CS	332	A	4	1060	/ 332	GEN	37
324				CS		A	1	1064	/	GEN	37
325				MCW	@MACHINE SIZE ERROR@,18&200	A	7	1065	M 076 218	GEN	38
326				W		A	1	1072	2	GEN	38
327	3	05		B	L2PRM	A	4	1073	B |89		38
328	3	06	MSERR	MCW	@SPECIFIED IS GREATER THAN ACTUAL MACHINE SIZE. @,267	A	7	1077	M P22 267		38
329	3	07		MCW	@ERROR - MACHINE SIZE @	A	4	1084	M P43		38
330	3	08		W		A	1	1088	2		38
331	3	09	L2PRM	MCW	LARRY,PARAM&2	A	7	1089	M N57 688		38
332	3	10	EXIT	MCW	PARAM&2,CLR&3	A	7	1096	M 688 /06		39
333	3	11	CLR	CS	0	A	4	1103	/ 000		39
334	3	12		SBR	CLR&3	A	4	1107	H /06		39
335	3	13		C	CLR&3,&SYSGM	A	7	1111	C /06 P46		39
336	3	14		BU	CLR	A	5	1118	B /03 /		39
337	3	15		R		A	1	1123	1		39
338	3	16		MZ	*-006,WORK&76	A	7	1124	Y /24 N01		39
339	3	17		MZ	*-006,ABIT&007	A	7	1131	Y /31 X07		40
340	3	18		MZ	*-6,ABIT2&7	A	7	1138	Y /38 Z80		40
341	3	19		MZ	*-6,CHAR-1	A	7	1145	Y /45 L87		40
342	3	20		MCW	NUMBER,WORK&003	A	7	1152	M N33 M28		40
343	3	21		MCW	PARAM&002,DUMMY&003	A	7	1159	M 688 /69		40
344	3	22	DUMMY	CW	0000	A	4	1166	) 000		40
345	3	23		SBR	STORE&006	A	4	1170	H T70		41
346	3	24	MOVE	BW	MVIPT,ENDSW	A	8	1174	V S11 Q28 1		41
347	3	25		BCE	SCANR,001,: 5-8	A	8	1182	B !70 001 :		41
348	3	26	PRMSG	MESSG	@MESSAGE 1-SYSTEM DOES NOT FOLLOW END CARD@,70,1,1	A				MACRO	
349			PRMSG	CC	1	A	2	1190	F 1	GEN	41
350				CS	332	A	4	1192	/ 332	GEN	41
351				CS		A	1	1196	/	GEN	41
352				MCW	@MESSAGE 1-SYSTEM DOES NOT FOLLOW END CARD@,70&200	A	7	1197	M P87 270	GEN	41
353				W		A	1	1204	2	GEN	42
354				CC	1	A	2	1205	F 1	GEN	42
355	3	27		H	*-3	A	4	1207	. S07		42
356	3	28	MVIPT	MCW	0072,WORK&075	A	7	1211	M 072 N00		42
357	3	29		MCW		A	1	1218	M		42
358	3	30		MCW		A	1	1219	M		42
359	3	31		BCE	SCANR,WORK&004,: 5-8	A	8	1220	B !70 M29 :		42
360	3	32	TOVL	BIN	PRTHD, CARRIAGE OVERFLOW TEST - INITIALIZED	A	5	1228	B K67		43
361	3	33	M2PRT	CS	300	A	4	1233	/ 300		43

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
362	3	34		CS		A	1	1237	/		43
363	3	35		MCW	0072,0283	A	7	1238	M 072 283		43
364	3	36		MCW	006,215	A	7	1245	M 006 215		43
365	3	37		BCE	CMNT,WORK&4,C	A	8	1252	B L58 M29 C		43
366	3	38	FSTNU	B	NEW	A	4	1260	B V46		43
367	3	39		BCE	NEW,WORK&009,0	A	8	1264	B V46 M34 0		44
368	3	40		BCE	NEW,WORK&009,	A	8	1272	B V46 M34		44
369	3	41		A	&1,CTUCD	A	7	1280	A N66 Q24		44
370	3	42		BCE	*&8,CTUCD-1,0	A	8	1287	B T02 Q23 0		44
371	3	43		MCW	@CONTINUE CD ERR@,300	A	7	1295	M Q02 300		44
372	3	44		W		A	1	1302	2		44
373	3	45		MCW	INILZ1,SEL&003	A	7	1303	M N06 T13		45
374	3	46	SEL	MCW	0000,FIXED	A	7	1310	M 000 Q31		45
375	3	47		SW	SEL&001	A	4	1317	, T11		45
376	3	48		A	ONE,SEL&003	A	7	1321	A N10 T13		45
377	3	49		CW	SEL&001	A	4	1328	) T11		45
378	3	50	SW1	NOP	CKLHC	A	4	1332	N Z73		45
379	3	51		BCE	SEL,FIXED,	A	8	1336	B T10 Q31		46
380	3	52		MCW	FIXED,*&8	A	7	1344	M Q31 T58		46
381	3	53		BCE	ABIT,CHAR,0	A	8	1351	B X00 L88 0		46
382	3	54		CHAIN	5	A				MACRO	
383				BCE		A	1	1359	B	GEN	46
384				BCE		A	1	1360	B	GEN	46
385				BCE		A	1	1361	B	GEN	46
386				BCE		A	1	1362	B	GEN	46
387				BCE		A	1	1363	B	GEN	47
388	3	55	STORE	MCW	FIXED,0000	A	7	1364	M Q31 000		47
389	3	56		SBR	STORE&006	A	4	1371	H T70		47
390	3	57	INCTO	A	&1,TOTAL#5	A	7	1375	A N66 Q07		47
391	3	58		C	STORE&6,&LDRND	A	7	1382	C T70 Q10		47
392	3	59		BE	QUIT	A	5	1389	B K33 S		47
393	3	60	HSW	BCE	HOLLR,FIXED,H	A	8	1394	B X51 Q31 H		47
394	3	61	HSW2	NOP	@B@,HSW	A	7	1402	N Q11 T94		48
395	3	62	CMPAR	C	SEL&003,INILZ1	A	7	1409	C T13 N06		48
396	3	63	SWTCH2	BIN	SEL,/	A	5	1416	B T10 /		48
397	3	64		SW	STORE&004	A	4	1421	, T68		48
398	3	65	JUMP	MCW	STORE&006,XL2	A	7	1425	M T70 094		48
399	3	66		CW	STORE&004	A	4	1432	) T68		48
400	3	67		MCW	N,JUMP	A	7	1436	M N28 U25		49
401	3	68		MCW	N,SWTCH2	A	7	1443	M N28 U16		49
402	3	69		A	TEN,COUNT	A	7	1450	A N36 N03		49
403	3	70		BCE	TSTND,COUNT-1,5	A	8	1457	B W69 N02 5		49
404	3	71		SW	ENDSW	A	4	1465	, Q28		49
405	3	72		BWZ	SEL,COUNT-001,2	A	8	1469	V T10 N02 2		50
406	3	73		MCW	B,SWTCH2	A	7	1477	M N11 U16		50
407	3	74	REMOVE	MCW	0&X2,OUT	A	7	1484	M 010 N20		50
408	3	75		C	FORMAT,OUT	A	7	1491	C N27 N20		50
409	3	76		BU	SEL	A	5	1498	B T10 /		50
410	3	77		MCW	@B@,HSW	A	7	1503	M Q11 T94		51
411	3	78		MCW	0&X3,WORK6#6	A	7	1510	M 0?0 Q17		51

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
412	3	79		MCW	@F@,WORK6-3	A	7	1517	M Q18 Q14		51
413	3	80		MCW	WORK6,0&X3	A	7	1524	M Q17 0?0		51
414	3	81		B	SEL	A	4	1531	B T10		51
415	3	82	SLASH	MCW	@@@,FIXED	A	7	1535	M Q19 Q31		51
416	3	83		B	STORE	A	4	1542	B T64		52
417	3	84	NEW	MCW	@N@,FSTNU	A	7	1546	M N49 S60		52
418	3	85		A	&1,STMNO#3	A	7	1553	A N66 Q22		52
419	3	86		MCW	@N@,HSW	A	7	1560	M N49 T94		52
420	3	87		MCW	@N@,HSW2	A	7	1567	M N49 U02		52
421	3	88		MCW	5,211	A	7	1574	M 005 211		52
422	3	89		S	CTUCD#2	A	4	1581	S Q24		53
423	3	09		MCW	@N@,SW1	A	7	1585	M N49 T32		53
424	3	91		MCS	STMNO,203	A	7	1592	Z Q22 203		53
425	3	92		W		A	1	1599	2		53
426	3	93		SW	STORE&004	A	4	1600	, T68		53
427	3	94		MCW	STORE&006,LOADGM&006	A	7	1604	M T70 W28		53
428	3	95		CW	STORE&4	A	4	1611	) T68		53
429	3	96		MCW	M,JUMP	A	7	1615	M N37 U25		54
430	3	97	LOADGM	LCA	GM,0000	A	7	1622	L N29 000		54
431	3	98		SBR	XL3	A	4	1629	H 099		54
432	3	99		SBR	STORE&006	A	4	1633	H T70		54
433	4	00		MCW	MARK,WORK&009	A	7	1637	M N34 M34		54
434	4	01		MCW	B,SWTCH2	A	7	1644	M N11 U16		54
435	4	02		MCW	TWO,COUNT	A	7	1651	M N13 N03		55
436	4	03		MCW	INILZ2,SEL&003	A	7	1658	M N09 T13		55
437	4	04		B	SEL	A	4	1665	B T10		55
438	4	05	TSTND	C	0&X2,@DNE@	A	7	1669	C 0!0 Q27		55
439	4	06		BU	SEL	A	5	1676	B T10 /		55
440	4	07		CW	ENDSW#1	A	4	1681	) Q28		55
441	4	08		B	SEL	A	4	1685	B T10		55
442	4	09	ATSGN	MCW	@-@,FIXED	A	7	1689	M Q29 Q31		56
443	4	10		B	STORE	A	4	1696	B T64		56
444	4	11	ABIT	BCE	INPUT,FIXED,	A	8	1700	B L73 Q31		56
445	4	12		BCE	INPUT,FIXED,|	A	8	1708	B L73 Q31 |		56
446	4	13		BCE	SLASH,FIXED,/	A	8	1716	B V35 Q31 /		56
447	4	14		BCE	ATSGN,FIXED,@	A	8	1724	B W89 Q31 @		57
448	4	15		MCW	@*@,300	A	7	1732	M Q30 300		57
449	4	16		MCW	KPROC	A	4	1739	M N48		57
450	4	17		MCW	FIXED#1	A	4	1743	M Q31		57
451	4	18		B	STORE	A	4	1747	B T64		57
452	4	19	HOLLR	MCW	STORE&6,XL1	A	7	1751	M T70 089		57
453	4	20		MCW	@N@,HSW	A	7	1758	M N49 T94		58
454	4	21		MCW	@N@,HSW2	A	7	1765	M N49 U02		58
455	4	22		MCW	@B@,SW1	A	7	1772	M Q11 T32		58
456	4	23		MCW	4&X1,WORK3#3	A	7	1779	M 0|4 Q34		58
457	4	24		BCE	*&9,WORK3-1,@	A	8	1786	B Y02 Q33 @		58
458	4	25		BWZ	MYB2,WORK3-1,2	A	8	1794	V Y17 Q33 2		59
459	4	26		MCW	WORK3-2,WORK3	A	7	1802	M Q32 Q34		59
460	4	27		MCW	@00@	A	4	1809	M Q36		59
461	4	28		B	CMPAR	A	4	1813	B U09		59

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
462	4	29	MYB2	BCE	*&9,WORK3,@	A	8	1817	B Y33 Q34 @		59
463	4	30		BWZ	ISTRI,WORK3,2	A	8	1825	V Y51 Q34 2		59
464	4	31		MCW	WORK3-2,WORK3	A	7	1833	M Q32 Q34		60
465	4	32		MCW	@0@,WORK3-2	A	7	1840	M Q37 Q32		60
466	4	33		B	CMPAR	A	4	1847	B U09		60
467	4	34	ISTRI	MCW	WORK3,SAV1#1	A	7	1851	M Q34 Q38		60
468	4	35		MCW	WORK3-2,WORK3	A	7	1858	M Q32 Q34		60
469	4	36		MCW	SAV1,WORK3-2	A	7	1865	M Q38 Q32		60
470	4	37		B	CMPAR	A	4	1872	B U09		61
471	4	38	UNPAK	SBR	PKXT&3	A	4	1876	H Z72		61
472	4	39		UNPAK	DUM3,DUM5	A				MACRO	
473				S	)0M005#2	A	4	1880	S Q40	GEN	61
474				S	)0L005#2	A	4	1884	S Q42	GEN	61
475				MZ	DUM3,)0M005-1	A	7	1888	Y N60 Q39	GEN	61
476				MZ	DUM3-2,)0L005-1	A	7	1895	Y N58 Q41	GEN	61
477			)0J005	BWZ	)0K005,)0L005-1, 2	A	8	1902	V Z21 Q41 2	GEN	61
478				A	@A0@,)0L005	A	7	1910	A Q44 Q42	GEN	62
479				B	)0J005	A	4	1917	B Z02	GEN	62
480			)0K005	BWZ	)0P005,)0M005-1, 2	A	8	1921	V Z40 Q39 2	GEN	62
481				A	@?4@,)0M005	A	7	1929	A Q46 Q40	GEN	62
482				B	)0K005	A	4	1936	B Z21	GEN	62
483			)0P005	A	)0L005-1,)0M005	A	7	1940	A Q41 Q40	GEN	62
484				MCW	DUM3,DUM5	A	7	1947	M N60 N65	GEN	63
485				MCW	)0M005	A	4	1954	M Q40	GEN	63
486				ZA	DUM5	A	4	1958	? N65	GEN	63
487				MZ	*-4, DUM5	A	7	1962	Y Z64 N65	GEN	63
488	4	40	PKXT	B	000	A	4	1969	B 000		63
489	4	41	ABIT2	EQU	*&1	A		1973			
490	4	42	CKLHC	BCE	INPUT,FIXED,	A	8	1973	B L73 Q31		63
491	4	43		S	&1,WORK3	A	7	1981	S N66 Q34		64
492	4	44		C	WORK3,&000	A	7	1988	C Q34 Q49		64
493	4	45		BU	STORE	A	5	1995	B T64 /		64
494	4	46		MCW	@M@,HSW2	A	7	2000	M Q50 U02		64
495	4	47		MCW	N,SW1	A	7	2007	M N28 T32		64
496	4	48		MCW	SEL&3,XL1	A	7	2014	M T13 089		65
497	4	49		C	0&X1,@,@	A	7	2021	C 0|0 Q51		65
498	4	50		BE	STORE	A	5	2028	B T64 S		65
499	4	51		MCW	STORE&6,*&7	A	7	2033	M T70 !46		65
500	4	52		MCW	0,0	A	7	2040	M 000 000		65
501	4	53		MCW	@,@	A	4	2047	M Q51		65
502	4	54		SBR	STORE&6	A	4	2051	H T70		66
503	4	55		A	&1,TOTAL	A	7	2055	A N66 Q07		66
504	4	46		B	INCTO	A	4	2062	B T75		66
505	4	57		B	STORE	A	4	2066	B T64		66
506	4	58	SCANR	MCW	STORE&6,XL1	A	7	2070	M T70 089		66
507	4	59		LCA	GM,0&X1	A	7	2077	L N29 0|0		66
508	4	60		SBR	XL1	A	4	2084	H 089		66
509	4	61		CC	1	A	2	2088	F 1		67
510	4	62		CS	332	A	4	2090	/ 332		67
511	4	63		CS		A	1	2094	/		67

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
512	4	64		MCS	TOTAL,205	A	7	2095	Z Q07 205		67
513	4	65		MCW	@INPUT CHARACTERS@,222	A	7	2102	M Q67 222		67
514	4	66		W		A	1	2109	2		67
515	4	67		CC	J	A	2	2110	F J		67
516	4	68		MCW	STMNO,INTSTZ	A	7	2112	M Q22 183		68
517	4	69		LCA	@ }POTS:R000@,0&X1	A	7	2119	L Q78 0|0		68
518	4	70		SBR	XL1	A	4	2126	H 089		68
519	4	71		SW	2&X1	A	4	2130	, 0|2		68
520	4	72		A	&1,INTSTZ	A	7	2134	A N66 183		68
521	4	73		BCE	*&5,LDRND,	A	8	2141	B J53 ?00		68
522	4	74		B	QUIT	A	4	2149	B K33		69
523	4	75		SBR	TCLEAR,SYSGM	A	7	2153	H 710 R99		69
524	4	76		SBR	BCLEAR,XBEGIN	A	7	2160	H 833 838		69
525	4	77		BSS	333,C	A	5	2167	B 333 C		69
526	4	78		LCA	@SCANNER@,110	A	7	2172	L Q85 110		69
527	4	79		CS	080	A	4	2179	/ 080		69
528	4	80		SW	1,40	A	7	2183	, 001 040		70
529	4	81		SW	47,54	A	7	2190	, 047 054		70
530	4	82		SW	61,68	A	7	2197	, 061 068		70
531	4	83		SW	72	A	4	2204	, 072		70
532	4	84		BCE	MONTER,MONTOR,N	A	8	2208	B 700 769 N		70
533	4	85		R		A	1	2216	1		70
534	4	86		C	7,@SCANNER@	A	7	2217	C 007 Q92		71
535	4	87		BE	MONTER	A	5	2224	B 700 S		71
536	4	88		B	PRMSG	A	4	2229	B /90		71
537	4	89	QUIT	FQUIT		A				MACRO	
538			QUIT	CS	332	A	4	2233	/ 332	GEN	71
539				CS		A	1	2237	/	GEN	71
540				CC	1	A	2	2238	F 1	GEN	71
541				MCW	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@,270	A	7	2240	M R28 270	GEN	71
542				W		A	1	2247	2	GEN	72
543				CC	1	A	2	2248	F 1	GEN	72
544				BCE	*&6,MONTOR,1	A	8	2250	B K63 769 1	GEN	72
545				RWD	1	A	5	2258	U %U1 R	GEN	72
546				H	*-3	A	4	2263	. K63	GEN	72
547	4	90	PRTHD	CC	1	A	2	2267	F 1		72
548	4	91		MCW	@@@,TOVL&4	A	7	2269	M Q19 S32		72
549	4	92		CS	299	A	4	2276	/ 299		73
550	4	93		A	ONE,PGNO#003	A	7	2280	A N10 R31		73
551	4	94		MCS	PGNO,299	A	7	2287	Z R31 299		73
552	4	95		MCW	@ PAGE @,295	A	7	2294	M R39 295		73
553	4	96		MCW	080	A	4	2301	M 080		73
554	4	97		W		A	1	2305	2		73
555	4	98		CS	299	A	4	2306	/ 299		73
556	4	99		MCW	KFSM,234	A	7	2310	M M23 234		74
557	5	00		W		A	1	2317	2		74
558	5	01		CC	J	A	2	2318	F J		74
559	5	02		B	M2PRT	A	4	2320	B S33		74
560	5	03	NOPRM	MESSG	@MESSAGE 3 - NO PARAMETER CARD@,70,1,1	A				MACRO	
561			NOPRM	CC	1	A	2	2324	F 1	GEN	74

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
562				CS	332	A	4	2326	/ 332	GEN	74
563				CS		A	1	2330	/	GEN	74
564				MCW	@MESSAGE 3 - NO PARAMETER CARD@,70&200	A	7	2331	M R68 270	GEN	75
565				W		A	1	2338	2	GEN	75
566				CC	1	A	2	2339	F 1	GEN	75
567	5	04		BCE	*&6,MONTOR,1	A	8	2341	B L54 769 1		75
568	5	05		RWD	1	A	5	2349	U %U1 R		75
569	5	06		H	*-3	A	4	2354	. L54		75
570	5	07	CMNT	MCW	BLNK3#3,203	A	7	2358	M R71 203		75
571	5	08		MCW	005,211	A	7	2365	M 005 211		76
572	5	09		W		A	1	2372	2		76
573	5	10	INPUT	BLC	SCANR	A	5	2373	B !70 A		76
574	5	11		R		A	1	2378	1		76
575	5	12		B	MOVE	A	4	2379	B /74		76
576	5	13	CHAR	DCW	@\$/| @ LAST TWO A-BIT,BLANK	A	6	2388			76
577	5	14	KFSM	DCW	@ SEQ STMT FORTRAN STATEMENT@	A	35	2423			77
578	5	15		DCW	@ @	A	1	2424			77
579	5	16	WORK	DS	01	A		2425			
580	5	17		DS	76	A		2501			
581	5	18	COUNT	DCW	#2	A	2	2503			78
582	5	19	INILZ1	DSA	&WORK&010	A	3	2506	M35		78
583	5	20	INILZ2	DSA	&WORK	A	3	2509	M25		78
584	5	21	ONE	DCW	@1@	A	1	2510			78
585	5	22	B	DC	@B@	A	1	2511			78
586	5	23	TWO	DC	@20@	A	2	2513			78
587	5	24	OUT	DCW	@ @	A	7	2520			78
588	5	25	FORMAT	DCW	@%TAMROF@	A	7	2527			78
589	5	26	N	DC	@N@	A	1	2528			78
590	5	27	GM	DC	@}@	A	1	2529		GMARK	78
591	5	28	NUMBER	DCW	@000R@	A	4	2533			78
592	5	29	MARK	DCW	@:@	A	1	2534			79
593	5	30	TEN	DCW	@10@	A	2	2536			79
594	5	31	M	DC	@M@	A	1	2537			79
595	5	32	KPROC	DCW	@ PROCESSED @	A	11	2548			79
596	5	33		LTORG	*	A			2549		
				DCW	@N@	A	1	2549		LIT	79
				DCW	@PARAM@	A	5	2554		LIT	79
			LARRYA	DCW	#03	A	3	2557		AREA	79
			DUM3 A	DCW	#03	A	3	2560		AREA	79
			DUM5 A	DCW	#05	A	5	2565		AREA	80
				DCW	&1	A	1	2566		LIT	80
				DCW	@START OF FORTRAN COMPILATION@	A	28	2594		LIT	80
				DCW	@MACHINE SIZE SPECIFIED IS @	A	26	2620		LIT	81
				DCW	@ACTUAL MACHINE SIZE IS @	A	23	2643		LIT	82
			WK51 A	DCW	#05	A	5	2648		AREA	82
			WK5 A	DCW	#05	A	5	2653		AREA	82
				DCW	@03900@	A	5	2658		LIT	82
				DCW	@MACHINE SIZE ERROR@	A	18	2676		LIT	83
				DCW	@SPECIFIED IS GREATER THAN ACTUAL MACHINE SIZE.@	A	46	2722		LIT	85
				DCW	@ERROR - MACHINE SIZE @	A	21	2743		LIT	85

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
				DCW	&SYSGMA	A	3	2746	R99	ADCON	85
				DCW	@MESSAGE 1-SYSTEM DOES NOT FOLLOW END CARD@	A	41	2787		LIT	87
				DCW	@CONTINUE CD ERR@	A	15	2802		LIT	87
			TOTALA	DCW	#05	A	5	2807		AREA	87
				DCW	&LDRNDA	A	3	2810	?00	ADCON	87
				DCW	@B@	A	1	2811		LIT	87
			WORK6A	DCW	#06	A	6	2817		AREA	88
				DCW	@F@	A	1	2818		LIT	88
				DCW	@@@	A	1	2819		LIT	88
			STMNOA	DCW	#03	A	3	2822		AREA	88
			CTUCDA	DCW	#02	A	2	2824		AREA	88
				DCW	@DNE@	A	3	2827		LIT	88
			ENDSWA	DCW	#01	A	1	2828		AREA	88
				DCW	@-@	A	1	2829		LIT	89
				DCW	@*@	A	1	2830		LIT	89
			FIXEDA	DCW	#01	A	1	2831		AREA	89
			WORK3A	DCW	#03	A	3	2834		AREA	89
				DCW	@00@	A	2	2836		LIT	89
				DCW	@0@	A	1	2837		LIT	89
			SAV1 A	DCW	#01	A	1	2838		AREA	89
			)0M005	DCW	#02	A	2	2840		AREA	90
			)0L005	DCW	#02	A	2	2842		AREA	90
				DCW	@A0@	A	2	2844		LIT	90
				DCW	@?4@	A	2	2846		LIT	90
				DCW	&000	A	3	2849		LIT	90
				DCW	@M@	A	1	2850		LIT	90
				DCW	@,@	A	1	2851		LIT	90
				DCW	@INPUT CHARACTERS@	A	16	2867		LIT	91
				DCW	@ }POTS:R000@	A	11	2878		LIT	91
				DCW	@SCANNER@	A	7	2885		LIT	91
				DCW	@SCANNER@	A	7	2892		LIT	92
				DCW	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@	A	36	2928		LIT	93
			PGNO A	DCW	#03	A	3	2931		AREA	93
				DCW	@ PAGE @	A	8	2939		LIT	94
				DCW	@MESSAGE 3 - NO PARAMETER CARD@	A	29	2968		LIT	94
			BLNK3A	DCW	#03	A	3	2971		AREA	95
597	5	34		ORG	*&X00	A			3000		
598	5	35		ORG	*-1	A			2999		
599	5	36	SYSGM	DCW	@}@	A	1	2999		GMARK	96
600	5	37	LDRND	EQU	*&1	A		3000			
601	5	38		XFR	START	A			B 838		97

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
602	5	39		JOB	1401 FORTRAN SCANNER PHASE	A					
603	5	40	110	DCW	@:@	A	1	0110			100
604	5	41		FBEGN	SCANNER,X1,R,,,,B	A				MACRO	
605				SFX	B	B				GEN	
606			110	DCW	@SCANNER@	B	7	0110		GEN	101
607			X1	EQU	089	B		0089		GEN	
608			089	DCW	000	B	3	0089		GEN	102
609			091	DC	00	B	2	0091		GEN	102
610	5	42		ORG	XBEGIN	B			0838		
611	5	43	START	MCW	PARAM&2,DUMMY&6	B	7	0838	M 688 985		103
612	5	44		SW	PARAM&3,PARAM&5	B	7	0845	, 689 691		103
613	5	45		BCE	*&5,PARAM&4,	B	8	0852	B 864 690		103
614	5	46		B	*&8	B	4	0860	B 871		103
615	5	47		MCW	@05@,PARAM&4	B	7	0864	M M67 690		103
616	5	48		BCE	*&5,PARAM&6,	B	8	0871	B 883 692		104
617	5	49		B	*&8	B	4	0879	B 890		104
618	5	50		MCW	@08@,PARAM&6	B	7	0883	M M69 692		104
619	5	51		C	PARAM&4,@01@	B	7	0890	C 690 M71		104
620	5	52		BH	RDXER	B	5	0897	B U69 U		104
621	5	53		C	PARAM&4,@20@	B	7	0902	C 690 M73		104
622	5	54		BL	RDXER	B	5	0909	B U69 T		105
623	5	55	CKCMT	C	PARAM&6,@20@	B	7	0914	C 692 M73		105
624	5	56		BL	MNTER	B	5	0921	B U95 T		105
625	5	57		C	PARAM&6,@02@	B	7	0926	C 692 M75		105
626	5	58		BH	MNTER	B	5	0933	B U95 U		105
627	5	59	PRDX	CS	332	B	4	0938	/ 332		105
628	5	60		CS		B	1	0942	/		105
629	5	61		MCW	@MODULUS IS@,210	B	7	0943	M M85 210		106
630	5	62		MCS	PARAM&4,213	B	7	0950	Z 690 213		106
631	5	63		W		B	1	0957	2		106
632	5	64		CS	299	B	4	0958	/ 299		106
633	5	65		MCW	@MANTISSA IS@,211	B	7	0962	M M96 211		106
634	5	66		MCS	PARAM&6,214	B	7	0969	Z 692 214		106
635	5	67		W		B	1	0976	2		106
636	5	68		CC	J	B	2	0977	F J		107
637	5	69	DUMMY	BCE	DUMMY,0000,0	B	8	0979	B 979 000 0		107
638	5	70		BCE		B	1	0987	B		107
639	5	71		SBR	MARTY&6	B	4	0988	H T24		107
640	5	72		SBR	REMV&003	B	4	0992	H 999		107
641	5	73	REMV	LCA	0000,WORK	B	7	0996	L 000 M22		107
642	5	74		SAR	REMV&003	B	4	1003	Q 999		107
643	5	75		MCW	NMBR,WORK	B	7	1007	M M25 M22		108
644	5	76		A	ONE,NMBR	B	7	1014	A M26 M25		108
645	5	77		BCE	REPLCE,WORK-3,F	B	8	1021	B T14 M19 F		108
646	5	78		SBR	TWLV58&6,WORK-4	B	7	1029	H |49 M18		108
647	5	79		SBR	FIRST,WORK-5	B	7	1036	H M29 M17		108
648	5	80	TWLV58	BCE	ARITH1,WORK-4,:	B	8	1043	B |75 M18 :		109
649	5	81		SBR	TWLV58&006	B	4	1051	H |49		109
650	5	82		SBR	LENNY&006	B	4	1055	H |65		109
651	5	83	LENNY	BCE	LENNY,0000,	B	8	1059	B |59 000		109

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
652	5	84		SBR	FIRST	B	4	1067	H M29		109
653	5	85		B	TWLV58	B	4	1071	B |43		109
654	5	86	ARITH1	MCW	FIRST,TEST1&006	B	7	1075	M M29 |95		109
655	5	87		MCW	FIRST,TEST2&006	B	7	1082	M M29 /08		110
656	5	88	TEST1	BCE	ENCODE,0000,}	B	8	1089	B /73 000 }	GMARK	110
657	5	89		BCE		B	1	1097	B		110
658	5	90		SBR	TEST1&6	B	4	1098	H |95		110
659	5	91	TEST2	BCE	ARITH2,0000,#	B	8	1102	B /19 000 #		110
660	5	92		BCE		B	1	1110	B		110
661	5	93		SBR	TEST2&6	B	4	1111	H /08		110
662	5	94		B	TEST1	B	4	1115	B |89		111
663	5	95	ARITH2	SW	TEST1&004	B	4	1119	, |93		111
664	5	96		MCW	TEST1&006,SEL&003	B	7	1123	M |95 /37		111
665	5	97		CW	TEST1&004	B	4	1130	) |93		111
666	5	98	SEL	MCW	0000,FIXED	B	7	1134	M 000 M30		111
667	5	99		SAR	SEL&003	B	4	1141	Q /37		111
668	6	00		BCE	CKFUN, FIXED,%	B	8	1145	B T49 M30 %		111
669	6	01		BCE	CKFUN, FIXED,}	B	8	1153	B T49 M30 }	GMARK	112
670	6	02		BCE	ENCODE,FIXED,,	B	8	1161	B /73 M30 ,		112
671	6	03		B	SEL	B	4	1169	B /34		112
672	6	04	ENCODE	MCW	FIRST,GRAB10&003	B	7	1173	M M29 /83		112
673	6	05	GRAB10	MCW	0000,FRONT	B	7	1180	M 000 M40		112
674	6	06		SW	FRONT	B	4	1187	, M40		112
675	6	07		SW		B	1	1191	,		112
676	6	08		MCW	FRONT,SCFB&007	B	7	1192	M M40 S06		113
677	6	09	SCFB	BCE	STORE1,CODE,	B	8	1199	B S37 M49		113
678	6	10		CHAIN	3	B				MACRO	
679				BCE		B	1	1207	B	GEN	113
680				BCE		B	1	1208	B	GEN	113
681				BCE		B	1	1209	B	GEN	113
682	6	11		MCW	FRONT-001,AUNIQ&007	B	7	1210	M M39 S24		113
683	6	12	AUNIQ	BCE	STORE2,CODE-004,	B	8	1217	B S71 M45		113
684	6	13		CHAIN	4	B				MACRO	
685				BCE		B	1	1225	B	GEN	114
686				BCE		B	1	1226	B	GEN	114
687				BCE		B	1	1227	B	GEN	114
688				BCE		B	1	1228	B	GEN	114
689	6	14		SW	WORK-003	B	4	1229	, M19		114
690	6	15		B	EASY	B	4	1233	B U22		114
691	6	16	STORE1	C	FRONT-2,@ESN@	B	7	1237	C M38 M99		114
692	6	17		BE	SENSE	B	5	1244	B S60 S		115
693	6	18		MCW	FRONT,WORK-003	B	7	1249	M M40 M19		115
694	6	19		B	CLEAR	B	4	1256	B T09		115
695	6	20	SENSE	MCW	@J@,WORK-3	B	7	1260	M N00 M19		115
696	6	21		B	CLEAR	B	4	1267	B T09		115
697	6	22	STORE2	MCW	FRONT-001,WORK-003	B	7	1271	M M39 M19		115
698	6	23		BCE	*&5,AUNIQ&7,N	B	8	1278	B S90 S24 N		116
699	6	24		B	CLEAR	B	4	1286	B T09		116
700	6	25		C	FRONT-2,@ELIFD@	B	7	1290	C M38 N05		116
701	6	26		BE	CLEAR	B	5	1297	B T09 S		116

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
702	6	27		MCW	@/,@,WORK-3	B	7	1302	M N06 M19		116
703	6	28	CLEAR	CW	FRONT	B	4	1309	) M40		116
704	6	29		CW		B	1	1313	)		116
705	6	30	REPLCE	CW	WORK-003	B	4	1314	) M19		117
706	6	31	MARTY	LCA	WORK,0000	B	7	1318	L M22 000		117
707	6	32		SBR	MARTY&006	B	4	1325	H T24		117
708	6	33		SBR	END&006	B	4	1329	H T43		117
709	6	34		SBR	083	B	4	1333	H 083		117
710	6	35	END	BCE	RELOKT,0000,	B	8	1337	B W97 000		117
711	6	36		B	REMOV	B	4	1345	B 996		117
712	6	37	CKFUN	MCW	TEST2&6,X1	B	7	1349	M /08 089		118
713	6	38		BCE	MAYFN,1&X1,)	B	8	1356	B T69 0|1)		118
714	6	39		BCE		B	1	1364	B		118
715	6	40		B	REPLCE	B	4	1365	B T14		118
716	6	41	MAYFN	BCE	NDFND,2&X1,%	B	8	1369	B T85 0|2 %		118
717	6	42		SBR	X1	B	4	1377	H 089		118
718	6	43		B	MAYFN	B	4	1381	B T69		118
719	6	44	NDFND	BCE	PROBF,3&X1,F	B	8	1385	B T97 0|3 F		119
720	6	45		B	REPLCE	B	4	1393	B T14		119
721	6	46	PROBF	BCE	REPLCE,6&X1,: 5-8	B	8	1397	B T14 0|6 :		119
722	6	47		BCE		B	1	1405	B		119
723	6	48		BCE		B	1	1406	B		119
724	6	49		MCW	@R@,WORK-3	B	7	1407	M N07 M19		119
725	6	50		SW	FUNCSW	B	4	1414	, 195		119
726	6	51		B	REPLCE	B	4	1418	B T14		120
727	6	52	EASY	CW	FRONT	B	4	1422	) M40		120
728	6	53		CW		B	1	1426	)		120
729	6	54		C	FRONT,SNSE IF SENSE SWITCH	B	7	1427	C M40 M57		120
730	6	55		BIN	DO,/	B	5	1434	B V21 /		120
731	6	56		BCE	LIGHT,FRONT-8,L	B	8	1439	B U58 M32 L		120
732	6	57		MCW	CONST,WORK-003	B	7	1447	M M65 M19		120
733	6	58		B	REPLCE	B	4	1454	B T14		121
734	6	59	LIGHT	MCW	@K@,WORK-3	B	7	1458	M N08 M19		121
735	6	60		B	REPLCE	B	4	1465	B T14		121
736	6	61	RDXER	MESSG	@ERROR 42 - MODULUS@,18,,J	B				MACRO	
737			RDXER	CS	332	B	4	1469	/ 332	GEN	121
738				CS		B	1	1473	/	GEN	121
739				MCW	@ERROR 42 - MODULUS@,18&200	B	7	1474	M N26 218	GEN	121
740				W		B	1	1481	2	GEN	121
741				CC	J	B	2	1482	F J	GEN	122
742	6	62		MCW	@05@,PARAM&4	B	7	1484	M M67 690		122
743	6	63		B	CKCMT	B	4	1491	B 914		122
744	6	64	MNTER	MESSG	@ERROR 43 - MANTISSA@,19,,J	B				MACRO	
745			MNTER	CS	332	B	4	1495	/ 332	GEN	122
746				CS		B	1	1499	/	GEN	122
747				MCW	@ERROR 43 - MANTISSA@,19&200	B	7	1500	M N45 219	GEN	122
748				W		B	1	1507	2	GEN	122
749				CC	J	B	2	1508	F J	GEN	123
750	6	65		MCW	@08@,PARAM&6	B	7	1510	M M69 692		123
751	6	66		B	PRDX	B	4	1517	B 938		123

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
752	6	67	DO	BCE	PUT1,FRONT,D						
753	6	68		BCE	PUT2,FRONT-002,%	D FOR DO	B	8	1521	B W20 M40 D	123
754	6	69		BCE	PUT3,FRONT-004,%	3RD PAREN IF	B	8	1529	B W31 M38 %	123
755	6	70		BCE	PUT4,FRONT,G	5TH PAREN GO TO	B	8	1537	B W42 M36 %	123
756	6	71		BCE	PUT5,FRONT,P	G FOR GO TO	B	8	1545	B W53 M40 G	124
757	6	72		BWZ	PUT6,FRONT-004,2	P FO PRINT	B	8	1553	B W64 M40 P	124
758	6	73		BCE	PUT7,FRONT-005,D	5TH NUMERL READN	B	8	1561	V W75 M36 2	124
759	6	74		MCW	ONE,WORK-003	6TH D FOR REWIND	B	8	1569	B W86 M35 D	124
760	6	75		MN	FRONT-005,WORK-003		B	7	1577	M M26 M19	124
761	6	751		MN	FRONT-5,TNMBR&7		B	7	1584	D M35 M19	125
762	6	752	TNMBR	BCE	REPLCE,@6531@,0	V3M4	B	7	1591	D M35 W05	125
763	6	573		CHAIN	3	V3M4	B	8	1598	B T14 N49 0	125
764				BCE		V3M4	B			MACRO	
765				BCE			B	1	1606	GEN	125
766				BCE			B	1	1607	GEN	125
767	6	754		MN	@9@,WORK-3		B	1	1608	GEN	125
768	6	76		B	REPLCE	V3M4	B	7	1609	D N50 M19	125
769	6	77	PUT1	MCW	CONST-001,WORK-003		B	4	1616	B T14	126
770	6	78		B	REPLCE		B	7	1620	M M64 M19	126
771	6	79	PUT2	MCW	CONST-002,WORK-003		B	4	1627	B T14	126
772	6	80		B	REPLCE		B	7	1631	M M63 M19	126
773	6	81	PUT3	MCW	CONST-003,WORK-003		B	4	1638	B T14	126
774	6	82		B	REPLCE		B	7	1642	M M62 M19	126
775	6	83	PUT4	MCW	CONST-004,WORK-003		B	4	1649	B T14	126
776	6	84		B	REPLCE		B	7	1653	M M61 M19	127
777	6	85	PUT5	MCW	CONST-005,WORK-003		B	4	1660	B T14	127
778	6	86		B	REPLCE		B	7	1664	M M60 M19	127
779	6	87	PUT6	MCW	CONST-006,WORK-003		B	4	1671	B T14	127
780	6	88		B	REPLCE		B	7	1675	M M59 M19	127
781	6	89	PUT7	MCW	CONST-007,WORK-003		B	4	1682	B T14	127
782	6	90		B	REPLCE		B	7	1686	M M58 M19	128
783	6	91	RELOKT	FENDX	C,,,BEGINC,,CLRFCT,ORTER ONE		B	4	1693	B T14	128
784			RELOKT	BSS	333,C		B	5	1697	B 333 C	MACRO
785				SBR	INITXT&3,BEGINC		B	7	1702	H 796 |10	GEN
786				SBR	TCLEAR,CLRFCT		B	7	1709	H 710 N99	GEN
787				LCA	@SORTER ONE@,110		B	7	1716	L N60 110	GEN
788				B	MONTER		B	4	1723	B 700	GEN
789	6	92		DCW	@ @	BLANK	B	1	1727		129
790	6	93		DCW	@ @		B	1	1728		129
791	6	94		ORG	*&693		B			2422	
792	6	95	WORK	DS	01		B		2422		
793	6	96	NMBR	DCW	@001@		B	3	2425		130
794	6	97	ONE	DCW	@1@		B	1	2426		130
795	6	98	FIRST	DCW	#3		B	3	2429		130
796	6	99	FIXED	DCW	#1		B	1	2430		130
797	7	00	FRONT	DCW	#10		B	10	2440		130
798	7	01	CODE	DC	@QINUABFCS@		B	9	2449		130
799	7	02	SNSE	DCW	@ESNES%FI@		B	8	2457		130
800	7	03	CONST	DC	@ZLPGTEDW@		B	8	2465		131
801	7	04		LTORG	*		B			2466	

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
				DCW	@05@	B	2	2467		LIT	131
				DCW	@08@	B	2	2469		LIT	131
				DCW	@01@	B	2	2471		LIT	131
				DCW	@20@	B	2	2473		LIT	131
				DCW	@02@	B	2	2475		LIT	132
				DCW	@MODULUS IS@	B	10	2485		LIT	132
				DCW	@MANTISSA IS@	B	11	2496		LIT	132
				DCW	@ESN@	B	3	2499		LIT	132
				DCW	@J@	B	1	2500		LIT	132
				DCW	@ELIFD@	B	5	2505		LIT	132
				DCW	@/@	B	1	2506		LIT	132
				DCW	@R@	B	1	2507		LIT	133
				DCW	@K@	B	1	2508		LIT	133
				DCW	@ERROR 42 - MODULUS@	B	18	2526		LIT	133
				DCW	@ERROR 43 - MANTISSA@	B	19	2545		LIT	133
				DCW	@6531@	B	4	2549		LIT	134
				DCW	@9@	B	1	2550		LIT	134
				DCW	@SORTER ONE@	B	10	2560		LIT	134
802	7	05		ORG	*X00	B			2600		
803	7	06	CLRFCT	EQU	*	B		2599			
804	7	07		DCW	@}@	B	1	2600		GMARK	135
805	7	08		XFR	START	B			B 838		136

SYSTEM GROUP MARK

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
806	7	09		JOB	1401 FORTRAN SORTER PHASE ONE	B					
807	7	10		FBEGN	SORTER ONE,XL1,R,XL2,R,XL3,R,C,XXXX	B				MACRO	
808				SFX	C	C				GEN	
809			XXXX	EQU	0	C		0000		GEN	
810			110	DCW	@SORTER ONE@	C	10	0110		GEN	139
811			XL1	EQU	089	C		0089		GEN	
812			089	DCW	000	C	3	0089		GEN	140
813			091	DC	00	C	2	0091		GEN	140
814			XL2	EQU	094	C		0094		GEN	
815			094	DCW	000	C	3	0094		GEN	140
816			096	DC	00	C	2	0096		GEN	140
817			XL3	EQU	099	C		0099		GEN	
818			099	DCW	000	C	3	0099		GEN	140
819			100	DC	0	C	1	0100		GEN	140
820	7	11		ORG	XBEGIN	C			0838		
821	7	12	TABLE	DA	40X3,C	C		0838	0957		140
822	7	13		ORG	*X00	C			1000		
823	7	14		DS	6	C		1005			
824	7	15	ZONE	DCW	@2SKB@	C	4	1009			151
825	7	16	BEGIN	CS	CLRFACT	C	4	1010	/ N99		151
826	7	17		CHAIN	8	C				MACRO	
827				CS		C	1	1014	/	GEN	151
828				CS		C	1	1015	/	GEN	151
829				CS		C	1	1016	/	GEN	151
830				CS		C	1	1017	/	GEN	151
831				CS		C	1	1018	/	GEN	151
832				CS		C	1	1019	/	GEN	152
833				CS		C	1	1020	/	GEN	152
834				CS		C	1	1021	/	GEN	152
835	7	18	START	MCW	083,XL3	C	7	1022	M 083 099		152
836	7	19		MCM	2&X3	C	4	1029	P 0?2		152
837	7	20		MCW		C	1	1033	M		152
838	7	21		SBR	XL3	C	4	1034	H 099		152
839	7	22		MCW	0&X3,WORK3#3	C	7	1038	M 0?0 T52		153
840	7	23		ZA	WORK3,HOLD5#5	C	7	1045	? T52 T57		153
841	7	24		A	HOLD5	C	4	1052	A T57		153
842	7	25		A	WORK3,HOLD5	C	7	1056	A T52 T57		153
843	7	26		S	&2,HOLD5	C	7	1063	S T58 T57		153
844	7	27		MCW	HOLD5,HLD5A#5	C	7	1070	M T57 T63		153
845	7	28		MCW	@16000@,HOLD5	C	7	1077	M T68 T57		154
846	7	29		S	HLD5A,HOLD5	C	7	1084	S T63 T57		154
847	7	30		BAV	*&1	C	5	1091	B |96 Z		154
848	7	31	SUB	A	&96,HOLD5-3	C	7	1096	A T70 T54		154
849	7	32		BAV	SUB	C	5	1103	B |96 Z		154
850	7	33		MN	HOLD5-3,*&4	C	7	1108	D T54 /18		154
851	7	34		MZ	ZONE,HOLD5-2	C	7	1115	Y |09 T55		155
852	7	35		MCW	083,XL1	C	7	1122	M 083 089		155
853	7	36		MCW	XL1,NOP&3	C	7	1129	M 089 /53		155
854	7	37		MCW	HOLD5,XL2	C	7	1136	M T57 094		155
855	7	38		MZ	@J@,NOP&2	C	7	1143	Y T71 /52		155

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
856	7	39	NOP	NOP	XXXX	C	4	1150	N 000		155
857	7	40		SAR	XL2	C	4	1154	Q 094		156
858	7	41		UNPAK	XL2,HOLD5	C				MACRO	
859				S	)0M013#2	C	4	1158	S T73	GEN	156
860				S	)0L013#2	C	4	1162	S T75	GEN	156
861				MZ	XL2,)0M013-1	C	7	1166	Y 094 T72	GEN	156
862				MZ	XL2-2,)0L013-1	C	7	1173	Y 092 T74	GEN	156
863			)0J013	BWZ	)0K013,)0L013-1, 2	C	8	1180	V /99 T74 2	GEN	156
864				A	@A0@,)0L013	C	7	1188	A T77 T75	GEN	157
865				B	)0J013	C	4	1195	B /80	GEN	157
866			)0K013	BWZ	)0P013,)0M013-1, 2	C	8	1199	V S18 T72 2	GEN	157
867				A	@?4@,)0M013	C	7	1207	A T79 T73	GEN	157
868				B	)0K013	C	4	1214	B /99	GEN	157
869			)0P013	A	)0L013-1,)0M013	C	7	1218	A T74 T73	GEN	157
870				MCW	XL2,HOLD5	C	7	1225	M 094 T57	GEN	158
871				MCW	)0M013	C	4	1232	M T73	GEN	158
872				ZA	HOLD5	C	4	1236	? T57	GEN	158
873				MZ	*-4, HOLD5	C	7	1240	Y S42 T57	GEN	158
874	7	42		C	HOLD5,@02900@	C	7	1247	C T57 T84		158
875	7	43		BL	MOVE	C	5	1254	B S93 T		158
876	7	44		FQUIT		C				MACRO	
877				CS	332	C	4	1259	/ 332	GEN	158
878				CS		C	1	1263	/	GEN	159
879				CC	1	C	2	1264	F 1	GEN	159
880				MCW	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@,270	C	7	1266	M U20 270	GEN	159
881				W		C	1	1273	2	GEN	159
882				CC	1	C	2	1274	F 1	GEN	159
883				BCE	*&6,MONTOR,1	C	8	1276	B S89 769 1	GEN	159
884				RWD	1	C	5	1284	U %U1 R	GEN	159
885				H	*-3	C	4	1289	. S89	GEN	160
886	7	45	MOVE	MCW	XL2,083	C	7	1293	M 094 083		160
887	7	46		MCM	0&X1	C	4	1300	P 0|0		160
888	7	47		SAR	XL1	C	4	1304	Q 089		160
889	7	48		FENDX	C, , ,START,NUSTM,START,SYSMK,SORT 2	C				MACRO	
890				BSS	333,C	C	5	1308	B 333 C	GEN	160
891				SBR	INITAP&6,START	C	7	1313	H 786 |22	GEN	160
892				SBR	BCLEAR	C	4	1320	H 833	GEN	160
893				SBR	INITXT&3,NUSTM	C	7	1324	H 796 |22	GEN	161
894				SBR	TCLEAR,SYSMK	C	7	1331	H 710 U27	GEN	161
895				LCA	@SORT 2@,110	C	7	1338	L U26 110	GEN	161
896				B	MONTER	C	4	1345	B 700	GEN	161
897	7	49		DCW	0	C	1	1349			161
898	7	50		LTORG	*	C			1350		
			WORK3C	DCW	#03	C	3	1352		AREA	161
			HOLD5C	DCW	#05	C	5	1357		AREA	161
				DCW	&2	C	1	1358		LIT	162
			HLD5AC	DCW	#05	C	5	1363		AREA	162
				DCW	@16000@	C	5	1368		LIT	162
				DCW	&96	C	2	1370		LIT	162
				DCW	@J@	C	1	1371		LIT	162

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
			)0M013	DCW	#02	C	2	1373		AREA	162
			)0L013	DCW	#02	C	2	1375		AREA	162
				DCW	@A0@	C	2	1377		LIT	163
				DCW	@?4@	C	2	1379		LIT	163
				DCW	@02900@	C	5	1384		LIT	163
				DCW	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@	C	36	1420		LIT	164
				DCW	@SORT 2@	C	6	1426		LIT	165
899	7	51	SYSMK	DCW	@}@	C	1	1427		GMARK	165
900	7	52		XFR	BEGIN	C			B |10		166

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
901	7	53		JOB	1401 FORTRAN SORTER PHASE TWO	C					
902	7	54	110	DCW	@SORT 2@	C	6	0110			169
903	7	55		ORG	START	C			1022		
904	7	56	NUSTM	MCW	XL1,XL3	C	7	1022	M 089 099		170
905	7	57		SW	GM2	C	4	1029	, S19		170
906	7	58		MCM	0&X1	C	4	1033	P 0|0		170
907	7	59		MN		C	1	1037	D		170
908	7	60		MN		C	1	1038	D		170
909	7	61		SAR	XL1	C	4	1039	Q 089		170
910	7	62		LCA	0&X1, HOLD-3	C	7	1043	L 0|0 Z19		170
911	7	63		MCM	0&X1	C	4	1050	P 0|0		171
912	7	64		SAR	XL1	C	4	1054	Q 089		171
913	7	65		MCM	0&X3,0&X2	C	7	1058	P 0?0 0!0		171
914	7	66		SBR	XL2	C	4	1065	H 094		171
915	7	67		LCA	HOLD,1&X2	C	7	1069	L Z22 0!1		171
916	7	68		S	XL3&1	C	4	1076	S 100		171
917	7	69		MCW	0&X2,HOLD6#6	C	7	1080	M 0!0 !05		171
918	7	70		MN	HOLD6-5, XL3	C	7	1087	D !00 099		172
919	7	71		MCW	XL3,SAVE3	C	7	1094	M 099 !03		172
920	7	72		A	XL3	C	4	1101	A 099		172
921	7	73		A	SAVE3,XL3	C	7	1105	A !03 099		172
922	7	74		BWZ	CNTU,HOLD6-5, 2	C	8	1112	V /57 !00 2		172
923	7	75		A	&30,XL3	C	7	1120	A !07 099		173
924	7	76		BWZ	CNTU,HOLD6-5, S	C	8	1127	V /57 !00 S		173
925	7	77		A	&30,XL3	C	7	1135	A !07 099		173
926	7	78		BWZ	CNTU,HOLD6-5, K	C	8	1142	V /57 !00 K		173
927	7	79		A	&30,XL3	C	7	1150	A !07 099		173
928	7	80	CNTU	MCW	TABLE&2&X3,1&X2	C	7	1157	M 8D0 0!1		174
929	7	81		LCA	GM2,2&X2	C	7	1164	L S19 0!2		174
930	7	82		SBR	TABLE&2&X3	C	4	1171	H 8D0		174
931	7	83		MCM	2&X2	C	4	1175	P 0!2		174
932	7	84		SAR	XL2	C	4	1179	Q 094		174
933	7	85		C	XL2,PARAM&2	C	7	1183	C 094 688		174
934	7	86		BU	NUSTM	C	5	1190	B |22 /		174
935	7	87		FENDX	C,GM2,,,,,END-1,SORT 3	C				MACRO	
936				BSS	333,C	C	5	1195	B 333 C	GEN	175
937				SBR	TCLEAR,END-1	C	7	1200	H 710 Q99	GEN	175
938				LCA	@SORT 3@,110	C	7	1207	L !13 110	GEN	175
939				B	MONTER	C	4	1214	B 700	GEN	175
940	7	88		DCW	0	C	1	1218			175
941	7	89	GM2	DC	@}@	C	1	1219		GMARK	175
942	7	90		ORG	*&700	C			1920		
943	7	91	HOLD	DC	#3	C	3	1922			176
944	7	92		ORG	*&X00	C			2000		
945	7	93	EOTWO	EQU	*&1	C		2000			
946	7	94		LTORG	*	C			2000		
			HOLD6C	DCW	#06	C	6	2005		AREA	177
				DCW	&30	C	2	2007		LIT	177
				DCW	@SORT 3@	C	6	2013		LIT	177
947	7	95		DCW	@}@	C	1	2014		GMARK	177
					SYSTEM GROUP MARK						

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
948	7	96		XFR	NUSTM	C			B | 22		178

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
949	7	97		JOB	1401 FORTRAN SORTER PHASE 3	C					
950	7	98	110	DCW	@SORT 3@	C	6	0110			181
951	7	99	X1	EQU	089	C		0089			
952	8	00	X2	EQU	094	C		0094			
953	8	01		ORG	START	C			1022		
954	8	02	AGAIN	MCW	083,XL3	C	7	1022	M 083 099		182
955	8	03		SW	GM	C	4	1029	, Y06		182
956	8	04		SBR	XL1,END-1	C	7	1033	H 089 Q99		182
957	8	05		SW	END	C	4	1040	, R00		182
958	8	06		MN	0&X3	C	4	1044	D 0?0		182
959	8	07		LCA	GM	C	4	1048	L Y06		182
960	8	08		SBR	PICK&6	C	4	1052	H /10		182
961	8	09		SBR	TBEGIN#3,LIST	C	7	1056	H Y10 X99		183
962	8	10	NUTYP	MCW	TBEGIN,XL3	C	7	1063	M Y10 099		183
963	8	11		MCW	0&X3,XL3	C	7	1070	M 0?0 099		183
964	8	12		SAR	TBEGIN	C	4	1077	Q Y10		183
965	8	13		BCE	EOJ,XL3,X	C	8	1081	B W47 099 X		183
966	8	14		MCW	TABLE&2&X3,XL3	C	7	1089	M 8D0 099		184
967	8	15		BCE	NUTYP,XL3,	C	8	1096	B |63 099		184
968	8	16	PICK	MCW	0&X3,XXXX	C	7	1104	M 0?0 000		184
969	8	17		SAR	XL2	C	4	1111	Q 094		184
970	8	18		BCE	AOK1,1&X2,}	C	8	1115	B /27 0!1 }	GMARK	184
971	8	19		B	PACK	C	4	1123	B S95		184
972	8	20	AOK1	SBR	XL2,2&X2	C	7	1127	H 094 0!2		185
973	8	21	BACK5	MCM	0&X2	C	4	1134	P 0!0		185
974	8	22		SBR	SBR6&6	C	4	1138	H /67		185
975	8	23		MCM	0&X2,1&X1	C	7	1142	P 0!0 0|1		185
976	8	24		SBR	X1	C	4	1149	H 089		185
977	8	25		MN	0&X1	C	4	1153	D 0|0		185
978	8	26		SBR	X1	C	4	1157	H 089		185
979	8	27	SBR6	SBR	X2,0	C	7	1161	H 094 000		186
980	8	28		BCE	BACK5,0&X1,|	C	8	1168	B /34 0|0 |		186
981	8	29		SBR	X1,1&X1	C	7	1176	H 089 0|1		186
982	8	30		CW	PAKSW	C	4	1183	) Y07		186
983	8	31		MN	0&X1	C	4	1187	D 0|0		186
984	8	32		CHAIN	3	C				MACRO	
985				MN		C	1	1191	D	GEN	186
986				MN		C	1	1192	D	GEN	186
987				MN		C	1	1193	D	GEN	187
988	8	33		SAR	XL1	C	4	1194	Q 089		187
989	8	34		LCA	GM,0&X1	C	7	1198	L Y06 0|0		187
990	8	35		SBR	083	C	4	1205	H 083		187
991	8	36		SBR	XL1	C	4	1209	H 089		187
992	8	37	PMOV1	MCM	1&X1	C	4	1213	P 0|1		187
993	8	38		MN		C	1	1217	D		187
994	8	39		SAR	XL1	C	4	1218	Q 089		188
995	8	40		BCE	PMOV1,0&X1,|	C	8	1222	B S13 0|0 |		188
996	8	41		MN	0&X3	C	4	1230	D 0?0		188
997	8	42		CHAIN	5	C				MACRO	
998				MN		C	1	1234	D	GEN	188

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
999				MN		C	1	1235	D	GEN	188
1000				MN		C	1	1236	D	GEN	188
1001				MN		C	1	1237	D	GEN	188
1002				MN		C	1	1238	D	GEN	189
1003	8	43		SAR	XL3	C	4	1239	Q 099		189
1004	8	44		MN	0&X1	C	4	1243	D 0|0		189
1005	8	45		LCA	3&X3	C	4	1247	L 0?3		189
1006	8	46		MCW	@#0, 0&X3	C	7	1251	M Y11 0?0		189
1007	8	47	PMOV2	MCM	2&X3	C	4	1258	P 0?2		189
1008	8	48		MN		C	1	1262	D		189
1009	8	49		MN		C	1	1263	D		190
1010	8	50		SAR	XL3	C	4	1264	Q 099		190
1011	8	51		BCE	PMOV2, 1&X3, |	C	8	1268	B S58 0?1 |		190
1012	8	52		BCE	NUTYP, 0&X3,	C	8	1276	B |63 0?0		190
1013	8	53		MCW	0&X3, XL3	C	7	1284	M 0?0 099		190
1014	8	54		B	PICK	C	4	1291	B /04		190
1015	8	55	PACK	BW	CERR, PAKSW	C	8	1295	V W88 Y07 1		191
1016	8	56		SW	PAKSW	C	4	1303	, Y07		191
1017	8	57		MCW	PARAM&2, XL2	C	7	1307	M 688 094		191
1018	8	58		MN	0&X2	C	4	1314	D 0!0		191
1019	8	59		SAR	XL2	C	4	1318	Q 094		191
1020	8	60		MCW	XL2, XL3	C	7	1322	M 094 099		191
1021	8	61	LOOP1	LCA	0&X2, 0&X3	C	7	1329	L 0!0 0?0		192
1022	8	62		SAR	XL2	C	4	1336	Q 094		192
1023	8	63		MCW	0&X3, WORK9#9	C	7	1340	M 0?0 Y20		192
1024	8	64		BCE	DONE, WORK9-6, #	C	8	1347	B T66 Y14 #		192
1025	8	65		LCA	0&X3, 0&X3	C	7	1355	L 0?0 0?0		192
1026	8	66		SAR	XL3	C	4	1362	Q 099		192
1027	8	67	DONE	C	PICK&6, XL2	C	7	1366	C /10 094		193
1028	8	68		BU	LOOP1	C	5	1373	B T29 /		193
1029	8	69		MCW	XL3, PICK&6	C	7	1378	M 099 /10		193
1030	8	70		MCW	XL3, XL2	C	7	1385	M 099 094		193
1031	8	71		MZ	XL3, ALL92	C	7	1392	Y 099 Y05		193
1032	8	72		MZ		C	1	1399	Y		193
1033	8	724	*		MLZS ACCHI&X3, NSIGN WASN'T ACTUALLY DONE	V3M4					
1034	8	73		MCW		C	1	1400	M		193
1035	8	74		MZ	XL1, ALL9	C	7	1401	Y 089 Y02		194
1036	8	75		MZ		C	1	1408	Y		194
1037	8	76		MCW		C	1	1409	M		194
1038	8	77		C	ALL9, ALL92	C	7	1410	C Y02 Y05		194
1039	8	78		BE	ZADD	C	5	1417	B U42 S		194
1040	8	79	CLEER	CS	0&X3	C	4	1422	/ 0?0		194
1041	8	80		SBR	XL3	C	4	1426	H 099		194
1042	8	81		C	XL3, ALL9	C	7	1430	C 099 Y02		195
1043	8	82		BU	CLEER	C	5	1437	B U22 /		195
1044	8	83	ZADD	ZA	&39, SAVE3	C	7	1442	? Y22 !03		195
1045	8	84		S	XL3&1	C	4	1449	S 100		195
1046	8	85	MUVE	MCW	BLNK3#3, TABLE&2&X3	C	7	1453	M Y25 8D0		195
1047	8	86		S	&1, SAVE3	C	7	1460	S Y26 !03		195
1048	8	87		BM	EXIT, SAVE3	C	8	1467	V U86 !03 K		196

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1049	8	88		A	&3,XL3	C	7	1475	A Y27 099		196
1050	8	89		B	MUVE	C	4	1482	B U53		196
1051	8	90	EXIT	MCM	1&X2	C	4	1486	P 0!1		196
1052	8	91		MN		C	1	1490	D		196
1053	8	92		SAR	XL2	C	4	1491	Q 094		196
1054	8	93		BCE	EXIT,0&X2,|	C	8	1495	B U86 0!0 |		196
1055	8	94		SBR	XL2,1&X2	C	7	1503	H 094 0!1		197
1056	8	95		S	XL3&1	C	4	1510	S 100		197
1057	8	96		C	0&X2	C	4	1514	C 0!0		197
1058	8	97		SAR	*&4	C	4	1518	Q V25		197
1059	8	98		MCW	0,WORK9	C	7	1522	M 000 Y20		197
1060	8	99		MN	WORK9-6,XL3	C	7	1529	D Y14 099		197
1061	9	00		MCW	XL3,SAVE3	C	7	1536	M 099 !03		198
1062	9	01		A	XL3	C	4	1543	A 099		198
1063	9	02		A	SAVE3,XL3	C	7	1547	A !03 099		198
1064	9	03		BWZ	CNT,WORK9-6,2	C	8	1554	V V99 Y14 2		198
1065	9	04		A	&30,XL3	C	7	1562	A Y29 099		198
1066	9	05		BWZ	CNT,WORK9-6,S	C	8	1569	V V99 Y14 S		199
1067	9	06		A	&30,XL3	C	7	1577	A Y29 099		199
1068	9	07		BWZ	CNT,WORK9-6,K	C	8	1584	V V99 Y14 K		199
1069	9	08		A	&30,XL3	C	7	1592	A Y29 099		199
1070	9	09	CNT	MN	0&X2	C	4	1599	D 0!0		199
1071	9	10		MN		C	1	1603	D		199
1072	9	11		MCW	TABLE&2&X3	C	4	1604	M 8D0		199
1073	9	12		C	0&X2	C	4	1608	C 0!0		200
1074	9	13		SAR	TABLE&2&X3	C	4	1612	Q 8D0		200
1075	9	14		C	XL2,PARAM&2	C	7	1616	C 094 688		200
1076	9	15		BU	EXIT	C	5	1623	B U86 /		200
1077	9	16		MCW	TBEGIN,XL3	C	7	1628	M Y10 099		200
1078	9	17		NOP	3&X3	C	4	1635	N 0?3		200
1079	9	18		SAR	TBEGIN	C	4	1639	Q Y10		200
1080	9	19		B	NUTYP	C	4	1643	B |63		201
1081	9	20	EOJ	FENDX	C,GM,,XBEGIN,XBEGIN,XBEGIN,SAVE3,GROUP MARK	C				MACRO	
1082			EOJ	BSS	333,C	C	5	1647	B 333 C	GEN	201
1083				SBR	INITAP&6,XBEGIN	C	7	1652	H 786 838	GEN	201
1084				SBR	BCLEAR	C	4	1659	H 833	GEN	201
1085				SBR	INITXT&3,XBEGIN	C	7	1663	H 796 838	GEN	201
1086				SBR	TCLEAR,SAVE3	C	7	1670	H 710 !03	GEN	201
1087				LCA	@GROUP MARK@,110	C	7	1677	L Y39 110	GEN	202
1088				B	MONTER	C	4	1684	B 700	GEN	202
1089	9	21	CERR	FQUIT		C				MACRO	
1090			CERR	CS	332	C	4	1688	/ 332	GEN	202
1091				CS		C	1	1692	/	GEN	202
1092				CC	1	C	2	1693	F 1	GEN	202
1093				MCW	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@,270	C	7	1695	M Y75 270	GEN	202
1094				W		C	1	1702	2	GEN	202
1095				CC	1	C	2	1703	F 1	GEN	203
1096				BCE	*&6,MONITOR,1	C	8	1705	B X18 769 1	GEN	203
1097				RWD	1	C	5	1713	U %U1 R	GEN	203
1098				H	*-3	C	4	1718	. X18	GEN	203

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1099	9	22		DCW	@XXX@	C	3	1724			203
1100	9	23		DCW	117	C	3	1727			203
1101	9	24		DCW	084	C	3	1730			203
1102	9	25		DCW	108	C	3	1733			204
1103	9	26		DCW	009	C	3	1736			204
1104	9	27		DCW	003	C	3	1739			204
1105	9	28		DCW	018	C	3	1742			204
1106	9	29		DCW	081	C	3	1745			204
1107	9	30		DCW	042	C	3	1748			204
1108	9	31		DCW	015	C	3	1751			204
1109	9	32		DCW	069	C	3	1754			205
1110	9	33		DCW	087	C	3	1757			205
1111	9	34		DCW	105	C	3	1760			205
1112	9	35		DCW	027	C	3	1763			205
1113	9	36		DCW	096	C	3	1766			205
1114	9	37		DCW	057	C	3	1769			205
1115	9	38		DCW	075	C	3	1772			205
1116	9	39		DCW	039	C	3	1775			206
1117	9	40		DCW	111	C	3	1778			206
1118	9	41		DCW	036	C	3	1781			206
1119	9	42		DCW	093	C	3	1784			206
1120	9	43		DCW	063	C	3	1787			206
1121	9	44		DCW	066	C	3	1790			206
1122	9	45		DCW	048	C	3	1793			206
1123	9	46		DCW	099	C	3	1796			207
1124	9	47	LIST	DCW	102	C	3	1799			207
1125	9	48	ALL9	DCW	999	C	3	1802			207
1126	9	49	ALL92	DCW	999	C	3	1805			207
1127	9	50	GM	DC	@}@	C	1	1806		GMARK	207
1128	9	51	PAKSW	DC	0	C	1	1807			207
1129	9	52		LTORG	*	C			1808		
			TBEGIN	DCW	#03	C	3	1810		AREA	207
				DCW	@#@	C	1	1811		LIT	207
			WORK9C	DCW	#09	C	9	1820		AREA	207
				DCW	&39	C	2	1822		LIT	208
			BLNK3C	DCW	#03	C	3	1825		AREA	208
				DCW	&1	C	1	1826		LIT	208
				DCW	&3	C	1	1827		LIT	208
				DCW	&30	C	2	1829		LIT	208
				DCW	@GROUP MARK@	C	10	1839		LIT	208
				DCW	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@	C	36	1875		LIT	209
1130	9	53		ORG	EOTWO&1	C			2001		
1131	9	54	SAVE3	DCW	#3	C	3	2003			210
1132	9	55		ORG	ORGVBI&X00	C			2900		
1133	9	56	END	EQU	*&1	C		2900			
1134	9	57		DCW	@}@	C	1	2900		GMARK	211
1135	9	58		XFR	AGAIN	C			B | 22		212

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1136	9	59		JOB	1401 FORTRAN INSERT GROUP PHASE	C					
1137	9	60		FBEGN	GROUP MARK,X1,R,X2,R,,D	C				MACRO	
1138				SFX	D	D				GEN	
1139		110		DCW	@GROUP MARK@	D	10	0110		GEN	215
1140		X1		EQU	089	D		0089		GEN	
1141		089		DCW	000	D	3	0089		GEN	216
1142		091		DC	00	D	2	0091		GEN	216
1143		X2		EQU	094	D		0094		GEN	
1144		094		DCW	000	D	3	0094		GEN	216
1145		096		DC	00	D	2	0096		GEN	216
1146	9	61		ORG	XBEGIN	D			0838		
1147	9	62	START	MCW	083,X1	D	7	0838	M 083 089		217
1148	9	63		SW	GM	D	4	0845	, |91		217
1149	9	64	LOOP1	BCE	RPLCE,0&X1,: 5-8	D	8	0849	B 881 0|0 :		217
1150	9	65	BTEST	BCE	EOJ,0&X1, BLANK	D	8	0857	B 949 0|0		217
1151	9	66		BCE	CKFMT,0&X1,} GROUP MARK	D	8	0865	B 904 0|0 } GMARK		217
1152	9	67		SBR	X1	D	4	0873	H 089		217
1153	9	68		B	LOOP1	D	4	0877	B 849		218
1154	9	69	RPLCE	LCA	GM, 0&X1 INSERT GM/WM	D	7	0881	L |91 0|0		218
1155	9	70		SBR	X1	D	4	0888	H 089		218
1156	9	71		C	0&X1	D	4	0892	C 0|0		218
1157	9	72		SAR	X1	D	4	0896	Q 089		218
1158	9	73		B	LOOP1	D	4	0900	B 849		218
1159	9	74	CKFMT	MCW	0&X1,HOLD5#5	D	7	0904	M 0|0 |96		218
1160	9	75		BCE	ISFMT,HOLD5-4,F	D	8	0911	B 938 |92 F		219
1161	9	76		MCW	@B@,BTEST	D	7	0919	M |97 857		219
1162	9	77	BUMP	MN	0&X1	D	4	0926	D 0|0		219
1163	9	78		SBR	X1	D	4	0930	H 089		219
1164	9	79		B	LOOP1	D	4	0934	B 849		219
1165	9	80	ISFMT	MCW	@N@,BTEST	D	7	0938	M |98 857		219
1166	9	81		B	BUMP	D	4	0945	B 926		219
1167	9	82	EOJ	MCW	PARAM&2,X2	D	7	0949	M 688 094		220
1168	9	83		MZ	083,ALL9	D	7	0956	Y 083 |90		220
1169	9	84		MZ		D	1	0963	Y		220
1170	9	85		MCW		D	1	0964	M		220
1171	9	86	CLEAR	CS	0&X2	D	4	0965	/ 0!0		220
1172	9	87		SBR	X2	D	4	0969	H 094		220
1173	9	88		C	X2,ALL9	D	7	0973	C 094 |90		220
1174	9	89		BU	CLEAR	D	5	0980	B 965 /		221
1175	9	90	CMPAR	C	083,X2	D	7	0985	C 083 094		221
1176	9	91		BE	FXPRM	D	5	0992	B |16 S		221
1177	9	92		MCW	BLANK#1,0&X2	D	7	0997	M |99 0!0		221
1178	9	93		CW	0&X2	D	4	1004	) 0!0		221
1179	9	94		SBR	X2	D	4	1008	H 094		221
1180	9	95		B	CMPAR	D	4	1012	B 985		221
1181	9	96	FXPRM	SW	PARAM&3	D	4	1016	, 689		222
1182	9	97		A	BLANK,PARAM&6	D	7	1020	A |99 692		222
1183	9	98		C	PARAM&4,@00@	D	7	1027	C 690 /01		222
1184	9	99		BU	*&8	D	5	1034	B |46 /		222
1185	10	00		MCW	@05@,PARAM&4	D	7	1039	M /03 690		222

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1186	10	01		C	PARAM&6,@00@	D	7	1046	C 692 /01		222
1187	10	02		BU	EOPHS	D	5	1053	B |65 /		223
1188	10	03		MCW	@08@,PARAM&6	D	7	1058	M /05 692		223
1189	10	04	EOPHS	FENDX	C,GM,,,,SYS1,SQUOZE	D				MACRO	
1190			EOPHS	BSS	333,C	D	5	1065	B 333 C	GEN	223
1191				SBR	TCLEAR,SYS1	D	7	1070	H 710 /12	GEN	223
1192				LCA	@SQUOZE@,110	D	7	1077	L /11 110	GEN	223
1193				B	MONTER	D	4	1084	B 700	GEN	223
1194	10	05	ALL9	DCW	999	D	3	1090			223
1195	10	06	GM	DC	@}@	D	1	1091		GMARK	223
1196	10	07		LTORG	*	D			1092		
			HOLD5D	DCW	#05	D	5	1096		AREA	224
				DCW	@B@	D	1	1097		LIT	224
				DCW	@N@	D	1	1098		LIT	224
			BLANKD	DCW	#01	D	1	1099		AREA	224
				DCW	@00@	D	2	1101		LIT	224
				DCW	@05@	D	2	1103		LIT	224
				DCW	@08@	D	2	1105		LIT	224
				DCW	@SQUOZE@	D	6	1111		LIT	225
1197	10	08	SYS1	DCW	@}@	D	1	1112		GMARK	225
1198	10	09		XFR	START	D			B 838		226

GROUP MARK

SYSTEM GROUP MARK

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1199	10	10		JOB	1401 FORTRAN SQUOZE PHASE	D					
1200	10	11		FBEGN	SQUOZE,XL1,R,XL2,R,XL3,R,E,XXXX	D				MACRO	
1201				SFX	E	E				GEN	
1202			XXXX	EQU	0	E		0000		GEN	
1203			110	DCW	@SQUOZE@	E	6	0110		GEN	229
1204			XL1	EQU	089	E		0089		GEN	
1205			089	DCW	000	E	3	0089		GEN	230
1206			091	DC	00	E	2	0091		GEN	230
1207			XL2	EQU	094	E		0094		GEN	
1208			094	DCW	000	E	3	0094		GEN	230
1209			096	DC	00	E	2	0096		GEN	230
1210			XL3	EQU	099	E		0099		GEN	
1211			099	DCW	000	E	3	0099		GEN	230
1212			100	DC	0	E	1	0100		GEN	230
1213	10	12	X1	EQU	XL1	E		0089			
1214	10	13	X2	EQU	XL2	E		0094			
1215	10	14	STLOC	EQU	083	E		0083			
1216	10	15		ORG	XBEGIN	E			0838		
1217	10	16	BEGIN	MCW	STLOC,XL2	E	7	0838	M 083 094		231
1218	10	17		MCW	STLOC,XL1	E	7	0845	M 083 089		231
1219	10	18	NUSTM	MCW	0&X1,STMNO#3	E	7	0852	M 0|0 U94		231
1220	10	19		MCW	0&X1,HOLD4#4	E	7	0859	M 0|0 U98		231
1221	10	20		BCE	ARITH,HOLD4-3,R	E	8	0866	B /56 U95 R		231
1222	10	21		BCE	ENDCD,HOLD4-3,/	E	8	0874	B /82 U95 /		232
1223	10	22	BYP	BCE	LOD,HOLD4-3,X	E	8	0882	B 991 U95 X		232
1224	10	23		MZ	HOLD4-3,BYP&7	E	7	0890	Y U95 889		232
1225	10	24		MN	HOLD4-3,BYP&7	E	7	0897	D U95 889		232
1226	10	25		MN	HOLD4-3,HOLD1#1	E	7	0904	D U95 U99		232
1227	10	26		ZA	HOLD1,HOLD3#3	E	7	0911	? U99 V02		233
1228	10	27		A	HOLD3	E	4	0918	A V02		233
1229	10	28		A	HOLD1,HOLD3	E	7	0922	A U99 V02		233
1230	10	29		MZ	BLANK#1,HOLD3	E	7	0929	Y V03 V02		233
1231	10	30		LCA	&TABLE-3,RTREV&3	E	7	0936	L V06 979		233
1232	10	31		A	HOLD3,RTREV&3	E	7	0943	A V02 979		233
1233	10	32		MZ	HOLD4-3,RTREV&2	E	7	0950	Y U95 978		234
1234	10	33		CW	RTREV&1	E	4	0957	) 977		234
1235	10	34		MCW	XL2,HOLDX#8	E	7	0961	M 094 V14		234
1236	10	35		MCW		E	1	0968	M		234
1237	10	36		MCM	DATA,XL1-2	E	7	0969	P U78 087		234
1238	10	37	RTREV	MCW	XXXX,XL3	E	7	0976	M 000 099		234
1239	10	38		MCW	HOLDX,XL2	E	7	0983	M V14 094		235
1240	10	39		MCW		E	1	0990	M		235
1241	10	40	LOD	MVDWN	X1,X2	E				MACRO	
1242			LOD	LCA	0&X1,0&X2	E	7	0991	L 0|0 0!0	GEN	235
1243				SAR	X1	E	4	0998	Q 089	GEN	235
1244				C	0&X2	E	4	1002	C 0!0	GEN	235
1245				SAR	X2	E	4	1006	Q 094	GEN	235
1246	10	41		C	0&X1,0&X3	E	7	1010	C 0|0 0?0		235
1247	10	42		SAR	XL1	E	4	1017	Q 089		236
1248	10	43		BU	ERROR	E	5	1021	B |92 /		236

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1249	10	44	SHIFT	MVDWN	X1,X2	E				MACRO	
1250			SHIFT	LCA	0&X1,0&X2	E	7	1026	L 0|0 0!0	GEN	236
1251				SAR	X1	E	4	1033	Q 089	GEN	236
1252				C	0&X2	E	4	1037	C 0!0	GEN	236
1253				SAR	X2	E	4	1041	Q 094	GEN	236
1254	10	45	CKDON	BCE	DONE,0&X1,	E	8	1045	B |57 0|0		236
1255	10	46		B	NUSTM	E	4	1053	B 852		237
1256	10	47	DONE	CS	0&X2	E	4	1057	/ 0!0		237
1257	10	48		CS		E	1	1061	/		237
1258	10	49		FENDX	C,,,,INITLF,,SYS1,DIMEN1	E				MACRO	
1259				BSS	333,C	E	5	1062	B 333 C	GEN	237
1260				SBR	INITXT&3,INITLF	E	7	1067	H 796 839	GEN	237
1261				SBR	TCLEAR,SYS1	E	7	1074	H 710 V67	GEN	237
1262				LCA	@DIMEN1@,110	E	7	1081	L V20 110	GEN	237
1263				B	MONTER	E	4	1088	B 700	GEN	238
1264	10	50	ERROR	FTMSG	1,UNDETERMINABLE STATEMENT,STMNO,25	E				MACRO	
1265			ERROR	CS	332	E	4	1092	/ 332	GEN	238
1266				CS		E	1	1096	/	GEN	238
1267				SW	FAILSW	E	4	1097	, 184	GEN	238
1268				MN	STMNO,224&25	E	7	1101	D U94 249	GEN	238
1269				MN		E	1	1108	D	GEN	238
1270				MN		E	1	1109	D	GEN	238
1271				MCW	@ERROR 1 - UNDETERMINABLE STATEMENT, STATEMENT @	E	4	1110	M V66	GEN	239
1272				W		E	1	1114	2	GEN	239
1273				BCV	*&5	E	5	1115	B /24 @	GEN	239
1274				B	*&3	E	4	1120	B /26	GEN	239
1275				CC	1	E	2	1124	F 1	GEN	239
1276	10	51	PMOV3	MCM	2&X2	E	4	1126	P 0!2		239
1277	10	52		MN		E	1	1130	D		239
1278	10	53		MN		E	1	1131	D		240
1279	10	54		SAR	XL2	E	4	1132	Q 094		240
1280	10	55		BCE	PMOV3,1&X2,|	E	8	1136	B /26 0!1 |		240
1281	10	56		C	0&X1	E	4	1144	C 0|0		240
1282	10	57		SAR	XL1	E	4	1148	Q 089		240
1283	10	58		B	CKDON	E	4	1152	B |45		240
1284	10	59	ARITH	LCA	0&X1,0&X2	E	7	1156	L 0|0 0!0		240
1285	10	60		SAR	XL1	E	4	1163	Q 089		241
1286	10	61		LCA	0&X2,0&X2	E	7	1167	L 0!0 0!0		241
1287	10	62		SBR	XL2	E	4	1174	H 094		241
1288	10	63		B	SHIFT	E	4	1178	B |26		241
1289	10	64	ENDCD	C	0&X1	E	4	1182	C 0|0		241
1290	10	65		C		E	1	1186	C		241
1291	10	66		SAR	XL1	E	4	1187	Q 089		241
1292	10	67		B	CKDON	E	4	1191	B |45		242
1293	10	68	TABLE	DCW	RDTAP	E	3	1197	U03		242
1294	10	69		DCW	XXXX	E	3	1200	000		242
1295	10	70		DCW	WRTAP	E	3	1203	U12		242
1296	10	71		DCW	XXXX	E	3	1206	000		242
1297	10	72		DCW	RDITP	E	3	1209	T70		242
1298	10	73		DCW	WTOTP	E	3	1212	T95		242

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD	
1299	10	74		DCW	XXXX		7		E	3	1215 000	243
1300	10	75		DCW	XXXX		8		E	3	1218 000	243
1301	10	76		DCW	BLANK		9	FUNCTION STATEMENTS	E	3	1221 V03	243
1302	10	77		DCW	XXXX		/		E	3	1224 000	243
1303	10	78		DCW	STOP		S	STOP	E	3	1227 T36	243
1304	10	79		DCW	CGOTO		T	COMPUTED GO TO	E	3	1230 T11	243
1305	10	80		DCW	PUNCH		U	PUNCH	E	3	1233 T75	243
1306	10	81		DCW	XXXX		V		E	3	1236 000	244
1307	10	82		DCW	IFSSW		W	IF SENSE SWITCH	E	3	1239 T27	244
1308	10	83		DCW	XXXX		X		E	3	1242 000	244
1309	10	84		DCW	XXXX		Y		E	3	1245 000	244
1310	10	85		DCW	RWD		Z	REWIND	E	3	1248 U25	244
1311	10	86		DCW	SENLT		J	SENSE LIGHT	E	3	1251 U77	244
1312	10	87		DCW	IFSL		K	IF SENSE LIGHT	E	3	1254 U67	244
1313	10	88		DCW	READ		L	READ	E	3	1257 T57	245
1314	10	89		DCW	XXXX		M		E	3	1260 000	245
1315	10	90		DCW	EOF		N	END OF FILE	E	3	1263 U19	245
1316	10	91		DCW	XXXX		O		E	3	1266 000	245
1317	10	92		DCW	PRINT		P	PRINT	E	3	1269 T80	245
1318	10	93		DCW	EQUIV		Q	EQUIVALENCE	E	3	1272 U54	245
1319	10	94		DCW	XXXX		R	ARITHMETIC	E	3	1275 000	245
1320	10	95		DCW	PAUSE		A	PAUSE	E	3	1278 T32	246
1321	10	96		DCW	BSP		B	BACKSPACE	E	3	1281 U34	246
1322	10	97		DCW	CNTU		C	CONTINUE	E	3	1284 T46	246
1323	10	98		DCW	DO		D	DO	E	3	1287 T38	246
1324	10	99		DCW	IF		E	IF	E	3	1290 T13	246
1325	11	00		DCW	FORMAT		F	FORMAT	E	3	1293 T53	246
1326	11	01		DCW	GOTO		G	GO TO	E	3	1296 T06	246
1327	11	02		DCW	XXXX		H		E	3	1299 000	247
1328	11	03		DCW	DMSN		I	DIMENSION	E	3	1302 U43	247
1329	11	04	GOTO	DCW	@OTOG@				E	4	1306	247
1330	11	05	CGOTO	DCW	@@OTOG@				E	5	1311	247
1331	11	06	IF	DCW	@FI@				E	2	1313	247
1332	11	07	IFSSW	DCW	@HCTIWSESNES%FI@				E	14	1327	247
1333	11	08	PAUSE	DCW	@ESUAP@				E	5	1332	247
1334	11	09	STOP	DCW	@POTS@				E	4	1336	248
1335	11	10	DO	DCW	@OD@				E	2	1338	248
1336	11	11	CNTU	DCW	@EUNITNOC@				E	8	1346	248
1337	11	12	FORMAT	DCW	@@TAMROF@				E	7	1353	248
1338	11	13	READ	DCW	@DAER@				E	4	1357	248
1339	11	14	RDITP	DCW	@EPATTUPNIDAER@				E	13	1370	248
1340	11	15	PUNCH	DCW	@HCNUP@				E	5	1375	249
1341	11	16	PRINT	DCW	@TNIRP@				E	5	1380	249
1342	11	17	WTOTP	DCW	@EPATTUPTUOETIRW@				E	15	1395	249
1343	11	18	RDTAP	DCW	@EPATDAER@				E	8	1403	249
1344	11	19	WRTAP	DCW	@EPATETIRW@				E	9	1412	250
1345	11	20	EOF	DCW	@ELIFDNE@				E	7	1419	250
1346	11	21	RWD	DCW	@DNIWER@				E	6	1425	250
1347	11	22	BSP	DCW	@ECAPSKCAB@				E	9	1434	250
1348	11	23	DMSN	DCW	@NOISNEMID@				E	9	1443	251

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1349	11	24	EQUIV	DCW	@ECNELAVIUQE@	E	11	1454			251
1350	11	25	IFSL	DCW	@THGILES NES%FI@	E	13	1467			251
1351	11	26	SENLT	DCW	@THGILES NES@	E	10	1477			252
1352	11	27	DATA	EQU	*&1	E		1478			
1353	11	28		DCW	@0270005400081|@	E	14	1491			252
1354	11	29		LTORG	*	E			1492		
			STMNOE	DCW	#03	E	3	1494		AREA	252
			HOLD4E	DCW	#04	E	4	1498		AREA	252
			HOLD1E	DCW	#01	E	1	1499		AREA	252
			HOLD3E	DCW	#03	E	3	1502		AREA	252
			BLANKE	DCW	#01	E	1	1503		AREA	252
				DCW	&TABLEE-3	E	3	1506	/94	ADCON	253
			HOLDXE	DCW	#08	E	8	1514		AREA	253
				DCW	@DIMEN1@	E	6	1520		LIT	253
				DCW	@ERROR 1 - UNDETERMINABLE STATEMENT, STATEMENT @	E	46	1566		LIT	255
1355	11	30	SYS1	DCW	@}@	E	1	1567		GMARK	255
1356	11	31		XFR	BEGIN	E			B 838		256
					SYSTEM GROUP MARK						

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1357	11	32		JOB	1401 FORTRAN DIMENSION PHASE ONE	E					
1358	11	33		FBEGN	DIMEN 1,X1,,X2,R,X3,R,F	E				MACRO	
1359				SFX	F	F				GEN	
1360			110	DCW	@DIMEN 1@	F	7	0110		GEN	259
1361			X1	EQU	089	F		0089		GEN	
1362			X2	EQU	094	F		0094		GEN	
1363			094	DCW	000	F	3	0094		GEN	260
1364			096	DC	00	F	2	0096		GEN	260
1365			X3	EQU	099	F		0099		GEN	
1366			099	DCW	000	F	3	0099		GEN	260
1367			100	DC	0	F	1	0100		GEN	260
1368	11	34		ORG	XBEGIN	F			0838		
1369	11	35	COMPAT	DCW	0	F	1	0838			261
1370	11	36	INITL	SW	GM	F	4	0839	, W91		261
1371	11	37		MCW	83,X1	F	7	0843	M 083 089		261
1372	11	38		A	BLANK#1,PARAMA&6	F	7	0850	A X01 692		261
1373	11	39		MCW	PARAMA&6,HOLD#2	F	7	0857	M 692 X03		261
1374	11	40		A	&2,HOLD	F	7	0864	A X04 X03		261
1375	11	41		C	PARAMA&4,HOLD	F	7	0871	C 690 X03		262
1376	11	42		BU	*&5	F	5	0878	B 887 /		262
1377	11	43		CW	COMPAT	F	4	0883	) 838		262
1378	11	44		LCA	GM,1&X1	F	7	0887	L W91 0|1		262
1379	11	45		LCA	PARAMA&2,X2	F	7	0894	L 688 094		262
1380	11	46		MN	0000&X2	F	4	0901	D 0|0		262
1381	11	47		MN		F	1	0905	D		262
1382	11	48		MCW	@ @	F	4	0906	M X05		263
1383	11	49		SBR	X2	F	4	0910	H 094		263
1384	11	50	START	MCW	BLANK,001	F	7	0914	M X01 001		263
1385	11	51		MCW	@<@,2&X1	F	7	0921	M X06 0|2		263
1386	11	52		NOP	2&X1	F	4	0928	N 0|2		263
1387	11	53		SAR	START&6	F	4	0932	Q 920		263
1388	11	54		LCA	0&X1,WORK	F	7	0936	L 0|0 W90		263
1389	11	55		SAR	X1	F	4	0943	Q 089		264
1390	11	56		SBR	X3	F	4	0947	H 099		264
1391	11	57		BCE	CKNOD,WORK,	F	8	0951	B V45 W90		264
1392	11	58		BCE	DIMEN,WORK-3,I	F	8	0959	B 979 W87 I		264
1393	11	59		BCE	BYP,WORK-3,/	F	8	0967	B V33 W87 /		264
1394	11	60		B	CKNOD	F	4	0975	B V45		264
1395	11	61	DIMEN	BCE	NAME,000&X1,%	F	8	0979	B |19 0|0 %		265
1396	11	62		FBCEQ	SYNER,0&X1,,),}	F				MACRO	
1397				BCE	SYNER, 0&X1, ,	F	8	0987	B U84 0|0 ,	GEN	265
1398				BCE	SYNER, 0&X1,)	F	8	0995	B U84 0|0)	GEN	265
1399				BCE	SYNER, 0&X1, }	F	8	1003	B U84 0|0 }	GEN	265
1400	11	63		SBR	X1	F	4	1011	H 089		265
1401	11	64		B	DIMEN	F	4	1015	B 979		266
1402	11	65	NAME	SW	DIMSW	F	4	1019	, X00		266
1403	11	66		MN	0&X1	F	4	1023	D 0|0		266
1404	11	67		SAR	X1	F	4	1027	Q 089		266
1405	11	68		SW	002&X1	F	4	1031	, 0|2		266
1406	11	69		MCW	X2,HEX2#3	F	7	1035	M 094 X09		266

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1407	11	70	*	TEST TO	SEE IF ARRAY WAS PREVIOUSLY DEFINED						
1408	11	71		BW	OK,DSW#1	F	8	1042	V /12 X10 1		266
1409	11	72	UNIQ	MCM	1&X2	F	4	1050	P 0!1		267
1410	11	73		SAR	X2	F	4	1054	Q 094		267
1411	11	74		BCE	OK,0&X2, BLANK	F	8	1058	B /12 0!0		267
1412	11	75	GET	MCM	2&X2	F	4	1066	P 0!2		267
1413	11	76		MN		F	1	1070	D		267
1414	11	77		MN		F	1	1071	D		267
1415	11	78		SBR	X2	F	4	1072	H 094		267
1416	11	79		BCE	GET,1&X2,|	F	8	1076	B |66 0!1 |		268
1417	11	80	COMP	C	0&X2,0&X3 REST V. NEW	F	7	1084	C 0!0 0?0		268
1418	11	81		SAR	X2	F	4	1091	Q 094		268
1419	11	82		BU	UNIQ	F	5	1095	B |50 /		268
1420	11	83	*	CAN GET	EQUAL COMPARE IF A FIELD LONGER THAN B FIELD						
1421	11	84		BWZ	MULTY,1&X2,1	F	8	1100	V T56 0!1 1		268
1422	11	85		B	UNIQ	F	4	1108	B |50		268
1423	11	86	OK	MCW	HEX2,X2	F	7	1112	M X09 094		269
1424	11	87		LCA	GM,000&X2	F	7	1119	L W91 0!0		269
1425	11	88		LCA	000&X3	F	4	1126	L 0?0		269
1426	11	89		LCA	PRED	F	4	1130	L W94		269
1427	11	90		SBR	X2	F	4	1134	H 094		269
1428	11	91		MCW	PRED,X3 PRED INITIALLY BLANK	F	7	1138	M W94 099		269
1429	11	92		BCE	*&5,X3, BLANK	F	8	1145	B /57 099		270
1430	11	93		B	*&8	F	4	1153	B /64		270
1431	11	94		A	BLANK,X3	F	7	1157	A X01 099		270
1432	11	95		LCA	@ @,000&X2	F	7	1164	L X13 0!0		270
1433	11	96		LCA	@ @	F	4	1171	L X13		270
1434	11	97		SBR	006&X3	F	4	1175	H 0?6		270
1435	11	98		SBR	PRED	F	4	1179	H W94		270
1436	11	99		LCA	@ @	F	4	1183	L X18		271
1437	12	00		SBR	X2	F	4	1187	H 094		271
1438	12	01	RESET	FFLIP	0&X1,MN,X1,X3,,,,),}	F				MACRO	
1439			RESET	MN	MN	F	4	1191	D W95	GEN	271
1440				MN		F	1	1195	D	GEN	271
1441				SAR	X3	F	4	1196	Q 099	GEN	271
1442				SBR	X1, 0&X1	F	7	1200	H 089 0!0	GEN	271
1443			)0K028	MCW	0&X1,)0L028#1	F	7	1207	M 0!0 X19	GEN	271
1444				SAR	X1	F	4	1214	Q 089	GEN	272
1445				BCE	)0M028,)0L028,)	F	8	1218	B S57 X19)	GEN	272
1446				BCE	)0M028,)0L028, }	F	8	1226	B S57 X19 }	GEN	272
1447				BCE	)0M028,)0L028, ,	F	8	1234	B S57 X19 ,	GEN	272
1448				MCW	)0L028, 2&X3	F	7	1242	M X19 0?2	GEN	272
1449				SBR	X3	F	4	1249	H 099	GEN	272
1450				B	)0K028	F	4	1253	B S07	GEN	273
1451			)0M028	EQU	*&1	F		1257		GEN	
1452	12	02		BCE	SYNER,1&X1,}	F	8	1257	B U84 0!1 }	GMARK	273
1453	12	03		LCA	001&X3,000&X2	F	7	1265	L 0?1 0!0		273
1454	12	04		SBR	X2	F	4	1272	H 094		273
1455	12	05		BCE	RESET,1&X1,,	F	8	1276	B /91 0!1 ,		273
1456	12	06		MCW	START&6,X3	F	7	1284	M 920 099		273

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1457	12	07		BCE	*&5,0&X3,< 12-6-8	F	8	1291	B T03 0?0 <		274
1458	12	08		B	FAIL	F	4	1299	B W46		274
1459	12	09		CW	DSW	F	4	1303	) X10		274
1460	12	10	CKGM	BCE	NEXT,0&X1,} 12-7-8	F	8	1307	B T44 0|0 } GMARK		274
1461	12	11		B	LAST CHAR OF DIMEN MIGHT BE ,	F	1	1315	B		274
1462	12	12		BCE	*&5,0&X1,,	F	8	1316	B T28 0|0 ,		274
1463	12	13		B	SYNER	F	4	1324	B U84		274
1464	12	14		MN	000&X1	F	4	1328	D 0|0		275
1465	12	15		SAR	X1	F	4	1332	Q 089		275
1466	12	16		SBR	X3	F	4	1336	H 099		275
1467	12	17		B	DIMEN	F	4	1340	B 979		275
1468	12	18	NEXT	C	0&X1	F	4	1344	C 0|0		275
1469	12	19		SAR	X1	F	4	1348	Q 089		275
1470	12	20		B	START	F	4	1352	B 914		275
1471	12	21	MULTY	CS	332	F	4	1356	/ 332		276
1472	12	22		CS		F	1	1360	/		276
1473	12	23		SW	FAILSW	F	4	1361	, 184		276
1474	12	24		MCW	@ERROR 2 - DOUBLY DEFINED ARRAY@,230	F	7	1365	M X49 230		276
1475	12	25		MCW	COMP&6,X2	F	7	1372	M |90 094		276
1476	12	26		FFLIP	0&X3,232,X3,X2,INCL,WM	F				MACRO	
1477				MN	232	F	4	1379	D 232	GEN	276
1478				MN		F	1	1383	D	GEN	276
1479				SAR	X2	F	4	1384	Q 094	GEN	277
1480				SBR	X3, 0&X3	F	7	1388	H 099 0?0	GEN	277
1481			)0K029	MCW	0&X3,)0L029#1	F	7	1395	M 0?0 X50	GEN	277
1482				SAR	X3	F	4	1402	Q 099	GEN	277
1483				MCW	)0L029, 2&X2	F	7	1406	M X50 0!2	GEN	277
1484				SBR	X2	F	4	1413	H 094	GEN	277
1485				BW	)0M029, 1&X3	F	8	1417	V U29 0?1 1	GEN	278
1486				B	)0K029	F	4	1425	B T95	GEN	278
1487			)0M029	EQU	*&1	F		1429		GEN	
1488	12	27		W		F	1	1429	2		278
1489	12	28		FORMS		F				MACRO	
1490				BCV	*&5	F	5	1430	B U39 @	GEN	278
1491				B	*&3	F	4	1435	B U41	GEN	278
1492				CC	1	F	2	1439	F 1	GEN	278
1493	12	29	LOZSC	BCE	CTUL,0&X1,)	F	8	1441	B U65 0|0)		278
1494	12	30		SBR	X1	F	4	1449	H 089		279
1495	12	31		BCE	SYNER,1&X1,} 12-7-8	F	8	1453	B U84 0|1 } GMARK		279
1496	12	32		B	LOZSC	F	4	1461	B U41		279
1497	12	33	CTUL	MN	0&X1	F	4	1465	D 0|0		279
1498	12	34		SAR	X1	F	4	1469	Q 089		279
1499	12	35		MCW	HEX2,X2	F	7	1473	M X09 094		279
1500	12	36		B	CKGM	F	4	1480	B T07		279
1501	12	37	SYNER	FTMSG	3,DIMENSION SYNTAX,WORK,17	F				MACRO	
1502			SYNER	CS	332	F	4	1484	/ 332	GEN	280
1503				CS		F	1	1488	/	GEN	280
1504				SW	FAILSW	F	4	1489	, 184	GEN	280
1505				MN	WORK,224&17	F	7	1493	D W90 241	GEN	280
1506				MN		F	1	1500	D	GEN	280

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1507				MN		F	1	1501	D	GEN	280
1508				MCW	@ERROR 3 - DIMENSION SYNTAX, STATEMENT @	F	4	1502	M X88	GEN	280
1509				W		F	1	1506	2	GEN	281
1510				BCV	*&5	F	5	1507	B V16 @	GEN	281
1511				B	*&3	F	4	1512	B V18	GEN	281
1512				CC	1	F	2	1516	F 1	GEN	281
1513	12	38		MCW	HEX2,X2	F	7	1518	M X09 094		281
1514	12	39		BCE	START,1&X1,}	F	8	1525	B 914 0|1 }	GMARK	281
1515	12	40	BYP	C	0&X1	F	4	1533	C 0|0		281
1516	12	41		SAR	X1	F	4	1537	Q 089		282
1517	12	42		B	START	F	4	1541	B 914		282
1518	12	43	CKNOD	BW	OUT,DIMSW	F	8	1545	V V88 X00 1		282
1519	12	44		LCA	GM,0&X2	F	7	1553	L W91 0!0		282
1520	12	45		LCA	@:@	F	4	1560	L X89		282
1521	12	46		LCA	BLNK3#3	F	4	1564	L X92		282
1522	12	47		LCA	BLNK3	F	4	1568	L X92		282
1523	12	48		LCA	BLNK3	F	4	1572	L X92		283
1524	12	49		LCA	BLANK5#5	F	4	1576	L X97		283
1525	12	50		LCA	@10@	F	4	1580	L X99		283
1526	12	51		SBR	X2	F	4	1584	H 094		283
1527	12	52	OUT	NOP	002&X1	F	4	1588	N 0|2		283
1528	12	53		MCM		F	1	1592	P		283
1529	12	54		MCW		F	1	1593	M		283
1530	12	55		SAR	X1	F	4	1594	Q 089		284
1531	12	56		MCW	006,086	F	7	1598	M 006 086		284
1532	12	57		FENDX	C,GM,,XBEGIN&1,INITLG,XBEGIN&1,SYS1,EQUIV ONE	F				MACRO	
1533				BSS	333,C	F	5	1605	B 333 C	GEN	284
1534				SBR	INITAP&6,XBEGIN&1	F	7	1610	H 786 839	GEN	284
1535				SBR	BCLEAR	F	4	1617	H 833	GEN	284
1536				SBR	INITXT&3,INITLG	F	7	1621	H 796 |34	GEN	284
1537				SBR	TCLEAR,SYS1	F	7	1628	H 710 Y45	GEN	285
1538				LCA	@EQUIV ONE@,110	F	7	1635	L Y08 110	GEN	285
1539				B	MONTER	F	4	1642	B 700	GEN	285
1540	12	58	FAIL	FQUIT		F				MACRO	
1541			FAIL	CS	332	F	4	1646	/ 332	GEN	285
1542				CS		F	1	1650	/	GEN	285
1543				CC	1	F	2	1651	F 1	GEN	285
1544				MCW	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@,270	F	7	1653	M Y44 270	GEN	285
1545				W		F	1	1660	2	GEN	286
1546				CC	1	F	2	1661	F 1	GEN	286
1547				BCE	*&6,MONTOR,1	F	8	1663	B W76 769 1	GEN	286
1548				RWD	1	F	5	1671	U %U1 R	GEN	286
1549				H	*-3	F	4	1676	. W76	GEN	286
1550	12	59		DCW	0	F	1	1680			286
1551	12	60	WORK	DCW	#10	F	10	1690			286
1552	12	61	GM	DC	@}@	F	1	1691		GMARK	286
1553	12	62	PRED	DCW	#3	F	3	1694			287
1554	12	63	MN	DCW	#1	F	1	1695			287
1555	21	64		DC	#4	F	4	1699			287
1556	12	65	DIMSW	DC	#1	F	1	1700			287

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1557	12	66		LTORG	*	F			1701		
			BLANKF	DCW	#01	F	1	1701		AREA	287
			HOLD F	DCW	#02	F	2	1703		AREA	287
				DCW	&2	F	1	1704		LIT	287
				DCW	@ @	F	1	1705		LIT	287
				DCW	@<@	F	1	1706		LIT	287
			HEX2 F	DCW	#03	F	3	1709		AREA	288
			DSW F	DCW	#01	F	1	1710		AREA	288
				DCW	@ @	F	3	1713		LIT	288
				DCW	@ @	F	5	1718		LIT	288
			)0L028	DCW	#01	F	1	1719		AREA	288
				DCW	@ERROR 2 - DOUBLY DEFINED ARRAY@	F	30	1749		LIT	289
			)0L029	DCW	#01	F	1	1750		AREA	289
				DCW	@ERROR 3 - DIMENSION SYNTAX, STATEMENT @	F	38	1788		LIT	290
				DCW	@:@	F	1	1789		LIT	290
			BLNK3F	DCW	#03	F	3	1792		AREA	291
			BLANK5	DCW	#05	F	5	1797		AREA	291
				DCW	@10@	F	2	1799		LIT	291
				DCW	@EQUIV ONE@	F	9	1808		LIT	291
				DCW	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@	F	36	1844		LIT	292
1558	12	67	SYS1	DCW	@}@	F	1	1845		GMARK	292
1559	12	68		XFR	INITL	F			B 839		293

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1560	12	69		JOB	1401 FORTRAN EQUIVALENCE PHASE ONE	F					
1561	12	70		FBEGN	EQUIV ONE,X1,,X2,,X3,R,G	F				MACRO	
1562				SFX	G	G				GEN	
1563			110	DCW	@EQUIV ONE@	G	9	0110		GEN	296
1564			X1	EQU	089	G		0089		GEN	
1565			X2	EQU	094	G		0094		GEN	
1566			X3	EQU	099	G		0099		GEN	
1567			099	DCW	000	G	3	0099		GEN	297
1568			100	DC	0	G	1	0100		GEN	297
1569	12	71		ORG	XBEGIN&1	G			0839		
1570	12	72	FIRST	EQU	086	G		0086			
1571	12	73	GM	DC	@}@	G	1	0839		GMARK	298
1572	12	74	WORK	DC	#10	G	10	0849			298
1573	12	75	DRESS	DCW	#3	G	3	0852			298
1574	12	76	CHAMP	DCW	#5	G	5	0857			298
1575	12	77		DC	#3	G	3	0860			298
1576	12	78	TALLY	DCW	#5	G	5	0865			298
1577	12	79		DC	#3	G	3	0868			298
1578	12	80	ACCUM	DCW	#5	G	5	0873			298
1579	12	81	HEX3	DC	#3	G	3	0876			298
1580	12	82		DC	#1	G	1	0877			298
1581	12	83	SPACE	DCW	#1	G	1	0878			299
1582	12	84		DC	#4	G	4	0882			299
1583	12	85	SYNER	FTMSG	4,EQUIVALENCE SYNTAX,WORK,19	G				MACRO	
1584			SYNER	CS	332	G	4	0883	/ 332	GEN	299
1585				CS		G	1	0887	/	GEN	299
1586				SW	FAILSW	G	4	0888	, 184	GEN	299
1587				MN	WORK,224&19	G	7	0892	D 849 243	GEN	299
1588				MN		G	1	0899	D	GEN	299
1589				MN		G	1	0900	D	GEN	299
1590				MCW	@ERROR 4 - EQUIVALENCE SYNTAX, STATEMENT @	G	4	0901	M Y21	GEN	300
1591				W		G	1	0905	2	GEN	300
1592				BCV	*&5	G	5	0906	B 915 @	GEN	300
1593				B	*&3	G	4	0911	B 917	GEN	300
1594				CC	1	G	2	0915	F 1	GEN	300
1595	12	86		C	0&X1	G	4	0917	C 0|0		300
1596	12	87		SAR	X1	G	4	0921	Q 089		300
1597	12	88		B	START	G	4	0925	B /15		301
1598	12	89	LOOP	FBCEQ	NAME,0&X1,,%,)	G				MACRO	
1599			LOOP	BCE	NAME, 0&X1, ,	G	8	0929	B 969 0|0 ,	GEN	301
1600				BCE	NAME, 0&X1, %	G	8	0937	B 969 0|0 %	GEN	301
1601				BCE	NAME, 0&X1,)	G	8	0945	B 969 0|0)	GEN	301
1602	12	90		BCE	SYNER,0&X1,}	G	8	0953	B 883 0|0 }	GMARK	301
1603	12	91		SBR	X1	G	4	0961	H 089		302
1604	12	92		B	LOOP	G	4	0965	B 929		302
1605	12	93	NAME	SW	001&X1	G	4	0969	, 0|1		302
1606	12	94		MCW	DRESS,X2	G	7	0973	M 852 094		302
1607	12	95	FIND	BCE	CKSIM,2&X2, BLANK	G	8	0980	B S74 0!2		302
1608	12	96	GET	MCM	2&X2	G	4	0988	P 0!2		302
1609	12	97		MN		G	1	0992	D		302

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1610	12	98		MN		G	1	0993	D		303
1611	12	99		SAR	X2	G	4	0994	Q 094		303
1612	13	00		BCE	GET,1&X2,|	G	8	0998	B 988 0!1 |		303
1613	13	01	COMP	C	000,000&X2	G	7	1006	C 000 0!0		303
1614	13	02		SAR	X3	G	4	1013	Q 099		303
1615	13	03		BU	FIND	G	5	1017	B 980 /		303
1616	13	04	A3	BWZ	ISIN,1&X3,1	G	8	1022	V W73 0?1 1		303
1617	13	05		B	FIND	G	4	1030	B 980		304
1618	13	06	INITL	MN	000&X2	G	4	1034	D 0!0		304
1619	13	07		SAR	DRESS	G	4	1038	Q 852		304
1620	13	08		SBR	HEX3	G	4	1042	H 876		304
1621	13	09		SW	GM	G	4	1046	, 839		304
1622	13	10		BW	*&8,COMPAT	G	8	1050	V |65 838 1		304
1623	13	11		MCW	@B@,CMPSW	G	7	1058	M Y22 /77		304
1624	13	12		MCW	X1,SAVE1	G	7	1065	M 089 Z68		305
1625	13	13		MCW	@<@,2&X1	G	7	1072	M Y23 0|2		305
1626	13	14		SBR	KLOBR&6,2&X1	G	7	1079	H T99 0|2		305
1627	13	15	GET2	MCM	2&X2	G	4	1086	P 0!2		305
1628	13	16		MN		G	1	1090	D		305
1629	13	17		MN		G	1	1091	D		305
1630	13	18		SAR	X2	G	4	1092	Q 094		305
1631	13	19		BCE	GET2,1&X2,|	G	8	1096	B |86 0!1 |		306
1632	13	20		C	0&X2	G	4	1104	C 0!0		306
1633	13	21		CHAIN	3	G				MACRO	
1634				C		G	1	1108	C	GEN	306
1635				C		G	1	1109	C	GEN	306
1636				C		G	1	1110	C	GEN	306
1637	13	22		SAR	PRED#3	G	4	1111	Q Y26		306
1638	13	23	START	LCA	000&X1,WORK	G	7	1115	L 0|0 849		306
1639	13	24		SAR	X1	G	4	1122	Q 089		307
1640	13	25	A1	BCE	OUT1,WORK,	G	8	1126	B W85 849		307
1641	13	26		BCE	CKPRN,WORK-3,Q	G	8	1134	B /46 846 Q		307
1642	13	27	A2	B	OUT1	G	4	1142	B W85		307
1643	13	28	CKPRN	BCE	ISEQU,0&X1,%	G	8	1146	B /58 0|0 %		307
1644	13	29		B	SYNER	G	4	1154	B 883		307
1645	13	30	ISEQU	SW	FXSW#1,FLTSW#1	G	7	1158	, Y27 Y28		308
1646	13	31	EQUIV	MN	000&X1	G	4	1165	D 0|0		308
1647	13	32		SAR	X1	G	4	1169	Q 089		308
1648	13	33		SBR	COMP&3	G	4	1173	H |09		308
1649	13	34	CMPSW	NOP	LOOP	G	4	1177	N 929		308
1650	13	35	SVORG	EQU	*&1	G		1181			
1651	13	36		MN	0&X1,TST1&7	G	7	1181	D 0|0 S02		308
1652	13	37		MZ	0&X1,TST1&7	G	7	1188	Y 0|0 S02		308
1653	13	38	TST1	BCE	FIXED,@IJKLMNOP,X	G	8	1195	B S16 Y34 X		309
1654	13	39		CHAIN	5	G				MACRO	
1655				BCE		G	1	1203	B	GEN	309
1656				BCE		G	1	1204	B	GEN	309
1657				BCE		G	1	1205	B	GEN	309
1658				BCE		G	1	1206	B	GEN	309
1659				BCE		G	1	1207	B	GEN	309

EQUIV V. TABLE

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BLANK

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1660	13	40		CW	FLTSW	G	4	1208) Y28		309
1661	13	41		B	*&5	G	4	1212	B S20		310
1662	13	42	FIXED	CW	FXSW	G	4	1216	) Y27		310
1663	13	43		BW	LOOP,FLTSW	G	8	1220	V 929 Y28 1		310
1664	13	44		BWZ		G	1	1228	V		310
1665	13	45		FTMSG	5,ILLEGAL EQUIVALENCE MIXING,WORK,27	G				MACRO	
1666				CS	332	G	4	1229	/ 332	GEN	310
1667				CS		G	1	1233	/	GEN	310
1668				SW	FAILSW	G	4	1234	, 184	GEN	310
1669				MN	WORK,224&27	G	7	1238	D 849 251	GEN	311
1670				MN		G	1	1245	D	GEN	311
1671				MN		G	1	1246	D	GEN	311
1672				MCW	@ERROR 5 - ILLEGAL EQUIVALENCE MIXING, STATEMENT @	G	4	1247	M Y82	GEN	311
1673				W		G	1	1251	2	GEN	311
1674				BCV	*&5	G	5	1252	B S61 @	GEN	311
1675				B	*&3	G	4	1257	B S63	GEN	311
1676				CC	1	G	2	1261	F 1	GEN	312
1677	13	46		SW	FXSW,FLTSW	G	7	1263	, Y27 Y28		312
1678	13	47		B	LOOP	G	4	1270	B 929		312
1679	13	48	CKSIM	MCW	X1,X3	G	7	1274	M 089 099		312
1680	13	49		BCE	ERR,0&X1,%	G	8	1281	B V05 0|0 %		312
1681	13	50		MCW	DRESS,X2	G	7	1289	M 852 094		312
1682	13	51		LCA	GM,1&X2	G	7	1296	L 839 0!1		313
1683	13	52		SBR	X2	G	4	1303	H 094		313
1684	13	53		MCW	COMP&3,X3	G	7	1307	M |09 099		313
1685	13	54		LCA	0&X3,0&X2	G	7	1314	L 0?0 0!0		313
1686	13	55		SBR	X2	G	4	1321	H 094		313
1687	13	56		MCW	PRED,X3	G	7	1325	M Y26 099		313
1688	13	57		LCA	PRED,0&X2	G	7	1332	L Y26 0!0		314
1689	13	58		LCA	BLNK5-2	G	4	1339	L Y85		314
1690	13	59		LCA	BLNK5-2	G	4	1343	L Y85		314
1691	13	60		SBR	PRED	G	4	1347	H Y26		314
1692	13	61		SBR	X2	G	4	1351	H 094		314
1693	13	62		LCA	BLNK5#5,0&X2	G	7	1355	L Y87 0!0		314
1694	13	63		LCA	@1@	G	4	1362	L Y88		314
1695	13	64		SBR	X2	G	4	1366	H 094		315
1696	13	65		MCW	PRED,6&X3	G	7	1370	M Y26 0?6		315
1697	13	66		BCE	NEWCD,086,	G	8	1377	B U35 086		315
1698	13	67	OLD CD	MN	0&X2	G	4	1385	D 0!0		315
1699	13	68		SAR	DRESS	G	4	1389	Q 852		315
1700	13	69	KLOBR	BCE	BSTAR,0,<	G	8	1393	B U46 000 <		315
1701	13	70		FQUIT		G				MACRO	
1702				CS	332	G	4	1401	/ 332	GEN	315
1703				CS		G	1	1405	/	GEN	316
1704				CC	1	G	2	1406	F 1	GEN	316
1705				MCW	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@,270	G	7	1408	M Z24 270	GEN	316
1706				W		G	1	1415	2	GEN	316
1707				CC	1	G	2	1416	F 1	GEN	316
1708				BCE	*&6,MONTOR,1	G	8	1418	B U31 769 1	GEN	316
1709				RWD	1	G	5	1426	U %U1 R	GEN	316

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1710				H	*-3	G	4	1431	. U31	GEN	317
1711	13	71	NEWCD	MCW	PRED,086	G	7	1435	M Y26 086		317
1712	13	72		B	OLD CD	G	4	1442	B T85		317
1713	13	73	BSTAR	BCE	*&5,0&X1,)	G	8	1446	B U58 0|0)		317
1714	13	74		B	EQBX1	G	4	1454	B U65		317
1715	13	75		SW	FXSW,FLTSW	G	7	1458	, Y27 Y28		317
1716	13	76	EQBX1	MN	0&X1	G	4	1465	D 0|0		317
1717	13	77		SBR	X1	G	4	1469	H 089		318
1718	13	78		SBR	COMP&3	G	4	1473	H |09		318
1719	13	79		BCE	CTU4,0&X1,,	G	8	1477	B W61 0|0 ,		318
1720	13	80		BCE	BSTAR,0&X1,}	G	8	1485	B U46 0|0 }	GMARK	318
1721	13	81		BCE	START,1&X1,}	G	8	1493	B /15 0|1 }	GMARK	318
1722	13	82		B	CMPSW	G	4	1501	B /77		318
1723	13	83	ERR	CS	299	G	4	1505	/ 299		319
1724	13	84		MCW	X3,X1	G	7	1509	M 099 089		319
1725	13	85		MCW	X2,HEX2#3	G	7	1516	M 094 Z27		319
1726	13	86		FFLIP	0&X1,248,X1,X2,,,%	G				MACRO	
1727				MN	248	G	4	1523	D 248	GEN	319
1728				MN		G	1	1527	D	GEN	319
1729				SAR	X2	G	4	1528	Q 094	GEN	319
1730				SBR	X1, 0&X1	G	7	1532	H 089 0|0	GEN	319
1731			)0K039	MCW	0&X1,)0L039#1	G	7	1539	M 0|0 Z28	GEN	320
1732				SAR	X1	G	4	1546	Q 089	GEN	320
1733				BCE	)0M039,)0L039, %	G	8	1550	B V73 Z28 %	GEN	320
1734				MCW	)0L039, 2&X2	G	7	1558	M Z28 0!2	GEN	320
1735				SBR	X2	G	4	1565	H 094	GEN	320
1736				B	)0K039	G	4	1569	B V39	GEN	320
1737			)0M039	EQU	*&1	G		1573		GEN	
1738	13	87		MCW	HEX2,X2	G	7	1573	M Z27 094		321
1739	13	88		SW	FAILSW	G	4	1580	, 184		321
1740	13	89		MN	WORK,240	G	7	1584	D 849 240		321
1741	13	90		CHAIN	2	G				MACRO	
1742				MN		G	1	1591	D	GEN	321
1743				MN		G	1	1592	D	GEN	321
1744	13	91		MCW	@ERROR 6 - UNDEFINED ARRAY, STATEMENT @	G	4	1593	M Z65		321
1745	13	92		FORMS		G				MACRO	
1746				BCV	*&5	G	5	1597	B W06 @	GEN	321
1747				B	*&3	G	4	1602	B W08	GEN	322
1748				CC	1	G	2	1606	F 1	GEN	322
1749	13	93		W		G	1	1608	2		322
1750	13	94	SCAN2	MN	0&X1	G	4	1609	D 0|0		322
1751	13	95		SAR	X1	G	4	1613	Q 089		322
1752	13	96		BCE	CTU4,0&X1,)	G	8	1617	B W61 0|0)		322
1753	13	97		FBCEQ	SYNER,0&X1,% ,}	G				MACRO	
1754				BCE	SYNER, 0&X1, %	G	8	1625	B 883 0|0 %	GEN	322
1755				BCE	SYNER, 0&X1, }	G	8	1633	B 883 0|0 }	GEN	323
1756	13	98		BCE	SCAN2,0&X1,,	G	8	1641	B W09 0|0 ,		323
1757	13	99		BWZ	SCAN2,0&X1,2	G	8	1649	V W09 0|0 2		323
1758	14	00		B	SYNER	G	4	1657	B 883		323
1759	14	01	CTU4	MN	0&X1	G	4	1661	D 0|0		323

CLOSE PAREN, GM

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1760	14	02		SAR	X1	G	4	1665	Q 089		323
1761	14	03		B	BSTAR	G	4	1669	B U46		324
1762	14	04	ISIN	BCE	SCAN2,0&X1,%	G	8	1673	B W09 0|0 %		324
1763	14	05		B	BSTAR	G	4	1681	B U46		324
1764	14	06	OUT1	SBR	A1&3,OUT	G	7	1685	H /29 X35		324
1765	14	07		SBR	A2&3,OUT	G	7	1692	H /45 X35		324
1766	14	08		SBR	FIND&3,NOTIN	G	7	1699	H 983 Y00		324
1767	14	09		SBR	A3&3,FOUND	G	7	1706	H |25 /81		325
1768	14	10		MCW	DRESS,HEX3	G	7	1713	M 852 876		325
1769	14	11		MCW	SAVE1#3,X1	G	7	1720	M Z68 089		325
1770	14	12		MCW	@B@,CMPSW	G	7	1727	M Y22 /77		325
1771	14	13		MCW	@N@,ISEQU	G	7	1734	M Z69 /58		325
1772	14	14		FENDX	C,,SVORG,START,SVORG,SYS1,EQUIV TWO	G				MACRO	
1773				BSS	333,C	G	5	1741	B 333 C	GEN	326
1774				SBR	INITAP&6,SVORG	G	7	1746	H 786 /81	GEN	326
1775				SBR	BCLEAR	G	4	1753	H 833	GEN	326
1776				SBR	INITXT&3,START	G	7	1757	H 796 /15	GEN	326
1777				SBR	TCLEAR,SYS1	G	7	1764	H 710 Z79	GEN	326
1778				LCA	@EQUIV TWO@,110	G	7	1771	L Z78 110	GEN	326
1779				B	MONTER	G	4	1778	B 700	GEN	327
1780	14	15		LTORG	*	G			1782		
				DCW	@ERROR 4 - EQUIVALENCE SYNTAX, STATEMENT @	G	40	1821		LIT	329
				DCW	@B@	G	1	1822		LIT	329
				DCW	@<@	G	1	1823		LIT	329
			PRED G	DCW	#03	G	3	1826		AREA	329
			FXSW G	DCW	#01	G	1	1827		AREA	329
			FLTSWG	DCW	#01	G	1	1828		AREA	330
				DCW	@IJKLMNOP@	G	6	1834		LIT	330
				DCW	@ERROR 5 - ILLEGAL EQUIVALENCE MIXING, STATEMENT @	G	48	1882		LIT	332
			BLNK5G	DCW	#05	G	5	1887		AREA	332
				DCW	@1@	G	1	1888		LIT	332
				DCW	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@	G	36	1924		LIT	333
			HEX2 G	DCW	#03	G	3	1927		AREA	333
			)0L039	DCW	#01	G	1	1928		AREA	334
				DCW	@ERROR 6 - UNDEFINED ARRAY, STATEMENT @	G	37	1965		LIT	334
			SAVE1G	DCW	#03	G	3	1968		AREA	335
				DCW	@N@	G	1	1969		LIT	335
				DCW	@EQUIV TWO@	G	9	1978		LIT	335
1781	14	16	SYS1	DCW	@}@	G	1	1979		GMARK	335
1782	14	17		XFR	INITL	G			B |34		336

SYSTEM GROUP MARK

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1783	14	18		JOB	1401 FORTRAN EQUIVALENCE PHASE 2	G					
1784	14	19	110	DCW	@EQUIV TWO@	G	9	0110			339
1785	14	20		ORG	SVORG	G			1181		
1786	14	21	FOUND	LCA	@00000@,TALLY	G	7	1181	L Z91 865		340
1787	14	22		NOP	000&X2	G	4	1188	N 0!0		340
1788	14	23		MCW		G	1	1192	M		340
1789	14	24		MCW		G	1	1193	M		340
1790	14	25		MCW		G	1	1194	M		340
1791	14	26		MCW		G	1	1195	M		340
1792	14	27		SAR	X2	G	4	1196	Q 094		340
1793	14	28		BAV	*&1	G	5	1200	B S05 Z		341
1794	14	29		S	ERCTR#3	G	4	1205	S Z94		341
1795	14	30	NEST	BCE	NOMO,001&X2, BLANK	G	8	1209	B S47 0!1		341
1796	14	31		A	000&X2,TALLY	G	7	1217	A 0!0 865		341
1797	14	32		MCW	003&X2,X2	G	7	1224	M 0!3 094		341
1798	14	33		A	&1,ERCTR	G	7	1231	A Z95 Z94		341
1799	14	34		BAV	MSG	G	5	1238	B Z51 Z		342
1800	14	35		B	NEST	G	4	1243	B S09		342
1801	14	36	NOMO	MCW	X2,TALLY&3	G	7	1247	M 094 868		342
1802	14	37		BCE	TURN,000&X1,%	G	8	1254	B V92 0!0 %		342
1803	14	38		A	@1@,TALLY	G	7	1262	A Z96 865		342
1804	14	39	FIGHT	MCW	HEX3,X3	G	7	1269	M 876 099		342
1805	14	40		LCA	CHAMP,ACCUM	G	7	1276	L 857 873		343
1806	14	41		S	TALLY,ACCUM	G	7	1283	S 865 873		343
1807	14	42		BWZ	CHUMP,ACCUM,K	G	8	1290	V W53 873 K		343
1808	14	43		LCA	TALLY&3,000&X3	G	7	1298	L 868 0?0		343
1809	14	44		SBR	HEX3	G	4	1305	H 876		343
1810	14	45	ANYMO	BCE	EQUIV,000&X1,, COMMA	G	8	1309	B /65 0!0 ,		344
1811	14	46		BCE	BPDWN,0&X1,)	G	8	1317	B T29 0!0)		344
1812	14	47		B	SYNER	G	4	1325	B 883		344
1813	14	48	BPDWN	MN	0&X1	G	4	1329	D 0!0		344
1814	14	49		MN		G	1	1333	D		344
1815	14	50		SAR	HEX1#3	G	4	1334	Q Z99		344
1816	14	51		MCW	HEX3,X3	G	7	1338	M 876 099		344
1817	14	52		LCA	@\$@,000&X3	G	7	1345	L !00 0?0		345
1818	14	53		MCW	DRESS,X3	G	7	1352	M 852 099		345
1819	14	54	MAIN	BCE	DONE,000&X3,\$	G	8	1359	B W83 0?0 \$		345
1820	14	55		MCW	0&X3,HOLD3#3	G	7	1367	M 0?0 !03		345
1821	14	56		C	CHAMP&3,HOLD3	G	7	1374	C 860 !03		345
1822	14	57		BE	OOPS1	G	5	1381	B Y28 S		346
1823	14	58	GT1	MCW	0&X3,X2	G	7	1386	M 0?0 094		346
1824	14	59		SAR	HEX3	G	4	1393	Q 876		346
1825	14	60		BCE	*&5,0&X2, BLANK	G	8	1397	B U09 0!0		346
1826	14	61		B	OOPS2	G	4	1405	B Z72		346
1827	14	62	PULL1	MCW	9&X2,X1	G	7	1409	M 0!9 089		346
1828	14	63	LOWER	MCW	006&X2,X3 AFTER TAIL OF NEW FOLLOWER	G	7	1416	M 0!6 099		347
1829	14	64		BCE	LAST,X3, BLANK	G	8	1423	B U47 099		347
1830	14	65		BCE	LAST,001&X3, BLANK	G	8	1431	B U47 0?1		347
1831	14	66		SBR	X2 TAIL OF NEW FOLLOWER	G	4	1439	H 094		347
1832	14	67		B	LOWER	G	4	1443	B U16		347

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1833	14	68	LAST	BCE	*&8,X3, BLANK	G	8	1447	B U62 099		347
1834	14	69		MCW	X1,9&X3	G	7	1455	M 089 0?9		348
1835	14	70		BCE	INISH,X1, BLANK	G	8	1462	B X24 089		348
1836	14	71		MCW	X3,6&X1	G	7	1470	M 099 0|6		348
1837	14	72	LINK	MCW	CHAMP&3,X1 HEAD OF LEADER	G	7	1477	M 860 089		348
1838	14	73		MCW	006&X1,006&X2	G	7	1484	M 0|6 0!6		348
1839	14	74		MCW	6&X1,X3	G	7	1491	M 0|6 099		349
1840	14	75		MCW	X2,9&X3	G	7	1498	M 094 0?9		349
1841	14	76		MCW	HEX3,X3	G	7	1505	M 876 099		349
1842	14	77		MCW	003&X3,X2 HEAD OF NEW FOLLOWER	G	7	1512	M 0?3 094		349
1843	14	78		MCW	X2,006&X1	G	7	1519	M 094 0|6		349
1844	14	79		MCW	X1,9&X2	G	7	1526	M 089 0!9		350
1845	14	80		MCW	CHAMP&3,003&X2	G	7	1533	M 860 0!3		350
1846	14	81		MCW		G	1	1540	M		350
1847	14	82		S	000&X3,000&X2	G	7	1541	S 0?0 0!0		350
1848	14	83		SAR	X3	G	4	1548	Q 099		350
1849	14	84		BW	MAIN,ERRSW	G	8	1552	V T59 J44 1		350
1850	14	85		SW	ERRSW	G	4	1560	, J44		350
1851	14	86		C	0&X2, SAVE5	G	7	1564	C 0!0 J43		351
1852	14	87		BE	ISRED	G	5	1571	B V84 S		351
1853	14	88		B	QVERR	G	4	1576	B Y67		351
1854	14	89		B	MAIN	G	4	1580	B T59		351
1855	14	90	ISRED	B	RDMSG	G	4	1584	B Z09		351
1856	14	91		B	MAIN	G	4	1588	B T59		351
1857	14	92	TURN	FFLIP	0&X1,SPACE-1,X1,X3,,,) MACRO	G					
1858			TURN	MN	SPACE-1	G	4	1592	D 877	GEN	351
1859				MN		G	1	1596	D	GEN	352
1860				SAR	X3	G	4	1597	Q 099	GEN	352
1861				SBR	X1, 0&X1	G	7	1601	H 089 0|0	GEN	352
1862			)OK043	MCW	0&X1,)0L043#1	G	7	1608	M 0|0 !04	GEN	352
1863				SAR	X1	G	4	1615	Q 089	GEN	352
1864				BCE	)0M043,)0L043,)	G	8	1619	B W42 !04)	GEN	352
1865				MCW	)0L043, 2&X3	G	7	1627	M !04 0?2	GEN	352
1866				SBR	X3	G	4	1634	H 099	GEN	353
1867				B	)0K043	G	4	1638	B W08	GEN	353
1868			)0M043	EQU	*&1	G		1642		GEN	
1869	14	93		A	001&X3,TALLY	G	7	1642	A 0?1 865		353
1870	14	94		B	FIGHT	G	4	1649	B S69		353
1871	14	95	CHUMP	BCE	CINCH,CHAMP, BLANK	G	8	1653	B W72 857		353
1872	14	96		LCA	CHAMP&3,000&X3	G	7	1661	L 860 0?0		353
1873	14	97		SBR	HEX3	G	4	1668	H 876		353
1874	14	98	CINCH	MCW	TALLY&3,CHAMP&3	G	7	1672	M 868 860		354
1875	14	99		B	ANYMO	G	4	1679	B T09		354
1876	15	00	DONE	MCW	HEX1,X1	G	7	1683	M Z99 089		354
1877	15	01		LCA	@ @,CHAMP	G	7	1690	L !09 857		354
1878	15	02		MCW	DRESS,HEX3	G	7	1697	M 852 876		354
1879	15	03		BCE	ISEQU,1&X1,,	G	8	1704	B /58 0|1 ,		355
1880	15	04		BCE	START,1&X1,}	G	8	1712	B /15 0|1 } GMARK		355
1881	15	05		B	SYNER	G	4	1720	B 883		355
1882	15	06	INISH	MCW	X3,FIRST	G	7	1724	M 099 086		355

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1883	15	07		B	LINK	G	4	1731	B U77		355
1884	15	08	OUT	MCW	DRESS,X3	G	7	1735	M 852 099		355
1885	15	09		MCW	GM, 001&X3	G	7	1742	M 839 0?1		356
1886	15	10		MCM	5&X1	G	4	1749	P 0|5		356
1887	15	11		MN		G	1	1753	D		356
1888	15	12		MN		G	1	1754	D		356
1889	15	13		SAR	X1	G	4	1755	Q 089		356
1890	15	14		FENDX	C,GM,,XBEGIN,XBEGIN,XBEGIN,SYS2,DIMEN TWO	G				MACRO	
1891				BSS	333,C	G	5	1759	B 333 C	GEN	356
1892				SBR	INITAP&6,XBEGIN	G	7	1764	H 786 838	GEN	356
1893				SBR	BCLEAR	G	4	1771	H 833	GEN	357
1894				SBR	INITXT&3,XBEGIN	G	7	1775	H 796 838	GEN	357
1895				SBR	TCLEAR,SYS2	G	7	1782	H 710 J45	GEN	357
1896				LCA	@DIMEN TWO@,110	G	7	1789	L !18 110	GEN	357
1897				B	MONTER	G	4	1796	B 700	GEN	357
1898	15	15	NOTIN	BCE	CTU3,0&X1,)	G	8	1800	B Y16 0|0)		357
1899	15	16		SBR	X1	G	4	1808	H 089		358
1900	15	17		B	NOTIN	G	4	1812	B Y00		358
1901	15	18	CTU3	MN	0&X1	G	4	1816	D 0|0		358
1902	15	19		SAR	X1	G	4	1820	Q 089		358
1903	15	20		B	EQUIV	G	4	1824	B /65		358
1904	15	21	OOPS1	MCW	0&X3, X2	G	7	1828	M 0?0 094		358
1905	15	22		SAR	X2	G	4	1835	Q 094		358
1906	15	23		C	0&X2, CHAMP	G	7	1839	C 0!0 857		359
1907	15	24		BE	REDUN	G	5	1846	B Y59 S		359
1908	15	25		B	QVERR	G	4	1851	B Y67		359
1909	15	26		B	GT1	G	4	1855	B T86		359
1910	15	27	REDUN	B	RDMSG	G	4	1859	B Z09		359
1911	15	28		B	GT1	G	4	1863	B T86		359
1912	15	29	QVERR	SBR	QVXT&3	G	4	1867	H Z08		359
1913	15	30		FTMSG	7,ILLEGAL EQUIVALENCE,WORK,20	G				MACRO	
1914				CS	332	G	4	1871	/ 332	GEN	360
1915				CS		G	1	1875	/	GEN	360
1916				SW	FAILSW	G	4	1876	, 184	GEN	360
1917				MN	WORK,224&20	G	7	1880	D 849 244	GEN	360
1918				MN		G	1	1887	D	GEN	360
1919				MN		G	1	1888	D	GEN	360
1920				MCW	@ERROR 7 - ILLEGAL EQUIVALENCE, STATEMENT @	G	4	1889	M !59	GEN	360
1921				W		G	1	1893	2	GEN	361
1922				BCV	*&5	G	5	1894	B Z03 @	GEN	361
1923				B	*&3	G	4	1899	B Z05	GEN	361
1924				CC	1	G	2	1903	F 1	GEN	361
1925	15	31	QVXT	B	0	G	4	1905	B 000		361
1926	15	32	RDMSG	SBR	RDXT&3	G	4	1909	H Z50		361
1927	15	33		FTMSG	8,REDUNDANT EQUIVALENCE,WORK,22	G				MACRO	
1928				CS	332	G	4	1913	/ 332	GEN	361
1929				CS		G	1	1917	/	GEN	362
1930				SW	FAILSW	G	4	1918	, 184	GEN	362
1931				MN	WORK,224&22	G	7	1922	D 849 246	GEN	362
1932				MN		G	1	1929	D	GEN	362

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1933				MN		G	1	1930	D	GEN	362
1934				MCW	@ERROR 8 - REDUNDANT EQUIVALENCE, STATEMENT @	G	4	1931	M J02	GEN	362
1935				W		G	1	1935	2	GEN	362
1936				BCV	*&5	G	5	1936	B Z45 @	GEN	363
1937				B	*&3	G	4	1941	B Z47	GEN	363
1938				CC	1	G	2	1945	F 1	GEN	363
1939	15	34	RDXT	B	0	G	4	1947	B 000		363
1940	15	35	MSG	MESSG	@CORRECT ERRORS INDICATED AND RESTART@,70,L,1	G				MACRO	
1941			MSG	CC	L	G	2	1951	F L	GEN	363
1942				CS	332	G	4	1953	/ 332	GEN	363
1943				CS		G	1	1957	/	GEN	363
1944				MCW	@CORRECT ERRORS INDICATED AND RESTART@,70&200	G	7	1958	M J38 270	GEN	364
1945				W		G	1	1965	2	GEN	364
1946				CC	1	G	2	1966	F 1	GEN	364
1947	15	36		H	*-3	G	4	1968	. Z68		364
1948	15	37	OOPS2	MCW	0&X2, SAVE5#5	G	7	1972	M 0!0 J43		364
1949	15	38		CW	ERRSW#1	G	4	1979	) J44		364
1950	15	39		B	PULL1	G	4	1983	B U09		364
1951	15	40		LTORG	*	G			1987		
				DCW	@00000@	G	5	1991		LIT	365
			ERCTRG	DCW	#03	G	3	1994		AREA	365
				DCW	&1	G	1	1995		LIT	365
				DCW	@1@	G	1	1996		LIT	365
			HEX1 G	DCW	#03	G	3	1999		AREA	365
				DCW	@\$@	G	1	2000		LIT	365
			HOLD3G	DCW	#03	G	3	2003		AREA	365
			)0L043	DCW	#01	G	1	2004		AREA	366
				DCW	@ @	G	5	2009		LIT	366
				DCW	@DIMEN TWO@	G	9	2018		LIT	366
				DCW	@ERROR 7 - ILLEGAL EQUIVALENCE, STATEMENT @	G	41	2059		LIT	368
				DCW	@ERROR 8 - REDUNDANT EQUIVALENCE, STATEMENT @	G	43	2102		LIT	370
				DCW	@CORRECT ERRORS INDICATED AND RESTART@	G	36	2138		LIT	371
			SAVE5G	DCW	#05	G	5	2143		AREA	372
			ERRSWG	DCW	#01	G	1	2144		AREA	372
1952	15	41	SYS2	DCW	@}@	G	1	2145		GMARK	372
1953	15	42		XFR	START	G			B /15		373

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1954	15	43		JOB	1401 FORTRAN DIMENSION PHASE TWO	G					
1955	15	44		FBEGN	DIMEN TWO,X1,,X2,R,X3,,H	G				MACRO	
1956				SFX	H	H				GEN	
1957			110	DCW	@DIMEN TWO@	H	9	0110		GEN	376
1958			X1	EQU	089	H		0089		GEN	
1959			X2	EQU	094	H		0094		GEN	
1960			094	DCW	000	H	3	0094		GEN	377
1961			096	DC	00	H	2	0096		GEN	377
1962			X3	EQU	099	H		0099		GEN	
1963	15	45	PARAM	EQU	PARAMA	H		0686			
1964	15	46		ORG	XBEGIN	H			0838		
1965	15	47	TSTIO	BCE	INITL,PARAM&10, BLANK	H	8	0838	B 891 696		378
1966	15	48		SBR	X2,AFORM	H	7	0846	H 094 !60		378
1967	15	49		BCE	MOVE,PARAM&10,A	H	8	0853	B !33 696 A		378
1968	15	50		SBR	X2,LIMIO	H	7	0861	H 094 !68		378
1969	15	51		BCE	MOVE,PARAM&10,L	H	8	0868	B !33 696 L		378
1970	15	52		SBR	X2,NOIO	H	7	0876	H 094 !76		379
1971	15	53		BCE	MOVE,PARAM&10,X	H	8	0883	B !33 696 X		379
1972	15	54	INITL	MCW	X3,083 ADDRESS OF TABLE-1	H	7	0891	M 099 083		379
1973	15	55		A	&2,PARAM&6	H	7	0898	A J30 692		379
1974	15	56		SW	GM	H	4	0905	, !85		379
1975	15	57		LCA	GM,001&X3	H	7	0909	L !85 0?1		380
1976	15	58		BCE	NIX,086, BLANK, NO DIMENSION	H	8	0916	B V98 086		380
1977	15	59		MCW	086,X3 ADDRESS OF LOWEST ARRAY	H	7	0924	M 086 099		380
1978	15	60	START	S	ACCUM#6	H	4	0931	S J36		380
1979	15	61		MCW	006&X3,LINK#3	H	7	0935	M 0?6 J39		380
1980	15	62		BCE	LEADR,001&X3, BLANK	H	8	0942	B T43 0?1		381
1981	15	63		MCW	003&X3,X2 ADDRESS OF LEADER IN X2	H	7	0950	M 0?3 094		381
1982	15	64		ZA	000&X3,PROD	H	7	0957	? 0?0 !91		381
1983	15	65		M	005&X2,PROD&3	H	7	0964	@ 0!5 !94		381
1984	15	66		A	000&X2,PROD&3	H	7	0971	A 0!0 !94		381
1985	15	67		MCW	PROD&3,000&X3	H	7	0978	M !94 0?0		382
1986	15	68	PACK	MCW	000&X3,ACCUM	H	7	0985	M 0?0 J36		382
1987	15	69		SAR	X3	H	4	0992	Q 099		382
1988	15	70		S	&1,ACCUM	H	7	0996	S J40 J36		382
1989	15	71		MCW	X3,X2	H	7	1003	M 099 094		382
1990	15	72	LOOP3	MCM	2&X2	H	4	1010	P 0!2		382
1991	15	73		MN		H	1	1014	D		382
1992	15	74		MN		H	1	1015	D		383
1993	15	75		SAR	X2	H	4	1016	Q 094		383
1994	15	76		BCE	LOOP3,1&X2,|	H	8	1020	B |10 0!1 |		383
1995	15	77		MCW	0&X2,BOX#1	H	7	1028	M 0!0 J41		383
1996	15	78		MCW	BOX,*&8	H	7	1035	M J41 |49		383
1997	15	79		BCE	FIX1,@IJKLMN@,0	H	8	1042	B T32 J47 0		383
1998	15	80		CHAIN	5	H				MACRO	
1999				BCE		H	1	1050	B	GEN	383
2000				BCE		H	1	1051	B	GEN	384
2001				BCE		H	1	1052	B	GEN	384
2002				BCE		H	1	1053	B	GEN	384
2003				BCE		H	1	1054	B	GEN	384

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
2004	15	81		A	PARAM&6,ACCUM	H	7	1055	A 692 J36		384
2005	15	82	CTU3	MCW	ACCUM,14&X3	H	7	1062	M J36 0A4		384
2006	15	83		MCW	ACCUM-3,X2	H	7	1069	M J33 094		384
2007	15	84		A	X2	H	4	1076	A 094		385
2008	15	85		MZ	ZONES&X2,012&X3	H	7	1080	Y !R8 0A2		385
2009	15	86		MZ	ZONES&1&X2,014&X3	H	7	1087	Y !R9 0A4		385
2010	15	87		ZA	@0@,PROD	H	7	1094	? J48 !91		385
2011	15	88		MCW	000&X3,PROD	H	7	1101	M 0?0 !91		385
2012	15	89		MCW	BLANK	H	4	1108	M !96		385
2013	15	90		SBR	MPLR&6	H	4	1112	H /39		386
2014	15	91		NOP	000&X3	H	4	1116	N 0?0		386
2015	15	92		MCW		H	1	1120	M		386
2016	15	93		SAR	X2	H	4	1121	Q 094		386
2017	15	94		BCE	NOCOL,000&X2,}	H	8	1125	B /47 0!0 }	GMARK	386
2018	15	95	MPLR	MCW	000&X2,000	H	7	1133	M 0!0 000		386
2019	15	96		M	000&X3,PROD	H	7	1140	@ 0?0 !91		386
2020	15	97	NOCOL	LCA	@ @,008&X3	H	7	1147	L J51 0?8		387
2021	15	98		MCW	X1,HOLD1#3	H	7	1154	M 089 J54		387
2022	15	99		MCW	14&X3,X1	H	7	1161	M 0A4 089		387
2023	16	00		MCW	BOX,*&8	H	7	1168	M J41 /82		387
2024	16	01		BCE	FIXED,@IJKLMNOP@,0	H	8	1175	B T65 J60 0		387
2025	16	02		CHAIN	5	H				MACRO	
2026				BCE		H	1	1183	B	GEN	387
2027				BCE		H	1	1184	B	GEN	387
2028				BCE		H	1	1185	B	GEN	388
2029				BCE		H	1	1186	B	GEN	388
2030				BCE		H	1	1187	B	GEN	388
2031	16	03		M	PARAM&6,PROD&3	H	7	1188	@ 692 !94		388
2032	16	04		MZ	@A@,007&X3	H	7	1195	Y J61 0?7		388
2033	16	05		MCW	PARAM&6,010&X3	H	7	1202	M 692 0A0		388
2034	16	06	BUMP	MZ	7&X3,13&X3	H	7	1209	Y 0?7 0A3		388
2035	16	07		MCW	HOLD1,X1	H	7	1216	M J54 089		389
2036	16	08		S	10&X3,ACCUM	H	7	1223	S 0A0 J36		389
2037	16	09		A	PROD&3,ACCUM	H	7	1230	A !94 J36		389
2038	16	10		FPAK	ACCUM,8&X3,X2	H				MACRO	
2039				INCLD	ZONES	H				MACRO	
2040				MN	ACCUM,8&X3	H	7	1237	D J36 0?8	GEN	389
2041				MN		H	1	1244	D	GEN	389
2042				MN		H	1	1245	D	GEN	389
2043				SAR	*&4	H	4	1246	Q S53	GEN	389
2044				MCW	0,X2	H	7	1250	M 000 094	GEN	390
2045				MCW	@0@	H	4	1257	M J48	GEN	390
2046				A	X2	H	4	1261	A 094	GEN	390
2047				MZ	ZONES&1&X2,8&X3	H	7	1265	Y !R9 0?8	GEN	390
2048				CW		H	1	1272	)	GEN	390
2049				SBR	*&7	H	4	1273	H S83	GEN	390
2050				MZ	ZONES&X2, 0	H	7	1277	Y !R8 000	GEN	390
2051	16	11		A	&1,ACCUM	H	7	1284	A J40 J36		391
2052	16	12		S	ACCUM,COUNT	H	7	1291	S J36 !49		391
2053	16	13		BWZ	ALTER,COUNT,K	H	8	1298	V T54 !49 K		391

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
2054	16	14		A	ACCUM,COUNT	H	7	1306	A J36 !49		391
2055	16	15	TEST	BCE	OUT,LINK, BLANK	H	8	1313	B T90 J39		391
2056	16	16		MCW	LINK,X3	H	7	1321	M J39 099		392
2057	16	17		B	START	H	4	1328	B 931		392
2058	16	18	FIX1	A	PARAM&4,ACCUM	H	7	1332	A 690 J36		392
2059	16	19		B	CTU3	H	4	1339	B |62		392
2060	16	20	LEADR	MCW	COUNT,000&X3	H	7	1343	M !49 0?0		392
2061	16	21		B	PACK	H	4	1350	B 985		392
2062	16	22	ALTER	MCW	ACCUM,COUNT	H	7	1354	M J36 !49		393
2063	16	23		B	TEST	H	4	1361	B T13		393
2064	16	24	FIXED	M	PARAM&4,PROD&3	H	7	1365	@ 690 !94		393
2065	16	25		MZ	@J@,007&X3	H	7	1372	Y J62 0?7		393
2066	16	26		MCW	PARAM&4,010&X3	H	7	1379	M 690 0A0		393
2067	16	27		B	BUMP	H	4	1386	B S09		393
2068	16	28	OUT	UNPAK	PARAM&2,RELOC	H				MACRO	
2069			OUT	S	)0M050#2	H	4	1390	S J64	GEN	394
2070				S	)0L050#2	H	4	1394	S J66	GEN	394
2071				MZ	PARAM&2,)0M050-1	H	7	1398	Y 688 J63	GEN	394
2072				MZ	PARAM&2-2,)0L050-1	H	7	1405	Y 686 J65	GEN	394
2073			)0J050	BWZ	)0K050,)0L050-1, 2	H	8	1412	V U31 J65 2	GEN	394
2074				A	@A0@,)0L050	H	7	1420	A J68 J66	GEN	394
2075				B	)0J050	H	4	1427	B U12	GEN	395
2076			)0K050	BWZ	)0P050,)0M050-1, 2	H	8	1431	V U50 J63 2	GEN	395
2077				A	@?4@,)0M050	H	7	1439	A J70 J64	GEN	395
2078				B	)0K050	H	4	1446	B U31	GEN	395
2079			)0P050	A	)0L050-1,)0M050	H	7	1450	A J65 J64	GEN	395
2080				MCW	PARAM&2,RELOC	H	7	1457	M 688 !81	GEN	395
2081				MCW	)0M050	H	4	1464	M J64	GEN	396
2082				ZA	RELOC	H	4	1468	? !81	GEN	396
2083				MZ	*-4, RELOC	H	7	1472	Y U74 !81	GEN	396
2084	16	29		S	COUNT,RELOC	H	7	1479	S !49 !81		396
2085	16	30		S	&1,RELOC	H	7	1486	S J40 !81		396
2086	16	31		BWZ	TUBIG,RELOC,K	H	8	1493	V V66 !81 K		396
2087	16	32		FPAK	RELOC,ADJST,X2	H				MACRO	
2088				INCLD	ZONES	H				MACRO	
2089				MN	RELOC,ADJST	H	7	1501	D !81 !84	GEN	397
2090				MN		H	1	1508	D	GEN	397
2091				MN		H	1	1509	D	GEN	397
2092				SAR	*&4	H	4	1510	Q V17	GEN	397
2093				MCW	0,X2	H	7	1514	M 000 094	GEN	397
2094				MCW	@0@	H	4	1521	M J48	GEN	397
2095				A	X2	H	4	1525	A 094	GEN	397
2096				MZ	ZONES&1&X2,ADJST	H	7	1529	Y !R9 !84	GEN	398
2097				CW		H	1	1536	)	GEN	398
2098				SBR	*&7	H	4	1537	H V47	GEN	398
2099				MZ	ZONES&X2, 0	H	7	1541	Y !R8 000	GEN	398
2100	16	33		MCW	NXTOP,CONLST	H	7	1548	M !52 194		398
2101	16	34		MA	ADJST,CONLST	H	7	1555	# !84 194		398
2102	16	35		B	SKIPF	H	4	1562	B W05		398
2103	16	36	TUBIG	BW	SKIPF,LGSW	H	8	1566	V W05 !95 1		399

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
2104	16	37		CS	332	H	4	1574	/ 332		399
2105	16	38		CS		H	1	1578	/		399
2106	16	39		MLC	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@,270	H	7	1579	M K06 270		399
2107	16	40		W		H	1	1586	2		399
2108	16	41		SW	FAILSW,LGSW	H	7	1587	, 184 !95		399
2109	16	42		S	RELOC	H	4	1594	S !81		399
2110	16	43	NIX	MCW	PARAM&2,CONLST	H	7	1598	M 688 194		400
2111	16	44	SKIPF	MCW	NXTOP,086	H	7	1605	M !52 086		400
2112	16	45	*DUMP	ARRAY	TABLE						
2113	16	46		CC	L	H	2	1612	F L		400
2114	16	47		FORMS		H				MACRO	
2115				BCV	*&5	H	5	1614	B W23 @	GEN	400
2116				B	*&3	H	4	1619	B W25	GEN	400
2117				CC	1	H	2	1623	F 1	GEN	400
2118	16	48		CS	332	H	4	1625	/ 332		400
2119	16	49		CS		H	1	1629	/		401
2120	16	50		MCW	@STORAGE ASSIGNMENT-ARRAYS & EQUATED VARIABLES@,247	H	7	1630	M K51 247		401
2121	16	51		W		H	1	1637	2		401
2122	16	52		CC	J	H	2	1638	F J		401
2123	16	53		MCW	083,X3	H	7	1640	M 083 099		401
2124	16	54	LOOPA	NOP	10&X3	H	4	1647	N 0A0		401
2125	16	55		MCM		H	1	1651	P		401
2126	16	56		SAR	X3	H	4	1652	Q 099		402
2127	16	57		CS	299	H	4	1656	/ 299		402
2128	16	58	TSDDUN	BCE	NODUN,0&X3, |	H	8	1660	B Z72 0?0 |		402
2129	16	59		BCE		H	1	1668	B		402
2130	16	60		MN	0&X3	H	4	1669	D 0?0		402
2131	16	61		MN		H	1	1673	D		402
2132	16	62		SAR	X3	H	4	1674	Q 099		402
2133	16	63		BCE	NORAY,0&X3, :	H	8	1678	B Z84 0?0 :		403
2134	16	64		FFLIP	0&X3,201,X3,X2,INC,WM	H				MACRO	
2135				MN	201	H	4	1686	D 201	GEN	403
2136				MN		H	1	1690	D	GEN	403
2137				SAR	X2	H	4	1691	Q 094	GEN	403
2138				SBR	X3, 0&X3	H	7	1695	H 099 0?0	GEN	403
2139			)0K053	MCW	0&X3,)0L053#1	H	7	1702	M 0?0 K52	GEN	403
2140				SAR	X3	H	4	1709	Q 099	GEN	403
2141				MCW	)0L053, 2&X2	H	7	1713	M K52 0!2	GEN	404
2142				SBR	X2	H	4	1720	H 094	GEN	404
2143				BW	)0M053, 1&X3	H	8	1724	V X36 0?1 1	GEN	404
2144				B	)0K053	H	4	1732	B X02	GEN	404
2145			)0M053	EQU	*&1	H		1736		GEN	
2146	16	65		C	0&X3	H	4	1736	C 0?0		404
2147	16	66		CHAIN	3	H				MACRO	
2148				C		H	1	1740	C	GEN	404
2149				C		H	1	1741	C	GEN	404
2150				C		H	1	1742	C	GEN	405
2151	16	67		SAR	X2	H	4	1743	Q 094		405
2152	16	68		A	RELOC,5&X2	H	7	1747	A !81 0!5		405
2153	16	69		MA	ADJUST,8&X2	H	7	1754	# !84 0!8		405

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
2154	16	70		MA	ADJST,14&X2	H	7	1761	# !84 0J4		405
2155	16	71		MCS	5&X2,218	H	7	1768	Z 0!5 218		405
2156	16	72		MCW	8&X2,234	H	7	1775	M 0!8 234		406
2157	16	73		MZ	BLANK,233	H	7	1782	Y !96 233		406
2158	16	74		SW	220	H	4	1789	, 220		406
2159	16	75		UNPAK	8&X2,224	H				MACRO	
2160				S	)0M054#2	H	4	1793	S K54	GEN	406
2161				S	)0L054#2	H	4	1797	S K56	GEN	406
2162				MZ	8&X2,)0M054-1	H	7	1801	Y 0!8 K53	GEN	406
2163				MZ	8&X2-2,)0L054-1	H	7	1808	Y 0!6 K55	GEN	407
2164			)0J054	BWZ	)0K054,)0L054-1, 2	H	8	1815	V Y34 K55 2	GEN	407
2165				A	@A0@,)0L054	H	7	1823	A J68 K56	GEN	407
2166				B	)0J054	H	4	1830	B Y15	GEN	407
2167			)0K054	BWZ	)0P054,)0M054-1, 2	H	8	1834	V Y53 K53 2	GEN	407
2168				A	@?4@,)0M054	H	7	1842	A J70 K54	GEN	408
2169				B	)0K054	H	4	1849	B Y34	GEN	408
2170			)0P054	A	)0L054-1,)0M054	H	7	1853	A K55 K54	GEN	408
2171				MCW	8&X2,224	H	7	1860	M 0!8 224	GEN	408
2172				MCW	)0M054	H	4	1867	M K54	GEN	408
2173				ZA	224	H	4	1871	? 224	GEN	408
2174				MZ	*-4, 224	H	7	1875	Y Y77 224	GEN	409
2175	16	76		MCW	@-@,219	H	7	1882	M K57 219		409
2176	16	77		FPACK	5&X2,230,X2	H				MACRO	
2177				INCLD	ZONES	H				MACRO	
2178				MN	5&X2,230	H	7	1889	D 0!5 230	GEN	409
2179				MN		H	1	1896	D	GEN	409
2180				MN		H	1	1897	D	GEN	409
2181				SAR	*&4	H	4	1898	Q Z05	GEN	409
2182				MCW	0,X2	H	7	1902	M 000 094	GEN	409
2183				MCW	@0@	H	4	1909	M J48	GEN	410
2184				A	X2	H	4	1913	A 094	GEN	410
2185				MZ	ZONES&1&X2,230	H	7	1917	Y !R9 230	GEN	410
2186				CW		H	1	1924	)	GEN	410
2187				SBR	*&7	H	4	1925	H Z35	GEN	410
2188				MZ	ZONES&X2, 0	H	7	1929	Y !R8 000	GEN	410
2189	16	78		FORMS		H				MACRO	
2190				BCV	*&5	H	5	1936	B Z45 @	GEN	410
2191				B	*&3	H	4	1941	B Z47	GEN	411
2192				CC	1	H	2	1945	F 1	GEN	411
2193	16	79		W		H	1	1947	2		411
2194	16	80		CS	299	H	4	1948	/ 299		411
2195	16	81		MCM	1&X3	H	4	1952	P 0?1		411
2196	16	82		SAR	X3	H	4	1956	Q 099		411
2197	16	83		BCE	EOJ,0&X3,	H	8	1960	B !08 0?0		411
2198	16	84		B	LOOPA	H	4	1968	B W47		412
2199	16	85	NODUN	MCM	0&X3	H	4	1972	P 0?0		412
2200	16	86		SBR	X3	H	4	1976	H 099		412
2201	16	87		B	TSDUN	H	4	1980	B W60		412
2202	16	88	NORAY	MESSG	@NO ARRAYS@,9	H				MACRO	
2203			NORAY	CS	332	H	4	1984	/ 332	GEN	412

BLANK

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
2204				CS		H	1	1988	/	GEN	412
2205				MCW	@NO ARRAYS@,9&200	H	7	1989	M K66 209	GEN	412
2206				W		H	1	1996	2	GEN	413
2207				BCV	*&5	H	5	1997	B !06 @	GEN	413
2208				B	*&3	H	4	2002	B !08	GEN	413
2209				CC	1	H	2	2006	F 1	GEN	413
2210	16	89	EOJ	CC	L	H	2	2008	F L		413
2211	16	90		FENDX	E,GM,,,,,SYS2,VARBL1	H				MACRO	
2212				BSS	333,E	H	5	2010	B 333 E	GEN	413
2213				SBR	TCLEAR,SYS2	H	7	2015	H 710 K73	GEN	413
2214				LCA	@VARBL1@,110	H	7	2022	L K72 110	GEN	414
2215				B	MONTER	H	4	2029	B 700	GEN	414
2216	16	91	MOVE	MCW	0&X2,NXTOP	H	7	2033	M 0!0 !52		414
2217	16	92		MCW		H	1	2040	M		414
2218	16	93		B	INITL	H	4	2041	B 891		414
2219	16	94	COUNT	DCW	04280	H	5	2049			414
2220	16	95	NXTOP	DSA	4279	H	3	2052	27Z		414
2221	16	96		DCW	04617	H	5	2057			415
2222	16	97	AFORM	DSA	4616	H	3	2060	61W		415
2223	16	98		DCW	02016	H	5	2065			415
2224	16	99	LIMIO	DSA	2015	H	3	2068	!15		415
2225	17	00		DCW	01697	H	5	2073			415
2226	17	01	NOIO	DSA	1696	H	3	2076	W96		415
2227	17	02	RELOC	DCW	00000	H	5	2081			415
2228	17	03	ADJST	DSA	000	H	3	2084	000		416
2229	17	04	GM	DC	@}@	H	1	2085		GMARK	416
2230	17	05	PROD	DCW	#6	H	6	2091			416
2231	17	06		DC	#3	H	3	2094			416
2232	17	07	LGSW	DC	#1	H	1	2095			416
2233	17	08	BLANK	DCW	#01	H	1	2096			416
2234	17	09		ORG	*	H			2097		
2235				LTORG	* WVS: AUTOCODER SHOULDN'T LOAD INCLD AT ORG	H			2097		
2236				DCW	#1	H	1	2097		GEN	416
2237			ZONES	DC	9	H	1	2098		GEN	416
2238				DCW	@9Z9R9I99ZZZRZIZ9RZRRRIR9IZIRIII@	H	31	2129		GEN	417
			*	LTORG*						GEN	
				DCW	&2	H	1	2130		LIT	417
			ACCUMH	DCW	#06	H	6	2136		AREA	417
			LINK H	DCW	#03	H	3	2139		AREA	418
				DCW	&1	H	1	2140		LIT	418
			BOX H	DCW	#01	H	1	2141		AREA	418
				DCW	@IJKLMN@	H	6	2147		LIT	418
				DCW	@0@	H	1	2148		LIT	418
				DCW	@ @	H	3	2151		LIT	418
			HOLD1H	DCW	#03	H	3	2154		AREA	418
				DCW	@IJKLMN@	H	6	2160		LIT	419
				DCW	@A@	H	1	2161		LIT	419
				DCW	@J@	H	1	2162		LIT	419
			)0M050	DCW	#02	H	2	2164		AREA	419
			)0L050	DCW	#02	H	2	2166		AREA	419

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
				DCW	@A0@	H	2	2168		LIT	419
				DCW	@?4@	H	2	2170		LIT	419
				DCW	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@	H	36	2206		LIT	420
				DCW	@STORAGE ASSIGNMENT-ARRAYS & EQUATED VARIABLES@	H	45	2251		LIT	422
			)0L053	DCW	#01	H	1	2252		AREA	422
			)0M054	DCW	#02	H	2	2254		AREA	422
			)0L054	DCW	#02	H	2	2256		AREA	422
				DCW	@-@	H	1	2257		LIT	422
				DCW	@NO ARRAYS@	H	9	2266		LIT	423
				DCW	@VARBL1@	H	6	2272		LIT	423
2239	17	10	SYS2	DCW	@}@	H	1	2273		GMARK	423
2240	17	11		XFR	TSTIO	H			B 838		424

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
2241	17	12		JOB	1401 FORTRAN VARIABLES PHASE ONE	H					
2242	17	13		FBEGN	VARBL 1,X1,,X2,R,X3,R,I	H				MACRO	
2243				SFX	I	I				GEN	
2244		110		DCW	@VARBL 1@	I	7	0110		GEN	427
2245		X1		EQU	089	I		0089		GEN	
2246		X2		EQU	094	I		0094		GEN	
2247		094		DCW	000	I	3	0094		GEN	428
2248		096		DC	00	I	2	0096		GEN	428
2249		X3		EQU	099	I		0099		GEN	
2250		099		DCW	000	I	3	0099		GEN	428
2251		100		DC	0	I	1	0100		GEN	428
2252	17	14		ORG	XBEGIN	I			0838		
2253	17	15			* REPLACE ARRAY NAMES IN SOURCE PROGRAM WITH ADDRESSES,						
2254	17	16			* PROCESS SUBSCRIPTS						
2255	17	17			* MARK SIMPLE VARIABLES WITH A DELTA FOR VARBL, PHASE 2						
2256	17	18	INITL	MCW	083,X2	I	7	0838	M 083 094		429
2257	17	19		MCW	X2,DRESS#3	I	7	0845	M 094 036		429
2258	17	20		SW	GM	I	4	0852	, N55		429
2259	17	21	START	BCE	OUT,000&X1, BLANK	I	8	0856	B J38 0|0		429
2260	17	22		LCA	000&X1,WORK#10	I	7	0864	L 0|0 046		429
2261	17	23		SAR	X1	I	4	0871	Q 089		429
2262	17	24		SBR	X3	I	4	0875	H 099		430
2263	17	25		LCA	WORK,000&X2	I	7	0879	L 046 0!0		430
2264	17	26		SBR	X2	I	4	0886	H 094		430
2265	17	27		BCE	FMAT,CODE-3,F	I	8	0890	B M70 043 F		430
2266	17	28		SW	WORK-3	I	4	0898	, 043		430
2267	17	29		MCW	CODE-3,*&8	I	7	0902	M 043 916		430
2268	17	30		BCE	LIST,@3L5UP61@,0 D-CHAR MODIFIED	I	8	0909	B J68 053 0		431
2269	17	31		CHAIN	6	I				MACRO	
2270				BCE		I	1	0917	B	GEN	431
2271				BCE		I	1	0918	B	GEN	431
2272				BCE		I	1	0919	B	GEN	431
2273				BCE		I	1	0920	B	GEN	431
2274				BCE		I	1	0921	B	GEN	431
2275				BCE		I	1	0922	B	GEN	431
2276	17	32		MCW	@N@,SWCHA	I	7	0923	M 054 956		432
2277	17	33		MCW	@N@,SWCHB	I	7	0930	M 054 T32		432
2278	17	34			* SEARCH FOR ALPHA CHARACTER WHICH MIGHT BE VARIABLE NAME						
2279	17	35	FIND	MCW	000&X1,BOX#1	I	7	0937	M 0|0 055		432
2280	17	36		SAR	X1	I	4	0944	Q 089		432
2281	17	37		BWZ	FIND,BOX,2 NO ZONE, NUMERICS AND EQUALS	I	8	0948	V 937 055 2		432
2282	17	38	SWCHA	NOP	RTPAR	I	4	0956	N K12		432
2283	17	39	MDIFY	MCW	BOX,*&8	I	7	0960	M 055 974		433
2284	17	40		BCE	FIND,@@*-&.%),@,0 D CHAR MODIFIED	I	8	0967	B 937 063 0		433
2285	17	41		CHAIN	7	I				MACRO	
2286				BCE		I	1	0975	B	GEN	433
2287				BCE		I	1	0976	B	GEN	433
2288				BCE		I	1	0977	B	GEN	433
2289				BCE		I	1	0978	B	GEN	433
2290				BCE		I	1	0979	B	GEN	433

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
2291				BCE		I	1	0980	B	GEN	434
2292				BCE		I	1	0981	B	GEN	434
2293	17	42		BCE	CKXPN,BOX,E	I	8	0982	B K99 O55 E		434
2294	17	43		BCE	SW1,BOX,}	I	8	0990	B /19 O55 }	GMARK	434
2295	17	44		MCW	2&X1,BOX2#1	I	7	0998	M 0|2 O64		434
2296	17	45		MCW	BOX2,*&8	I	7	1005	M O64 |19		434
2297	17	46		BCE	SW1,MRKRS,0	I	8	1012	B /19 N01 0		435
2298	17	47		CHAIN	8	I				MACRO	
2299				BCE		I	1	1020	B	GEN	435
2300				BCE		I	1	1021	B	GEN	435
2301				BCE		I	1	1022	B	GEN	435
2302				BCE		I	1	1023	B	GEN	435
2303				BCE		I	1	1024	B	GEN	435
2304				BCE		I	1	1025	B	GEN	435
2305				BCE		I	1	1026	B	GEN	436
2306				BCE		I	1	1027	B	GEN	436
2307	17	48		BCE	SW1,CODE-3,D	I	8	1028	B /19 O43 D		436
2308	17	49	VSERR	FMESG	9,VARIABLE SYNTAX,CODE,16	I				MACRO	
2309			VSERR	CS	332	I	4	1036	/ 332	GEN	436
2310				CS		I	1	1040	/	GEN	436
2311				SW	FAILSW	I	4	1041	, 184	GEN	436
2312				MN	CODE,224&16	I	7	1045	D O46 240	GEN	436
2313				MN		I	1	1052	D	GEN	437
2314				MN		I	1	1053	D	GEN	437
2315				MCW	@ERROR 9 - VARIABLE SYNTAX, STATEMENT @	I	4	1054	M P01	GEN	437
2316				W		I	1	1058	2	GEN	437
2317				BCV	*&5	I	5	1059	B |68 @	GEN	437
2318				B	*&3	I	4	1064	B |70	GEN	437
2319				CC	1	I	2	1068	F 1	GEN	437
2320	17	50		BW	SYN2R,SYN2S	I	8	1070	V Z38 N02 1		438
2321	17	51		SBR	X1,1&X1	I	7	1078	H 089 0|1		438
2322	17	52		SW	ERRSW	I	4	1085	, N04		438
2323	17	53		B	LIMIT	I	4	1089	B /71		438
2324	17	54	RTNA	LCA	@0?0@,0&X2	I	7	1093	L P04 0!0		438
2325	17	55		SBR	X2	I	4	1100	H 094		438
2326	17	56		SBR	X3,1&X1	I	7	1104	H 099 0|1		439
2327	17	57		SBR	X1	I	4	1111	H 089		439
2328	17	58		B	BOTM	I	4	1115	B U45		439
2329	17	59	SW1	SW	1&X1	I	4	1119	, 0|1		439
2330	17	60	*SHIFT	ALL	BUT VARIABLE						
2331	17	61		LCA	00&X3,000&X2	I	7	1123	L 0?0 0!0		439
2332	17	62		SBR	X2	I	4	1130	H 094		439
2333	17	63		CW	001&X1	I	4	1134	) 0|1		439
2334	17	64		SBR	X3,1&X1	I	7	1138	H 099 0|1		440
2335	17	65		SBR	KLOBR&6,2&X1	I	7	1145	H U74 0|2		440
2336	17	66		MCW	@;@	I	4	1152	M P05		440
2337	17	67		BCE	NOMO,BOX,}	I	8	1156	B K43 O55 }	GMARK	440
2338	17	68		ZA	&1,COUNT#2	I	7	1164	? P06 P08		440
2339	17	69	* SCAN TO	BOTTOM OF	VARIABLE						
2340	17	70	LIMIT	MCW	000&X1,BOX	I	7	1171	M 0|0 O55		441

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
2341	17	71		SAR	X1	I	4	1178	Q 089		441
2342	17	72		MCW	BOX, *&8	I	7	1182	M 055 /96		441
2343	17	73		BCE	LOOK,MRKRS,0	I	8	1189	B S16 N01 0		441
2344	17	74		CHAIN	8	I				MACRO	
2345				BCE		I	1	1197	B	GEN	441
2346				BCE		I	1	1198	B	GEN	441
2347				BCE		I	1	1199	B	GEN	441
2348				BCE		I	1	1200	B	GEN	442
2349				BCE		I	1	1201	B	GEN	442
2350				BCE		I	1	1202	B	GEN	442
2351				BCE		I	1	1203	B	GEN	442
2352				BCE		I	1	1204	B	GEN	442
2353	17	75		A	&1,COUNT	I	7	1205	A P06 P08		442
2354	17	76		B	LIMIT	I	4	1212	B /71		442
2355	17	77	LOOK	BW	RTNB,ERVBL	I	8	1216	V Z50 000 1		443
2356	17	78		BW	RTNA,ERRSW	I	8	1224	V |93 N04 1		443
2357	17	79		SW	002&X1	I	4	1232	, 0|2		443
2358	17	80		SAR	HEX1#3	I	4	1236	Q P11		443
2359	17	81	TLU	MCW	DRESS,X1 ADDRESS OF ARRAY TABLE	I	7	1240	M O36 089		443
2360	17	82		BCE	EQUAL,BOX,# EQUAL	I	8	1247	B K54 055 #		443
2361	17	83		*DETERMINE IF VARIABLE IS AN ARRAY NAME							
2362	17	84	LOOP	BCE	NOTIN,002&X1, BLANK	I	8	1255	B T81 0|2		444
2363	17	85	MCM2	MCM	2&X1	I	4	1263	P 0|2		444
2364	17	86		MN		I	1	1267	D		444
2365	17	87		MN		I	1	1268	D		444
2366	17	88		SAR	X1	I	4	1269	Q 089		444
2367	17	89		BCE	MCM2,1&X1,|	I	8	1273	B S63 0|1 |		444
2368	17	90		C	000&X3,00&X1	I	7	1281	C 0?0 0|0		444
2369	17	91		BU	LOOP	I	5	1288	B S55 /		445
2370	17	92		C	000&X1,000&X3	I	7	1293	C 0|0 0?0		445
2371	17	93		BU	LOOP	I	5	1300	B S55 /		445
2372	17	94	* MOVE	X1	POINTER TO HI ADDRESS OF VARIABLE						
2373	17	95		C	0&X1	I	4	1305	C 0|0		445
2374	17	96		CHAIN	3	I				MACRO	
2375				C		I	1	1309	C	GEN	445
2376				C		I	1	1310	C	GEN	445
2377				C		I	1	1311	C	GEN	445
2378	17	97		SAR	X1	I	4	1312	Q 089		446
2379	17	98	* CHECK TO	SEE IF THERE ARE ANY SUBSCRIPTS							
2380	17	99		BW	SBRAY,SUBSW	I	8	1316	V X43 N03 1		446
2381	18	00		BCE	SBSCR,BOX,% LEFT PAREN	I	8	1324	B V83 055 %		446
2382	18	01	SWCHB	NOP	ARRAY	I	4	1332	N T58		446
2383	18	02	TUNO	LCA	9&X1,1&X2	I	7	1336	L 0|9 0!1		446
2384	18	03		SBR	X2	I	4	1343	H 094		446
2385	18	04	RESTO	MCW	HEX1,X1	I	7	1347	M P11 089		447
2386	18	05		B	BOTM	I	4	1354	B U45		447
2387	18	06	ARRAY	LCA	9&X1,1&X2	I	7	1358	L 0|9 0!1		447
2388	18	07		LCA	3&X1	I	4	1365	L 0|3		447
2389	18	08		SBR	X2	I	4	1369	H 094		447
2390	18	09		CW	4&X2	I	4	1373	) 0!4		447

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
2391	18	10		B	RESTO	I	4	1377	B T47		447
2392	18	11	NOTIN	MCW	HEX1,X1	I	7	1381	M P11 089		448
2393	18	12		BW	LOD2,SUBSW	I	8	1388	V X67 N03 1		448
2394	18	13		BCE	RUFN,BOX,%	I	8	1396	B U87 055 %		448
2395	18	14		LCA	@_@,1&X2	I	7	1404	L P13 0!1		448
2396	18	15		SBR	X2	I	4	1411	H 094		448
2397	18	16	SLIDE	LCA	000&X3,001&X2	I	7	1415	L 0?0 0!1		449
2398	18	17		SBR	X2	I	4	1422	H 094		449
2399	18	18		CW	001&X2	I	4	1426	) 0!1		449
2400	18	19		S	&2,COUNT	I	7	1430	S P14 P08		449
2401	18	20		BWZ	LOAD1,COUNT,K	I	8	1437	V K80 P08 K		449
2402	18	21	BOTM	CW	001&X1	I	4	1445	) 0!1		449
2403	18	22		SAR	X3	I	4	1449	Q 099		449
2404	18	23	BOTM2	CW	1&X2	I	4	1453	) 0!1		450
2405	18	24		CW	FEWSW,ERRSW	I	7	1457	) N98 N04		450
2406	18	25		CW	TUSW	I	4	1464	) N99		450
2407	18	26	KLOBR	BCE	FIND,0,;	I	8	1468	B 937 000 ;		450
2408	18	27		MCW	@\$,X1	I	7	1476	M P15 089		450
2409	18	28		B	OUT	I	4	1483	B J38		450
2410	18	29	* IF	@SUBSCRIPTED@	VARIABLE NOT FUNCTION THEN ERROR						
2411	18	30	RUFN	BCE	SLIDE,1&X1,F	I	8	1487	B U15 0!1 F		451
2412	18	31		FTMSG	6,UNDEFINED ARRAY,CODE,16	I				MACRO	
2413				CS	332	I	4	1495	/ 332	GEN	451
2414				CS		I	1	1499	/	GEN	451
2415				SW	FAILSW	I	4	1500	, 184	GEN	451
2416				MN	CODE,224&16	I	7	1504	D 046 240	GEN	451
2417				MN		I	1	1511	D	GEN	451
2418				MN		I	1	1512	D	GEN	451
2419				MCW	@ERROR 6 - UNDEFINED ARRAY, STATEMENT @	I	4	1513	M P52	GEN	452
2420				W		I	1	1517	2	GEN	452
2421				BCV	*&5	I	5	1518	B V27 @	GEN	452
2422				B	*&3	I	4	1523	B V29	GEN	452
2423				CC	1	I	2	1527	F 1	GEN	452
2424	18	32		LCA	@%000@,1&X2	I	7	1529	L P56 0!1		452
2425	18	33		SBR	X2	I	4	1536	H 094		452
2426	18	34		MZ	VZONE,3&X2	I	7	1540	Y P68 0!3		453
2427	18	35	SKLOZ	BCE	FNDLZ,0&X1,)	I	8	1547	B V71 0!0)		453
2428	18	36		BCE	NOM01,0&X1,}	I	8	1555	B K35 0!0 }	GMARK	453
2429	18	37		SBR	X1	I	4	1563	H 089		453
2430	18	38		B	SKLOZ	I	4	1567	B V47		453
2431	18	39	FNDLZ	MN	0&X1	I	4	1571	D 0!0		453
2432	18	40		SAR	X1	I	4	1575	Q 089		453
2433	18	41		B	BOTM2	I	4	1579	B U53		454
2434	18	42	* PROCESS	SUBSCRIPTS							
2435	18	43	SBSCR	ZA	00&X1,ACCUM#6	I	7	1583	? 0!0 P62		454
2436	18	44		SAR	X3	I	4	1590	Q 099		454
2437	18	45		SW	VBLSW	I	4	1594	, P79		454
2438	18	46		ZA	000&X3,ROWS#5	I	7	1598	? 0?0 P67		454
2439	18	47		ZA	005&X1,WORDL	I	7	1605	? 0!5 N87		454
2440	18	48		S	&1,ACCUM	I	7	1612	S P06 P62		455

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
2441	18	49		MZ	8&X1,VZONE#1	I	7	1619	Y 0|8 P68		455
2442	18	50		MCW	HEX1,X1	I	7	1626	M P11 089		455
2443	18	51		LCA	@ \$@,001&X2	I	7	1633	L P70 0!1		455
2444	18	52		SBR	X2	I	4	1640	H 094		455
2445	18	53		MN	000&X1	I	4	1644	D 0|0		455
2446	18	54		SAR	X1	I	4	1648	Q 089		456
2447	18	55		SBR	X3	I	4	1652	H 099		456
2448	18	56	SPLIT	BWZ	CONST,000&X1,2 NO ZONE	I	8	1656	V Y51 0|0 2		456
2449	18	57	* PROCESS VARIABLE SUSCRIPTS								
2450	18	58		SBR	X1,2&X1	I	7	1664	H 089 0|2		456
2451	18	59		LCA	@*1@,000&X1	I	7	1671	L P72 0|0		456
2452	18	60		B	CONST	I	4	1678	B Y51		456
2453	18	61	DELTA	LCA	@ _@,001&X2 11-7-8 DELTA	I	7	1682	L P13 0!1		457
2454	18	62		SBR	X2	I	4	1689	H 094		457
2455	18	63	FEED	MCW	000&X1,BOX	I	7	1693	M 0|0 O55		457
2456	18	64		SAR	X1	I	4	1700	Q 089		457
2457	18	65		MCW	BOX,*&8	I	7	1704	M O55 X18		457
2458	18	66		BCE	XPAND,@-&),@,0	I	8	1711	B X26 P76 0		457
2459	18	67		B		I	1	1719	B		457
2460	18	68		B		I	1	1720	B		458
2461	18	69		B		I	1	1721	B		458
2462	18	70		B	FEED	I	4	1722	B W93		458
2463	18	71	XPAND	SW	2&X1	I	4	1726	, 0|2		458
2464	18	72		SW		I	1	1730	,		458
2465	18	73		SAR	HEX1	I	4	1731	Q P11		458
2466	18	74		SW	SUBSW	I	4	1735	, N03		458
2467	18	75		B	TLU	I	4	1739	B S40		459
2468	18	76	SBRAY	LCA	9&X1,2&X2	I	7	1743	L 0|9 0!2		459
2469	18	77		SBR	X2	I	4	1750	H 094		459
2470	18	78		CW	1&X2	I	4	1754	) 0!1		459
2471	18	79		MN		I	1	1758	D		459
2472	18	80		SAR	X2	I	4	1759	Q 094		459
2473	18	81		B	LDCOM	I	4	1763	B X83		459
2474	18	82	LOD2	LCA	000&X3,001&X2	I	7	1767	L 0?0 0!1		460
2475	18	83		LCA		I	1	1774	L		460
2476	18	84		SBR	X2	I	4	1775	H 094		460
2477	18	85		CW	2&X2	I	4	1779	) 0!2		460
2478	18	86	LDCOM	MCW	HEX1,X1	I	7	1783	M P11 089		460
2479	18	87		CW	2&X1	I	4	1790	) 0|2		460
2480	18	88		BCE	LOAD2,003&X2,_ DELTA 11-7-8	I	8	1794	B K65 0!3 -		460
2481	18	89		LCA	@ ,@,1&X2 BLANK COMMA	I	7	1802	L P78 0!1		461
2482	18	90		SBR	X2	I	4	1809	H 094		461
2483	18	91		CW	SUBSW	I	4	1813	) N03		461
2484	18	92		BCE	PUTC,BOX,, COMMA	I	8	1817	B M38 O55 ,		461
2485	18	93		BCE	PHEW,BOX,) RT PAREN	I	8	1825	B Z54 O55)		461
2486	18	94		MZ	BOX,WORDL	I	7	1833	Y O55 N87		461
2487	18	95	COPY	MCW	X1,X3	I	7	1840	M 089 099		462
2488	18	96		B	SPLIT	I	4	1847	B W56		462
2489	18	97	*FLIP CONSTANT								
2490	18	98	CONST	SBR	X3,VERSE-2	I	7	1851	H 099 N03		462

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
2491	18	99	TURN	MCW	000&X1,BOX	I	7	1858	M 0|0 055		462
2492	19	00		SAR	X1	I	4	1865	Q 089		462
2493	19	01		MCW	BOX,002&X3	I	7	1869	M 055 0?2		462
2494	19	02		SBR	X3	I	4	1876	H 099		463
2495	19	03		BWZ	TURN,000&X1,2	I	8	1880	V Y58 0|0 2		463
2496	19	04		SBR	X1	I	4	1888	H 089		463
2497	19	05		M	WORDL,007&X3	I	7	1892	@ N87 0?7		463
2498	19	06		BCE	VARBL,001&X1,*	I	8	1899	B Z92 0|1 *		463
2499	19	07		A	007&X3,ACCUM	I	7	1907	A 0?7 P62		463
2500	19	08		BCE	PHEW,1&X1,)	I	8	1914	B Z54 0|1)		464
2501	19	09		BCE	PUTC,1&X1,,	I	8	1922	B M38 0|1 ,		464
2502	19	10		SW	SYN2S	I	4	1930	, N02		464
2503	19	11		B	VSERR	I	4	1934	B |36		464
2504	19	12	SYN2R	CW	SYN2S	I	4	1938	) N02		464
2505	19	13		SW	ERVBL	I	4	1942	, 000		464
2506	19	14		B	LIMIT	I	4	1946	B /71		464
2507	19	15	RTNB	CW	ERVBL	I	4	1950	) 000		465
2508	19	16	* END	OF	PROCESS SUBSCRIPT						
2509	19	17	PHEW	NOP	ACCUM-7	I	4	1954	N P55		465
2510	19	18		SAR	X3	I	4	1958	Q 099		465
2511	19	19		SW	FEWSW	I	4	1962	, N98		465
2512	19	20		B	NORML	I	4	1966	B !29		465
2513	19	21	LDOLR	LCA	@\$,0&X2	I	7	1970	L P15 0!0		465
2514	19	22		SBR	X2	I	4	1977	H 094		465
2515	19	23		MZ	VZONE,3&X2	I	7	1981	Y P68 0!3		466
2516	19	24		B	BOTM	I	4	1988	B U45		466
2517	19	25	* PROCESS	VARIABLE	SUBSCRIPT						
2518	19	26	VARBL	CW	1&X1,VBLSW#1	I	7	1992	) 0|1 P79		466
2519	19	27		B	NORML	I	4	1999	B !29		466
2520	19	28		LCA	@ *,000&X2	I	7	2003	L P81 0!0		466
2521	19	29		SBR	X2	I	4	2010	H 094		466
2522	19	30		CW	001&X2	I	4	2014	) 0!1		466
2523	19	31		MCW	X1,X3	I	7	2018	M 089 099		467
2524	19	32		B	DELTA	I	4	2025	B W82		467
2525	19	33	NORML	SBR	EXIT&3	I	4	2029	H J37		467
2526	19	34	X3AND	EQU	007&X3	I		0007	X		
2527	19	35	SUBTR	S	&16000,X3AND	I	7	2033	S P86 0?7		467
2528	19	36		BWZ	SUBTR,X3AND,B	I	8	2040	V !33 0?7 B		467
2529	19	37	ADD	A	&16000,X3AND	I	7	2048	A P86 0?7		467
2530	19	38		BWZ	ADD,X3AND,K	I	8	2055	V !48 0?7 K		468
2531	19	39		BW	ALCON,FEWSW	I	8	2063	V L35 N98 1		468
2532	19	40	GET	SBR	X3,1&X3	I	7	2071	H 099 0?1		468
2533	19	41		BCE	GET,002&X3,0	I	8	2078	B !71 0?2 0		468
2534	19	42		SBR	X2,1&X2	I	7	2086	H 094 0!1		468
2535	19	43		LCA	BLNK6#6	I	4	2093	L P92		469
2536	19	44	TWIST	MCW	002&X3,BOX	I	7	2097	M 0?2 055		469
2537	19	45		SAR	X3	I	4	2104	Q 099		469
2538	19	46		MCW	BOX,000&X2	I	7	2108	M 055 0!0		469
2539	19	47		SBR	X2	I	4	2115	H 094		469
2540	19	48		BWZ	TWIST,001&X3,2	I	8	2119	V !97 0?1 2		469

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
2541	19	49		MZ	BLANK,1&X2	I	7	2127	Y P87 0!1		470
2542	19	50	EXIT	B	00	I	4	2134	B 000		470
2543	19	51	OUT	FENDX	C,,,PHSE2P,,ORGVB-1,VARBL TWO	I				MACRO	
2544			OUT	BSS	333,C	I	5	2138	B 333 C	GEN	470
2545				SBR	INITXT&3,PHSE2P	I	7	2143	H 796 849	GEN	470
2546				SBR	TCLEAR,ORGVB-1	I	7	2150	H 710 Q13	GEN	470
2547				LCA	@VARBL TWO@,110	I	7	2157	L Q01 110	GEN	470
2548				B	MONTER	I	4	2164	B 700	GEN	471
2549	19	52	LIST	MCW	@B@,SWCHA	I	7	2168	M Q02 956		471
2550	19	53		MCW	@B@,SWCHB	I	7	2175	M Q02 T32		471
2551	19	54		MCW	CODE-3,*&8	I	7	2182	M O43 J96		471
2552	19	55		BCE	TU,@1356@,0	I	8	2189	B K04 Q06 0		471
2553	19	56		CHAIN	3	I				MACRO	
2554				BCE		I	1	2197	B	GEN	471
2555				BCE		I	1	2198	B	GEN	471
2556				BCE		I	1	2199	B	GEN	472
2557	19	57		B	FIND	I	4	2200	B 937		472
2558	19	58	TU	SW	TUSW	I	4	2204	, N99		472
2559	19	59		B	FIND	I	4	2208	B 937		472
2560	19	60	RTPAR	BCE	PUTB,BOX,) RT PAREN	I	8	2212	B K24 O55)		472
2561	19	61		B	MDIFY	I	4	2220	B 960		472
2562	19	62	PUTB	MCW	@B@,SWCHB	I	7	2224	M Q02 T32		472
2563	19	63		B	MDIFY	I	4	2231	B 960		473
2564	19	64	NOMO1	MN	0&X2	I	4	2235	D 0!0		473
2565	19	65		SAR	X2	I	4	2239	Q 094		473
2566	19	66	NOMO	LCA	GM,001&X2	I	7	2243	L N55 0!1		473
2567	19	67		B	START	I	4	2250	B 856		473
2568	19	68	EQUAL	MCW	@N@,SWCHB	I	7	2254	M O54 T32		473
2569	19	69		B	LOOP	I	4	2261	B S55		473
2570	19	70	LOAD2	LCA	BLNK2,1&X2	I	7	2265	L P88 0!1		474
2571	19	71		SBR	X2	I	4	2272	H 094		474
2572	19	72		B	LDCOM	I	4	2276	B X83		474
2573	19	73	LOAD1	LCA	BLANK,0&X2	I	7	2280	L P87 0!0		474
2574	19	74		SBR	X2	I	4	2287	H 094		474
2575	19	75		CW	001&X2	I	4	2291	) 0!1		474
2576	19	76		B	BOTM	I	4	2295	B U45		474
2577	19	77	CKXPB	BCE	SW1,2&X1,#	I	8	2299	B /19 0|2 #		475
2578	19	78		BCE	SW1,2&X1,@	I	8	2307	B /19 0|2 @		475
2579	19	79		BWZ	FIND,2&X1,2	I	8	2315	V 937 0|2 2		475
2580	19	80		BCE	FIND,2&X1,.	I	8	2323	B 937 0|2 .		475
2581	19	81		B	SW1	I	4	2331	B /19		475
2582	19	82	ALCON	MCW	7&X3,HOLD5#5	I	7	2335	M 0?7 Q11		476
2583	19	83		FPAK	HOLD5,WORK3,X3	I				MACRO	
2584				INCLD	ZONES	I				MACRO	
2585				MN	HOLD5,WORK3	I	7	2342	D Q11 N97	GEN	476
2586				MN		I	1	2349	D	GEN	476
2587				MN		I	1	2350	D	GEN	476
2588				SAR	*&4	I	4	2351	Q L58	GEN	476
2589				MCW	0,X3	I	7	2355	M 000 099	GEN	476
2590				MCW	@0@	I	4	2362	M Q12	GEN	476

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
2591				A	X3	I	4	2366	A 099	GEN	477
2592				MZ	ZONES&1&X3,WORK3	I	7	2370	Y O?3 N97	GEN	477
2593				CW		I	1	2377	)	GEN	477
2594				SBR	*&7	I	4	2378	H L88	GEN	477
2595				MZ	ZONES&X3, 0	I	7	2382	Y O?2 000	GEN	477
2596	19	84		BCE	*&8,2&X2,,	I	8	2389	B M04 0!2 ,		477
2597	19	85		SBR	X2,1&X2	I	7	2397	H 094 0!1		477
2598	19	86		LCA	WORK3,1&X2	I	7	2404	L N97 0!1		478
2599	19	87		SBR	X2	I	4	2411	H 094		478
2600	19	88		CW	1&X2	I	4	2415	) 0!1		478
2601	19	89		MZ	VZONE,2&X2	I	7	2419	Y P68 0!2		478
2602	19	90		BW	BOTM,VBLSW	I	8	2426	V U45 P79 1		478
2603	19	91		B	LDOLR	I	4	2434	B Z70		478
2604	19	92	PUTC	MZ	*-4,WORDL	I	7	2438	Y M40 N87		479
2605	19	93		M	ROWS,WORDL&6	I	7	2445	@ P67 N93		479
2606	19	94		MCM	WORDL&2,WORDL-4	I	7	2452	P N89 N83		479
2607	19	95		S	WORDL,ACCUM	I	7	2459	S N87 P62		479
2608	19	96		B	COPY	I	4	2466	B Y40		479
2609	19	97	FMAT	LCA	0&X1,0&X2	I	7	2470	L 0!0 0!0		479
2610	19	98		SBR	X2	I	4	2477	H 094		480
2611	19	99		C	0&X1	I	4	2481	C 0!0		480
2612	20	00		SAR	X1	I	4	2485	Q 089		480
2613	20	01		B	START	I	4	2489	B 856		480
2614	20	02	MRKRS	DCW	@#,}*@&-%)@	I	9	2501	EQUALS,COMMA,GR MARK		480
2615	20	03	SYN2S	DC	#1	I	1	2502			480
2616	20	04	SUBSW	DC	#1	I	1	2503			480
2617	20	05	ERRSW	DC	#1	I	1	2504			480
2618	20	06	VERSE	DCW	#1	I	1	2505			480
2619	20	07		DC	#49	I	49	2554			482
2620	20	08	GM	DC	@}@	I	1	2555		GMARK	482
2621	20	09	KERR	DCW	@ERROR @	I	6	2561			482
2622	20	10	KVSTM	DCW	@ VARIABLE, STATEMENT @	I	21	2582			482
2623	20	11	WORDL	DCW	#5	I	5	2587			483
2624	20	12		DC	#6	I	6	2593			483
2625	20	13		DC	@|@ RECORD MARK	I	1	2594			483
2626	20	14	WORK3	DCW	#3	I	3	2597			483
2627	20	15	FEWSW	DC	#1	I	1	2598			483
2628	20	16	TUSW	DC	#1	I	1	2599			483
2629	20	17	ERVBL	DC	#1	I	1	2600			483
2630	20	18		ORG	*	I			2601		
2631				LTORG	* WVS: AUTOCODER SHOULDN'T LOAD INCLD AT ORG	I			2601		
2632				DCW	#1	I	1	2601		GEN	483
2633			ZONES	DC	9	I	1	2602		GEN	483
2634				DCW	@9Z9R9I99ZZZRZIZ9RZRRRIR9IZIRIII@	I	31	2633		GEN	484
			*	LTORG*						GEN	
			DRESSI	DCW	#03	I	3	2636		AREA	484
			WORK I	DCW	#10	I	10	2646		AREA	485
				DCW	@3L5UP61@	I	7	2653		LIT	485
				DCW	@N@	I	1	2654		LIT	485
			BOX I	DCW	#01	I	1	2655		AREA	485

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
				DCW	@@*-&.%),@	I	8	2663		LIT	485
			BOX2 I	DCW	#01	I	1	2664		AREA	485
				DCW	@ERROR 9 - VARIABLE SYNTAX, STATEMENT @	I	37	2701		LIT	486
				DCW	@0?0@	I	3	2704		LIT	487
				DCW	@;@	I	1	2705		LIT	487
				DCW	&1	I	1	2706		LIT	487
			COUNTI	DCW	#02	I	2	2708		AREA	487
			HEX1 I	DCW	#03	I	3	2711		AREA	487
				DCW	@ _@	I	2	2713		LIT	487
				DCW	&2	I	1	2714		LIT	487
				DCW	@\$@	I	1	2715		LIT	488
				DCW	@ERROR 6 - UNDEFINED ARRAY, STATEMENT @	I	37	2752		LIT	488
				DCW	@%000@	I	4	2756		LIT	489
			ACCUMI	DCW	#06	I	6	2762		AREA	489
			ROWS I	DCW	#05	I	5	2767		AREA	489
			VZONEI	DCW	#01	I	1	2768		AREA	489
				DCW	@ \$@	I	2	2770		LIT	489
				DCW	@*1@	I	2	2772		LIT	489
				DCW	@-&),@	I	4	2776		LIT	489
				DCW	@ ,@	I	2	2778		LIT	490
			VBLSWI	DCW	#01	I	1	2779		AREA	490
				DCW	@ *@	I	2	2781		LIT	490
				DCW	&16000	I	5	2786		LIT	490
			BLNK6I	DCW	#06	I	6	2792		AREA	490
				DCW	@VARBL TWO@	I	9	2801		LIT	490
				DCW	@B@	I	1	2802		LIT	490
				DCW	@1356@	I	4	2806		LIT	491
			HOLD5I	DCW	#05	I	5	2811		AREA	491
				DCW	@0@	I	1	2812		LIT	491
2635	20	19	CODE	EQU	WORK	I		2646			
2636	20	20	BLANK	EQU	BLNK6-5	I		2787			
2637	20	21	BLNK2	EQU	BLNK6-4	I		2788			
2638	20	22		DCW	@}@	I	1	2813		GMARK	491
2639	20	23	ORGVB	EQU	*&1	I		2814			
2640	20	24	XFR		INITL	I			B 838		492

SYSTEM GROUP MARK

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
2641	20	25		JOB	1401 FORTRAN VARIABLES PHASE TWO	I					
2642	20	26		* MOVES THE	SOURCE PROGRAM UP TO SAUCE AND COMPUTES PARAMETERS FOR						
2643	20	27		* THE	RANDOMIZER IN VARBL. PHASE 3						
2644	20	28		FBEGN	VARBL TWO,X1,R,X2,,X3,R,P	I				MACRO	
2645				SFX	P	P				GEN	
2646			110	DCW	@VARBL TWO@	P	9	0110		GEN	495
2647			X1	EQU	089	P		0089		GEN	
2648			089	DCW	000	P	3	0089		GEN	496
2649			091	DC	00	P	2	0091		GEN	496
2650			X2	EQU	094	P		0094		GEN	
2651			X3	EQU	099	P		0099		GEN	
2652			099	DCW	000	P	3	0099		GEN	497
2653			100	DC	0	P	1	0100		GEN	497
2654	20	29	SAUCE	EQU	SAUCEK	P		2700			
2655	20	30		ORG	XBEGIN	P			0838		
2656	20	31	BASE	DCW	#3	P	3	0840			498
2657	20	32	MAX	DCW	#4	P	4	0844			498
2658	20	33		DC	#1	P	1	0845			498
2659	20	34	UPLIM	DCW	#3	P	3	0848			498
2660	20	35	NXBTM	EQU	083	P		0083			
2661	20	36	PHSE2	MCW	NXBTM,X3	P	7	0849	M 083 099		498
2662	20	37		BCE	FQUIT,X1,\$	P	8	0856	B /97 089 \$		498
2663	20	38		SBR	NOMO#3,2&X3	P	7	0864	H T42 0?2		498
2664	20	39		MCW	X2,X3	P	7	0871	M 094 099		499
2665	20	40	CLR1	CS	000&X3	P	4	0878	/ 0?0		499
2666	20	41		SBR	X3	P	4	0882	H 099		499
2667	20	42		C	X3,&SAUCE-1	P	7	0886	C 099 T45		499
2668	20	43		BU	CLR1	P	5	0893	B 878 /		499
2669	20	44		SBR	X1,SAUCE-1	P	7	0898	H 089 099		499
2670	20	45		* SHIFT	SOURCE PROGRAM UP TO COMPILER PROGRAM						
2671	20	46		MOVUP	X2,X1,NOMO,ALL,|	P				MACRO	
2672				MN	0&X1	P	4	0905	D 0|0	GEN	499
2673				SAR	X1	P	4	0909	Q 089	GEN	500
2674			)0J065	MCM	0&X2	P	4	0913	P 0!0	GEN	500
2675				SAR	)0L065&6	P	4	0917	Q 939	GEN	500
2676				MCM	0&X2,1&X1	P	7	0921	P 0!0 0|1	GEN	500
2677				MN		P	1	0928	D	GEN	500
2678				SBR	X1	P	4	0929	H 089	GEN	500
2679			)0L065	SBR	X2,0	P	7	0933	H 094 000	GEN	500
2680				BCE	)0J065,0&X1,|	P	8	0940	B 913 0|0 |	GEN	501
2681				MN	0&X2	P	4	0948	D 0!0	GEN	501
2682				CW		P	1	0952	)	GEN	501
2683				SW	0&X1	P	4	0953	, 0|0	GEN	501
2684				C	X2,NOMO	P	7	0957	C 094 T42	GEN	501
2685				BU	)0J065	P	5	0964	B 913 /	GEN	501
2686	20	47		CW	0&X2	P	4	0969	) 0!0		501
2687	20	48		CW		P	1	0973	)		502
2688	20	49		SBR	BASE,2&X1	P	7	0974	H 840 0|2		502
2689	20	50		MN	TWO9,BASE	P	7	0981	D T07 840		502
2690	20	51		MN		P	1	0988	D		502

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
2691	20	52		MCW	PARAM&2,X3	P	7	0989	M 688 099		502
2692	20	53		MN	000&X3	P	4	0996	D 0?0		502
2693	20	54		SW		P	1	1000	,		502
2694	20	55		SAR	NXB TM	P	4	1001	Q 083		503
2695	20	56		SBR	X3	P	4	1005	H 099		503
2696	20	57									
2697	20	58	* CLR2	CS	000&X3	P	4	1009	/ 0?0		503
2698	20	59		SBR	X3	P	4	1013	H 099		503
2699	20	60		C	X3,BASE	P	7	1017	C 099 840		503
2700	20	61		BU	CLR2	P	5	1024	B |09 /		503
2701	20	62		MCW	@<@,0&X3 12-6-8	P	7	1029	M T46 0?0		503
2702	20	63	* DIVIDE REST OF CORE FOR TABLES		RATIO 3 TO 7						
2703	20	64		MCW	NXB TM,LOC	P	7	1036	M 083 T05		504
2704	20	65		B	UNPAK	P	4	1043	B S31		504
2705	20	66		MCW	NUM#5,MAX&1	P	7	1047	M T51 845		504
2706	20	67		MCW	BASE,LOC	P	7	1054	M 840 T05		504
2707	20	68		B	UNPAK	P	4	1061	B S31		504
2708	20	69		S	NUM,MAX&1	P	7	1065	S T51 845		504
2709	20	70		A	MAX,ACCUM#6	P	7	1072	A 844 T57		505
2710	20	71		A	ACCUM	P	4	1079	A T57		505
2711	20	72		A	MAX,ACCUM 3*MAX IN ACCUM	P	7	1083	A 844 T57		505
2712	20	73	* 1/10 OF NXBTM-BASE IN MAX								
2713	20	74		A	NUM,ACCUM	P	7	1090	A T51 T57		505
2714	20	75		MCW	ACCUM-3,X3	P	7	1097	M T54 099		505
2715	20	76		A	X3	P	4	1104	A 099		505
2716	20	77		MZ	ZONES&X3,ACCUM-2	P	7	1108	Y T?8 T55		506
2717	20	78		MZ	ZONES&1&X3,ACCUM	P	7	1115	Y T?9 T57		506
2718	20	79		MCW	ACCUM,X3	P	7	1122	M T57 099		506
2719	20	80		SW	002&X3	P	4	1129	, 0?2		506
2720	20	81		MCW	@<@ 12-6-8	P	4	1133	M T46		506
2721	20	82		SBR	UPLIM	P	4	1137	H 848		506
2722	20	83		MCW	X1,X2	P	7	1141	M 089 094		507
2723	20	84		MN	0&X2	P	4	1148	D 0!0		507
2724	20	85		SAR	X1	P	4	1152	Q 089		507
2725	20	86		FENDX	C,, ,WORK5J-4,PHSE3J,WORK5J,SYS2,VARBL TRI	P				MACRO	
2726				BSS	333,C	P	5	1156	B 333 C	GEN	507
2727				SBR	INITAP&6,WORK5J-4	P	7	1161	H 786 849	GEN	507
2728				SBR	BCLEAR	P	4	1168	H 833	GEN	507
2729				SBR	INITXT&3,PHSE3J	P	7	1172	H 796 857	GEN	507
2730				SBR	TCLEAR,SYS2	P	7	1179	H 710 U05	GEN	508
2731				LCA	@VARBL TRI@,110	P	7	1186	L T66 110	GEN	508
2732				B	MONTER	P	4	1193	B 700	GEN	508
2733	20	87	FQUIT	FQUIT		P				MACRO	
2734			FQUIT	CS	332	P	4	1197	/ 332	GEN	508
2735				CS		P	1	1201	/	GEN	508
2736				CC	1	P	2	1202	F 1	GEN	508
2737				MCW	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@,270	P	7	1204	M U02 270	GEN	508
2738				W		P	1	1211	2	GEN	509
2739				CC	1	P	2	1212	F 1	GEN	509
2740				BCE	*&6,MONTOR,1	P	8	1214	B S27 769 1	GEN	509

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
2741				RWD	1	P	5	1222	U %U1 R	GEN	509
2742				H	*-3	P	4	1227	. S27	GEN	509
2743	20	88	UNPAK	SBR	EXIT&3	P	4	1231	H T00		509
2744	20	89		MN	LOC,NUM	P	7	1235	D T05 T51		509
2745	20	90		MN		P	1	1242	D		510
2746	20	91		MN		P	1	1243	D		510
2747	20	92		MCW		P	1	1244	M		510
2748	20	93		MZ	LOC,TWO9	P	7	1245	Y T05 T07		510
2749	20	94		MZ	LOC-2,TWO9-1	P	7	1252	Y T03 T06		510
2750	20	95		NOP	ZONES-3	P	4	1259	N T05		510
2751	20	96		SAR	X3	P	4	1263	Q 099		510
2752	20	97	COMP	C	004&X3,TWO9	P	7	1267	C 0?4 T07		511
2753	20	98		SAR	X3	P	4	1274	Q 099		511
2754	20	99		A	&1,NUM-3	P	7	1278	A U03 T48		511
2755	21	00		BU	COMP	P	5	1285	B S67 /		511
2756	21	01		MZ	BLANK#1,NUM-3	P	7	1290	Y U04 T48		511
2757	21	02	EXIT	B	000	P	4	1297	B 000		511
2758	21	03	LOC	DCW	@0J @	P	5	1305			511
2759	21	04	TWO9	DCW	@99@	P	2	1307			512
2760	21	05	ZONES	DC	@9@	P	1	1308			512
2761	21	06		DC	@9Z9R9I99ZZZRZIZ9RZRRRIR9IZIRIII@	P	31	1339			512
2762	21	07		LTORG	*	P			1340		
			NOMO P	DCW	#03	P	3	1342		AREA	512
				DCW	&SAUCEP-1	P	3	1345	099	ADCON	513
				DCW	@<@	P	1	1346		LIT	513
			NUM P	DCW	#05	P	5	1351		AREA	513
			ACCUMP	DCW	#06	P	6	1357		AREA	513
				DCW	@VARBL TRI@	P	9	1366		LIT	513
				DCW	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@	P	36	1402		LIT	514
				DCW	&1	P	1	1403		LIT	514
			BLANKP	DCW	#01	P	1	1404		AREA	514
2763	21	08		LTORG	*	P			1405		
2764	21	09	SYS2	DCW	@}@	P	1	1405		GMARK	514
2765	21	10		XFR	PHSE2	P			B 849		516

SYSTEM GROUP MARK

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
2766	21	11		JOB	1401 FORTRAN VARIABLES PHASE THREE	P					
2767	21	12		FBEGN	VARBL TRI,X1,,X2,,X3,R,J	P				MACRO	
2768				SFX	J	J				GEN	
2769		110		DCW	@VARBL TRI@	J	9	0110		GEN	519
2770		X1		EQU	089	J		0089		GEN	
2771		X2		EQU	094	J		0094		GEN	
2772		X3		EQU	099	J		0099		GEN	
2773		099		DCW	000	J	3	0099		GEN	520
2774		100		DC	0	J	1	0100		GEN	520
2775	21	13		* DEFINES VARIABLES IN SOURCE PROGRAM							
2776	21	14		ORG	XBEGIN	J			0838		
2777	21	15	BASE	DS	3	J		0840			
2778	21	16	MAX	DS	4	J		0844			
2779	21	17	UPLIM	DS	4	J		0848			
2780	21	18	NXTOP	EQU	086	J		0086			
2781	21	19	NXBTM	EQU	083	J		0083			
2782	21	20	WORK5	DCW	#5	J	5	0853			521
2783	21	21	SAVE2	DCW	#3	J	3	0856			521
2784	21	22	PHSE3	MESSG	@STORAGE ASSIGNMENT - SIMPLE VARIABLES@,37,L,J	J				MACRO	
2785		PHSE3	CC	L		J	2	0857	F L	GEN	521
2786			CS	332		J	4	0859	/ 332	GEN	521
2787			CS			J	1	0863	/	GEN	521
2788			MCW	@STORAGE ASSIGNMENT - SIMPLE VARIABLES@,37&200		J	7	0864	M |47 237	GEN	521
2789			W			J	1	0871	2	GEN	521
2790			CC	J		J	2	0872	F J	GEN	522
2791	21	23	MCW	@ @,SAUCEK-1	BLANK	J	7	0874	M |48 099		522
2792	21	24	MCW	X2,SAVE2		J	7	0881	M 094 856		522
2793	21	25	UNPAK	NXTOP,WORK5		J				MACRO	
2794			S	)0M070#2		J	4	0888	S |50	GEN	522
2795			S	)0L070#2		J	4	0892	S |52	GEN	522
2796			MZ	NXTOP,)0M070-1		J	7	0896	Y 086 |49	GEN	522
2797			MZ	NXTOP-2,)0L070-1		J	7	0903	Y 084 51	GEN	522
2798		)0J070	BWZ	)0K070,)0L070-1, 2		J	8	0910	V 929 |51 2	GEN	523
2799			A	@A0@,)0L070		J	7	0918	A |54 |52	GEN	523
2800			B	)0J070		J	4	0925	B 910	GEN	523
2801		)0K070	BWZ	)0P070,)0M070-1, 2		J	8	0929	V 948 |49 2	GEN	523
2802			A	@?4@,)0M070		J	7	0937	A |56 |50	GEN	523
2803			B	)0K070		J	4	0944	B 929	GEN	523
2804		)0P070	A	)0L070-1,)0M070		J	7	0948	A |51 |50	GEN	524
2805			MCW	NXTOP,WORK5		J	7	0955	M 086 853	GEN	524
2806			MCW	)0M070		J	4	0962	M |50	GEN	524
2807			ZA	WORK5		J	4	0966	? 853	GEN	524
2808			MZ	*-4, WORK5		J	7	0970	Y 972 853	GEN	524
2809	21	26	FENDX	C,,PHSE3,,PHSE3,SAUCEK-1,VARBL QUAD		J				MACRO	
2810			BSS	333,C		J	5	0977	B 333 C	GEN	524
2811			SBR	INITAP&6,PHSE3		J	7	0982	H 786 857	GEN	525
2812			SBR	BCLEAR		J	4	0989	H 833	GEN	525
2813			SBR	TCLEAR,SAUCEK-1		J	7	0993	H 710 099	GEN	525
2814			LCA	@VARBL QUAD@,110		J	7	1000	L |66 110	GEN	525
2815			B	MONTER		J	4	1007	B 700	GEN	525

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
2816	21	27		LTORG	*	J			1011		
				DCW	@STORAGE ASSIGNMENT - SIMPLE VARIABLES@	J	37	1047		LIT	526
				DCW	@ @	J	1	1048		LIT	526
			)0M070	DCW	#02	J	2	1050		AREA	527
			)0L070	DCW	#02	J	2	1052		AREA	527
				DCW	@A0@	J	2	1054		LIT	527
				DCW	@?4@	J	2	1056		LIT	527
				DCW	@VARBL QUAD@	J	10	1066		LIT	527
2817	21	28		DCW	@}@	J	1	1067		GMARK	527
2818	21	29		XFR	PHSE3	J			B 857		528

SYSTEM GROUP MARK

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
2819	21	30		JOB	1401 FORTRAN VARIABLES PHASE FOUR	J					
2820	21	31	110	DCW	@VARBL QUAD@	J	10	0110			531
2821	21	32		ORG	PHSE3	J			0857		
2822	21	33	BEGIN	MCW	BASE,BUMP&3	J	7	0857	M 840 /89		532
2823	21	34		MZ	@S@,BUMP&2	J	7	0864	Y K82 /88		532
2824	21	35		SW	GM	J	4	0871	, M93		532
2825	21	36		CW	ISFSW	J	4	0875	) L10		532
2826	21	37	START	BCE	OUT,000&X1,	J	8	0879	B !57 0|0		532
2827	21	38		MCW	000&X1,CODE#4	J	7	0887	M 0|0 K86		532
2828	21	39		LCA	000&X1,WORK#10	J	7	0894	L 0|0 K96		533
2829	21	40		SAR	X1	J	4	0901	Q 089		533
2830	21	41		SBR	X3	J	4	0905	H 099		533
2831	21	42		LCA	WORK,000&X2	J	7	0909	L K96 0!0		533
2832	21	43		SBR	X2	J	4	0916	H 094		533
2833	21	44		BCE	PASS,CODE-3,/	J	8	0920	B J63 K83 /		533
2834	21	45		BCE	PASS,CODE-3,F	J	8	0928	B J63 K83 F		534
2835	21	46		MCW	@01@,FNCTR#2	J	7	0936	M K98 L00		534
2836	21	47	* DETERMINE	IF IN RUN ONE OF RUN TWO							
2837	21	48	SWCHE	B	TEST	J	4	0943	B W71		534
2838	21	49	FIND2	BCE	SEEK,000&X1, _	J	8	0947	B 981 0|0 _		534
2839	21	50		CHAIN	5	J				MACRO	
2840				BCE		J	1	0955	B	GEN	534
2841				BCE		J	1	0956	B	GEN	534
2842				BCE		J	1	0957	B	GEN	534
2843				BCE		J	1	0958	B	GEN	535
2844				BCE		J	1	0959	B	GEN	535
2845	21	51		BCE	PASS,000&X1,}	J	8	0960	B J63 0|0 }	GMARK	535
2846	21	52		CHAIN	5	J				MACRO	
2847				BCE		J	1	0968	B	GEN	535
2848				BCE		J	1	0969	B	GEN	535
2849				BCE		J	1	0970	B	GEN	535
2850				BCE		J	1	0971	B	GEN	535
2851				BCE		J	1	0972	B	GEN	536
2852	21	53		SBR	X1	J	4	0973	H 089		536
2853	21	54		B	FIND2	J	4	0977	B 947		536
2854	21	55	SEEK	BCE	FOUND,000&X1, _	J	8	0981	B 997 0|0 _		536
2855	21	56		SBR	X1	J	4	0989	H 089		536
2856	21	57		B	SEEK	J	4	0993	B 981		536
2857	21	58	FOUND	SW	001&X1	J	4	0997	, 0|1		536
2858	21	59		CW		J	1	1001	)		537
2859	21	60		CW		J	1	1002	)		537
2860	21	61		CW		J	1	1003	)		537
2861	21	62		SAR	X1	J	4	1004	Q 089		537
2862	21	63		BCE	COPY,004&X1,}	J	8	1008	B |31 0|4 }	GMARK	537
2863	21	64		LCA	000&X3,000&X2	J	7	1016	L 0?0 0!0		537
2864	21	65		SBR	X2	J	4	1023	H 094		537
2865	21	66		CW	001&X2	J	4	1027	) 0!1		538
2866	21	67	COPY	SBR	X3,2&X1	J	7	1031	H 099 0|2		538
2867	21	68	* SCAN FOR	ENDING CHARACTER							
2868	21	69	LIMIT	MCW	000&X1,BOX#1	J	7	1038	M 0|0 L01		538

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
2869	21	70		SAR	X1	J	4	1045	Q 089		538
2870	21	71		MCW	BOX, *&8	J	7	1049	M L01 |63		538
2871	21	72		BCE	RANDM, @@} #*-&), @, 0	J	8	1056	B |75 L09 0		538
2872	21	73		CHAIN	7	J				MACRO	
2873				BCE		J	1	1064	B	GEN	538
2874				BCE		J	1	1065	B	GEN	539
2875				BCE		J	1	1066	B	GEN	539
2876				BCE		J	1	1067	B	GEN	539
2877				BCE		J	1	1068	B	GEN	539
2878				BCE		J	1	1069	B	GEN	539
2879				BCE		J	1	1070	B	GEN	539
2880	21	74		B	LIMIT	J	4	1071	B |38		539
2881	21	75	RANDM	BCE	SWCHF, BOX, #	J	8	1075	B Y06 L01 #		540
2882	21	76		BCE	*&5, 2&X1,]	J	8	1083	B |95 0 |2]		540
2883	21	77		B	*&5	J	4	1091	B |99		540
2884	21	78		SW	ISFSW#1	J	4	1095	, L10		540
2885	21	79	SWCHA	NOP	BOTM	J	4	1099	N J93		540
2886	21	80			* RANDOMIZING VARIABLE NAME						
2887	21	81	MIXUP	SW	002&X1	J	4	1103	, 0 |2		540
2888	21	82		ZA	000&X3, MOD#4	J	7	1107	? 0?0 L14		540
2889	21	83		A	004&X1, MOD	J	7	1114	A 0 |4 L14		541
2890	21	84		MZ	@ @, MOD	J	7	1121	Y L18 L14		541
2891	21	85		MZ		J	1	1128	Y		541
2892	21	86		MZ		J	1	1129	Y		541
2893	21	87		MCW		J	1	1130	M		541
2894	21	88	SUBTR	S	MAX, MOD	J	7	1131	S 844 L14		541
2895	21	89		BWZ	SUBTR, MOD, B	J	8	1138	V /31 L14 B		541
2896	21	90		A	MAX, MOD	J	7	1146	A 844 L14		542
2897	21	91		MZ	@ @, MOD	J	7	1153	Y L19 L14		542
2898	21	92		MCW	X2, HEX2#8	J	7	1160	M 094 L27		542
2899	21	93		MCW		J	1	1167	M		542
2900	21	94		MCW	MOD, X1	J	7	1168	M L14 089		542
2901	21	95		A	X1	J	4	1175	A 089		542
2902	21	96		A	MOD, X1	J	7	1179	A L14 089		543
2903	21	97	* GET	TABLE	1 ADDRESS						
2904	21	98	BUMP	NOP	000	J	4	1186	N 000		543
2905	21	99		SAR	X1	J	4	1190	Q 089		543
2906	22	00		MCW	@N@, OVFLW	J	7	1194	M L28 Z73		543
2907	22	01	CHAIN	BCE	NEW, 000&X1, BLANK VARBL NOT YET ENDOUNTERED	J	8	1201	B T02 0 |0		543
2908	22	02		BCE	OVFLW, 000&X1, < 12-6-8	J	8	1209	B Z73 0 |0 <		543
2909	22	03	* SEE	IF	DEFINED ALREADY						
2910	22	04		MCW	000&X1, X2	J	7	1217	M 0 |0 094		544
2911	22	05		SAR	X1	J	4	1224	Q 089		544
2912	22	06		C	000&X3, 000&X2	J	7	1228	C 0?0 0!0		544
2913	22	07		BU	CHAIN	J	5	1235	B S01 /		544
2914	22	08		C	000&X2, 000&X3	J	7	1240	C 0!0 0?0		544
2915	22	09		SAR	SWCHC&3	J	4	1247	Q S59		544
2916	22	10		BU	CHAIN	J	5	1251	B S01 /		544
2917	22	11	SWCHC	MN	0	J	4	1256	D 000		545
2918	22	12		SAR	SEND&3	J	4	1260	Q S75		545

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
2919	22	13	RESTR	MCW	HEX2,X2	J	7	1264	M L27 094		545
2920	22	14		MCW		J	1	1271	M		545
2921	22	15	SEND	LCA	000,000&X2	J	7	1272	L 000 0!0		545
2922	22	16		SBR	X2	J	4	1279	H 094		545
2923	22	17		CW	001&X2	J	4	1283	) 0!1		545
2924	22	18		SBR	X3,1&X1	J	7	1287	H 099 0|1		546
2925	22	19		SBR	X1	J	4	1294	H 089		546
2926	22	20	GOBAK	B	FIND1 OPERAND SET TO FIND2 FOR RUN2	J	4	1298	B X23		546
2927	22	21	NEW	MCW	NXBTM,X2	J	7	1302	M 083 094		546
2928	22	22		MCW	NXBTM,000&X1	J	7	1309	M 083 0|0		546
2929	22	23		MCW	000&X3,000&X2	J	7	1316	M 0?0 0!0		546
2930	22	24		SBR	X2	J	4	1323	H 094		547
2931	22	25	* CHECK TO	SEE IF THERE IS ROOM FOR ADDRESS							
2932	22	26		BCE	FULL,000&X2,< 12-6-8	J	8	1327	B K11 0!0 <		547
2933	22	27		CHAIN	4	J				MACRO	
2934				BCE		J	1	1335	B	GEN	547
2935				BCE		J	1	1336	B	GEN	547
2936				BCE		J	1	1337	B	GEN	547
2937				BCE		J	1	1338	B	GEN	547
2938	22	28		SW	000&X3	J	4	1339	, 0?0		547
2939	22	29		MCW	000&X3,*&8	J	7	1343	M 0?0 T57		548
2940	22	30		BCE	FIXED,@IJKLMN@,0	J	8	1350	B !31 L34 0		548
2941	22	31		CHAIN	5	J				MACRO	
2942				BCE		J	1	1358	B	GEN	548
2943				BCE		J	1	1359	B	GEN	548
2944				BCE		J	1	1360	B	GEN	548
2945				BCE		J	1	1361	B	GEN	548
2946				BCE		J	1	1362	B	GEN	548
2947	22	32		MZ	@A@,VZONE#1	J	7	1363	Y L35 L36		549
2948	22	33		BW	FUNST,ISFSW	J	8	1370	V W49 L10 1		549
2949	22	34		A	PARAM&6,WORK5	J	7	1378	A 692 853		549
2950	22	35	PACK	C	WORK5,&16000	J	7	1385	C 853 L41		549
2951	22	36		BH	PACK2	J	5	1392	B U25 U		549
2952	22	37		BW	PACK2,LGSW	J	8	1397	V U25 K48 1		550
2953	22	38		CS	332	J	4	1405	/ 332		550
2954	22	39		CS		J	1	1409	/		550
2955	22	40		MLC	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@,270	J	7	1410	M L77 270		550
2956	22	41		W		J	1	1417	2		550
2957	22	42		SW	FAILSW,LGSW	J	7	1418	, 184 K48		550
2958	22	43	PACK2	MCW	WORK5,HOLD5#5	J	7	1425	M 853 L82		550
2959	22	44		MCW	X3,HOLD8#8	J	7	1432	M 099 L90		551
2960	22	45		MCW		J	1	1439	M		551
2961	22	46		FPACK	HOLD5,NXTOP,X2	J				MACRO	
2962				INCLD	ZONES	J				MACRO	
2963				MN	HOLD5,NXTOP	J	7	1440	D L82 086	GEN	551
2964				MN		J	1	1447	D	GEN	551
2965				MN		J	1	1448	D	GEN	551
2966				SAR	*&4	J	4	1449	Q U56	GEN	551
2967				MCW	0,X2	J	7	1453	M 000 094	GEN	551
2968				MCW	@0@	J	4	1460	M L91	GEN	552

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
2969				A	X2	J	4	1464	A 094	GEN	552
2970				MZ	ZONES&1&X2,NXTOP	J	7	1468	Y KN1 086	GEN	552
2971				CW		J	1	1475	)	GEN	552
2972				SBR	*&7	J	4	1476	H U86	GEN	552
2973				MZ	ZONES&X2, 0	J	7	1480	Y KN0 000	GEN	552
2974	22	47		MCW	NXTOP,ADRSS#3	J	7	1487	M 086 L94		552
2975	22	48	RTN2	CW	0&X3	J	4	1494	) 0?0		553
2976	22	49		CS	299	J	4	1498	/ 299		553
2977	22	50		FFLIP	0&X3,201,X3,X2,INC,WM	J				MACRO	
2978				MN	201	J	4	1502	D 201	GEN	553
2979				MN		J	1	1506	D	GEN	553
2980				SAR	X2	J	4	1507	Q 094	GEN	553
2981				SBR	X3, 0&X3	J	7	1511	H 099 0?0	GEN	553
2982			)0K073	MCW	0&X3,)0L073#1	J	7	1518	M 0?0 L95	GEN	553
2983				SAR	X3	J	4	1525	Q 099	GEN	554
2984				MCW	)0L073, 2&X2	J	7	1529	M L95 0!2	GEN	554
2985				SBR	X2	J	4	1536	H 094	GEN	554
2986				BW	)0M073, 1&X3	J	8	1540	V V52 0?1 1	GEN	554
2987				B	)0K073	J	4	1548	B V18	GEN	554
2988			)0M073	EQU	*&1	J		1552		GEN	
2989	22	51		MCW	HOLD8,X3	J	7	1552	M L90 099		554
2990	22	52		MCW		J	1	1559	M		554
2991	22	53		MCW	NXTOP,227	J	7	1560	M 086 227		555
2992	22	54		MCS	WORK5,219	J	7	1567	Z 853 219		555
2993	22	55		BW	SWIX2,ISFSW	J	8	1574	V V94 L10 1		555
2994	22	56		W		J	1	1582	2		555
2995	22	57		FORMS		J				MACRO	
2996				BCV	*&5	J	5	1583	B V92 @	GEN	555
2997				B	*&3	J	4	1588	B V94	GEN	555
2998				CC	1	J	2	1592	F 1	GEN	555
2999	22	58	SWIX2	SW	1&X2	J	4	1594	, 0!1		556
3000	22	59		LCA	GM	J	4	1598	L M93		556
3001	22	60		SBR	SEND&3	J	4	1602	H S75		556
3002	22	61		LCA	ADRSS	J	4	1606	L L94		556
3003	22	62		SBR	NXBTM	J	4	1610	H 083		556
3004	22	63		SBR	X2	J	4	1614	H 094		556
3005	22	64		BCE	*&5, CODE-3, D	J	8	1618	B W30 K83 D		556
3006	22	65		B	*&5	J	4	1626	B W34		557
3007	22	66		CW	4&X2	J	4	1630	) 0!4		557
3008	22	67		MZ	VZONE,2&X2	J	7	1634	Y L36 0!2		557
3009	22	68		CW	ISFSW	J	4	1641	) L10		557
3010	22	69		B	RESTR	J	4	1645	B S64		557
3011	22	70	FUNST	MCW	FNCTR,ADRSS	J	7	1649	M L00 L94		557
3012	22	71		MCW	@]@	J	4	1656	M L96		557
3013	22	72		A	&1, FNCTR	J	7	1660	A L97 L00		558
3014	22	73		B	RTN2	J	4	1667	B U94		558
3015	22	74	TEST	FBCEQ	INPUT, CODE-3, 1, 5, L	J				MACRO	
3016			TEST	BCE	INPUT, CODE-3, 1	J	8	1671	B X63 K83 1	GEN	558
3017				BCE	INPUT, CODE-3, 5	J	8	1679	B X63 K83 5	GEN	558
3018				BCE	INPUT, CODE-3, L	J	8	1687	B X63 K83 L	GEN	558

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
3019	22	75		MCW	@B@,SWCHA	J	7	1695	M L98 |99		559
3020	22	76		MCW	@N@,SWCHB	J	7	1702	M L28 X31		559
3021	22	77		MCW	@N@,SWCHF	J	7	1709	M L28 Y06		559
3022	22	78		MCW	@N@,SWCHG	J	7	1716	M L28 X39		559
3023	22	79	FIND1	BCE	FOUND,000&X1, _	J	8	1723	B 997 0|0 _		559
3024	22	80	SWCHB	NOP	RTPAR,000&X1,) RT PAREN	J	8	1731	N X95 0|0)		560
3025	22	81	SWCHG	NOP	DOLR1,000&X1,\$ DOLLAR, A-OPERAND ALSO MODIFIED	J	8	1739	N Z95 0|0 \$		560
3026	22	82	DONE	BCE	PASS,000&X1,} GROUP MARK	J	8	1747	B J63 0|0 } GMARK		560
3027	22	83		SBR	X1	J	4	1755	H 089		560
3028	22	84		B	FIND1	J	4	1759	B X23		560
3029	22	85	INPUT	MCW	@N@,SWCHA	J	7	1763	M L28 |99		560
3030	22	86		MCW	@B@,SWCHB	J	7	1770	M L98 X31		561
3031	22	87		MCW	@M@,SWCHF	J	7	1777	M L99 Y06		561
3032	22	88		MCW	@B@,SWCHG	J	7	1784	M L98 X39		561
3033	22	89		B	FIND1	J	4	1791	B X23		561
3034	22	90	RTPAR	MCW	@N@,SWCHA	J	7	1795	M L28 |99		561
3035	22	91		B	DONE	J	4	1802	B X47		561
3036	22	92	SWCHF	NOP	@B@,SWCHB	J	7	1806	N L98 X31		562
3037	22	93		MCW	@B@,SWCHA	J	7	1813	M L98 |99		562
3038	22	94		B	MIXUP	J	4	1820	B /03		562
3039	22	95	UNDEF	CS	299	J	4	1824	/ 299		562
3040	22	96		SW	FAILSW	J	4	1828	, 184		562
3041	22	97		MCW	@ERROR 10 - UNDEFINED VARIABLE @,230	J	7	1832	M M29 230		562
3042	22	98		FFLIP	0&X3,231,X3,X1,INC,WM	J				MACRO	
3043				MN	231	J	4	1839	D 231	GEN	562
3044				MN		J	1	1843	D	GEN	563
3045				SAR	X1	J	4	1844	Q 089	GEN	563
3046				SBR	X3, 0&X3	J	7	1848	H 099 0?0	GEN	563
3047			)0K076	MCW	0&X3,)0L076#1	J	7	1855	M 0?0 M30	GEN	563
3048				SAR	X3	J	4	1862	Q 099	GEN	563
3049				MCW	)0L076, 2&X1	J	7	1866	M M30 0|2	GEN	563
3050				SBR	X1	J	4	1873	H 089	GEN	563
3051				BW	)0M076, 1&X3	J	8	1877	V Y89 0?1 1	GEN	564
3052				B	)0K076	J	4	1885	B Y55	GEN	564
3053			)0M076	EQU	*&1	J		1889		GEN	
3054	22	99		MN	CODE,255	J	7	1889	D K86 255		564
3055	23	00		MN		J	1	1896	D		564
3056	23	01		MN		J	1	1897	D		564
3057	23	02		MCW	@STATEMENT @	J	4	1898	M M40		564
3058	23	03		W		J	1	1902	2		564
3059	23	04		FORMS		J				MACRO	
3060				BCV	*&5	J	5	1903	B Z12 @	GEN	565
3061				B	*&3	J	4	1908	B Z14	GEN	565
3062				CC	1	J	2	1912	F 1	GEN	565
3063	23	05		SBR	SEND&3,ZEROZ	J	7	1914	H S75 K47		565
3064	23	06		BWZ	CKFIX,231,K	J	8	1921	V Z40 231 K		565
3065	23	07	ZNA	MZ	@A@,ZEROZ-1	J	7	1929	Y L35 K46		565
3066	23	08		B	RESTR	J	4	1936	B S64		565
3067	23	09	CKFIX	SW	231	J	4	1940	, 231		566
3068	23	10		MCW	231,*&8	J	7	1944	M 231 Z58		566

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
3069	23	11		BCE	ZNA,@OPQR@, INITIALIZED	J	8	1951	B Z29 M44		566
3070	23	12		CHAIN	3	J				MACRO	
3071				BCE		J	1	1959	B	GEN	566
3072				BCE		J	1	1960	B	GEN	566
3073				BCE		J	1	1961	B	GEN	566
3074	23	13		MZ	@K@, ZEROZ-1	J	7	1962	Y M45 K46		566
3075	23	14		B	RESTR	J	4	1969	B S64		567
3076	23	15	OVFLW	NOP	FULL	J	4	1973	N K11		567
3077	23	16		MCW	@B@, OVFLW	J	7	1977	M L98 Z73		567
3078	23	17		MCW	UPLIM, X1	J	7	1984	M 848 089		567
3079	23	18		B	CHAIN	J	4	1991	B S01		567
3080	23	19	DOLR1	SBR	SWCHG&3, DOLR2	J	7	1995	H X42 !13		567
3081	23	20		MCW	@B@, SWCHA	J	7	2002	M L98 |99		568
3082	23	21		B	DONE	J	4	2009	B X47		568
3083	23	22	DOLR2	SBR	SWCHG&3, DOLR1	J	7	2013	H X42 Z95		568
3084	23	23		MCW	@N@, SWCHA	J	7	2020	M L28 |99		568
3085	23	24		B	DONE	J	4	2027	B X47		568
3086	23	25	FIXED	MZ	@J@, VZONE	J	7	2031	Y M46 L36		568
3087	23	26		BW	FUNST, ISFSW	J	8	2038	V W49 L10 1		569
3088	23	27		A	PARAM&4, WORK5	J	7	2046	A 690 853		569
3089	23	28		B	PACK	J	4	2053	B T85		569
3090	23	29	OUT	MLC	SAVE2, X1	J	7	2057	M 856 089		569
3091	23	30		CS	0&X2	J	4	2064	/ 0!0		569
3092	23	31		CS		J	1	2068	/		569
3093	23	32		SBR	TCLEAR, SYS4	J	7	2069	H 710 M99		569
3094	23	33	SWCHD	NOP	DUN	J	4	2076	N J47		570
3095	23	34		SW	GM	J	4	2080	, M93		570
3096	23	35		MCW	@B@, SWCHD	J	7	2084	M L98 !76		570
3097	23	36		MCW	@)@, SWCHC	J	7	2091	M M47 S56		570
3098	23	37		MCW	@N@, SWCHE	J	7	2098	M L28 943		570
3099	23	38		MCW	@N@, SWCHA	J	7	2105	M L28 |99		570
3100	23	39		SBR	CHAIN&3, UNDEF	J	7	2112	H S04 Y24		571
3101	23	40		SBR	GOBAK&3, FIND2	J	7	2119	H T01 947		571
3102	23	41		CS	0&X2	J	4	2126	/ 0!0		571
3103	23	42		SBR	X2, 1&X1	J	7	2130	H 094 0|1		571
3104	23	43		SBR	SAVE2	J	4	2137	H 856		571
3105	23	44		CC	J	J	2	2141	F J		571
3106	23	45		B	START	J	4	2143	B 879		571
3107	23	46	DUN	BSS	333, C	J	5	2147	B 333 C		572
3108	23	47		MCW	@VARBLQUIN@, 110	J	7	2152	M M56 110		572
3109	34	48		B	MONTOR	J	4	2159	B 769		572
3110	23	49	PASS	MVDWN	X3, X2	J				MACRO	
3111			PASS	LCA	0&X3, 0&X2	J	7	2163	L 0?0 0!0	GEN	572
3112				SAR	X3	J	4	2170	Q 099	GEN	572
3113				C	0&X2	J	4	2174	C 0!0	GEN	572
3114				SAR	X2	J	4	2178	Q 094	GEN	572
3115	23	50		MCW	X3, X1	J	7	2182	M 099 089		573
3116	23	51		B	START	J	4	2189	B 879		573
3117	23	52	BOTM	SBR	X1, 1&X1	J	7	2193	H 089 0|1		573
3118	23	53		SBR	X3, 1&X3	J	7	2200	H 099 0?1		573

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
3119	23	54		B	FIND1	J	4	2207	B X23		573
3120	23	55	FULL	FQUIT		J				MACRO	
3121			FULL	CS	332	J	4	2211	/ 332	GEN	573
3122				CS		J	1	2215	/	GEN	573
3123				CC	1	J	2	2216	F 1	GEN	574
3124				MCW	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@,270	J	7	2218	M M92 270	GEN	574
3125				W		J	1	2225	2	GEN	574
3126				CC	1	J	2	2226	F 1	GEN	574
3127				BCE	* & 6, MONTOR, 1	J	8	2228	B K41 769 1	GEN	574
3128				RWD	1	J	5	2236	U %U1 R	GEN	574
3129				H	* - 3	J	4	2241	. K41	GEN	574
3130	23	56	ZEROZ	DCW	@000@	J	3	2247			575
3131	23	57	LGSW	DC	#1	J	1	2248			575
3132	23	58		ORG	*	J			2249		
3133				LTORG	* WVS: AUTOCODER SHOULDN'T LOAD INCLD AT ORG	J			2249		
3134				DCW	#1	J	1	2249		GEN	575
3135			ZONES	DC	9	J	1	2250		GEN	575
3136				DCW	@9Z9R9I99ZZZRZIZ9RZRRRIR9IZIRIII@	J	31	2281		GEN	575
			*	LTORG*						GEN	
				DCW	@S@	J	1	2282		LIT	575
			CODE J	DCW	#04	J	4	2286		AREA	576
			WORK J	DCW	#10	J	10	2296		AREA	576
				DCW	@01@	J	2	2298		LIT	576
			FNCTRJ	DCW	#02	J	2	2300		AREA	576
			BOX J	DCW	#01	J	1	2301		AREA	576
				DCW	@@}#*-&),@	J	8	2309		LIT	576
			ISFSWJ	DCW	#01	J	1	2310		AREA	576
			MOD J	DCW	#04	J	4	2314		AREA	577
				DCW	@ @	J	4	2318		LIT	577
				DCW	@ @	J	1	2319		LIT	577
			HEX2 J	DCW	#08	J	8	2327		AREA	577
				DCW	@N@	J	1	2328		LIT	577
				DCW	@IJKLMN@	J	6	2334		LIT	577
				DCW	@A@	J	1	2335		LIT	577
			VZONEJ	DCW	#01	J	1	2336		AREA	578
				DCW	&16000	J	5	2341		LIT	578
				DCW	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@	J	36	2377		LIT	579
			HOLD5J	DCW	#05	J	5	2382		AREA	580
			HOLD8J	DCW	#08	J	8	2390		AREA	580
				DCW	@0@	J	1	2391		LIT	580
			ADRSSJ	DCW	#03	J	3	2394		AREA	580
			)0L073	DCW	#01	J	1	2395		AREA	580
				DCW	@]@	J	1	2396		LIT	580
				DCW	&1	J	1	2397		LIT	580
				DCW	@B@	J	1	2398		LIT	581
				DCW	@M@	J	1	2399		LIT	581
				DCW	@ERROR 10 - UNDEFINED VARIABLE @	J	30	2429		LIT	581
			)0L076	DCW	#01	J	1	2430		AREA	581
				DCW	@STATEMENT @	J	10	2440		LIT	582
				DCW	@OPQR@	J	4	2444		LIT	582

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
				DCW	@K@	J	1	2445		LIT	582
				DCW	@J@	J	1	2446		LIT	582
				DCW	@)@	J	1	2447		LIT	582
				DCW	@VARBLQUIN@	J	9	2456		LIT	582
				DCW	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@	J	36	2492		LIT	583
3137	23	59	GM	DC	@}@ G-M	J	1	2493		GMARK	583
3138	23	60		DC	@ @ SPACE FOR FANCY SCAN	J	5	2498			584
3139	23	61	SYS4	DCW	@}@ WORK AND SYSTEM GROUP MARK	J	1	2499		GMARK	584
3140	23	62		XFR	BEGIN	J			B 857		585

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
3141	23	63		JOB	1401 FORTRAN VARIABLES PHASE FIVE	J					
3142	23	64	110	DCW	@VARBL QUIN@	J	10	0110			588
3143	23	65		ORG	PHSE3	J			0857		
3144	23	66	CKREF	CC	J	J	2	0857	F J		589
3145	23	67		MCW	X1,KEEP2#3	J	7	0859	M 089 |79		589
3146	23	68		MCW	PARAM&2,X2	J	7	0866	M 688 094		589
3147	23	69	SCAN	BCE	ISGM,0&X2,}	J	8	0873	B 945 0!0 } GMARK		589
3148	23	70		SBR	X2	J	4	0881	H 094		589
3149	23	71		C	X2,NXBTM	J	7	0885	C 094 083		589
3150	23	72		BU	SCAN	J	5	0892	B 873 /		590
3151	23	73		MCW	KEEP2,X1	J	7	0897	M |79 089		590
3152	23	74		FENDX	D,, ,XBEGIN,XBEGIN,XBEGIN,SAUCEK-2,CONST ONE	J				MACRO	
3153				BSS	333,D	J	5	0904	B 333 D	GEN	590
3154				SBR	INITAP&6,XBEGIN	J	7	0909	H 786 838	GEN	590
3155				SBR	BCLEAR	J	4	0916	H 833	GEN	590
3156				SBR	INITXT&3,XBEGIN	J	7	0920	H 796 838	GEN	590
3157				SBR	TCLEAR,SAUCEK-2	J	7	0927	H 710 098	GEN	591
3158				LCA	@CONST ONE@,110	J	7	0934	L |88 110	GEN	591
3159				B	MONTER	J	4	0941	B 700	GEN	591
3160	23	75	ISGM	BW	UNREF,0&X2	J	8	0945	V 965 0!0 1		591
3161	23	76		MN	0&X2	J	4	0953	D 0!0		591
3162	23	77		SBR	X2	J	4	0957	H 094		591
3163	23	78		B	SCAN	J	4	0961	B 873		591
3164	23	79	UNREF	CS	299	J	4	0965	/ 299		592
3165	23	80		MCW	@ERROR 11 - UNREFERENCED VARIABLE @,233	J	7	0969	M /21 233		592
3166	23	81		MCW	X2,X3	J	7	0976	M 094 099		592
3167	23	82	NOPR	NOP	1&X3	J	4	0983	N 0?1		592
3168	23	83		SAR	X3	J	4	0987	Q 099		592
3169	23	84		BW	FLIP,2&X3	J	8	0991	V |03 0?2 1		592
3170	23	85		B	NOPR	J	4	0999	B 983		592
3171	23	86	FLIP	FFLIP	1&X3,234,X3,X1,INCL,WM	J				MACRO	
3172			FLIP	MN	234	J	4	1003	D 234	GEN	593
3173				MN		J	1	1007	D	GEN	593
3174				SAR	X1	J	4	1008	Q 089	GEN	593
3175				SBR	X3, 1&X3	J	7	1012	H 099 0?1	GEN	593
3176			)0K081	MCW	0&X3,)0L081#1	J	7	1019	M 0?0 /22	GEN	593
3177				SAR	X3	J	4	1026	Q 099	GEN	593
3178				MCW	)0L081, 2&X1	J	7	1030	M /22 0|2	GEN	593
3179				SBR	X1	J	4	1037	H 089	GEN	594
3180				BW	)0M081, 1&X3	J	8	1041	V |53 0?1 1	GEN	594
3181				B	)0K081	J	4	1049	B |19	GEN	594
3182			)0M081	EQU	*&1	J		1053		GEN	
3183	23	87		W		J	1	1053	2		594
3184	23	88		FORMS		J				MACRO	
3185				BCV	*&5	J	5	1054	B |63 @	GEN	594
3186				B	*&3	J	4	1059	B |65	GEN	594
3187				CC	1	J	2	1063	F 1	GEN	594
3188	23	89		MN	0&X2	J	4	1065	D 0!0		595
3189	23	90		SAR	X2	J	4	1069	Q 094		595
3190	23	91		B	SCAN	J	4	1073	B 873		595

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
3191	23	92		LTORG	*	J			1077		
			KEEP2J	DCW	#03	J	3	1079		AREA	595
				DCW	@CONST ONE@	J	9	1088		LIT	595
				DCW	@ERROR 11 - UNREFERENCED VARIABLE @	J	33	1121		LIT	596
			)0L081	DCW	#01	J	1	1122		AREA	596
3192	23	93		DCW	@}@	J	1	1123		GMARK	596
3193	23	94		XFR	CKREF	J			B 857		597
					SYSTEM GROUP MARK						

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
3194	23	95		JOB	1401 FORTRAN CONSTANT PHASE ONE	J					
3195	23	96		FBEGN	CONST ONE,X1,,X2,R,X3,R,K	J				MACRO	
3196				SFX	K	K				GEN	
3197			110	DCW	@CONST ONE@	K	9	0110		GEN	600
3198			X1	EQU	089	K		0089		GEN	
3199			X2	EQU	094	K		0094		GEN	
3200			094	DCW	000	K	3	0094		GEN	601
3201			096	DC	00	K	2	0096		GEN	601
3202			X3	EQU	099	K		0099		GEN	
3203			099	DCW	000	K	3	0099		GEN	601
3204			100	DC	0	K	1	0100		GEN	601
3205	23	97		ORG	XBEGIN	K			0838		
3206	23	98	TRACK	EQU	200	K		0200			
3207	23	99	NXBTM	EQU	083	K		0083			
3208	24	00	INITL	CS	TRACK&99	K	4	0838	/ 299		602
3209	24	01		SW	GM	K	4	0842	, L49		602
3210	24	02		SW	TRACK	K	4	0846	, 200		602
3211	24	03		MCW	PARAM&2,X2	K	7	0850	M 688 094		602
3212	24	04		MN	000&X2	K	4	0857	D 0!0		602
3213	24	05		MN		K	1	0861	D		602
3214	24	06		SAR	X2	K	4	0862	Q 094		602
3215	24	07		SBR	NXBTM	K	4	0866	H 083		603
3216	24	08		LCA	GM, 1&X2	K	7	0870	L L49 0!1		603
3217	24	09	START	BCE	OUT,000&X1, BLANK	K	8	0877	B J53 0!0		603
3218	24	10		MCW	000&X1, CODE#4	K	7	0885	M 0!0 L53		603
3219	24	11		LCA	000&X1, WORK#10	K	7	0892	L 0!0 L63		603
3220	24	12		SAR	X1	K	4	0899	Q 089		603
3221	24	13		SBR	HEX3#3	K	4	0903	H L66		604
3222	24	14		SBR	KILL#3, 0&X2	K	7	0907	H L69 0!0		604
3223	24	15		LCA	WORK, 000&X2	K	7	0914	L L63 0!0		604
3224	24	16		SBR	X2	K	4	0921	H 094		604
3225	24	17		MCW	CODE-3, *&8	K	7	0925	M L50 939		604
3226	24	18		BCE	TRYIT,@UPL3165DER@,0	K	8	0932	B 972 L79 0		604
3227	24	19		CHAIN	9	K				MACRO	
3228				BCE		K	1	0940	B	GEN	604
3229				BCE		K	1	0941	B	GEN	605
3230				BCE		K	1	0942	B	GEN	605
3231				BCE		K	1	0943	B	GEN	605
3232				BCE		K	1	0944	B	GEN	605
3233				BCE		K	1	0945	B	GEN	605
3234				BCE		K	1	0946	B	GEN	605
3235				BCE		K	1	0947	B	GEN	605
3236				BCE		K	1	0948	B	GEN	606
3237	24	20		MVDWN	X1,X2	K				MACRO	
3238				LCA	0&X1, 0&X2	K	7	0949	L 0!0 0!0	GEN	606
3239				SAR	X1	K	4	0956	Q 089	GEN	606
3240				C	0&X2	K	4	0960	C 0!0	GEN	606
3241				SAR	X2	K	4	0964	Q 094	GEN	606
3242	24	21		B	START	K	4	0968	B 877		606
3243	24	22	TRYIT	SBR	X3, TABLE-4	K	7	0972	H 099 L07		606

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
3244	24	23		MCW	CODE-3,SCAN&7	K	7	0979	M L50 993		607
3245	24	24	SCAN	BCE	SETUP,004&X3,0 D-CHAR MODIFIED	K	8	0986	B |02 0?4 0		607
3246	24	25		SBR	X3	K	4	0994	H 099		607
3247	24	26		B	SCAN	K	4	0998	B 986		607
3248	24	27	SETUP	MCW	006&X3,CNTRL#2	K	7	1002	M 0?6 L81		607
3249	24	28		MCW	CNTRL-1,TEST2&7	K	7	1009	M L80 |38		607
3250	24	29	TEST1	BCE	GUTS,CNTRL,2	K	8	1016	B |67 L81 2		608
3251	24	30		A	@1@,CNTRL	K	7	1024	A L82 L81		608
3252	24	31	TEST2	BCE	BUMP1,0&X1,0	K	8	1031	B |55 0|0 0		608
3253	24	32		BCE	GUTS,0&X1,}	K	8	1039	B |67 0|0 }	GMARK	608
3254	24	33		SBR	X1	K	4	1047	H 089		608
3255	24	34		B	TEST2	K	4	1051	B |31		608
3256	24	35	BUMP1	MN	0&X1	K	4	1055	D 0|0		609
3257	24	36		SAR	X1	K	4	1059	Q 089		609
3258	24	37		B	TEST1	K	4	1063	B |16		609
3259	24	38	GUTS	BWZ	MAYBE,000&X1,3 NUMBER,EQUAL SIGN,WORD MK	K	8	1067	V |91 0|0 3		609
3260	24	39		SBR	X1	K	4	1075	H 089		609
3261	24	40		BCE	SUBSC,1&X1,\$	K	8	1079	B /76 0|1 \$		609
3262	24	41		B	GUTS	K	4	1087	B |67		609
3263	24	42	MAYBE	BCE	PASS,000&X1,} 12-7-8	K	8	1091	B J95 0|0 }	GMARK	610
3264	24	43		SBR	X1	K	4	1099	H 089		610
3265	24	44		BCE	GUTS,001&X1,#	K	8	1103	B |67 0|1 #		610
3266	24	45		BCE	GUTS,1&X1,@	K	8	1111	B |67 0|1 @		610
3267	24	46		MCW	002&X1,BOX&1	K	7	1119	M 0|2 L48		610
3268	24	47		MCW		K	1	1126	M		610
3269	24	48		MCW		K	1	1127	M		610
3270	24	49		SAR	X1	K	4	1128	Q 089		611
3271	24	50		MCW	BOX&1,*&8	K	7	1132	M L48 /46		611
3272	24	51		BCE	RUCON,@)}@.##\$,*-&@,0 RT PAREN,GROUP MARK	K	8	1139	B S16 L93 0		611
3273	24	52		CHAIN	10	K				MACRO	
3274				BCE		K	1	1147	B	GEN	611
3275				BCE		K	1	1148	B	GEN	611
3276				BCE		K	1	1149	B	GEN	611
3277				BCE		K	1	1150	B	GEN	611
3278				BCE		K	1	1151	B	GEN	612
3279				BCE		K	1	1152	B	GEN	612
3280				BCE		K	1	1153	B	GEN	612
3281				BCE		K	1	1154	B	GEN	612
3282				BCE		K	1	1155	B	GEN	612
3283				BCE		K	1	1156	B	GEN	612
3284	24	53		BCE	PASS,1&X1,}	K	8	1157	B J95 0|1 }	GMARK	612
3285	24	54	BMPX1	SBR	X1,1&X1	K	7	1165	H 089 0|1		613
3286	24	55		B	GUTS	K	4	1172	B |67		613
3287	24	56	SUBSC	NOP	SUB2	K	4	1176	N /98		613
3288	24	57		MCW	@B@,SUBSC	K	7	1180	M L94 /76		613
3289	24	58		MCW	BLANK,SUBSW&4	K	7	1187	M N04 !42		613
3290	24	59		B	GUTS	K	4	1194	B |67		613
3291	24	60	SUB2	MCW	@N@,SUBSC	K	7	1198	M L95 /76		614
3292	24	61		MCW	@/@,SUBSW&4	K	7	1205	M L96 !42		614
3293	24	62		B	GUTS	K	4	1212	B |67		614

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
3294	24	63	RUCON	BCE	BAKUP,3&X1,.	K	8	1216	B K32 0|3 .		614
3295	24	64		MCW	BOX-1,*&8	K	7	1224	M L46 S38		614
3296	24	65		BCE	BMPX1,@?ABCDEFGH!JKLMNOPQR@,0 &ZERO,- ZERO	K	8	1231	B /65 M16 0		615
3297	24	66		CHAIN	19	K				MACRO	
3298				BCE		K	1	1239	B	GEN	615
3299				BCE		K	1	1240	B	GEN	615
3300				BCE		K	1	1241	B	GEN	615
3301				BCE		K	1	1242	B	GEN	615
3302				BCE		K	1	1243	B	GEN	615
3303				BCE		K	1	1244	B	GEN	615
3304				BCE		K	1	1245	B	GEN	616
3305				BCE		K	1	1246	B	GEN	616
3306				BCE		K	1	1247	B	GEN	616
3307				BCE		K	1	1248	B	GEN	616
3308				BCE		K	1	1249	B	GEN	616
3309				BCE		K	1	1250	B	GEN	616
3310				BCE		K	1	1251	B	GEN	616
3311				BCE		K	1	1252	B	GEN	617
3312				BCE		K	1	1253	B	GEN	617
3313				BCE		K	1	1254	B	GEN	617
3314				BCE		K	1	1255	B	GEN	617
3315				BCE		K	1	1256	B	GEN	617
3316				BCE		K	1	1257	B	GEN	617
3317	24	67		BCE	CKIF,3&X1,)	K	8	1258	B J83 0|3)		617
3318	24	68	SET	SW	003&X1	K	4	1266	, 0|3		618
3319	24	69		MCW	HEX3,X3	K	7	1270	M L66 099		618
3320	24	70		LCA	000&X3,000&X2	K	7	1277	L 0?0 0!0		618
3321	24	71		SBR	X2	K	4	1284	H 094		618
3322	24	72		MCW	@<@,3&X1	K	7	1288	M M17 0|3		618
3323	24	73		SBR	KLOBR&6,3&X1	K	7	1295	H J17 0|3		618
3324	24	74		CW	001&X2	K	4	1302	) 0!1		619
3325	24	75		LCA	@_@,000&X2	K	7	1306	L M18 0!0		619
3326	24	76		SBR	X2	K	4	1313	H 094		619
3327	24	77		CW	001&X2	K	4	1317	) 0!1		619
3328	24	78		CW	ODDSW	K	4	1321	) N44		619
3329	24	79		S	XPONT#2	K	4	1325	S M20		619
3330	24	80		S	COUNT#3	K	4	1329	S M23		619
3331	24	81		S	TOTAL	K	4	1333	S M28		620
3332	24	82		MCW	@,@,STODD	K	7	1337	M M24 K64		620
3333	24	83		MCW	@N@,SWCHX	K	7	1344	M L95 T90		620
3334	24	84		MCW	@B@,SWCHZ	K	7	1351	M L94 U04		620
3335	24	85		SBR	SWCHA&3,A	K	7	1358	H K75 L41		620
3336	24	86		SBR	SWCHS&3,S	K	7	1365	H K46 L42		620
3337	24	87		SBR	X1,2&X1	K	7	1372	H 089 0|2		621
3338	24	88	NORML	MCW	000&X1,BOX	K	7	1379	M 0|0 L47		621
3339	24	89		SAR	X1	K	4	1386	Q 089		621
3340	24	90	SWCHX	NOP	&1,XPONT	K	7	1390	N M25 M20		621
3341	24	91		A	&1,TOTAL#3	K	7	1397	A M25 M28		621
3342	24	92	SWCHZ	BCE	NORML,BOX,0	K	8	1404	B T79 L47 0		622
3343	24	93		BCE	SWCHS,BOX,.	K	8	1412	B K43 L47 .		622

PASSES BY LEADING ZEROS

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
3344	24	94		BCE	SWCHA,SWCHZ,B	K	8	1420	B K72 U04 B		622
3345	24	95		A	&1,COUNT	K	7	1428	A M25 M23		622
3346	24	96	TEST	BCE	CNLFT,BOX,#	K	8	1435	B X20 L47 #		622
3347	24	97		BCE	*&9,BOX,@	K	8	1443	B U59 L47 @		623
3348	24	98		BWZ	NORML,BOX,2 NO ZONE	K	8	1451	V T79 L47 2		623
3349	24	99	CR	C	SWCHA&3,NOPAD	K	7	1459	C K75 L45		623
3350	25	00		*	DECIMAL POINT SENDS THE ADDRESS OF NOP TO SWCHA&3						
3351	25	01		*	CANNOT USE ADDRESS CONSTANT						
3352	25	02		BU	FIXED	K	5	1466	B Z31 /		623
3353	25	03		BWZ	MARK,XPONT,B	K	8	1471	V U86 M20 B		623
3354	25	04		A	&1,XPONT	K	7	1479	A M25 M20		624
3355	25	05	MARK	SW	002&X1	K	4	1486	, 0|2		624
3356	25	06		BCE	ODDBL,2&X1,.	K	8	1490	B Y22 0|2 .		624
3357	25	07	CKTAL	BCE	TAIL,BOX,E	K	8	1498	B Y37 L47 E		624
3358	25	08	FLOAT	C	TOTAL,&01	K	7	1506	C M28 M30		624
3359	25	09		NOP	SYNTAX	K	4	1513	N X84		624
3360	25	10		NOP		K	1	1517	N		624
3361	25	11		C	COUNT,&000	K	7	1518	C M23 M33		625
3362	25	12		BU	RTLFT	K	5	1525	B V49 /		625
3363	25	13	LDZER	LCA	@?0?@,0&X2 12-0,0,12-0	K	7	1530	L M36 0!0		625
3364	24	14		SBR	X2	K	4	1537	H 094		625
3365	25	15		CW	001&X2	K	4	1541	) 0!1		625
3366	25	16		B	BOTM2	K	4	1545	B J00		625
3367	25	17	RTLFT	MCW	X1,HEX1#3	K	7	1549	M 089 M39		625
3368	25	18		BW	*&8,ODDSW	K	8	1556	V V71 N44 1		626
3369	25	19		LCA	000&X3,001&X3	K	7	1564	L 0?0 0?1		626
3370	25	20		MCW	RIGHT#3,X1	K	7	1571	M M42 089		626
3371	25	21		MCW	PARAM&6,PRESZ#2	K	7	1578	M 692 M44		626
3372	25	22		A	&2,PRESZ	K	7	1585	A M45 M44		626
3373	25	23		SBR	X3,TRACK-2	K	7	1592	H 099 198		627
3374	25	24		SW	TRACK	K	4	1599	, 200		627
3375	25	25	TWIST	MCW	000&X1,BOX	K	7	1603	M 0|0 L47		627
3376	25	26		SAR	X1	K	4	1610	Q 089		627
3377	25	27		MCW	BOX,002&X3	K	7	1614	M L47 0?2		627
3378	25	28		SBR	X3	K	4	1621	H 099		627
3379	25	29		BWZ	PHEW,001&X1,1 WORD MARK	K	8	1625	V W52 0|1 1		628
3380	25	30		S	&1,PRESZ	K	7	1633	S M25 M44		628
3381	25	31		C	PRESZ,&00	K	7	1640	C M44 M47		628
3382	25	32		BU	TWIST	K	5	1647	B W03 /		628
3383	25	33	PHEW	SBR	X3,1&X3	K	7	1652	H 099 0?1		628
3384	25	34	PHEW1	BCE	*&5,0&X3,0	K	8	1659	B W71 0?0 0		629
3385	25	35		B	XEUNT	K	4	1667	B W83		629
3386	25	36		MN	0&X3	K	4	1671	D 0?0		629
3387	25	37		SAR	X3	K	4	1675	Q 099		629
3388	25	38		B	PHEW1	K	4	1679	B W59		629
3389	25	39	XEUNT	MN	0&X3	K	4	1683	D 0?0		629
3390	25	40		SAR	X3	K	4	1687	Q 099		629
3391	25	41		MCW	XPONT,3&X3	K	7	1691	M M20 0?3		630
3392	25	42		MZ	@A@,1&X3	K	7	1698	Y M48 0?1		630
3393	25	43		LCA	003&X3,000&X2	K	7	1705	L 0?3 0!0		630

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
3394	25	44		SBR	X2	K	4	1712	H 094		630
3395	25	45		B	BOTM	K	4	1716	B !89		630
3396	25	46	CNLFT	CS	332	K	4	1720	/ 332		630
3397	25	47		CS		K	1	1724	/		630
3398	25	48		SW	FAILSW	K	4	1725	, 184		631
3399	25	49		MN	CODE,256	K	7	1729	D L53 256		631
3400	25	50		CHAIN	2	K				MACRO	
3401				MN		K	1	1736	D	GEN	631
3402				MN		K	1	1737	D	GEN	631
3403	25	51		MCW	@EQUAL SIGN, STATEMENT @	K	4	1738	M M70		631
3404	25	52		MCW	@ERROR 41 - CONSTANT LEFT SIDE OF @	K	4	1742	M N03		631
3405	25	53		W		K	1	1746	2		631
3406	25	54		FORMS		K				MACRO	
3407				BCV	*&5	K	5	1747	B X56 @	GEN	632
3408				B	*&3	K	4	1752	B X58	GEN	632
3409				CC	1	K	2	1756	F 1	GEN	632
3410	25	55		MCW	KILL,X2	K	7	1758	M L69 094		632
3411	25	56		MCW	BLANK#1,0&X2	K	7	1765	M N04 0!0		632
3412	25	57		C	0&X1	K	4	1772	C 0|0		632
3413	25	58		SAR	X1	K	4	1776	Q 089		632
3414	25	59		B	START	K	4	1780	B 877		633
3415	25	60	SYNTAX	FTMSG	44,CONSTANT SYNTAX,CODE,17	K				MACRO	
3416			SYNTAX	CS	332	K	4	1784	/ 332	GEN	633
3417				CS		K	1	1788	/	GEN	633
3418				SW	FAILSW	K	4	1789	, 184	GEN	633
3419				MN	CODE,224&17	K	7	1793	D L53 241	GEN	633
3420				MN		K	1	1800	D	GEN	633
3421				MN		K	1	1801	D	GEN	633
3422				MCW	@ERROR 44 - CONSTANT SYNTAX, STATEMENT @	K	4	1802	M N42	GEN	634
3423				W		K	1	1806	2	GEN	634
3424				BCV	*&5	K	5	1807	B Y16 @	GEN	634
3425				B	*&3	K	4	1812	B Y18	GEN	634
3426				CC	1	K	2	1816	F 1	GEN	634
3427	25	61		B	LDZER	K	4	1818	B V30		634
3428	25	62	ODDBL	MCW	@0@,2&X1	K	7	1822	M N43 0|2		634
3429	25	63		SW	ODDSW#1	K	4	1829	, N44		635
3430	25	64		B	CKTAL	K	4	1833	B U98		635
3431	25	65	TAIL	ZA	&0,BUMP#2	K	7	1837	? N45 N47		635
3432	25	66		BWZ	FLIP,000&X1,2	K	8	1844	V Y63 0|0 2		635
3433	25	67		MZ	000&X1,BUMP	K	7	1852	Y 0|0 N47		635
3434	25	68	*		ZONE RESPECTIVELY						
3435	25	69		SAR	X1	K	4	1859	Q 089		635
3436	25	70	FLIP	MN	000&X1	K	4	1863	D 0|0		635
3437	25	71		SAR	X1	K	4	1867	Q 089		636
3438	25	72		C	0&X1,@Z@	K	7	1871	C 0|0 N48		636
3439	25	73		BL	UNITS	K	5	1878	B Y94 T		636
3440	25	74		MN	001&X1,BUMP	K	7	1883	D 0|1 N47		636
3441	25	75		B	BUMPR	K	4	1890	B Z12		636
3442	25	76	UNITS	MN	001&X1,BUMP-1	K	7	1894	D 0|1 N46		636
3443	25	77		MN	000&X1,BUMP	K	7	1901	D 0|0 N47		637

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
3444	25	78		SAR	X1	K	4	1908	Q 089		637
3445	25	79	BUMPR	A	BUMP,XPONT	K	7	1912	A N47 M20		637
3446	25	80		MN	0&X1	K	4	1919	D 0|0		637
3447	25	81		SAR	X1	K	4	1923	Q 089		637
3448	25	82		B	FLOAT	K	4	1927	B V06		637
3449	25	83	FIXED	C	COUNT,&000	K	7	1931	C M23 M33		637
3450	25	84		BU	LFTRT	K	5	1938	B Z62 /		638
3451	25	85		LCA	@ 0@,000&X2 BLANK, ZERO	K	7	1943	L N50 0!0		638
3452	25	86		SBR	X2	K	4	1950	H 094		638
3453	25	87		CW	001&X2	K	4	1954	) 0!1		638
3454	25	88		B	BOTM2	K	4	1958	B J00		638
3455	25	89	LFTRT	MCW	X1,HEX1	K	7	1962	M 089 M39		638
3456	25	90		MCW	RIGHT,X3	K	7	1969	M M42 099		638
3457	25	91		SW	0&X3	K	4	1976	, 0?0		639
3458	25	92		SBR	X3,TRACK&99	K	7	1980	H 099 299		639
3459	25	93		MCW	PARAM&4,PRESZ	K	7	1987	M 690 M44		639
3460	25	94	TURN	MCW	002&X1,BOX	K	7	1994	M 0|2 L47		639
3461	25	95		SAR	X1	K	4	2001	Q 089		639
3462	25	96		MCW	BOX,000&X3	K	7	2005	M L47 0?0		639
3463	25	97		SBR	X3	K	4	2012	H 099		640
3464	25	98		BWZ	WOW,001&X1,1 WORD MARK	K	8	2016	V !43 0|1 1		640
3465	25	99		S	&1,PRESZ	K	7	2024	S M25 M44		640
3466	26	00		C	PRESZ,&00	K	7	2031	C M44 M47		640
3467	26	01	SUBSW	BU	TURN	K	5	2038	B Z94 /		640
3468	26	02	WOW	SW	001&X3	K	4	2043	, 0?1		640
3469	26	03		LCA	TRACK&99,000&X2	K	7	2047	L 299 0!0		641
3470	26	04		SBR	X2	K	4	2054	H 094		641
3471	26	05		CW	001&X3	K	4	2058	) 0?1		641
3472	26	06		C	COUNT,&001	K	7	2062	C M23 N53		641
3473	26	07		BU	BOTM	K	5	2069	B !89 /		641
3474	26	08		CW	001&X2	K	4	2074	) 0!1		641
3475	26	09		LCA	@ @,000&X2 BLANK	K	7	2078	L N54 0!0		641
3476	26	10		SBR	X2	K	4	2085	H 094		642
3477	26	11	BOTM	CW	001&X2	K	4	2089	) 0!1		642
3478	26	12		MCW	HEX1,X1	K	7	2093	M M39 089		642
3479	26	13	BOTM2	SBR	X1,1&X1	K	7	2100	H 089 0|1		642
3480	26	14		SBR	HEX3	K	4	2107	H L66		642
3481	26	15	KLOBR	BCE	GUTS,0,< 12-6-8	K	8	2111	B |67 000 <		642
3482	26	16		FQUIT		K				MACRO	
3483				CS	332	K	4	2119	/ 332	GEN	642
3484				CS		K	1	2123	/	GEN	643
3485				CC	1	K	2	2124	F 1	GEN	643
3486				MCW	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@,270	K	7	2126	M N90 270	GEN	643
3487				W		K	1	2133	2	GEN	643
3488				CC	1	K	2	2134	F 1	GEN	643
3489				BCE	*&6,MONTOR,1	K	8	2136	B J49 769 1	GEN	643
3490				RWD	1	K	5	2144	U %U1 R	GEN	643
3491				H	*-3	K	4	2149	. J49	GEN	644
3492	26	17	OUT	FENDX	C,GM,, ,PHSE20,,SYS1,CONST TWO	K				MACRO	
3493			OUT	BSS	333,C	K	5	2153	B 333 C	GEN	644

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
3494				SBR	INITXT&3,PHSE2O	K	7	2158	H 796 849	GEN	644
3495				SBR	TCLEAR,SYS1	K	7	2165	H 710 001	GEN	644
3496				LCA	@CONST TWO@,110	K	7	2172	L N99 110	GEN	644
3497				B	MONTER	K	4	2179	B 700	GEN	644
3498	26	18	CKIF	BCE	PASS, CODE-3, E	K	8	2183	B J95 L50 E		645
3499	26	19		B	SET	K	4	2191	B S66		645
3500	26	20	PASS	MCW	HEX3, X3	K	7	2195	M L66 099		645
3501	26	21		MVDWN	X3, X2	K				MACRO	
3502				LCA	0&X3, 0&X2	K	7	2202	L 0?0 0!0	GEN	645
3503				SAR	X3	K	4	2209	Q 099	GEN	645
3504				C	0&X2	K	4	2213	C 0!0	GEN	645
3505				SAR	X2	K	4	2217	Q 094	GEN	645
3506	26	22		MCW	X3, X1	K	7	2221	M 099 089		646
3507	26	23		B	START	K	4	2228	B 877		646
3508	26	24	BAKUP	SBR	X1, 1&X1	K	7	2232	H 089 0|1		646
3509	26	25		B	SET	K	4	2239	B S66		646
3510	26	26	SWCHS	MCW	@S@, SWCHX	K	7	2243	M 000 T90		646
3511	26	27		MCW	NOPAD, SWCHA&3	K	7	2250	M L45 K75		646
3512	26	28		MCW	X1, X3	K	7	2257	M 089 099		647
3513	26	29	STODD	SW	ODDSW	K	4	2264	, N44		647
3514	26	30		B	NORML	K	4	2268	B T79		647
3515	26	31	SWCHA	MCW	@A@, SWCHX	K	7	2272	M M48 T90		647
3516	26	32		MCW	NOPAD, SWCHS&3	K	7	2279	M L45 K46		647
3517	26	33		MCW	@N@, SWCHZ	K	7	2286	M L95 U04		647
3518	26	34		SBR	RIGHT, 1&X1	K	7	2293	H M42 0|1		648
3519	26	35		MCW	@N@, STODD	K	7	2300	M L95 K64		648
3520	26	36		B	TEST	K	4	2307	B U35		648
3521	26	37	TABLE	EQU	*&1	K		2311			
3522	26	38		DCW	@R 2E 2D#1L, 15, 0U, 1P, 16, 01, 13, 1@	K	30	2340			649
3523	26	39	A	DCW	@A@	K	1	2341			649
3524	26	40	S	DCW	@S@	K	1	2342			649
3525	26	41	NOPAD	DCW	&@N@	K	3	2345	L95		649
3526	26	42		DCW	@ @ BLANK	K	1	2346			649
3527	26	43	BOX	DCW	@ @ BLANK	K	1	2347			649
3528	26	44		DCW	@ @ BLANK	K	1	2348			649
3529	26	45	GM	DC	@}@	K	1	2349		GMARK	649
3530	26	46		LTORG	*	K			2350		
			CODE	K DCW	#04	K	4	2353		AREA	650
			WORK	K DCW	#10	K	10	2363		AREA	650
			HEX3	K DCW	#03	K	3	2366		AREA	650
			KILL	K DCW	#03	K	3	2369		AREA	650
				DCW	@UPL3165DER@	K	10	2379		LIT	650
			CNTRLK	DCW	#02	K	2	2381		AREA	650
				DCW	@1@	K	1	2382		LIT	650
				DCW	@) }@. # % \$, * - & @	K	11	2393		LIT	651
				DCW	@B@	K	1	2394		LIT	651
				DCW	@N@	K	1	2395		LIT	651
				DCW	@/@	K	1	2396		LIT	651
				DCW	@?ABCDEFGHI ! JKLMNOPQR@	K	20	2416		LIT	651
				DCW	@<@	K	1	2417		LIT	651

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
				DCW	@_@	K	1	2418		LIT	651
			XPONTK	DCW	#02	K	2	2420		AREA	652
			COUNTK	DCW	#03	K	3	2423		AREA	652
				DCW	,@	K	1	2424		LIT	652
				DCW	&1	K	1	2425		LIT	652
			TOTALK	DCW	#03	K	3	2428		AREA	652
				DCW	&01	K	2	2430		LIT	652
				DCW	&000	K	3	2433		LIT	652
				DCW	@?0?@	K	3	2436		LIT	653
			HEX1 K	DCW	#03	K	3	2439		AREA	653
			RIGHTK	DCW	#03	K	3	2442		AREA	653
			PRESZK	DCW	#02	K	2	2444		AREA	653
				DCW	&2	K	1	2445		LIT	653
				DCW	&00	K	2	2447		LIT	653
				DCW	@A@	K	1	2448		LIT	653
				DCW	@EQUAL SIGN, STATEMENT @	K	22	2470		LIT	654
				DCW	@ERROR 41 - CONSTANT LEFT SIDE OF @	K	33	2503		LIT	655
			BLANKK	DCW	#01	K	1	2504		AREA	655
				DCW	@ERROR 44 - CONSTANT SYNTAX, STATEMENT @	K	38	2542		LIT	656
				DCW	@0@	K	1	2543		LIT	656
			ODDSWK	DCW	#01	K	1	2544		AREA	657
				DCW	&0	K	1	2545		LIT	657
			BUMP K	DCW	#02	K	2	2547		AREA	657
				DCW	@Z@	K	1	2548		LIT	657
				DCW	@ 0@	K	2	2550		LIT	657
				DCW	&001	K	3	2553		LIT	657
				DCW	@ @	K	1	2554		LIT	657
				DCW	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@	K	36	2590		LIT	658
				DCW	@CONST TWO@	K	9	2599		LIT	659
				DCW	@S@	K	1	2600		LIT	659
3531	26	47	SYS1	DCW	@}@	K	1	2601		GMARK	659
3532	26	48		ORG	*&X00	K			2700		
3533	26	49	SAUCE	EQU	*&1	K		2700			
3534	26	50		XFR	INITL	K			B 838		660

SYSTEM GROUP MARK

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
3535	26	51		JOB	1401 FORTRAN CONSTANT PHASE TWO	K					
3536	26	52		FBEGN	CONST TWO,X1,R,X2,,X3,R,O	K				MACRO	
3537				SFX	O	O				GEN	
3538		110		DCW	@CONST TWO@	O	9	0110		GEN	663
3539		X1		EQU	089	O		0089		GEN	
3540		089		DCW	000	O	3	0089		GEN	664
3541		091		DC	00	O	2	0091		GEN	664
3542		X2		EQU	094	O		0094		GEN	
3543		X3		EQU	099	O		0099		GEN	
3544		099		DCW	000	O	3	0099		GEN	665
3545		100		DC	0	O	1	0100		GEN	665
3546	26	53		ORG	XBEGIN	O			0838		
3547	26	54	NXBTM	EQU	083	O		0083			
3548	26	55	NOMO	EQU	PARAM&2	O		0688			
3549	26	56	BASE	DCW	#3	O	3	0840			666
3550	26	57	MAX	DCW	#4	O	4	0844			666
3551	26	58		DC	#1	O	1	0845			666
3552	26	59	UPLIM	DCW	#3	O	3	0848			666
3553	26	60	PHSE2	MCW	X2, X3	O	7	0849	M 094 099		666
3554	26	61		SW	GM2	O	4	0856	, T33		666
3555	26	62	CLR1	CS	000&X3	O	4	0860	/ 0?0		666
3556	26	63		SBR	X3	O	4	0864	H 099		666
3557	26	64		C	X3,&SAUCE-1	O	7	0868	C 099 T68		667
3558	26	65		BU	CLR1	O	5	0875	B 860 /		667
3559	26	66		SBR	X1,SAUCE-1	O	7	0880	H 089 N99		667
3560	26	67	* SHIFT SOURCE PROGRAM UP TO COMPILER PROGRAM								
3561	26	68		MOVUP	X2,X1,NOMO,ALL,|	O				MACRO	
3562				MN	0&X1	O	4	0887	D 0|0	GEN	667
3563				SAR	X1	O	4	0891	Q 089	GEN	667
3564			)0J091	MCM	0&X2	O	4	0895	P 0!0	GEN	667
3565				SAR	)0L091&6	O	4	0899	Q 921	GEN	667
3566				MCM	0&X2,1&X1	O	7	0903	P 0!0 0|1	GEN	668
3567				MN		O	1	0910	D	GEN	668
3568				SBR	X1	O	4	0911	H 089	GEN	668
3569			)0L091	SBR	X2,0	O	7	0915	H 094 000	GEN	668
3570				BCE	)0J091,0&X1,|	O	8	0922	B 895 0|0 |	GEN	668
3571				MN	0&X2	O	4	0930	D 0!0	GEN	668
3572				CW		O	1	0934	)	GEN	668
3573				SW	0&X1	O	4	0935	, 0|0	GEN	669
3574				C	X2,NOMO	O	7	0939	C 094 688	GEN	669
3575				BU	)0J091	O	5	0946	B 895 /	GEN	669
3576	26	69		CW	0&X2	O	4	0951	) 0!0		669
3577	26	70		CW		O	1	0955	)		669
3578	26	71		SBR	BASE,1&X1	O	7	0956	H 840 0|1		669
3579	26	72		MN	TWO9,BASE	O	7	0963	D T32 840		669
3580	26	73		MN		O	1	0970	D		670
3581	26	74		MCW	NXBTM,X3	O	7	0971	M 083 099		670
3582	26	75	* CLEAR BALANCE OF CORE								
3583	26	76	CLR2	CS	000&X3	O	4	0978	/ 0?0		670
3584	26	77		SBR	X3	O	4	0982	H 099		670

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
3585	26	78		C	X3,BASE	O	7	0986	C 099 840		670
3586	26	79		BU	CLR2	O	5	0993	B 978 /		670
3587	26	80		MCW	@<@,0&X3	O	7	0998	M T69 0?0		670
3588	26	81	*	DIVIDE	REST OF CORE FOR TABLES						
3589	26	82		MCW	NXBTM,LOC	O	7	1005	M 083 T30		671
3590	26	83		B	UNPAK	O	4	1012	B S56		671
3591	26	84		MCW	NUM#5,MAX&1	O	7	1016	M T74 845		671
3592	26	85		MCW	BASE,LOC	O	7	1023	M 840 T30		671
3593	26	86		B	UNPAK	O	4	1030	B S56		671
3594	26	87		S	NUM,MAX&1	O	7	1034	S T74 845		671
3595	26	88		A	MAX,ACCUM#6	O	7	1041	A 844 T80		672
3596	26	89		A	ACCUM	O	4	1048	A T80		672
3597	26	90		A	MAX,ACCUM	O	7	1052	A 844 T80		672
3598	26	91	* 1/10	OF	NXBTM-BASE IN MAX						
3599	26	92		A	NUM,ACCUM	O	7	1059	A T74 T80		672
3600	26	93		MCW	ACCUM-3,X3	O	7	1066	M T77 099		672
3601	26	94		A	X3	O	4	1073	A 099		672
3602	26	95		MZ	ZON19&X3,ACCUM-2	O	7	1077	Y TC4 T78		673
3603	26	96		MZ	ZON19&1&X3,ACCUM	O	7	1084	Y TC5 T80		673
3604	26	97		MCW	ACCUM,X3	O	7	1091	M T80 099		673
3605	26	98		SW	002&X3	O	4	1098	, 0?2		673
3606	26	99		MCW	@<@ 12-6-8	O	4	1102	M T69		673
3607	27	00		SBR	UPLIM	O	4	1106	H 848		673
3608	27	01		MCW	X1,X2	O	7	1110	M 089 094		674
3609	27	02		MN	0&X2	O	4	1117	D 0!0		674
3610	27	03		SAR	X1	O	4	1121	Q 089		674
3611	27	04		MCW	NXBTM,X3	O	7	1125	M 083 099		674
3612	27	05		LCA	GM2,1&X3	O	7	1132	L T33 0?1		674
3613	27	06		CS	299	O	4	1139	/ 299		674
3614	27	07		MCW	PARAM&6,X3	O	7	1143	M 692 099		675
3615	27	08		MCW	@0@	O	4	1150	M T81		675
3616	27	09		SW	200	O	4	1154	, 200		675
3617	27	10		MCW	NXBTM,LDFLT&6	O	7	1158	M 083 /71		675
3618	27	11	LDFLT	LCA	199&X3,0	O	7	1165	L 119 000		675
3619	27	12		SBR	NXBTM	O	4	1172	H 083		675
3620	27	13		SBR	LODX&6	O	4	1176	H /94		675
3621	27	14		MN	PARAM&4,X3	O	7	1180	D 690 099		676
3622	27	15		MN		O	1	1187	D		676
3623	27	16	LODX	LCA	199&X3,0	O	7	1188	L 119 000		676
3624	27	17		SBR	X3	O	4	1195	H 099		676
3625	27	18		SBR	ONEADR	O	4	1199	H 142		676
3626	27	19		LCA	@1@,0&X3	O	7	1203	L T82 0?0		676
3627	27	20		SBR	XEXPON	O	4	1210	H 157		676
3628	27	21		LCA	@A0?@	O	4	1214	L T85		677
3629	27	22		SBR	NXBTM	O	4	1218	H 083		677
3630	27	23		FENDX	C,GM2,,PHSE2,,PHSE2,SYS2,CONST TRI	O				MACRO	
3631				BSS	333,C	O	5	1222	B 333 C	GEN	677
3632				SBR	INITAP&6,PHSE2	O	7	1227	H 786 849	GEN	677
3633				SBR	BCLEAR	O	4	1234	H 833	GEN	677
3634				SBR	TCLEAR,SYS2	O	7	1238	H 710 T97	GEN	677

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
3635				LCA	@CONST TRI@,110	O	7	1245	L T94 110	GEN	677
3636				B	MONTER	O	4	1252	B 700	GEN	678
3637	27	24	UNPAK	SBR	EXIT&3	O	4	1256	H T25		678
3638	27	25		MN	LOC,NUM	O	7	1260	D T30 T74		678
3639	27	26		MN		O	1	1267	D		678
3640	27	27		MN		O	1	1268	D		678
3641	27	28		MCW		O	1	1269	M		678
3642	27	29		MZ	LOC,TWO9	O	7	1270	Y T30 T32		678
3643	27	30		MZ	LOC-2,TWO9-1	O	7	1277	Y T28 T31		679
3644	27	31		NOP	ZON19-3	O	4	1284	N T31		679
3645	27	32		SAR	X3	O	4	1288	Q 099		679
3646	27	33	COMP	C	004&X3,TWO9	O	7	1292	C 0?4 T32		679
3647	27	34		SAR	X3	O	4	1299	Q 099		679
3648	27	35		A	&1,NUM-3	O	7	1303	A T95 T71		679
3649	27	36		BU	COMP	O	5	1310	B S92 /		679
3650	27	37		MZ	@ @,NUM-3	O	7	1315	Y T96 T71		680
3651	27	38	EXIT	B	000	O	4	1322	B 000		680
3652	27	39	LOC	DCW	@0J @	O	5	1330			680
3653	27	40	TWO9	DCW	@99@	O	2	1332			680
3654	27	41	GM2	DC	@}@	O	1	1333		GMARK	680
3655	27	42	ZON19	DC	@9@	O	1	1334			680
3656	27	43		DC	@9Z9R9I99ZZZRZIZ9RZRRRIR9IZIRIII@	O	31	1365			681
3657	27	44		LTORG	*	O			1366		
				DCW	&SAUCEO-1	O	3	1368	N99	ADCON	681
				DCW	@<@	O	1	1369		LIT	681
			NUM O	DCW	#05	O	5	1374		AREA	682
			ACCUMO	DCW	#06	O	6	1380		AREA	682
				DCW	@0@	O	1	1381		LIT	682
				DCW	@1@	O	1	1382		LIT	682
				DCW	@A0?@	O	3	1385		LIT	682
				DCW	@CONST TRI@	O	9	1394		LIT	682
				DCW	&1	O	1	1395		LIT	682
				DCW	@ @	O	1	1396		LIT	683
3658	27	45	SYS2	DCW	@}@	O	1	1397		GMARK	683
3659	27	46		XFR	PHSE2	O			B 849		684

SYSTEM GROUP MARK

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
3660	27	47		JOB	1401 FORTRAN CONSTANT PHASE THREE	O					
3661	27	48	110	DCW	@CONST TRI@	O	9	0110			687
3662	27	49		ORG	PHSE2	O			0849		
3663	27	50		*	DEFINES NORMALIZED CONSTANTS IN SAUCE						
3664	27	51		*	CALCULATING AMOUNT BY WHICH OBJECT TIME ADDRESSES OF						
3665	27	52		*	CONSTANTS, FORMATS, AND LISTS MUST BE REDUCED						
3666	27	53		*	(VIA MA INSTRUCTIONS) BECAUSE OF ARRAY STORAGE						
3667	27	54		*	PLUSDF IS USED IN PHASES 24,26&50						
3668	27	55		*	MACFLS IS USED IN PHASES 20,24,25,26,&50						
3669	27	56	PHSE3	UNPAK	PARAM&2,WK5	O				MACRO	
3670			PHSE3	S	)0M093#2	O	4	0849	S !48	GEN	688
3671				S	)0L093#2	O	4	0853	S !50	GEN	688
3672				MZ	PARAM&2,)0M093-1	O	7	0857	Y 688 !47	GEN	688
3673				MZ	PARAM&2-2,)0L093-1	O	7	0864	Y 686 !49	GEN	688
3674			)0J093	BWZ	)0K093,)0L093-1, 2	O	8	0871	V 890 !49 2	GEN	688
3675				A	@A0@,)0L093	O	7	0879	A !52 !50	GEN	688
3676				B	)0J093	O	4	0886	B 871	GEN	689
3677			)0K093	BWZ	)0P093,)0M093-1, 2	O	8	0890	V 909 !47 2	GEN	689
3678				A	@?4@,)0M093	O	7	0898	A !54 !48	GEN	689
3679				B	)0K093	O	4	0905	B 890	GEN	689
3680			)0P093	A	)0L093-1,)0M093	O	7	0909	A !49 !48	GEN	689
3681				MCW	PARAM&2,WK5	O	7	0916	M 688 !71	GEN	689
3682				MCW	)0M093	O	4	0923	M !48	GEN	690
3683				ZA	WK5	O	4	0927	? !71	GEN	690
3684				MZ	*-4, WK5	O	7	0931	Y 933 !71	GEN	690
3685	27	57		MCW	X2,SAVX2#3 SAVE X2	O	7	0938	M 094 !57		690
3686	27	58		UNPAK	CONLST,CNLS5	O				MACRO	
3687				S	)0M094#2	O	4	0945	S !59	GEN	690
3688				S	)0L094#2	O	4	0949	S !61	GEN	690
3689				MZ	CONLST,)0M094-1	O	7	0953	Y 194 !58	GEN	690
3690				MZ	CONLST-2,)0L094-1	O	7	0960	Y 192 !60	GEN	691
3691			)0J094	BWZ	)0K094,)0L094-1, 2	O	8	0967	V 986 !60 2	GEN	691
3692				A	@A0@,)0L094	O	7	0975	A !52 !61	GEN	691
3693				B	)0J094	O	4	0982	B 967	GEN	691
3694			)0K094	BWZ	)0P094,)0M094-1, 2	O	8	0986	V !05 !58 2	GEN	691
3695				A	@?4@,)0M094	O	7	0994	A !54 !59	GEN	692
3696				B	)0K094	O	4	1001	B 986	GEN	692
3697			)0P094	A	)0L094-1,)0M094	O	7	1005	A !60 !59	GEN	692
3698				MCW	CONLST,CNLS5	O	7	1012	M 194 !66	GEN	692
3699				MCW	)0M094	O	4	1019	M !59	GEN	692
3700				ZA	CNLS5	O	4	1023	? !66	GEN	692
3701				MZ	*-4, CNLS5	O	7	1027	Y !29 !66	GEN	693
3702	27	59		S	CNLS5#5,WK5#5	O	7	1034	S !66 !71		693
3703	27	60		C	@0000?@,WK5 PLUS ZERO	O	7	1041	C !76 !71		693
3704	27	61		BE	RSX2	O	5	1048	B /61 S		693
3705	27	62		FPAK	WK5,PLUSDF,X2	O				MACRO	
3706				INCLD	ZONES	O				MACRO	
3707				MN	WK5,PLUSDF	O	7	1053	D !71 160	GEN	693
3708				MN		O	1	1060	D	GEN	693
3709				MN		O	1	1061	D	GEN	693

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
3710				SAR	* &4	O	4	1062	Q | 69	GEN	694
3711				MCW	0, X2	O	7	1066	M 000 094	GEN	694
3712				MCW	@0@	O	4	1073	M ! 77	GEN	694
3713				A	X2	O	4	1077	A 094	GEN	694
3714				MZ	ZONES&1&X2, PLUSDF	O	7	1081	Y ! J6 160	GEN	694
3715				CW		O	1	1088	)	GEN	694
3716				SBR	* &7	O	4	1089	H | 99	GEN	694
3717				MZ	ZONES&X2, 0	O	7	1093	Y ! J5 000	GEN	695
3718	27	63		MCW	@16000@, MCFL5#5	O	7	1100	M ! 82 ! 87		695
3719	27	64		S	WK5, MCFL5	O	7	1107	S ! 71 ! 87		695
3720	27	65		FPAK	MCFL5, MACFLS, X2	O				MACRO	
3721				INCLD	ZONES	O				MACRO	
3722				MN	MCFL5, MACFLS	O	7	1114	D ! 87 163	GEN	695
3723				MN		O	1	1121	D	GEN	695
3724				MN		O	1	1122	D	GEN	695
3725				SAR	* &4	O	4	1123	Q / 30	GEN	695
3726				MCW	0, X2	O	7	1127	M 000 094	GEN	696
3727				MCW	@0@	O	4	1134	M ! 77	GEN	696
3728				A	X2	O	4	1138	A 094	GEN	696
3729				MZ	ZONES&1&X2, MACFLS	O	7	1142	Y ! J6 163	GEN	696
3730				CW		O	1	1149	)	GEN	696
3731				SBR	* &7	O	4	1150	H / 60	GEN	696
3732				MZ	ZONES&X2, 0	O	7	1154	Y ! J5 000	GEN	696
3733	27	66	RSX2	MCW	SAVX2, X2	O	7	1161	M ! 57 094		697
3734	27	67		MA	MACFLS, ONEADR	O	7	1168	# 163 142		697
3735	27	68		MA	MACFLS, XEXPON	O	7	1175	# 163 157		697
3736	27	69		MCW	BASE, BUMP&3	O	7	1182	M 840 U82		697
3737	27	70		MZ	@S@, BUMP&2	O	7	1189	Y ! 88 U81		697
3738	27	71		MCW	X2, HEX1#3	O	7	1196	M 094 ! 91		698
3739	27	72		MCW	@ @, SAUCE-1	O	7	1203	M ! 92 N99		698
3740	27	73	START	BCE	OUT, 000&X1, BLANK	O	8	1210	B X76 0 | 0		698
3741	27	74		MCW	000&X1, CODE#4	O	7	1218	M 0 | 0 ! 96		698
3742	27	75		LCA	000&X1, WORK#10	O	7	1225	L 0 | 0 J06		698
3743	27	76		SAR	X1	O	4	1232	Q 089		699
3744	27	77		SBR	X3	O	4	1236	H 099		699
3745	27	78		LCA	WORK, 000&X2	O	7	1240	L J06 0 ! 0		699
3746	27	79		SBR	X2	O	4	1247	H 094		699
3747	27	80		BCE	PASS, CODE-3, /	O	8	1251	B X46 ! 93 /		699
3748	27	81	FIND	BCE	SEEK, 000&X1, _	O	8	1259	B S93 0 | 0 _		699
3749	27	82		CHAIN	5	O				MACRO	
3750				BCE		O	1	1267	B	GEN	699
3751				BCE		O	1	1268	B	GEN	700
3752				BCE		O	1	1269	B	GEN	700
3753				BCE		O	1	1270	B	GEN	700
3754				BCE		O	1	1271	B	GEN	700
3755	27	83		BCE	PASS, 000&X1, }	O	8	1272	B X46 0 | 0 }	GMARK	700
3756	27	84		CHAIN	5	O				MACRO	
3757				BCE		O	1	1280	B	GEN	700
3758				BCE		O	1	1281	B	GEN	700
3759				BCE		O	1	1282	B	GEN	701

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
3760				BCE		O	1	1283	B	GEN	701
3761				BCE		O	1	1284	B	GEN	701
3762	27	85		SBR	X1	O	4	1285	H 089		701
3763	27	86		B	FIND	O	4	1289	B S59		701
3764	27	87	SEEK	BCE	FOUND,000&X1, _	O	8	1293	B T09 0|0 _		701
3765	27	88		SBR	X1	O	4	1301	H 089		701
3766	27	89		B	SEEK	O	4	1305	B S93		702
3767	27	90	FOUND	SW	001&X1	O	4	1309	, 0|1		702
3768	27	91		CW		O	1	1313	)		702
3769	27	92		CW		O	1	1314	)		702
3770	27	93		CW		O	1	1315	)		702
3771	27	94		SAR	X1	O	4	1316	Q 089		702
3772	27	95		BCE	COPY, 004&X1, }	O	8	1320	B T43 0|4 } GMARK		702
3773	27	96		LCA	000&X3,000&X2	O	7	1328	L 0?0 0|0		703
3774	27	97		SBR	X2	O	4	1335	H 094		703
3775	27	98		CW	001&X2	O	4	1339	) 0!1		703
3776	27	99	COPY	SBR	X3,2&X1	O	7	1343	H 099 0|2		703
3777	28	00	LIMIT	MCW	000&X1,BOX#1	O	7	1350	M 0|0 J07		703
3778	28	01		SAR	X1	O	4	1357	Q 089		703
3779	28	02		MCW	BOX, *&8	O	7	1361	M J07 T75		704
3780	28	03		BCE	RANDM,@# }@*-&)\$, @, 0	O	8	1368	B T88 J16 0		704
3781	28	04		CHAIN	8	O				MACRO	
3782				BCE		O	1	1376	B	GEN	704
3783				BCE		O	1	1377	B	GEN	704
3784				BCE		O	1	1378	B	GEN	704
3785				BCE		O	1	1379	B	GEN	704
3786				BCE		O	1	1380	B	GEN	704
3787				BCE		O	1	1381	B	GEN	705
3788				BCE		O	1	1382	B	GEN	705
3789				BCE		O	1	1383	B	GEN	705
3790	28	05		B	LIMIT	O	4	1384	B T50		705
3791	28	06	RANDM	SW	002&X1	O	4	1388	, 0|2		705
3792	28	07		ZA	000&X3,MOD#4	O	7	1392	? 0?0 J20		705
3793	28	08		A	004&X1,MOD	O	7	1399	A 0|4 J20		705
3794	28	09		BCE	SQUOZ,002&X1, BLANK, 1 CHAR FIXED PT. NUM	O	8	1406	B X04 0|2		706
3795	28	10	STRIP	MZ	@ @,MOD	O	7	1414	Y J24 J20		706
3796	28	11		MZ		O	1	1421	Y		706
3797	28	12		MZ		O	1	1422	Y		706
3798	28	13		MCW	3 DIGIT NO. IN MOD	O	1	1423	M		706
3799	28	14	SUBTR	S	MAX,MOD	O	7	1424	S 844 J20		706
3800	28	15		BWZ	SUBTR,MOD,B	O	8	1431	V U24 J20 B		706
3801	28	16		A	MAX,MOD	O	7	1439	A 844 J20		707
3802	28	17		MZ	@ @,MOD BLANK	O	7	1446	Y !92 J20		707
3803	28	18		MCW	X2,HEX2#8	O	7	1453	M 094 J32		707
3804	28	19		MCW	STORES X1	O	1	1460	M		707
3805	28	20		MCW	MOD,X1	O	7	1461	M J20 089		707
3806	28	21		A	X1	O	4	1468	A 089		707
3807	28	22		A	MOD,X1	O	7	1472	A J20 089		708
3808	28	23	BUMP	NOP	000 BASE & 3*MOD IN X1, TABLE 1 ENTRY ADDRESS	O	4	1479	N 000		708
3809	28	24		SAR	X1	O	4	1483	Q 089		708

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
3810	28	25		MCW	@N@,OVFLW	O	7	1487	M J33 W71		708
3811	28	26	CHAIN	BCE	NEW,000&X1, BLANK, CONST NOT YET ENCOUNTERED	O	8	1494	B W26 0|0		708
3812	28	27		BCE	OVFLW,000&X1,< 12-6-8	O	8	1502	B W71 0|0 <		708
3813	28	28		MCW	000&X1,X2	O	7	1510	M 0|0 094		709
3814	28	29		SAR	X1	O	4	1517	Q 089		709
3815	28	30		C	000&X3,000&X2	O	7	1521	C 0?0 0!0		709
3816	28	31		BU	CHAIN	O	5	1528	B U94 /		709
3817	28	32		C	000&X2,000&X3	O	7	1533	C 0!0 0?0		709
3818	28	33		BU	CHAIN	O	5	1540	B U94 /		709
3819	28	34	RESTR	MCW	X2,TEMP#3	O	7	1545	M 094 J36		710
3820	28	35		MCW	TEMP,TEMP2 COMPUTE CORRECT CONSTANT ADDRS. BEFORE	O	7	1552	M J36 J39		710
3821	28	36		MA	MACFLS,TEMP PUTTING THEM IN ARITHMETIC STRINGS.	O	7	1559	# 163 J36		710
3822	28	37		MCW	HEX2,X2	O	7	1566	M J32 094		710
3823	28	38		MCW		O	1	1573	M		710
3824	28	39		LCA	TEMP,0&X2	O	7	1574	L J36 0!0		710
3825	28	40		SBR	X2	O	4	1581	H 094		711
3826	28	41		CW	001&X2	O	4	1585	) 0!1		711
3827	28	42		MCW	TEMP2#3,*&7	O	7	1589	M J39 W02		711
3828	28	43		BWZ	FIXED,0,2	O	8	1596	V W93 000 2		711
3829	28	44		MZ	@ @,002&X2 BLANK	O	7	1604	Y !92 0!2		711
3830	28	45	BOTM	SBR	X1,1&X1	O	7	1611	H 089 0|1		711
3831	28	46		SBR	X3	O	4	1618	H 099		712
3832	28	47		B	FIND	O	4	1622	B S59		712
3833	28	48	NEW	MCW	NXBTM,X2	O	7	1626	M 083 094		712
3834	28	49		MCW	NXBTM,000&X1	O	7	1633	M 083 0|0		712
3835	28	50		MCW	000&X3,000&X2	O	7	1640	M 0?0 0!0		712
3836	28	51		SBR	X1	O	4	1647	H 089		712
3837	28	52		SBR	NXBTM	O	4	1651	H 083		712
3838	28	53		BCE	FULL,000&X1,< 12-6-8	O	8	1655	B X12 0|0 <		713
3839	28	54		SW	001&X1	O	4	1663	, 0|1		713
3840	28	55		B	RESTR	O	4	1667	B V45		713
3841	28	56	OVFLW	NOP	FULL	O	4	1671	N X12		713
3842	28	57		MCW	@S@,OVFLW	O	7	1675	M !88 W71		713
3843	28	58		MCW	UPLIM,X1	O	7	1682	M 848 089		713
3844	28	59		B	CHAIN	O	4	1689	B U94		713
3845	28	60	FIXED	MZ	*-6,2&X2	O	7	1693	Y W93 0!2		714
3846	28	61		B	BOTM	O	4	1700	B W11		714
3847	28	62	SQUOZ	SW	003&X1	O	4	1704	, 0|3		714
3848	28	63		B	STRIP	O	4	1708	B U14		714
3849	28	64	FULL	FQUIT		O				MACRO	
3850			FULL	CS	332	O	4	1712	/ 332	GEN	714
3851				CS		O	1	1716	/	GEN	714
3852				CC	1	O	2	1717	F 1	GEN	714
3853				MCW	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@,270	O	7	1719	M J75 270	GEN	715
3854				W		O	1	1726	2	GEN	715
3855				CC	1	O	2	1727	F 1	GEN	715
3856				BCE	*&6,MONTOR,1	O	8	1729	B X42 769 1	GEN	715
3857				RWD	1	O	5	1737	U %U1 R	GEN	715
3858				H	*-3	O	4	1742	. X42	GEN	715
3859	28	65	PASS	MVDWN	X3,X2	O				MACRO	

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
3860			PASS	LCA	0&X3,0&X2	O	7	1746	L 0?0 0!0	GEN	715
3861				SAR	X3	O	4	1753	Q 099	GEN	716
3862				C	0&X2	O	4	1757	C 0!0	GEN	716
3863				SAR	X2	O	4	1761	Q 094	GEN	716
3864	28	66		MCW	X3,X1	O	7	1765	M 099 089		716
3865	28	67		B	START	O	4	1772	B S10		716
3866	28	68	OUT	MCW	HEX1,X1	O	7	1776	M !91 089		716
3867	28	69		CS	332	O	4	1783	/ 332		716
3868	28	70		CS		O	1	1787	/		717
3869	28	71		MCW	@CONSTANTS LOCATED FROM @,223	O	7	1788	M J98 223		717
3870	28	72		UNPAK	NXBTM,WK51	O				MACRO	
3871				S	)0M099#2	O	4	1795	S K00	GEN	717
3872				S	)0L099#2	O	4	1799	S K02	GEN	717
3873				MZ	NXBTM,)0M099-1	O	7	1803	Y 083 J99	GEN	717
3874				MZ	NXBTM-2,)0L099-1	O	7	1810	Y 081 K01	GEN	717
3875			)0J099	BWZ	)0K099,)0L099-1, 2	O	8	1817	V Y36 K01 2	GEN	717
3876				A	@A0@,)0L099	O	7	1825	A !52 K02	GEN	718
3877				B	)0J099	O	4	1832	B Y17	GEN	718
3878			)0K099	BWZ	)0P099,)0M099-1, 2	O	8	1836	V Y55 J99 2	GEN	718
3879				A	@?4@,)0M099	O	7	1844	A !54 K00	GEN	718
3880				B	)0K099	O	4	1851	B Y36	GEN	718
3881			)0P099	A	)0L099-1,)0M099	O	7	1855	A K01 K00	GEN	718
3882				MCW	NXBTM,WK51	O	7	1862	M 083 K08	GEN	719
3883				MCW	)0M099	O	4	1869	M K00	GEN	719
3884				ZA	WK51	O	4	1873	? K08	GEN	719
3885				MZ	*-4, WK51	O	7	1877	Y Y79 K08	GEN	719
3886	28	73		S	WK5,WK51	O	7	1884	S !71 K08		719
3887	28	74		MZ	@ @,WK51	O	7	1891	Y !92 K08		719
3888	28	75		A	&1,WK51#5	O	7	1898	A K03 K08		720
3889	28	76		MCW	NXBTM,X3	O	7	1905	M 083 099		720
3890	28	77		MA	MACFLS,X3	O	7	1912	# 163 099		720
3891	28	78		SBR	X3,1&X3	O	7	1919	H 099 0?1		720
3892	28	79		MCW	CONLST,247	O	7	1926	M 194 247		720
3893	28	80		MCW	@-@	O	4	1933	M K09		720
3894	28	81		MCW	X3	O	4	1937	M 099		721
3895	28	82		MCW	@ @	O	4	1941	M K12		721
3896	28	83		MCW	CNLS5	O	4	1945	M !66		721
3897	28	84		MCW	@ TO @	O	4	1949	M K16		721
3898	28	85		MCW	WK51	O	4	1953	M K08		721
3899	28	86		CC	J	O	2	1957	F J		721
3900	28	87		W		O	1	1959	2		721
3901	28	88		CC	J	O	2	1960	F J		722
3902	28	89		FORMS		O				MACRO	
3903				BCV	*&5	O	5	1962	B Z71 @	GEN	722
3904				B	*&3	O	4	1967	B Z73	GEN	722
3905				CC	1	O	2	1971	F 1	GEN	722
3906	28	90		FENDX	D,, ,XBEGIN,XBEGIN,XBEGIN,SAUCE-2,SUBSCR	O				MACRO	
3907				BSS	333,D	O	5	1973	B 333 D	GEN	722
3908				SBR	INITAP&6,XBEGIN	O	7	1978	H 786 838	GEN	722
3909				SBR	BCLEAR	O	4	1985	H 833	GEN	722

REMOVE SIGN

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
3910				SBR	INITXT&3,XBEGIN	O	7	1989	H 796 838	GEN	723
3911				SBR	TCLEAR,SAUCE-2	O	7	1996	H 710 N98	GEN	723
3912				LCA	@SUBSCR@,110	O	7	2003	L K22 110	GEN	723
3913				B	MONTER	O	4	2010	B 700	GEN	723
3914	28	91		ORG	*	O			2014		
3915				LTORG	* WVS: AUTOCODER SHOULDN'T LOAD INCLD AT ORG	O			2014		
3916				DCW	#1	O	1	2014		GEN	723
3917			ZONES	DC	9	O	1	2015		GEN	723
3918				DCW	@9Z9R9I99ZZZRZIZ9RZRRRIR9IZIRIII@	O	31	2046		GEN	724
			*	LTORG*						GEN	
			)0M093	DCW	#02	O	2	2048		AREA	724
			)0L093	DCW	#02	O	2	2050		AREA	724
				DCW	@A0@	O	2	2052		LIT	724
				DCW	@?4@	O	2	2054		LIT	724
			SAVX20	DCW	#03	O	3	2057		AREA	725
			)0M094	DCW	#02	O	2	2059		AREA	725
			)0L094	DCW	#02	O	2	2061		AREA	725
			CNLS50	DCW	#05	O	5	2066		AREA	725
			WK5	O DCW	#05	O	5	2071		AREA	725
				DCW	@0000?@	O	5	2076		LIT	725
				DCW	@0@	O	1	2077		LIT	725
				DCW	@16000@	O	5	2082		LIT	726
			MCFL50	DCW	#05	O	5	2087		AREA	726
				DCW	@S@	O	1	2088		LIT	726
			HEX1	O DCW	#03	O	3	2091		AREA	726
				DCW	@ @	O	1	2092		LIT	726
			CODE	O DCW	#04	O	4	2096		AREA	726
			WORK	O DCW	#10	O	10	2106		AREA	726
			BOX	O DCW	#01	O	1	2107		AREA	727
				DCW	@#}@*-&)\$,@	O	9	2116		LIT	727
			MOD	O DCW	#04	O	4	2120		AREA	727
				DCW	@ @	O	4	2124		LIT	727
			HEX2	O DCW	#08	O	8	2132		AREA	727
				DCW	@N@	O	1	2133		LIT	727
			TEMP	O DCW	#03	O	3	2136		AREA	727
			TEMP20	DCW	#03	O	3	2139		AREA	728
				DCW	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@	O	36	2175		LIT	728
				DCW	@CONSTANTS LOCATED FROM @	O	23	2198		LIT	729
			)0M099	DCW	#02	O	2	2200		AREA	729
			)0L099	DCW	#02	O	2	2202		AREA	729
				DCW	&1	O	1	2203		LIT	729
			WK51	O DCW	#05	O	5	2208		AREA	729
				DCW	@-@	O	1	2209		LIT	729
				DCW	@ @	O	3	2212		LIT	729
				DCW	@ TO @	O	4	2216		LIT	730
				DCW	@SUBSCR@	O	6	2222		LIT	730
3919	28	92		DCW	@}@	O	1	2223		GMARK	730
					SYSTEM GROUP MARK						
3920	28	93		ORG	TAMAXT&X00	O			2600		
3921	28	94	SAUCE	EQU	*&1	O		2600			
3922	28	95		XFR	PHSE3	O			B 849		731

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
3923	28	96		JOB	1401 FORTRAN SUBSCRIPTS PHASE	O					
3924	28	97		FBEGN	SUBSCR,X1,,X2,,X3,R,W	O				MACRO	
3925				SFX	W	W				GEN	
3926			110	DCW	@SUBSCR@	W	6	0110		GEN	734
3927			X1	EQU	089	W		0089		GEN	
3928			X2	EQU	094	W		0094		GEN	
3929			X3	EQU	099	W		0099		GEN	
3930			099	DCW	000	W	3	0099		GEN	735
3931			100	DC	0	W	1	0100		GEN	735
3932	28	98		ORG	XBEGIN	W			0838		
3933	28	99	*	SQUEEZE	ADDRESSES BETWEEN \$ SIGNS TOGETHER, ERROR CHECK						
3934	29	00	INITL	CS	0&X2	W	4	0838	/ 0!0		736
3935	29	01		CS		W	1	0842	/		736
3936	29	02		SBR	X2,1&X1	W	7	0843	H 094 0|1		736
3937	29	03		SBR	HEX1#3	W	4	0850	H /94		736
3938	29	04	START	BCE	OUT,000&X1, BLANK	W	8	0854	B /39 0|0		736
3939	29	05		MCW	000&X1, CODE#4	W	7	0862	M 0|0 /98		736
3940	29	06		B	SLIDE X2 INITIALLY GREATER THAN X1	W	4	0869	B |64		736
3941	29	07		BCE	PASS, CODE-3, /	W	8	0873	B /31 /95 /		737
3942	29	08		BCE	PASS, CODE-3, F	W	8	0881	B /31 /95 F		737
3943	29	09	FIND	BCE	SEEK, 000&X1, \$	W	8	0889	B 923 0|0 \$		737
3944	29	10		CHAIN	5	W				MACRO	
3945				BCE		W	1	0897	B	GEN	737
3946				BCE		W	1	0898	B	GEN	737
3947				BCE		W	1	0899	B	GEN	737
3948				BCE		W	1	0900	B	GEN	737
3949				BCE		W	1	0901	B	GEN	738
3950	29	11		BWZ	FNISH, 000&X1, 1 WORD MK	W	8	0902	V /24 0|0 1		738
3951	29	12		CHAIN	5	W				MACRO	
3952				BWZ		W	1	0910	V	GEN	738
3953				BWZ		W	1	0911	V	GEN	738
3954				BWZ		W	1	0912	V	GEN	738
3955				BWZ		W	1	0913	V	GEN	738
3956				BWZ		W	1	0914	V	GEN	738
3957	29	13		SBR	X1	W	4	0915	H 089		739
3958	29	14		B	FIND	W	4	0919	B 889		739
3959	29	15	SEEK	BCE	FOUND, 000&X1, \$	W	8	0923	B 939 0|0 \$		739
3960	29	16		SBR	X1	W	4	0931	H 089		739
3961	29	17		B	SEEK	W	4	0935	B 923		739
3962	29	18	FOUND	SW	000&X1	W	4	0939	, 0|0		739
3963	29	19		B	SEND	W	4	0943	B /69		739
3964	29	20		MN	000&X1	W	4	0947	D 0|0		740
3965	29	21		SAR	X1	W	4	0951	Q 089		740
3966	29	22		B	DROP4	W	4	0955	B |98		740
3967	29	23	SQUOZ	SW	2&X1	W	4	0959	, 0|2		740
3968	29	24		B	SEND	W	4	0963	B /69		740
3969	29	25		B	DROP4	W	4	0967	B |98		740
3970	29	26		BWZ	CPAR, 3&X1, S	W	8	0971	V |21 0|3 S		740
3971	29	27		BWZ	CPAR, 3&X1, K	W	8	0979	V |21 0|3 K		741
3972	29	28		FTMSG	12, FLOATING POINT SUBSCRIPT, CODE, 26	W				MACRO	

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
3973				CS	332	W	4	0987	/ 332	GEN	741
3974				CS		W	1	0991	/	GEN	741
3975				SW	FAILSW	W	4	0992	, 184	GEN	741
3976				MN	CODE,224&26	W	7	0996	D /98 250	GEN	741
3977				MN		W	1	1003	D	GEN	741
3978				MN		W	1	1004	D	GEN	741
3979				MCW	@ERROR 12 - FLOATING POINT SUBSCRIPT, STATEMENT @	W	4	1005	M S45	GEN	742
3980				W		W	1	1009	2	GEN	742
3981				BCV	*&5	W	5	1010	B |19 @	GEN	742
3982				B	*&3	W	4	1015	B |21	GEN	742
3983				CC	1	W	2	1019	F 1	GEN	742
3984	29	29	CPAR	SW	2&X1	W	4	1021	, 0|2		742
3985	29	30		B	SEND	W	4	1025	B /69		742
3986	29	31		B	DROP4	W	4	1029	B |98		743
3987	29	32		C	001&X1,@\$@	W	7	1033	C 0|1 S46		743
3988	29	33		BU	SQUOZ	W	5	1040	B 959 /		743
3989	29	34		SW	001&X1	W	4	1045	, 0|1		743
3990	29	35		B	SEND	W	4	1049	B /69		743
3991	29	36		MCW	X1,X3	W	7	1053	M 089 099		743
3992	29	37		B	FIND	W	4	1060	B 889		743
3993	29	38	SLIDE	SBR	EXSLD&3	W	4	1064	H |97		744
3994	29	39		MVDWN	X1,X2	W				MACRO	
3995				LCA	0&X1,0&X2	W	7	1068	L 0|0 0!0	GEN	744
3996				SAR	X1	W	4	1075	Q 089	GEN	744
3997				C	0&X2	W	4	1079	C 0!0	GEN	744
3998				SAR	X2	W	4	1083	Q 094	GEN	744
3999	29	40		MCW	X1,X3	W	7	1087	M 089 099		744
4000	29	41	EXSLD	B	000	W	4	1094	B 000		744
4001	29	42	DROP4	SBR	EXDRP&3	W	4	1098	H /23		745
4002	29	43		MCW	X1,X3	W	7	1102	M 089 099		745
4003	29	44		MN	0&X1	W	4	1109	D 0|0		745
4004	29	45		CHAIN	3	W				MACRO	
4005				MN		W	1	1113	D	GEN	745
4006				MN		W	1	1114	D	GEN	745
4007				MN		W	1	1115	D	GEN	745
4008	29	46		SBR	X1	W	4	1116	H 089		745
4009	29	47	EXDRP	B	000	W	4	1120	B 000		746
4010	29	48	FNISH	MCW	X3,X1	W	7	1124	M 099 089		746
4011	29	49	PASS	B	SLIDE	W	4	1131	B |64		746
4012	29	50		B	START	W	4	1135	B 854		746
4013	29	51	OUT	MCW	HEX1,X1	W	7	1139	M /94 089		746
4014	29	52		FENDX	C,,,,,SYS1,STNUM ONE	W				MACRO	
4015				BSS	333,C	W	5	1146	B 333 C	GEN	746
4016				SBR	TCLEAR,SYS1	W	7	1151	H 710 S56	GEN	746
4017				LCA	@STNUM ONE@,110	W	7	1158	L S55 110	GEN	747
4018				B	MONTER	W	4	1165	B 700	GEN	747
4019	29	53	SEND	SBR	EXSND&3	W	4	1169	H /91		747
4020	29	54		LCA	000&X3,000&X2	W	7	1173	L 0?0 0!0		747
4021	29	55		SBR	X2	W	4	1180	H 094		747
4022	29	56		CW	001&X2	W	4	1184	) 0!1		747

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
4023	29	57	EXSND	B	000	W	4	1188	B 000		747
4024	29	58		LTORG	*	W			1192		
			HEX1	W	DCW #03	W	3	1194		AREA	748
			CODE	W	DCW #04	W	4	1198		AREA	748
					@ERROR 12 - FLOATING POINT SUBSCRIPT, STATEMENT @	W	47	1245		LIT	750
					DCW @\$@	W	1	1246		LIT	750
					DCW @STNUM ONE@	W	9	1255		LIT	750
4025	29	59	SYS1	DCW	@}@	W	1	1256		GMARK	750
4026	29	60		XFR	INITL	W			B 838		751
					SYSTEM GROUP MARK						

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
4027	29	61		JOB	1401 FORTRAN STATEMENT NUMBER PHASE ONE	W					
4028	29	62		FBEGN	STNUM ONE,X1,,X2,,X3,R,M	W				MACRO	
4029				SFX	M	M				GEN	
4030		110		DCW	@STNUM ONE@	M	9	0110		GEN	754
4031				X1	EQU 089	M		0089		GEN	
4032				X2	EQU 094	M		0094		GEN	
4033				X3	EQU 099	M		0099		GEN	
4034		099		DCW	000	M	3	0099		GEN	755
4035		100		DC	0	M	1	0100		GEN	755
4036	29	63		ORG	XBEGIN	M			0838		
4037	29	64	NXBTM	EQU	083	M		0083			
4038	29	65	INITL	CS	0&X2	M	4	0838	/ 0!0		756
4039	29	66		MCW	NXBTM,X2	M	7	0842	M 083 094		756
4040	29	67		SW	GM	M	4	0849	, Z30		756
4041	29	68		LCA	GM,000&X2	M	7	0853	L Z30 0!0		756
4042	29	69		SBR	X2	M	4	0860	H 094		756
4043	29	70	START	BCE	OUT,000&X1, BLANK	M	8	0864	B Y99 0!0		756
4044	29	71		LCA	000&X1,WORK1#10	M	7	0872	L 0!0 !09		757
4045	29	72		SAR	X1	M	4	0879	Q 089		757
4046	29	73		CW	001&X1	M	4	0883	) 0!1		757
4047	29	74		SW	WORK1-3	M	4	0887	, !06		757
4048	29	75		LCA	WORK1,000&X2	M	7	0891	L !09 0!0		757
4049	29	76		SBR	X2	M	4	0898	H 094		757
4050	29	77		CW	001&X2	M	4	0902	) 0!1		757
4051	29	78		BWZ	LABEL,WORK1-4,2 NO ZONE	M	8	0906	V !03 !05 2		758
4052	29	79	TOP	LCA	GM,000&X2	M	7	0914	L Z30 0!0		758
4053	29	80		SBR	X2	M	4	0921	H 094		758
4054	29	81		MCW	WORK1-3,TEST&7	M	7	0925	M !06 939		758
4055	29	82	TEST	BCE	WORRY,@WT65UPLDEGK@,0	M	8	0932	B !26 !20 0		758
4056	29	83		CHAIN	10	M				MACRO	
4057				BCE		M	1	0940	B	GEN	758
4058				BCE		M	1	0941	B	GEN	758
4059				BCE		M	1	0942	B	GEN	759
4060				BCE		M	1	0943	B	GEN	759
4061				BCE		M	1	0944	B	GEN	759
4062				BCE		M	1	0945	B	GEN	759
4063				BCE		M	1	0946	B	GEN	759
4064				BCE		M	1	0947	B	GEN	759
4065				BCE		M	1	0948	B	GEN	759
4066				BCE		M	1	0949	B	GEN	760
4067	29	84		BCE	KILL,WORK1-3,/	M	8	0950	B 981 !06 /		760
4068	29	85	BOTM	MVDWN	X1,X2	M				MACRO	
4069			BOTM	LCA	0&X1,0&X2	M	7	0958	L 0!0 0!0	GEN	760
4070				SAR	X1	M	4	0965	Q 089	GEN	760
4071				C	0&X2	M	4	0969	C 0!0	GEN	760
4072				SAR	X2	M	4	0973	Q 094	GEN	760
4073	29	86		B	START	M	4	0977	B 864		760
4074	29	87	KILL	C	0&X1	M	4	0981	C 0!0		761
4075	29	88		SAR	X1	M	4	0985	Q 089		761
4076	29	89		MCM	4&X2	M	4	0989	P 0!4		761

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
4077	29	90		MN		M	1	0993	D		761
4078	29	91		MN		M	1	0994	D		761
4079	29	92		SAR	X2	M	4	0995	Q 094		761
4080	29	93		B	START	M	4	0999	B 864		761
4081	29	94	LABEL	LCA	WORK1-4,STATE#6	M	7	1003	L !05 !26		762
4082	29	95		SBR	X3	M	4	1010	H 099		762
4083	29	96		SW	002&X3	M	4	1014	, 0?2		762
4084	29	97		B	ALPHA	M	4	1018	B W10		762
4085	29	98		B	TOP	M	4	1022	B 914		762
4086	29	99	WORRY	B	IFEXP,WORK1-3,E	M	8	1026	B T62 !06 E		762
4087	30	00		BCE	DO,WORK1-3,D	M	8	1034	B S76 !06 D		762
4088	30	01		BCE	INOUT,WORK1-3,5	M	8	1042	B /30 !06 5		763
4089	30	02		BCE	INOUT,WORK1-3,6	M	8	1050	B /30 !06 6		763
4090	30	03		BCE	PUTE,WORK1-3,T	M	8	1058	B |90 !06 T		763
4091	30	04		BCE	SENSE,WORK1-3,W	M	8	1066	B /93 !06 W		763
4092	30	05		BCE	SENSE,WORK1-3,K	M	8	1074	B /93 !06 K		764
4093	30	06		B	GRAB1	M	4	1082	B U73		764
4094	30	07		B	BOTM	M	4	1086	B 958		764
4095	30	08	PUTE	B	GRAB1	M	4	1090	B U73		764
4096	30	09		BCE	OVER,000&X1,)	M	8	1094	B /18 0|0)		764
4097	30	10		BCE	SYNER,0&X1,}	M	8	1102	B Y02 0|0 } GMARK		764
4098	30	11		SBR	X1	M	4	1110	H 089		765
4099	30	12		B	PUTE	M	4	1114	B |90		765
4100	30	13	OVER	MN	000&X1	M	4	1118	D 0|0		765
4101	30	14		SAR	X1	M	4	1122	Q 089		765
4102	30	15		B	BOTM	M	4	1126	B 958		765
4103	30	16	INOUT	MCW	X1,LOAD&3	M	7	1130	M 089 /77		765
4104	30	17	FIND	BCE	TPNAM,000&X1,,	M	8	1137	B /61 0|0 ,		765
4105	30	18		BCE	SYNER,0&X1,}	M	8	1145	B Y02 0|0 } GMARK		766
4106	30	19		SBR	X1	M	4	1153	H 089		766
4107	30	20		B	FIND	M	4	1157	B /37		766
4108	30	21	TPNAM	SW	001&X1	M	4	1161	, 0|1		766
4109	30	22		MN		M	1	1165	D		766
4110	30	23		SAR	X1	M	4	1166	Q 089		766
4111	30	24		B	GRAB1	M	4	1170	B U73		766
4112	30	25	LOAD	LCA	000,000&X2	M	7	1174	L 000 0!0		767
4113	30	26		SBR	X2	M	4	1181	H 094		767
4114	30	27		CW	001&X2	M	4	1185	) 0!1		767
4115	30	28		B	BOTM	M	4	1189	B 958		767
4116	30	29	SENSE	MCW	X1,LOAD&3	M	7	1193	M 089 /77		767
4117	30	30	FIND2	BCE	WITCH,000&X1,)	M	8	1200	B S24 0|0)		767
4118	30	31		BCE	SYNER,0&X1,}	M	8	1208	B Y02 0|0 } GMARK		768
4119	30	32		SBR	X1	M	4	1216	H 089		768
4120	30	33		B	FIND2	M	4	1220	B S00		768
4121	30	34	WITCH	SW	001&X1	M	4	1224	, 0|1		768
4122	30	35		MN		M	1	1228	D		768
4123	30	36		SAR	X1	M	4	1229	Q 089		768
4124	30	37		B	GRAB1	M	4	1233	B U73		768
4125	30	38		MN	000&X1	M	4	1237	D 0|0		769
4126	30	39		SAR	X1	M	4	1241	Q 089		769

SEQ	PG	LIN	LABEL	OP	OPERANDS		SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
4127	30	40		BCE	SYNER,0&X1,}	GM	M	8	1245	B Y02 0|0 }	GMARK	769
4128	30	41		B	GRAB1		M	4	1253	B U73		769
4129	30	42	COMMA	LCA	@@,000&X2		M	7	1257	L !27 0!0		769
4130	30	43		SBR	X2		M	4	1264	H 094		769
4131	30	44		CW	001&X2		M	4	1268	) 0!1		769
4132	30	45		B	LOAD		M	4	1272	B /74		770
4133	30	46	DO	MCW	X1,X3		M	7	1276	M 089 099		770
4134	30	47	VARBL	BCE	BACK2,0&X3,#		M	8	1283	B S99 0?0 #		770
4135	30	48		SBR	X3		M	4	1291	H 099		770
4136	30	49		B	VARBL		M	4	1295	B S83		770
4137	30	50	BACK2	MCW	3&X3,SVZN#1		M	7	1299	M 0?3 !28		770
4138	30	51		MCW	@@,3&X3		M	7	1306	M !27 0?3		771
4139	30	52		SBR	HEX3#3,3&X3		M	7	1313	H !31 0?3		771
4140	30	53		B	GRAB1		M	4	1320	B U73		771
4141	30	54		C	HEX3,X1		M	7	1324	C !31 089		771
4142	30	55		BU	SYNER		M	5	1331	B Y02 /		771
4143	30	56		MCW	SVZN,0&X1		M	7	1336	M !28 0|0		771
4144	30	57		LCA	@@,000&X2		M	7	1343	L !27 0!0		772
4145	30	58		SBR	X2		M	4	1350	H 094		772
4146	30	59		CW	001&X2		M	4	1354	) 0!1		772
4147	30	60		B	BOTM		M	4	1358	B 958		772
4148	30	61	IFEXP	MCW	X1,LOAD&3		M	7	1362	M 089 /77		772
4149	30	62	RTPAR	BCE	NOZO,000&X1,)		M	8	1369	B T93 0|0)		772
4150	30	63		BCE	SYNER,0&X1,}	GM	M	8	1377	B Y02 0|0 }	GMARK	773
4151	30	64		SBR	X1		M	4	1385	H 089		773
4152	30	65		B	RTPAR		M	4	1389	B T69		773
4153	30	66	NOZO	MN	000&X1		M	4	1393	D 0|0		773
4154	30	67		SAR	X1		M	4	1397	Q 089		773
4155	30	68		BWZ	YEAH,000&X1,2	NO ZONE	M	8	1401	V U13 0|0 2		773
4156	30	69		B	RTPAR		M	4	1409	B T69		773
4157	30	70	YEAH	BCE	RTPAR,0&X1,@		M	8	1413	B T69 0|0 @		774
4158	30	71		SW	1&X1		M	4	1421	, 0|1		774
4159	30	72		B	GRAB1		M	4	1425	B U73		774
4160	30	73		MN	000&X1		M	4	1429	D 0|0		774
4161	30	74		SAR	X1		M	4	1433	Q 089		774
4162	30	754		BCE	BADST,0&X1,}	GM	V3M4 M	8	1437	B Y48 0|0 }	GMARK	774
4163	30	764		MN	0&X1		V3M4 M	4	1445	D 0|0		774
4164	30	774		SAR	X1		V3M4 M	4	1449	Q 089		775
4165	30	784		B	GRAB1		V3M4 M	4	1453	B U73		775
4166	30	794		BCE	BADST,0&X1,}	GM	V3M4 M	8	1457	B Y48 0|0 }	GMARK	775
4167	30	80		B	GRAB1		M	4	1465	B U73		775
4168	30	81		B	COMMA		M	4	1469	B S57		775
4169	30	82	GRAB1	SBR	EXIT2&3		M	4	1473	H W09		775
4170	30	83		MCW	X1,TAKE&3		M	7	1477	M 089 V94		775
4171	30	84		BWZ	LOOP,000&X1,2	NO ZONE	M	8	1484	V U96 0|0 2		776
4172	30	85		B	BADST		M	4	1492	B Y48		776
4173	30	86	LOOP	MN	000&X1		M	4	1496	D 0|0		776
4174	30	87		SAR	X1		M	4	1500	Q 089		776
4175	30	88		BWZ	LOOP,000&X1,2	NO ZONE	M	8	1504	V U96 0|0 2		776
4176	30	89		FBCEQ	SETWM,0&X1,,},)	COMMA,GM	M				MACRO	

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
4177				BCE	SETWM, 0&X1, ,	M	8	1512	B V40 0|0 ,	GEN	776
4178				BCE	SETWM, 0&X1, }	M	8	1520	B V40 0|0 }	GEN	777
4179				BCE	SETWM, 0&X1,)	M	8	1528	B V40 0|0)	GEN	777
4180	30	90		B	BADST	M	4	1536	B Y48		777
4181	30	91	SETWM	SW	1&X1	M	4	1540	, 0|1		777
4182	30	911		SW	MKTST&1	V3M4	M	4	1544	, V60	777
4183	30	912		MLC	TAKE&3,MKTST&3	V3M4	M	7	1548	M V94 V62	777
4184	30	913		CW	MKTST&1	V3M4	M	4	1555	) V60	777
4185	30	914	MKTST	MLC	0,TEST	V3M4	M	7	1559	M 000 932	778
4186	30	915		B	TAKE,TEST5-5,: 5-8	V3M4	M	8	1566	B V91 V85 :	778
4187	30	916		MLC	@:@,TEST5-5 5-8	V3M4	M	7	1574	M !32 V85	778
4188	30	917		B	BADST	V3M4	M	4	1581	B Y48	778
4189	30	918	TEST5	DCW	@: @ 5-8, BLANK....	V3M4	M	6	1590		778
4190	30	92	TAKE	LCA	000,STATE	M	7	1591	L 000 !26		778
4191	30	93		CW	001&X1	M	4	1598	) 0|1		779
4192	30	94		B	ALPHA	M	4	1602	B W10		779
4193	30	95	EXIT2	B	000	M	4	1606	B 000		779
4194	30	96	ALPHA	SBR	EXIT1&3	M	4	1610	H Y01		779
4195	30	97		LCA	SIX0,PLACE	M	7	1614	L Z99 Z37		779
4196	30	98		C	SIX0,STATE	M	7	1621	C Z99 !26		779
4197	30	99		BU	NORM	M	5	1628	B W37 /		779
4198	31	00		B	SET3	M	4	1633	B W71		780
4199	31	01	NORM	SBR	X3,STATE&1	M	7	1637	H 099 !27		780
4200	31	02	ZERO	MN	000&X3	M	4	1644	D 0?0		780
4201	31	03		SAR	X3	M	4	1648	Q 099		780
4202	31	04		BCE	ZERO,000&X3,0	M	8	1652	B W44 0?0 0		780
4203	31	05		MCW	000&X3,PLACE	M	7	1660	M 0?0 Z37		780
4204	31	06		MCW	@1@	M	4	1667	M !33		780
4205	31	07	SET3	SW	PLACE-1	M	4	1671	, Z36		781
4206	31	08		CW		M	1	1675	)		781
4207	31	09		SW		M	1	1676	,		781
4208	31	10		CW		M	1	1677	)		781
4209	31	11		SW		M	1	1678	,		781
4210	31	12		S	@5050@,PLACE	M	7	1679	S !37 Z37		781
4211	31	13		S		M	1	1686	S		781
4212	31	14		BWZ	TRY2,PLACE,K B-BIT	M	8	1687	V X02 Z37 K		782
4213	31	15		A	@1@,PLACE-5	M	7	1695	A !33 Z32		782
4214	31	16	TRY2	BWZ	STRIP,PLACE-2,K B-BIT	M	8	1702	V X17 Z35 K		782
4215	31	17		A	@2@,PLACE-5	M	7	1710	A !38 Z32		782
4216	31	18	STRIP	MZ	@Z Z Z @,PLACE SET UP FOR GENER	M	7	1717	Y !44 Z37		782
4217	31	19		CHAIN	5	M				MACRO	
4218				MZ		M	1	1724	Y	GEN	782
4219				MZ		M	1	1725	Y	GEN	782
4220				MZ		M	1	1726	Y	GEN	783
4221				MZ		M	1	1727	Y	GEN	783
4222				MZ		M	1	1728	Y	GEN	783
4223	31	20		MCW	X1,HEX1	M	7	1729	M 089 Z41		783
4224	31	21		MCW	&TABLE-49,X1	M	7	1736	M !47 089		783
4225	31	22		MCW	&PLACE,X3	M	7	1743	M !50 099		783
4226	31	23	COOL	MCW	000&X3,GENER&3	M	7	1750	M 0?0 X64		783

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
4227	31	24		SAR	X3	M	4	1757	Q 099		784
4228	31	25	GENER	MCW	000,BOX MODIFIED AND INDEXED BY X1	M	7	1761	M 000 Z38		784
4229	31	26		LCA	BOX,000&X2	M	7	1768	L Z38 0!0		784
4230	31	27		SBR	X2	M	4	1775	H 094		784
4231	31	28		CW	001&X2	M	4	1779	) 0!1		784
4232	31	29		BWZ	COOL,000&X3,2 NO ZONE	M	8	1783	V X50 0?0 2		784
4233	31	30		MCW	HEX1,X1	M	7	1791	M Z41 089		785
4234	31	31	EXIT1	B	000	M	4	1798	B 000		785
4235	31	32	SYNER	FTMSG	13,STATEMENT NUMBER SYNTAX,WORK1,25	M				MACRO	
4236			SYNER	CS	332	M	4	1802	/ 332	GEN	785
4237				CS		M	1	1806	/	GEN	785
4238				SW	FAILSW	M	4	1807	, 184	GEN	785
4239				MN	WORK1,224&25	M	7	1811	D !09 249	GEN	785
4240				MN		M	1	1818	D	GEN	785
4241				MN		M	1	1819	D	GEN	786
4242				MCW	@ERROR 13 - STATEMENT NUMBER SYNTAX, STATEMENT @	M	4	1820	M !96	GEN	786
4243				W		M	1	1824	2	GEN	786
4244				BCV	*&5	M	5	1825	B Y34 @	GEN	786
4245				B	*&3	M	4	1830	B Y36	GEN	786
4246				CC	1	M	2	1834	F 1	GEN	786
4247	31	33		BW	PMOV,BADSW	M	8	1836	V Y56 Z42 1		786
4248	31	34		B	ERR	M	4	1844	B Y77		787
4249	31	35	BADST	SW	BADSW	M	4	1848	, Z42		787
4250	31	36		B	SYNER	M	4	1852	B Y02		787
4251	31	37	PMOV	MCM	1&X2	M	4	1856	P 0!1		787
4252	31	38		MN		M	1	1860	D		787
4253	31	39		SAR	X2	M	4	1861	Q 094		787
4254	31	40		BCE	PMOV,0&X2,|	M	8	1865	B Y56 0!0 |		787
4255	31	41		CW	BADSW	M	4	1873	) Z42		788
4256	31	42	ERR	MCM	4&X2	M	4	1877	P 0!4		788
4257	31	43		MN		M	1	1881	D		788
4258	31	44		MN		M	1	1882	D		788
4259	31	45		SAR	X2	M	4	1883	Q 094		788
4260	31	46		C	0&X1	M	4	1887	C 0|0		788
4261	31	47		SAR	X1	M	4	1891	Q 089		788
4262	31	48		B	START	M	4	1895	B 864		789
4263	31	49	OUT	FENDX	C,,,TAMROF,,TAMR1T,TAMROF ONE	M				MACRO	
4264			OUT	BSS	333,C	M	5	1899	B 333 C	GEN	789
4265				SBR	INITXT&3,TAMROF	M	7	1904	H 796 980	GEN	789
4266				SBR	TCLEAR,TAMR1T	M	7	1911	H 710 V99	GEN	789
4267				LCA	@TAMROF ONE@,110	M	7	1918	L J06 110	GEN	789
4268				B	MONTER	M	4	1925	B 700	GEN	789
4269	31	50		DCW	@ @	M	1	1929			789
4270	31	51	GM	DC	@}@	M	1	1930		GMARK	789
4271	31	52		DC	@.@	M	1	1931			789
4272	31	53	PLACE	DCW	@ @	M	6	1937			790
4273	31	54	BOX	DCW	@ @	M	1	1938			790
4274	31	55	HEX1	DCW	@ @	M	3	1941			790
4275	31	56	BADSW	DC	#1	M	1	1942			790
4276	31	57	TABLE	DC	@. ")&\$*-%#@?ABCDEFGH!JKLMNOPQR_/STUVWXYZ0123456789@	M	50	1992			792

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
4277	31	58		DC	@. @	M	1	1993			792
4278	31	59	SIX0	DCW	@0000000@	M	6	1999			792
4279	31	60	*		& IS 12-0 PUNCH, - 11-0 PUNCH .,0-7-8 R,11-7-8						
4280	31	61	*		NO COMMA, RECORD MARK, OR GROUP MARK IN TABLE						
4281	31	62		LTOrg *		M			2000		
			WORK1M	DCW	#10	M	10	2009		AREA	792
				DCW	@WT65UPLDEGK@	M	11	2020		LIT	792
			STATEM	DCW	#06	M	6	2026		AREA	793
				DCW	@, @	M	1	2027		LIT	793
			SVZN M	DCW	#01	M	1	2028		AREA	793
			HEX3 M	DCW	#03	M	3	2031		AREA	793
				DCW	@: @	M	1	2032		LIT	793
				DCW	@1 @	M	1	2033		LIT	793
				DCW	@5050@	M	4	2037		LIT	793
				DCW	@2 @	M	1	2038		LIT	794
				DCW	@Z Z Z @	M	6	2044		LIT	794
				DCW	&TABLEM-49	M	3	2047	Z43	ADCON	794
				DCW	&PLACEM	M	3	2050	Z37	ADCON	794
				DCW	@ERROR 13 - STATEMENT NUMBER SYNTAX, STATEMENT @	M	46	2096		LIT	796
				DCW	@TAMROF ONE@	M	10	2106		LIT	796
4282	31	63		DCW	@} @	M	1	2107		GMARK	796
4283	31	64		XFR	INITL	M			B 838		797

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
4284	31	65		JOB	1401 FORTRAN TAMROF PHASE ONE FORMAT SPECS	M					
4285	31	66		FBEGN	TAMROF ONE,X1,R,X2,,X3,R,T,XXX	M				MACRO	
4286				SFX	T	T				GEN	
4287			XXX	EQU	0	T		0000		GEN	
4288			110	DCW	@TAMROF ONE@	T	10	0110		GEN	800
4289			X1	EQU	089	T		0089		GEN	
4290			089	DCW	000	T	3	0089		GEN	801
4291			091	DC	00	T	2	0091		GEN	801
4292			X2	EQU	094	T		0094		GEN	
4293			X3	EQU	099	T		0099		GEN	
4294			099	DCW	000	T	3	0099		GEN	802
4295			100	DC	0	T	1	0100		GEN	802
4296	31	67	*								
4297	31	68	NXBTM	EQU	83	T		0083			
4298	31	69	*								
4299	31	70		ORG	XBEGIN	T			0838		
4300	31	71	KLOBR	FQUIT		T				MACRO	
4301			KLOBR	CS	332	T	4	0838	/ 332	GEN	803
4302				CS		T	1	0842	/	GEN	803
4303				CC	1	T	2	0843	F 1	GEN	803
4304				MCW	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@,270	T	7	0845	M 963 270	GEN	803
4305				W		T	1	0852	2	GEN	803
4306				CC	1	T	2	0853	F 1	GEN	803
4307				BCE	*&6,MONTOR,1	T	8	0855	B 868 769 1	GEN	803
4308				RWD	1	T	5	0863	U %U1 R	GEN	804
4309				H	*-3	T	4	0868	. 868	GEN	804
4310	31	72	CKBIT	DCW	@;@ 11-6-8	T	1	0872			804
4311	31	73	HEX3	DCW	#3	T	3	0875			804
4312	31	74	CODE	DCW	#4	T	4	0879			804
4313	31	75	*								
4314	31	76	*								
4315	31	77	ERROR	EQU	206	T		0206			
4316	31	78	PRNTN	EQU	250	T		0250			
4317	31	79	*								
4318	31	80	GETST	SBR	GSTXT&3	T	4	0880	H 927		804
4319	31	81		FORMS		T				MACRO	
4320				BCV	*&5	T	5	0884	B 893 @	GEN	804
4321				B	*&3	T	4	0889	B 895	GEN	805
4322				CC	1	T	2	0893	F 1	GEN	805
4323	31	82		CS	332	T	4	0895	/ 332		805
4324	31	83		CS		T	1	0899	/		805
4325	31	84		SW	FAILSW	T	4	0900	, 184		805
4326	31	85		MN	CODE,PRNTN	T	7	0904	D 879 250		805
4327	31	86		CHAIN	2	T				MACRO	
4328				MN		T	1	0911	D	GEN	805
4329				MN		T	1	0912	D	GEN	806
4330	31	87		MCW	@STATEMENT @	T	4	0913	M 974		806
4331	31	88		MCW	@ERROR@, ERROR-1	T	7	0917	M 979 205		806
4332	31	89	GSTXT	B	XXX	T	4	0924	B 000		806
4333	31	90	*								

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
4334	31	91		LTORG	*	T			0928		
				DCW	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@	T	36	0963		LIT	807
				DCW	@STATEMENT @	T	11	0974		LIT	808
				DCW	@ERROR@	T	5	0979		LIT	808
4335	31	92	*								
4336	31	93	TAMROF	CS	1&X2	T	4	0980	/ 0|1		808
4337	31	94		SBR	X1	T	4	0984	H 089		808
4338	31	95		SW	GM1	T	4	0988	, V03		808
4339	31	96	CLR	CS	0&X1	T	4	0992	/ 0|0		808
4340	31	97		SBR	X1	T	4	0996	H 089		808
4341	31	98		C	X1, &TAMR1	T	7	1000	C 089 U36		809
4342	31	99		BU	CLR	T	5	1007	B 992 /		809
4343	32	00		LCA	GM1, TAMAX&1	T	7	1012	L V03 001		809
4344	32	01		SBR	X1, TAMAX&2	T	7	1019	H 089 002		809
4345	32	02		SBR	X2, 2&X2	T	7	1026	H 094 0|2		809
4346	32	03		MCW	@., 96	T	7	1033	M U37 096		810
4347	32	04		SW	IOSW#1	T	4	1040	, U38		810
4348	32	05	CHKND	MCW	NXBTM, X3	T	7	1044	M 083 099		810
4349	32	06		SBR	X3, 1&X3	T	7	1051	H 099 0?1		810
4350	32	07		C	X3,X2	T	7	1058	C 099 094		810
4351	32	08		BE	FINI	T	5	1065	B S16 S		810
4352	32	09		CW	DBLSW#1	T	4	1070	) U39		811
4353	32	10		MN	0&X2	T	4	1074	D 0|0		811
4354	32	11		SAR	X3	T	4	1078	Q 099		811
4355	32	12		MCW	CKBIT	T	4	1082	M 872		811
4356	32	13	MVUP2	MOVUP	X2,X1,,|	T				MACRO	
4357			MVUP2	MN	0&X1	T	4	1086	D 0|0	GEN	811
4358				SAR	X1	T	4	1090	Q 089	GEN	811
4359			)0J114	MCM	0&X2	T	4	1094	P 0|0	GEN	811
4360				SAR	)0L114&6	T	4	1098	Q /20	GEN	812
4361				MCM	0&X2,1&X1	T	7	1102	P 0|0 0|1	GEN	812
4362				MN		T	1	1109	D	GEN	812
4363				SBR	X1	T	4	1110	H 089	GEN	812
4364			)0L114	SBR	X2,0	T	7	1114	H 094 000	GEN	812
4365				BCE	)0J114,0&X1,|	T	8	1121	B |94 0|0 |	GEN	812
4366				MN	0&X2	T	4	1129	D 0|0	GEN	812
4367				CW		T	1	1133	)	GEN	813
4368				SW	0&X1	T	4	1134	, 0|0	GEN	813
4369				SBR	X1, 1&X1	T	7	1138	H 089 0|1	GEN	813
4370	32	14		BW	BOTH,DBLSW	T	8	1145	V /61 U39 1		813
4371	32	15		SW	DBLSW	T	4	1153	, U39		813
4372	32	16		B	MVUP2	T	4	1157	B |86		813
4373	32	17	BOTH	MN	0&X1	T	4	1161	D 0|0		813
4374	32	18		MN		T	1	1165	D		814
4375	32	19		SAR	X3	T	4	1166	Q 099		814
4376	32	20		SBR	MKFMT&6	T	4	1170	H T97		814
4377	32	21		MCW	0&X3, CODE	T	7	1174	M 0?0 879		814
4378	32	22		SAR	X3	T	4	1181	Q 099		814
4379	32	23		B	CKFMT, CODE-3, F	T	8	1185	B T15 876 F		814
4380	32	24		MCW	CODE-3, *&8	T	7	1193	M 876 S07		814

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
4381	32	25		BCE	YESIO, @56ULP@, X	T	8	1200	B S91 U44 X		815
4382	32	26		CHAIN	4	T				MACRO	
4383				BCE		T	1	1208	B	GEN	815
4384				BCE		T	1	1209	B	GEN	815
4385				BCE		T	1	1210	B	GEN	815
4386				BCE		T	1	1211	B	GEN	815
4387	32	27		B	CHKND	T	4	1212	B |44		815
4388	32	28	FINI	MN	0&X1	T	4	1216	D 0|0		815
4389	32	29		MN		T	1	1220	D		816
4390	32	30		SAR	X1	T	4	1221	Q 089		816
4391	32	31		MCW	LSTIO, X2	T	7	1225	M U57 094		816
4392	32	32		MCW	NXB TM, X3	T	7	1232	M 083 099		816
4393	32	33		MCW	@ @, 0&X3	T	7	1239	M U45 0?0		816
4394	32	34		MCW	0&X3	T	4	1246	M 0?0		816
4395	32	35		MCW	CKBIT, 0&X3	T	7	1250	M 872 0?0		816
4396	32	36		FENDX	C, GM1, , TAMROF, , TAMROF, TAMAX, TAMROF 2	T				MACRO	
4397				BSS	333, C	T	5	1257	B 333 C	GEN	817
4398				SBR	INITAP&6, TAMROF	T	7	1262	H 786 980	GEN	817
4399				SBR	BCLEAR	T	4	1269	H 833	GEN	817
4400				SBR	TCLEAR, TAMAX	T	7	1273	H 710 000	GEN	817
4401				LCA	@TAMROF 2@, 110	T	7	1280	L U53 110	GEN	817
4402				B	MONTER	T	4	1287	B 700	GEN	817
4403	32	37	*								
4404	32	38	YESIO	MZ	@A@, 3&X3	T	7	1291	Y U54 0?3		818
4405	32	39		CW	IOSW	T	4	1298	) U38		818
4406	32	40		MN	0&X1	T	4	1302	D 0|0		818
4407	32	41		MN		T	1	1306	D		818
4408	32	42		SAR	LSTIO#3	T	4	1307	Q U57		818
4409	32	43		B	CHKND	T	4	1311	B |44		818
4410	32	44	*								
4411	32	45	CKFMT	MCW	@ @, 96	T	7	1315	M U45 096		818
4412	32	46		BW	UNREF, IOSW	T	8	1322	V T61 U38 1		819
4413	32	47		BCE	UNREF, 0&X3, }	T	8	1330	B T61 0?0 }	GMARK	819
4414	32	48		MCW	0&X3, FBOX#3	T	7	1338	M 0?0 U60		819
4415	32	49		MCW	LSTIO, X3	T	7	1345	M U57 099		819
4416	32	50	RUIO	BWZ	IOTYP, 0&X3, B	T	8	1352	V U02 0?0 B		819
4417	32	51		BWZ		T	1	1360	V		819
4418	32	52	UNREF	FTMSG	14, UNREFERENCED FORMAT, CODE, 21, NOFAIL	T				MACRO	
4419			UNREF	CS	332	T	4	1361	/ 332	GEN	820
4420				CS		T	1	1365	/	GEN	820
4421				MN	CODE, 224&21	T	7	1366	D 879 245	GEN	820
4422				MN		T	1	1373	D	GEN	820
4423				MN		T	1	1374	D	GEN	820
4424				MCW	@ERROR 14 - UNREFERENCED FORMAT, STATEMENT @	T	4	1375	M V02	GEN	820
4425				W		T	1	1379	2	GEN	820
4426				BCV	*&5	T	5	1380	B T89 @	GEN	821
4427				B	*&3	T	4	1385	B T91	GEN	821
4428				CC	1	T	2	1389	F 1	GEN	821
4429	32	53	MKFMT	MZ	@A@, XXX	T	7	1391	Y U54 000		821
4430	32	54		B	CHKND	T	4	1398	B |44		821

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
4431	32	55	IOTYP	C	0&X3	T	4	1402	C 0?0		821
4432	32	56		SAR	X3	T	4	1406	Q 099		821
4433	32	57		C	0&X3, FBOX	T	7	1410	C 0?0 U60		822
4434	32	58		BE	CHKND	T	5	1417	B |44 S		822
4435	32	59		C	0&X3	T	4	1422	C 0?0		822
4436	32	60		SAR	X3	T	4	1426	Q 099		822
4437	32	61		B	RUIO	T	4	1430	B T52		822
4438	32	62	*								
4439	32	63		LTORG	*	T			1434		
				DCW	&TAMR1T	T	3	1436	V99	ADCON	822
				DCW	@.@	T	1	1437		LIT	822
			IOSW T	DCW	#01	T	1	1438		AREA	823
			DBLSWT	DCW	#01	T	1	1439		AREA	823
				DCW	@56ULP@	T	5	1444		LIT	823
				DCW	@ @	T	1	1445		LIT	823
				DCW	@TAMROF 2@	T	8	1453		LIT	823
				DCW	@A@	T	1	1454		LIT	823
			LSTIOT	DCW	#03	T	3	1457		AREA	823
			FBOX T	DCW	#03	T	3	1460		AREA	824
				DCW	@ERROR 14 - UNREFERENCED FORMAT, STATEMENT @	T	42	1502		LIT	826
4440	32	64	GM1	DCW	@}@	T	1	1503		GMARK	826
4441	32	65		ORG	*&X00	T			1600		
4442	32	66	TAMR1	EQU	*	T		1599			
4443	32	67		XFR	TAMROF	T			B 980		827

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
4444	32	68		JOB	1401 FORTRAN TAMROF TWO	T					
4445	32	69	110	DCW	@TAMROF 2@	T	8	0110			830
4446	32	70	*								
4447	32	71	XL2	EQU	X2	T		0094			
4448	32	72	XL3	EQU	X3	T		0099			
4449	32	73		ORG	TAMROF	T			0980		
4450	32	74	*								
4451	32	75	PHSE2	BCE	END2, 96, .	T	8	0980	B |21 096 .		831
4452	32	76		MCW	X2, IOBGN&6	T	7	0988	M 094 J59		831
4453	32	77	RETRN	SBR	X2, 2&X1	T	7	0995	H 094 0|2		831
4454	32	78		LCA	@ @	T	4	1002	L M20		831
4455	32	79		MCW	0&X1, CODE	T	7	1006	M 0|0 879		831
4456	32	80		BCE	MOR, CODE-3, F	T	8	1013	B |62 876 F		832
4457	32	81	END2	FENDX	C,GM2,,XBEGIN,PHSE1X,XBEGIN,SYS2,LISTR1	T				MACRO	
4458			END2	BSS	333,C	T	5	1021	B 333 C	GEN	832
4459				SBR	INITAP&6,XBEGIN	T	7	1026	H 786 838	GEN	832
4460				SBR	BCLEAR	T	4	1033	H 833	GEN	832
4461				SBR	INITXT&3,PHSE1X	T	7	1037	H 796 845	GEN	832
4462				SBR	TCLEAR,SYS2	T	7	1044	H 710 N99	GEN	832
4463				LCA	@LISTR1@,110	T	7	1051	L M26 110	GEN	833
4464				B	MONTER	T	4	1058	B 700	GEN	833
4465	32	82	MOR	C	0&X1	T	4	1062	C 0|0		833
4466	32	83		SAR	X1	T	4	1066	Q 089		833
4467	32	84		SBR	COMPL&6	T	4	1070	H /21		833
4468	32	85		MCW	4&X1, FMTNO#3	T	7	1074	M 0|4 M29		833
4469	32	86		SW	SW1#1	T	4	1081	, M30		833
4470	32	87		CW	PARSW#1	T	4	1085	) M31		834
4471	32	88		ZA	&1, NCTR	T	7	1089	? M32 M38		834
4472	32	89		BCE	ERSIG, 0&X1,) Q. FIRST CHAR RIGHT PAREN	T	8	1096	B S58 0|0)		834
4473	32	90		MCW	X2,SCNBX#3	T	7	1104	M 094 M35		834
4474	32	91		B	BGIN	T	4	1111	B V10		834
4475	32	92	*								
4476	32	93	COMPL	SBR	X1, XXX	T	7	1115	H 089 000		834
4477	32	94	SETN	ZA	&1, NCTR#3	T	7	1122	? M32 M38		835
4478	32	95	COMRT	BCE	RTPAR,0&X1,)	T	8	1129	B V41 0|0)		835
4479	32	96		SBR	COMPL&6	T	4	1137	H /21		835
4480	32	97		BCE	LFPAR, 0&X1,%	T	8	1141	B U98 0|0 %		835
4481	32	98		FBCEQ	ARIT, 0&X1,I,F,E	T				MACRO	
4482				BCE	ARIT, 0&X1, I	T	8	1149	B W64 0|0 I	GEN	835
4483				BCE	ARIT, 0&X1, F	T	8	1157	B W64 0|0 F	GEN	836
4484				BCE	ARIT, 0&X1, E	T	8	1165	B W64 0|0 E	GEN	836
4485	32	99		BCE	ARIT,0&X1,A	T	8	1173	B W64 0|0 A		836
4486	33	00		FBCEQ	PGET, 0&X1, &,-	T				MACRO	
4487				BCE	PGET, 0&X1, &	T	8	1181	B U24 0|0 &	GEN	836
4488				BCE	PGET, 0&X1, -	T	8	1189	B U24 0|0 -	GEN	837
4489	33	01		BCE	SLASH,0&X1,@	T	8	1197	B W36 0|0 @		837
4490	33	02		C	0&X1, @Z@	T	7	1205	C 0|0 M39		837
4491	33	03		BL	MV2N	T	5	1212	B Z04 T		837
4492	33	04		BL	PUTN	T	5	1217	B !10 T		837
4493	33	05		BW	ERSIG, SW1	T	8	1222	V S58 M30 1		838

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
4494	33	06		BCE	HNOT, 0&X1, H	T	8	1230	B T06 0|0 H		838
4495	33	07		SBR	X1	T	4	1238	H 089		838
4496	33	08		BCE	XNOT, 1&X1, X	T	8	1242	B S81 0|1 X		838
4497	33	09		BCE	PNOT, 1&X1, P	T	8	1250	B U79 0|1 P		838
4498	33	10	*								
4499	33	11	ERSIG	B	GETST	T	4	1258	B 880		839
4500	33	12		MCW	@15 - FORMAT SYNTAX@,ERROR&17	T	7	1262	M M57 223		839
4501	33	13	ERRWT	W		T	1	1269	2		839
4502	33	14		MZ	@A@,CODE	T	7	1270	Y M58 879		839
4503	33	15		B	FINIS	T	4	1277	B !54		839
4504	33	16	*								
4505	33	17	XNOT	SW	8&X2	T	4	1281	, 0!8		839
4506	33	18		SBR	X2	T	4	1285	H 094		839
4507	33	19		LCA	KX	T	4	1289	L L95		840
4508	33	20		MN	NCTR, 0&X2	T	7	1293	D M38 0!0		840
4509	33	21		MN		T	1	1300	D		840
4510	33	22		MN		T	1	1301	D		840
4511	33	23		B	MKND	T	4	1302	B Y35		840
4512	33	24	*								
4513	33	25	HNOT	SW	5&X2	T	4	1306	, 0!5		840
4514	33	26		CW		T	1	1310	)		840
4515	33	27		SBR	X2	T	4	1311	H 094		841
4516	33	28		LCA	KH, 1&X2	T	7	1315	L L88 0!1		841
4517	33	29		S	&1, NCTR	T	7	1322	S M32 M38		841
4518	33	30		BM	ERSIG, NCTR	T	8	1329	V S58 M38 K		841
4519	33	31		MN	0&X1	T	4	1337	D 0|0		841
4520	33	32		SAR	X1	T	4	1341	Q 089		841
4521	33	33	FLIP	MN	0&X1, 2&X2	T	7	1345	D 0|0 0!2		842
4522	33	34		SBR	X2	T	4	1352	H 094		842
4523	33	35		MZ	0&X1, 1&X2	T	7	1356	Y 0|0 0!1		842
4524	33	36		SAR	X1	T	4	1363	Q 089		842
4525	33	37		SBR	COMPL&6	T	4	1367	H /21		842
4526	33	38		CW	2&X2	T	4	1371	) 0!2		842
4527	33	39		S	&1, NCTR	T	7	1375	S M32 M38		842
4528	33	40		BCE	HLERR,0&X1,}	T	8	1382	B U09 0|0 }	GMARK	843
4529	33	41		BWZ	FLIP, NCTR, B	T	8	1390	V T45 M38 B		843
4530	33	42	BX2B2	SBR	X2,1&X2	T	7	1398	H 094 0!1		843
4531	33	43		B	MKND	T	4	1405	B Y35		843
4532	33	44	HLERR	B	GETST	T	4	1409	B 880		843
4533	33	45		MCW	@45 - HOLLERITH COUNT@,ERROR &25	T	7	1413	M M78 231		843
4534	33	46		W	BX2B2	T	4	1420	2 T98		844
4535	33	47	*								
4536	33	48	PGET	MZ	0&X1, NCTR	T	7	1424	Y 0|0 M38		844
4537	33	49		SAR	X1	T	4	1431	Q 089		844
4538	33	50		B	MV2N	T	4	1435	B Z04		844
4539	33	51		C	X3,@020@	T	7	1439	C 099 M81		844
4540	33	52		BL	ERSIG	T	5	1446	B S58 T		844
4541	33	53		MN	X3, NCTR	T	7	1451	D 099 M38		844
4542	33	54		MN		T	1	1458	D		845
4543	33	55		C	0&X1, @P@	T	7	1459	C 0|0 M82		845

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
4544	33	56		SAR	COMPL&6	T	4	1466	Q /21		845
4545	33	57		SBR	X1	T	4	1470	H 089		845
4546	33	58		BU	ERSIG	T	5	1474	B S58 /		845
4547	33	59	*								
4548	33	60	PNOT	SBR	X2, 7&X2	T	7	1479	H 094 0!7		845
4549	33	61		LCA	NCTR	T	4	1486	L M38		845
4550	33	62		LCA	KP	T	4	1490	L M19		846
4551	33	63		B	MKND	T	4	1494	B Y35		846
4552	33	64	*								
4553	33	65	LFPAR	BW	PARER, PARSW	T	8	1498	V V69 M31 1		846
4554	33	66		SW	PARSW	T	4	1506	, M31		846
4555	33	67	BGIN	SW	8&X2	T	4	1510	, 0!8		846
4556	33	68		SBR	X2	T	4	1514	H 094		846
4557	33	69		CW	URFSW	T	4	1518	) N62		846
4558	33	70		LCA	NCTR, 0&X2	T	7	1522	L M38 0!0		847
4559	33	71		LCA	KLEFT	T	4	1529	L L99		847
4560	33	72	SET1	SW	SW1	T	4	1533	, M30		847
4561	33	73		B	COMPL	T	4	1537	B /15		847
4562	33	74	*								
4563	33	75	RTPAR	MN	0&X1	T	4	1541	D 0!0		847
4564	33	76		SAR	COMPL&6	T	4	1545	Q /21		847
4565	33	77		SBR	*&7	T	4	1549	H V59		847
4566	33	78		BCE	EOSTM, XXX, }	T	8	1553	B W12 000 }	GMARK	848
4567	33	79		BW	PAROK, PARSW	T	8	1561	V V84 M31 1		848
4568	33	80	PARER	B	GETST	T	4	1569	B 880		848
4569	33	81		MCW	@16 - PARENTHESIS ERROR@, ERROR&22	T	7	1573	M N04 228		848
4570	33	82		B	ERRWT	T	4	1580	B S69		848
4571	33	83	*								
4572	33	84	PAROK	CW	PARSW	T	4	1584	) M31		848
4573	33	85		SW	5&X2	T	4	1588	, 0!5		848
4574	33	86		SBR	X2	T	4	1592	H 094		849
4575	33	87		LCA	KRITE	T	4	1596	L M03		849
4576	33	88		MN	0&X1	T	4	1600	D 0!0		849
4577	33	89		SAR	X1	T	4	1604	Q 089		849
4578	33	90		B	MKND	T	4	1608	B Y35		849
4579	33	91	*								
4580	33	92	EOSTM	CW	5&X2	T	4	1612	) 0!5		849
4581	33	93		SBR	X2	T	4	1616	H 094		849
4582	33	94		LCA	KEOJ	T	4	1620	L M15		850
4583	33	95		BW	PARER, PARSW	T	8	1624	V V69 M31 1		850
4584	33	96		B	FINIS	T	4	1632	B !54		850
4585	33	97	*								
4586	33	98	SLASH	BW	*&5, SW1	T	8	1636	V W48 M30 1		850
4587	33	99		B	ERSIG	T	4	1644	B S58		850
4588	34	00		SW	5&X2	T	4	1648	, 0!5		850
4589	34	01		SBR	X2	T	4	1652	H 094		850
4590	34	02		LCA	KLINE	T	4	1656	L M07		851
4591	34	03		B	COMPL	T	4	1660	B /15		851
4592	34	04	*								
4593	34	05	ARIT	SW	5&X2	T	4	1664	, 0!5		851

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
4594	34	06		LCA	KARIT	T	4	1668	L M11		851
4595	34	07	MVRPT	LCA	NCTR, 8&X2	T	7	1672	L M38 0!8		851
4596	34	08		MCW	0&X1	T	4	1679	M 0!0		851
4597	34	09		SAR	X1	T	4	1683	Q 089		851
4598	34	10		B	MV2N	T	4	1687	B Z04		852
4599	34	11		ZA	XL3, WCTR#3	T	7	1691	? 099 N07		852
4600	34	12		SW	IEXIT&4	T	4	1698	, Y12		852
4601	34	13		BCE	CLRI, 5&X2, F	T	8	1702	B X33 0!5 F		852
4602	33	14		FBCEQ	NOSUB, 5&X2, I, A	T				MACRO	
4603				BCE	NOSUB, 5&X2, I	T	8	1710	B X72 0!5 I	GEN	852
4604				BCE	NOSUB, 5&X2, A	T	8	1718	B X72 0!5 A	GEN	852
4605	33	15		S	&4, WCTR	T	7	1726	S N08 N07		853
4606	33	16	CLRI	CW	IEXIT&4	T	4	1733	) Y12		853
4607	34	17		C	0&X1, @. @	T	7	1737	C 0!0 N09		853
4608	34	18		SAR	X1	T	4	1744	Q 089		853
4609	34	19		BU	ERSIG	T	5	1748	B S58 /		853
4610	34	20		B	MV2N	T	4	1753	B Z04		853
4611	34	21		S	XL3, WCTR	T	7	1757	S 099 N07		853
4612	34	224		BM	TESTE, WCTR	V3M4 T	8	1764	V Z98 N07 K		854
4613	34	23	NOSUB	BCE	*&8, 5&X2, F	T	8	1772	B X87 0!5 F		854
4614	34	24		A	&4, X3	T	7	1780	A N08 099		854
4615	34	25	HERE	SBR	X2, 11&X2	T	7	1787	H 094 0J1		854
4616	34	26		MZ	*-4, WCTR	T	7	1794	Y X96 N07		854
4617	34	27		LCA	WCTR, 0&X2	T	7	1801	L N07 0!0		855
4618	34	28	IEXIT	BCE	CKZRO, *-7, C	T	8	1808	B Y27 Y08 C		855
4619	34	29		SBR	XL2, 3&X2	T	7	1816	H 094 0!3		855
4620	34	30		LCA	XL3	T	4	1823	L 099		855
4621	34	31	CKZRO	BM	ERSIG, WCTR	T	8	1827	V S58 N07 K		855
4622	34	32	MKND	SW	SW1	T	4	1835	, M30		855
4623	34	33	LK4CM	C	0&X1, @, @	T	7	1839	C 0!0 N10		856
4624	34	34		SAR	COMPL&6	T	4	1846	Q /21		856
4625	34	35		SBR	X1	T	4	1850	H 089		856
4626	34	36		BE	LK4CM	T	5	1854	B Y39 S		856
4627	34	37		SBR	X1, 1&X1	T	7	1859	H 089 0!1		856
4628	34	38		B	SETN	T	4	1866	B /22		856
4629	34	39	EINPT	A	XL3, WCTR	T	7	1870	A 099 N07		856
4630	34	40		A	@4@, WCTR	T	7	1877	A N11 N07		857
4631	34	41		MN	WCTR, XL3	T	7	1884	D N07 099		857
4632	34	42		MN		T	1	1891	D		857
4633	34	43		MN		T	1	1892	D		857
4634	34	44		MCW	@000@, WCTR	T	7	1893	M N14 N07		857
4635	34	45		B	HERE	T	4	1900	B X87		857
4636	34	46	*								
4637	34	47	MV2N	SBR	MV2XT&3	T	4	1904	H Z97		857
4638	34	48		S	XL3&1	T	4	1908	S 100		858
4639	34	49		C	0&X1, @0@	T	7	1912	C 0!0 N15		858
4640	34	50		BH	ERSIG	T	5	1919	B S58 U		858
4641	34	51	MVDIG	MN	0&X1, XL3	T	7	1924	D 0!0 099		858
4642	34	52		SAR	X1	T	4	1931	Q 089		858
4643	34	53		C	0&X1, @0@	T	7	1935	C 0!0 N15		858

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
4644	34	54		BH	CHKN	T	5	1942	B Z77 U		858
4645	34	55		C	XL3,@133@	T	7	1947	C 099 N18		859
4646	34	56		BL	ERSIG	T	5	1954	B S58 T		859
4647	34	57		MN	XL3-1, XL3-2	T	7	1959	D 098 097		859
4648	34	58		MN	XL3, XL3-1	T	7	1966	D 099 098		859
4649	34	59		B	MVDIG	T	4	1973	B Z24		859
4650	34	60	*								
4651	34	61	CHKN	C	@134@, XL3	T	7	1977	C N21 099		859
4652	34	62		BH	ERSIG	T	5	1984	B S58 U		860
4653	34	63		BE	ERSIG	T	5	1989	B S58 S		860
4654	34	64	MV2XT	B	XXX	T	4	1994	B 000		860
4655	34	65	*								
4656	34	651	TESTE	BCE	EINPT, 5&X2, E	V3M4 T	8	1998	B Y70 015 E		860
4657	34	652		B	ERSIG	V3M4 T	4	2006	B S58		860
4658	34	66	*								
4659	34	67	PUTN	ZA	XL3, NCTR	T	7	2010	? 099 M38		860
4660	34	68		SW	BCEQ&7	T	4	2017	, !42		860
4661	34	69		MCW	0&X1, BCEQ&7	T	7	2021	M 010 !42		861
4662	34	70		CW	BCEQ&7, SW1	T	7	2028	) !42 M30		861
4663	34	71	BCEQ	BCE	COMRT, @PAXHIFE%@, X	T	8	2035	B /29 N29 X		861
4664	34	72		CHAIN	7	T				MACRO	
4665				BCE		T	1	2043	B	GEN	861
4666				BCE		T	1	2044	B	GEN	861
4667				BCE		T	1	2045	B	GEN	861
4668				BCE		T	1	2046	B	GEN	861
4669				BCE		T	1	2047	B	GEN	862
4670				BCE		T	1	2048	B	GEN	862
4671				BCE		T	1	2049	B	GEN	862
4672	34	73		B	ERSIG	T	4	2050	B S58		862
4673	34	74	*								
4674	34	75	FINIS	MCW	NXBTM, X3	T	7	2054	M 083 099		862
4675	34	76		BWZ	SETX2, CODE, B	T	8	2061	V K72 879 B		862
4676	34	77		C	0&X3,CKBIT	T	7	2069	C 0?0 872		862
4677	34	78		BU	KLOBR	T	5	2076	B 838 /		863
4678	34	79	MVDWN	LCA	0&X2,0&X3	T	7	2081	L 010 0?0		863
4679	34	80		SAR	X2	T	4	2088	Q 094		863
4680	34	81		C	0&X3	T	4	2092	C 0?0		863
4681	34	82		SAR	X3	T	4	2096	Q 099		863
4682	34	83		CW	1&X2	T	4	2100	) 0!1		863
4683	34	84		C	X2,SCNBX	T	7	2104	C 094 M35		863
4684	34	85		BU	MVDWN	T	5	2111	B !81 /		864
4685	34	86		SBR	HEX3, 0&X3	T	7	2116	H 875 0?0		864
4686	34	87		CW	0&X2	T	4	2123	) 0!0		864
4687	34	88		CW		T	1	2127	)		864
4688	34	89		MCW		T	1	2128	M		864
4689	34	90		SAR	X2	T	4	2129	Q 094		864
4690	34	91		CW	1&X2	T	4	2133	) 0!1		864
4691	34	92		BW	MV2GM,URFSW	T	8	2137	V K60 N62 1		865
4692	34	93		BCE	MV2GM,IOBGN&5,	T	8	2145	B K60 J58		865
4693	34	94	IOBGN	SBR	X2, XXX	T	7	2153	H 094 000		865

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SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
4694	34	95		CW	REFSW#1	T	4	2160) N30		865
4695	34	96		SBR	MVADR&6, 1&X3	T	7	2164	H L58 0?1		865
4696	34	97	REPLS	MN	0&X2	T	4	2171	D 0!0		865
4697	34	98		CHAIN	2	T				MACRO	
4698				MN		T	1	2175	D	GEN	865
4699				MN		T	1	2176	D	GEN	866
4700	34	99		SAR	X3	T	4	2177	Q 099		866
4701	35	00		MN	0&X3, *&15	T	7	2181	D 0?0 K02		866
4702	35	01		MZ	0&X3, *&8	T	7	2188	Y 0?0 K02		866
4703	35	02		BCE	IOWK, @56ULP@, X	T	8	2195	B L09 N35 X		866
4704	35	03		CHAIN	4	T				MACRO	
4705				BCE		T	1	2203	B	GEN	866
4706				BCE		T	1	2204	B	GEN	866
4707				BCE		T	1	2205	B	GEN	867
4708				BCE		T	1	2206	B	GEN	867
4709	35	04		BW	NDRPL, REFSW	T	8	2207	V K31 N30 1		867
4710	35	05		B	GETST	T	4	2215	B 880		867
4711	35	06		MCW	@17 - DOUBLY DEFINED FORMAT@,ERROR&26	T	7	2219	M N61 232		867
4712	35	07		W		T	1	2226	2		867
4713	35	08		B	FBAD	T	4	2227	B K87		867
4714	35	09	NDRPL	MCW	HEX3, X3	T	7	2231	M 875 099		868
4715	35	10		BWZ	FBAD, CODE, B	T	8	2238	V K87 879 B		868
4716	35	11	FOKAY	MCW	X3, NXBTM	T	7	2246	M 099 083		868
4717	35	12		MCW	CKBIT, 0&X3	T	7	2253	M 872 0?0		868
4718	35	13	MV2GM	C	0&X1	T	4	2260	C 0!0		868
4719	35	14		SAR	X1	T	4	2264	Q 089		868
4720	35	15		B	RETRN	T	4	2268	B 995		869
4721	35	16	SETX2	MCW	X2, X3	T	7	2272	M 094 099		869
4722	35	17		SW	URFSW#1	T	4	2279	, N62		869
4723	35	18		B	MVDWN	T	4	2283	B !81		869
4724	35	19	FBAD	MCW	NXBTM, X3	T	7	2287	M 083 099		869
4725	35	20		LCA	@. @, 0&X3	T	7	2294	L N09 0?0		869
4726	35	21		SBR	X3	T	4	2301	H 099		869
4727	35	22		B	FOKAY	T	4	2305	B K46		870
4728	35	23	IOWK	C	0&X3	T	4	2309	C 0?0		870
4729	35	24		SAR	X2	T	4	2313	Q 094		870
4730	35	25		BWZ	*&5, 2&X3, B	T	8	2317	V L29 0?2 B		870
4731	35	26		B	NOSWT	T	4	2325	B L73		870
4732	35	27		C	0&X2, FMTNO	T	7	2329	C 0!0 M29		870
4733	35	28		BU	NOSWT	T	5	2336	B L73 /		870
4734	35	29		SW	REFSW	T	4	2341	, N30		871
4735	35	30		MA	MACFLS, MVADR&6	T	7	2345	# 163 L58		871
4736	35	31	MVADR	SBR	0&X2, XXX	T	7	2352	H 0!0 000		871
4737	35	32		MZ	@ @, 2&X3	T	7	2359	Y M20 0?2		871
4738	35	33		MA	PLUSDF, MVADR&6	T	7	2366	# 160 L58		871
4739	35	34	NOSWT	C	0&X2	T	4	2373	C 0!0		871
4740	35	35		SAR	X2	T	4	2377	Q 094		872
4741	35	36		B	REPLS	T	4	2381	B J71		872
4742	35	37	*								
4743	35	38	KH	DCW	@BL28@ HOLLR CHANGE IF OBJ FORMAT REASSEMBLED	T	4	2388			872

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
4744	35	39	KX	DCW	@H0990&0@	T	7	2395			872
4745	35	40	KLEFT	DCW	@BJ52@ OPENR CHANGE IF OBJ FORMAT REASSEMBLED	T	4	2399			872
4746	35	41	KRITE	DCW	@BJ85@ CLSPR CHANGE IF OBJ FORMAT REASSEMBLED	T	4	2403			872
4747	35	42	KLINE	DCW	@BK08@ NDLIN CHANGE IF OBJ FORMAT REASSEMBLED	T	4	2407			872
4748	35	43	KARIT	DCW	@BL85@ GETW CHANGE IF OBJ FORMAT REASSEMBLED	T	4	2411			873
4749	35	44	KEOJ	DCW	@BK23@ EOJ1 CHANGE IF OBJ FORMAT REASSEMBLED	T	4	2415			873
4750	35	45	KP	DCW	@BL10@ SCALE CHANGE IF OBJ FORMAT REASSEMBLED	T	4	2419			873
4751	35	46		LTORG	*	T			2420		
				DCW	@ @	T	1	2420		LIT	873
				DCW	@LISTR1@	T	6	2426		LIT	873
			FMTNOT	DCW	#03	T	3	2429		AREA	873
			SW1 T	DCW	#01	T	1	2430		AREA	873
			PARSWT	DCW	#01	T	1	2431		AREA	874
				DCW	&1	T	1	2432		LIT	874
			SCNBXT	DCW	#03	T	3	2435		AREA	874
			NCTR T	DCW	#03	T	3	2438		AREA	874
				DCW	@Z@	T	1	2439		LIT	874
				DCW	@15 - FORMAT SYNTAX@	T	18	2457		LIT	874
				DCW	@A@	T	1	2458		LIT	874
				DCW	@45 - HOLLERITH COUNT@	T	20	2478		LIT	875
				DCW	@020@	T	3	2481		LIT	875
				DCW	@P@	T	1	2482		LIT	875
				DCW	@16 - PARENTHESIS ERROR@	T	22	2504		LIT	876
			WCTR T	DCW	#03	T	3	2507		AREA	876
				DCW	&4	T	1	2508		LIT	876
				DCW	@. @	T	1	2509		LIT	876
				DCW	@, @	T	1	2510		LIT	876
				DCW	@4@	T	1	2511		LIT	876
				DCW	@000@	T	3	2514		LIT	876
				DCW	@0@	T	1	2515		LIT	877
				DCW	@133@	T	3	2518		LIT	877
				DCW	@134@	T	3	2521		LIT	877
				DCW	@PAXHIFE%@	T	8	2529		LIT	877
			REFSWT	DCW	#01	T	1	2530		AREA	877
				DCW	@56ULP@	T	5	2535		LIT	877
				DCW	@17 - DOUBLY DEFINED FORMAT@	T	26	2561		LIT	878
			URFSWT	DCW	#01	T	1	2562		AREA	878
4752	35	47		ORG	*&X00	T			2600		
4753	35	48		ORG	*-1	T			2599		
4754	35	49	SYS2	DCW	@}@	T	1	2599		GMARK	879
4755	35	50	TAMAX	DCW	#1	T	1	2600			879
4756	35	51		XFR	PHSE2	T			B 980		880

SYSTEM GROUP MARK

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
4757	35	52		JOB	1401 FORTRAN LISTS PHASE ONE	T					
4758	35	53		FBEGN	LISTR1,X1,,X2,R,X3,R,X	T				MACRO	
4759				SFX	X	X				GEN	
4760			110	DCW	@LISTR1@	X	6	0110		GEN	883
4761			X1	EQU	089	X		0089		GEN	
4762			X2	EQU	094	X		0094		GEN	
4763			094	DCW	000	X	3	0094		GEN	884
4764			096	DC	00	X	2	0096		GEN	884
4765			X3	EQU	099	X		0099		GEN	
4766			099	DCW	000	X	3	0099		GEN	884
4767			100	DC	0	X	1	0100		GEN	884
4768	35	54		NXBTM	EQU 083	X		0083			
4769	35	55		* CHECKS FOR DUPLICATE LISTS							
4770	35	56		ORG	XBEGIN	X			0838		
4771	35	57	CODE	DCW	#4	X	4	0841			885
4772	35	58	ABOTM	DCW	#3	X	3	0844			885
4773	35	59	PHSE1	MCW	X1,ABOTM	X	7	0845	M 089 844		885
4774	35	60		MCW	NXBTM,X2	X	7	0852	M 083 094		885
4775	35	61		LCA	@. @, 0&X2	X	7	0859	L S13 0!0		885
4776	35	62		CW	0&X2	X	4	0866	) 0!0		885
4777	35	63		SBR	NXBTM	X	4	0870	H 083		885
4778	35	64		SBR	PERIOD,0&X2	X	7	0874	H 154 0!0		886
4779	35	65		MA	MACFLS,PERIOD	X	7	0881	# 163 154		886
4780	35	66	START	BCE	DUN,000&X1, BLANK	X	8	0888	B /68 0!0		886
4781	35	67		MCW	000&X1,CODE	X	7	0896	M 0!0 841		886
4782	35	68		MCW	X1,ALTER&6	X	7	0903	M 089 /63		886
4783	35	69		MCW	CODE-3,*&8	X	7	0910	M 838 924		887
4784	35	70		BCE	LIST,@5613LUP@,0	X	8	0917	B 935 S20 0		887
4785	35	71		CHAIN	6	X				MACRO	
4786				BCE		X	1	0925	B	GEN	887
4787				BCE		X	1	0926	B	GEN	887
4788				BCE		X	1	0927	B	GEN	887
4789				BCE		X	1	0928	B	GEN	887
4790				BCE		X	1	0929	B	GEN	887
4791				BCE		X	1	0930	B	GEN	888
4792	35	72		B	DUN	X	4	0931	B /68		888
4793	35	73	LIST	C	000&X1	X	4	0935	C 0!0		888
4794	35	74		SAR	X1	X	4	0939	Q 089		888
4795	35	75		B	COMMA	X	4	0943	B |88		888
4796	35	76		CW	XDOINI	X	4	0947	) 114		888
4797	35	77		BCE	NEXT1,PARAM&10,L	X	8	0951	B 963 696 L		888
4798	35	78		CW	XOBLST	X	4	0959	) 115		889
4799	35	79	NEXT1	SW	000&X1	X	4	0963	, 0!0		889
4800	35	80		SAR	X1	X	4	0967	Q 089		889
4801	35	81		MCW	ABOTM,X3	X	7	0971	M 844 099		889
4802	35	82	RUDUP	C	0&X3	X	4	0978	C 0?0		889
4803	35	83		C		X	1	0982	C		889
4804	35	84		SAR	X3	X	4	0983	Q 099		889
4805	35	85		BCE	RUDUP,1&X3,}	X	8	0987	B 978 0?1 }	GMARK	890
4806	35	86		C	X1,X3	X	7	0995	C 089 099		890

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
4807	35	87		BU	COMP	X	5	1002	B |19 /		890
4808	35	88	PASS	C	000&X1	X	4	1007	C 0|0		890
4809	35	89		SAR	X1	X	4	1011	Q 089		890
4810	35	90		B	START	X	4	1015	B 888		890
4811	35	91	COMP	C	000&X1,000&X3	X	7	1019	C 0|0 0?0		890
4812	35	92		BU	RESET	X	5	1026	B |68 /		891
4813	35	93		C	000&X3,000&X1	X	7	1031	C 0?0 0|0		891
4814	35	94		BU	RESET	X	5	1038	B |68 /		891
4815	35	95		BWZ	WRONG,0&X1,1	X	8	1043	V /16 0|0 1		891
4816	35	96		BWZ		X	1	1051	V		891
4817	35	97		BWZ		X	1	1052	V		891
4818	35	98		LCA	X3,000&X1	X	7	1053	L 099 0|0		891
4819	35	99		SBR	X1	X	4	1060	H 089		892
4820	36	00		B	PASS	X	4	1064	B |07		892
4821	36	01	RESET	C	000&X3	X	4	1068	C 0?0		892
4822	36	02		SAR	X3	X	4	1072	Q 099		892
4823	36	03		BCE	RUDUP,1&X3,}	X	8	1076	B 978 0?1 }	GMARK	892
4824	36	04		B	RESET	X	4	1084	B |68		892
4825	36	05	COMMA	SBR	EXCMA&3	X	4	1088	H /03		892
4826	36	06	CKNG	BW	PASS,0&X1	X	8	1092	V |07 0|0 1		893
4827	36	07	EXCMA	BCE	000,000&X1,,	X	8	1100	B 000 0|0 ,		893
4828	36	08		SBR	X1	X	4	1108	H 089		893
4829	36	09		B	CKNG	X	4	1112	B |92		893
4830	36	10	WRONG	FTMSG	18,LIST SYNTAX,CODE,13	X				MACRO	
4831			WRONG	CS	332	X	4	1116	/ 332	GEN	893
4832				CS		X	1	1120	/	GEN	893
4833				SW	FAILSW	X	4	1121	, 184	GEN	893
4834				MN	CODE,224&13	X	7	1125	D 841 237	GEN	894
4835				MN		X	1	1132	D	GEN	894
4836				MN		X	1	1133	D	GEN	894
4837				MCW	@ERROR 18 - LIST SYNTAX, STATEMENT @	X	4	1134	M S54	GEN	894
4838				W		X	1	1138	2	GEN	894
4839				BCV	*&5	X	5	1139	B /48 @	GEN	894
4840				B	*&3	X	4	1144	B /50	GEN	894
4841				CC	1	X	2	1148	F 1	GEN	895
4842	36	11		MCW	@/@,CODE-3	X	7	1150	M S55 838		895
4843	36	12	ALTER	MCW	CODE,000	X	7	1157	M 841 000		895
4844	36	13		B	PASS	X	4	1164	B |07		895
4845	36	14	DUN	SW	000&X1	X	4	1168	, 0|0		895
4846	36	15		MCW	ABOTM,X1	X	7	1172	M 844 089		895
4847	36	16		FENDX	C,,PHSE1,,PHSE1,SYS1,LISTR TWO	X				MACRO	
4848				BSS	333,C	X	5	1179	B 333 C	GEN	895
4849				SBR	INITAP&6,PHSE1	X	7	1184	H 786 845	GEN	896
4850				SBR	BCLEAR	X	4	1191	H 833	GEN	896
4851				SBR	TCLEAR,SYS1	X	7	1195	H 710 S65	GEN	896
4852				LCA	@LISTR TWO@,110	X	7	1202	L S64 110	GEN	896
4853				B	MONTER	X	4	1209	B 700	GEN	896
4854	36	17		LTORG	*	X			1213		
				DCW	@.@	X	1	1213		LIT	896
				DCW	@5613LUP@	X	7	1220		LIT	896

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
				DCW	@ERROR 18 - LIST SYNTAX, STATEMENT @	X	34	1254		LIT	897
				DCW	@/@	X	1	1255		LIT	897
				DCW	@LISTR TWO@	X	9	1264		LIT	898
4855	36	18	SYS1	DCW	@}@	X	1	1265		GMARK	898
4856	36	19		XFR	PHSE1	X			B 845		899
					SYSTEM GROUP MARK						

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
4857	36	20		JOB	1401 FORTRAN LISTS PHASE TWO	X					
4858	36	21	*	REORDERS,	SQUEEZES, ERROR CHECKS, AND STORES LIST						
4859	36	22	110	DCW	@LISTR TWO@	X	9	0110			902
4860	36	23		ORG	PHSE1	X			0845		
4861	36	24	PHSE2	MCW	NXB TM,X2	X	7	0845	M 083 094		903
4862	36	25	GO	BWZ	OUT,000&X1,1	X	8	0852	V Z88 0|0 1		903
4863	36	26		MCW	X2,HEX2#3	X	7	0860	M 094 !53		903
4864	36	27		MCW	000&X1, CODE	X	7	0867	M 0|0 841		903
4865	36	28		MCW	X1,EMASQ&6	X	7	0874	M 089 Z69		903
4866	36	29		C	000&X1	X	4	0881	C 0|0		904
4867	36	30		SAR	X1	X	4	0885	Q 089		904
4868	36	31		SBR	X3	X	4	0889	H 099		904
4869	36	32	SLIP	C	0&X3	X	4	0893	C 0?0		904
4870	36	33		SAR	X3	X	4	0897	Q 099		904
4871	36	34		BCE	*&5,1&X3,}	X	8	0901	B 913 0?1 }	GMARK	904
4872	36	35		B	SLIP	X	4	0909	B 893		904
4873	36	36		SBR	NXGUY&6,0&X3	X	7	0913	H Z83 0?0		905
4874	36	37		C	000&X1	X	4	0920	C 0|0		905
4875	36	38		C		X	1	0924	C		905
4876	36	39		SAR	HEX1#3	X	4	0925	Q !56		905
4877	36	40		BCE	HEX1X,0&X1,,	X	8	0929	B 947 0|0 ,		905
4878	36	41		CHAIN	6	X				MACRO	
4879				BCE		X	1	0937	B	GEN	905
4880				BCE		X	1	0938	B	GEN	905
4881				BCE		X	1	0939	B	GEN	906
4882				BCE		X	1	0940	B	GEN	906
4883				BCE		X	1	0941	B	GEN	906
4884				BCE		X	1	0942	B	GEN	906
4885	36	42		B	CKTYP	X	4	0943	B Y22		906
4886	36	43	HEX1X	MCW	HEX1,X1	X	7	0947	M !56 089		906
4887	36	44		BCE	NEW,001&X1,}	X	8	0954	B 989 0|1 }	GMARK	906
4888	36	45		MCW	003&X1,X3	X	7	0962	M 0|3 099		907
4889	36	46		BWZ	ERROR,001&X3,1	X	8	0969	V Z22 0?1 1		907
4890	36	47		LCA	001&X3,004&X1	X	7	0977	L 0?1 0|4		907
4891	36	48		CW		X	1	0984	)		907
4892	36	49		B	NXGUY	X	4	0985	B Z77		907
4893	36	50	NEW	BCE	CKLST,2&X3,,	X	8	0989	B X98 0?2 ,		907
4894	36	51		SBR	X3	X	4	0997	H 099		907
4895	36	52	SNDPT	LCA	@. @,000&X2	X	7	1001	L !57 0!0		908
4896	36	53		SBR	X2	X	4	1008	H 094		908
4897	36	54		CW	001&X2	X	4	1012	) 0!1		908
4898	36	55		S	COUNT#1	X	4	1016	S !58		908
4899	36	56	MAIN	SBR	X3,001&X3	X	7	1020	H 099 0?1		908
4900	36	57		BCE	RTPAR,000&X3,)	X	8	1027	B S72 0?0)		908
4901	36	58		BCE	DOLLR,000&X3,\$	X	8	1035	B X37 0?0 \$		909
4902	36	59		B	RUADR	X	4	1043	B Y42		909
4903	36	60		LCA	ADRSS,000&X2	X	7	1047	L J45 0!0		909
4904	36	61		SBR	X2	X	4	1054	H 094		909
4905	36	62		BCE	CKWMK,0&X3,,	X	8	1058	B S60 0?0 ,		909
4906	36	63		BCE	LFPAR,0&X3,%	X	8	1066	B U67 0?0 %		909

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
4907	36	64		B	RUADR	X	4	1074	B Y42		910
4908	36	65		LCA	ADRSS,000&X2	X	7	1078	L J45 0!0		910
4909	36	66		LCA	@,@	X	4	1085	L !59		910
4910	36	67		SBR	X2	X	4	1089	H 094		910
4911	36	68		CW	5&X2	X	4	1093	) 0!5		910
4912	36	69		CW	001&X2	X	4	1097	) 0!1		910
4913	36	70		MZ	3&X2,SVZN#1	X	7	1101	Y 0!3 !60		910
4914	36	71		MCW	X1,SV1#3	X	7	1108	M 089 !63		911
4915	36	72		ZA	PARAM&4,HOLD5	X	7	1115	? 690 !68		911
4916	36	73		BWZ	DUN2,3&X2,K	X	8	1122	V /37 0!3 K		911
4917	36	74		MCW	PARAM&6,HOLD5#5	X	7	1130	M 692 !68		911
4918	36	75	DUN2	S	&16000,HOLD5	X	7	1137	S !73 !68		911
4919	36	76		FPACK	HOLD5,HOLD3,X1	X				MACRO	
4920				INCLD	ZONES	X				MACRO	
4921				MN	HOLD5,HOLD3	X	7	1144	D !68 !77	GEN	912
4922				MN		X	1	1151	D	GEN	912
4923				MN		X	1	1152	D	GEN	912
4924				SAR	*&4	X	4	1153	Q /60	GEN	912
4925				MCW	0,X1	X	7	1157	M 000 089	GEN	912
4926				MCW	@0@	X	4	1164	M !74	GEN	912
4927				A	X1	X	4	1168	A 089	GEN	912
4928				MZ	ZONES&1&X1,HOLD3	X	7	1172	Y !S0 !77	GEN	913
4929				CW		X	1	1179	)	GEN	913
4930				SBR	*&7	X	4	1180	H /90	GEN	913
4931				MZ	ZONES&X1, 0	X	7	1184	Y !/9 000	GEN	913
4932	36	77		MCW	HOLD3#3,X1	X	7	1191	M !77 089		913
4933	36	78		MCW	4&X2,SBR4&6	X	7	1198	M 0!4 S18		913
4934	36	79		MZ	*-6,SBR4&5	X	7	1205	Y S05 S17		914
4935	36	80	SBR4	SBR	4&X2,0	X	7	1212	H 0!4 000		914
4936	36	81		MZ	SVZN,3&X2	X	7	1219	Y !60 0!3		914
4937	36	82		MCW	SV1,X1	X	7	1226	M !63 089		914
4938	36	83		MZ	*-4,6&X2	X	7	1233	Y S35 0!6		914
4939	36	84	CKLFP	BCE	LFPAR,0&X3,%	X	8	1240	B U67 0?0 %		915
4940	36	85	CKCOM	C	000&X3,@,@	X	7	1248	C 0?0 !59		915
4941	36	86		BU	ERROR	X	5	1255	B Z22 /		915
4942	36	87	CKWMK	BWZ	FNLIZ,000&X3,1	X	8	1260	V W97 0?0 1		915
4943	36	88		B	MAIN	X	4	1268	B |20		915
4944	36	89	RTPAR	BCE	SETUP,COUNT,?	X	8	1272	B W34 !58 ?		916
4945	36	90	PUTS	MCW	X1,SAVE1#3	X	7	1280	M 089 !80		916
4946	36	91		LCA	@. @,000&X1	X	7	1287	L !57 0|0		916
4947	36	92		SBR	X1	X	4	1294	H 089		916
4948	36	93		A	&1,COUNT	X	7	1298	A !81 !58		916
4949	36	94		BCE	ERROR,COUNT,D	X	8	1305	B Z22 !58 D		917
4950	36	95		B	PUTMI	X	4	1313	B W52		917
4951	36	96		C	000&X3,@,@	X	7	1317	C 0?0 !59		917
4952	36	97		BU	ERROR	X	5	1324	B Z22 /		917
4953	36	98		B	PUTMI	X	4	1329	B W52		917
4954	36	99		BCE	PUTMI,000&X3,,	X	8	1333	B W52 0?0 ,		917
4955	37	00		C	000&X3,@#@	X	7	1341	C 0?0 !82		918
4956	37	01		BU	ERROR	X	5	1348	B Z22 /		918

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
4957	37	02		B	PUTMI	X	4	1353	B W52		918
4958	37	03		SBR	000&X1,001&X2	X	7	1357	H 0|0 0!1		918
4959	37	04		CW	000&X1	X	4	1364	) 0|0		918
4960	37	05		CW		X	1	1368	)		918
4961	37	06		SW		X	1	1369	,		918
4962	37	07		SAR	X1	X	4	1370	Q 089		919
4963	37	08		MCW	X3,HEX3#3	X	7	1374	M 099 !85		919
4964	37	09		MN	000&X3	X	4	1381	D 0?0		919
4965	37	10		SAR	X3	X	4	1385	Q 099		919
4966	37	11	LOOPY	BCE	INNER,002&X3,%	X	8	1389	B U21 0?2 %		919
4967	37	12		BCE	OUTER,002&X3,)	X	8	1397	B U40 0?2)		919
4968	37	13		BWZ	ERROR,002&X3,1	X	8	1405	V Z22 0?2 1		920
4969	37	14		SBR	X3	X	4	1413	H 099		920
4970	37	15		B	LOOPY	X	4	1417	B T89		920
4971	37	16	INNER	LCA	@)@,000&X2	X	7	1421	L !86 0!0		920
4972	37	17		SBR	X2	X	4	1428	H 094		920
4973	37	18		CW	001&X2	X	4	1432	) 0!1		920
4974	37	19		B	RESTR	X	4	1436	B U56		920
4975	37	20	OUTER	LCA	@# @,000&X2	X	7	1440	L !90 0!0		921
4976	37	21		SBR	X2	X	4	1447	H 094		921
4977	37	22		SW	002&X2	X	4	1451	, 0!2		921
4978	37	23		CW		X	1	1455	)		921
4979	37	24	RESTR	MCW	HEX3,X3	X	7	1456	M !85 099		921
4980	37	25		B	CKCOM	X	4	1463	B S48		921
4981	37	26	LFPAR	S	&1,COUNT	X	7	1467	S !81 !58		921
4982	37	27		BWZ	ERROR,COUNT,K	X	8	1474	V Z22 !58 K		922
4983	37	28		MA	MACFLS,3&X1	X	7	1482	# 163 0|3		922
4984	37	29		LCA	003&X1,000&X2	X	7	1489	L 0|3 0!0		922
4985	37	30		LCA	6&X1	X	4	1496	L 0|6		922
4986	37	31		SBR	X2	X	4	1500	H 094		922
4987	37	32		BCE	M3IS1,013&X1,.	X	8	1504	B W19 0/3 .		922
4988	37	33		LCA	015&X1,000&X2	X	7	1512	L 0/5 0!0		923
4989	37	34		SBR	X2	X	4	1519	H 094		923
4990	37	35	SNDM2	LCA	012&X1,000&X2	X	7	1523	L 0/2 0!0		923
4991	37	36		LCA		X	1	1530	L		923
4992	37	37		LCA	@%@	X	4	1531	L !91		923
4993	37	38		SBR	X2	X	4	1535	H 094		923
4994	37	39		CW	001&X2	X	4	1539	) 0!1		923
4995	37	40	SWTCH	NOP	SWOFF	X	4	1543	N W08		924
4996	37	41		MCW	003&X1,X1	X	7	1547	M 0|3 089		924
4997	37	42		MN	000&X1	X	4	1554	D 0|0		924
4998	37	43		SAR	X1	X	4	1558	Q 089		924
4999	37	44		MA	PLUSDF,X1	X	7	1562	# 160 089		924
5000	37	45		MA	MACFLS,X2	X	7	1569	# 163 094		924
5001	37	46		SBR	0&X1,1&X2	X	7	1576	H 0|0 0!1		925
5002	37	47		MA	PLUSDF,X2	X	7	1583	# 160 094		925
5003	37	48	BUMP	SBR	X3,001&X3	X	7	1590	H 099 0?1		925
5004	37	49		MCW	SAVE1,X1	X	7	1597	M !80 089		925
5005	37	50		B	CKLFP	X	4	1604	B S40		925
5006	37	51	SWOFF	MCW	@N@,SWTCH	X	7	1608	M !92 V43		925

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
5007	37	52		B	BUMP	X	4	1615	B V90		926
5008	37	53	M3IS1	LCA	ADONE,000&X2	X	7	1619	L 142 0!0		926
5009	37	54		SBR	X2	X	4	1626	H 094		926
5010	37	55		B	SNDM2	X	4	1630	B V23		926
5011	37	56	SETUP	SBR	X1,SPACE#48	X	7	1634	H 089 J40		926
5012	37	57		MCW	@B@,SWTCH	X	7	1641	M J41 V43		926
5013	37	58		B	PUTS	X	4	1648	B S80		926
5014	37	59	PUTMI	SBR	EXPMI&3	X	4	1652	H W96		927
5015	37	60		SBR	X3,001&X3	X	7	1656	H 099 0?1		927
5016	37	61		B	RUADR	X	4	1663	B Y42		927
5017	37	62		LCA	ADRSS,000&X1	X	7	1667	L J45 0|0		927
5018	37	63		SBR	X1	X	4	1674	H 089		927
5019	37	64		MZ	*-4,2&X1	X	7	1678	Y W80 0|2		927
5020	37	65		BWZ	ERROR,000&X3,1	X	8	1685	V Z22 0?0 1		928
5021	37	66	EXPMI	B	000	X	4	1693	B 000		928
5022	37	67	FNLIZ	C	COUNT,@?@	X	7	1697	C !58 J42		928
5023	37	68		BU	ERROR	X	5	1704	B Z22 /		928
5024	37	69		CW	000&X3	X	4	1709	) 0?0		928
5025	37	70		CW		X	1	1713	)		928
5026	37	71		SW		X	1	1714	,		928
5027	37	72		SAR	X3	X	4	1715	Q 099		929
5028	37	73		SBR	003&X3,001&X2	X	7	1719	H 0?3 0!1		929
5029	37	74		MA	MACFLS,3&X3	X	7	1726	# 163 0?3		929
5030	37	75		B	NXGUY	X	4	1733	B Z77		929
5031	37	76	DOLLR	SW	0&X3	X	4	1737	, 0?0		929
5032	37	77		SAR	X3	X	4	1741	Q 099		929
5033	37	78		SBR	CW&3,1&X3	X	7	1745	H X93 0?1		929
5034	37	79	LOOP	BCE	NDOLR,2&X3,\$	X	8	1752	B X68 0?2 \$		930
5035	37	80		SBR	X3	X	4	1760	H 099		930
5036	37	81		B	LOOP	X	4	1764	B X52		930
5037	37	82	NDOLR	LCA	2&X3,0&X2	X	7	1768	L 0?2 0!0		930
5038	37	83		SBR	X2	X	4	1775	H 094		930
5039	37	84		CW	1&X2	X	4	1779	) 0!1		930
5040	37	85		SBR	X3,3&X3	X	7	1783	H 099 0?3		930
5041	37	86	CW	CW	0	X	4	1790	) 000		931
5042	37	87		B	CKLFP	X	4	1794	B S40		931
5043	37	88	CKLST	BWZ	RMVCM,2&X3,1	X	8	1798	V Y17 0?2 1		931
5044	37	89		SBR	X3,2&X3	X	7	1806	H 099 0?2		931
5045	37	90		B	SNDPT	X	4	1813	B |01		931
5046	37	91	RMVCM	SW	3&X3	X	4	1817	, 0?3		931
5047	37	92		CW		X	1	1821	)		931
5048	37	93	CKTYP	FBCEQ	ERROR,CODE-3,1,3	X				MACRO	
5049			CKTYP	BCE	ERROR, CODE-3, 1	X	8	1822	B Z22 838 1	GEN	932
5050				BCE	ERROR, CODE-3, 3	X	8	1830	B Z22 838 3	GEN	932
5051	37	94		B	EMASQ	X	4	1838	B Z63		932
5052	37	95	RUADR	SBR	EXRUA&3	X	4	1842	H Y96		932
5053	37	96		MN	002&X3,EXRUK&7	X	7	1846	D 0?2 Z08		932
5054	37	97		B	RUOK	X	4	1853	B Y97		932
5055	37	98		MN	001&X3,EXRUK&7	X	7	1857	D 0?1 Z08		933
5056	37	99		B	RUOK	X	4	1864	B Y97		933

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
5057	38	00		MN	000&X3,EXRUK&7	X	7	1868	D 0?0 Z08		933
5058	38	01		B	RUOK	X	4	1875	B Y97		933
5059	38	02		MCW	002&X3,ADRSS#3	X	7	1879	M 0?2 J45		933
5060	38	03		SBR	X3,003&X3	X	7	1886	H 099 0?3		933
5061	38	04	EXRUA	B	000	X	4	1893	B 000		934
5062	38	05	RUOK	SBR	EXRUK&3	X	4	1897	H Z04		934
5063	38	06	EXRUK	BCE	000,@0123456789@,0	X	8	1901	B 000 J55 0		934
5064	38	07		CHAIN	9	X				MACRO	
5065				BCE		X	1	1909	B	GEN	934
5066				BCE		X	1	1910	B	GEN	934
5067				BCE		X	1	1911	B	GEN	934
5068				BCE		X	1	1912	B	GEN	934
5069				BCE		X	1	1913	B	GEN	935
5070				BCE		X	1	1914	B	GEN	935
5071				BCE		X	1	1915	B	GEN	935
5072				BCE		X	1	1916	B	GEN	935
5073				BCE		X	1	1917	B	GEN	935
5074	38	08		B	ERROR	X	4	1918	B Z22		935
5075	38	09	ERROR	FTMSG	47,BAD LIST,CODE,10	X				MACRO	
5076			ERROR	CS	332	X	4	1922	/ 332	GEN	935
5077				CS		X	1	1926	/	GEN	936
5078				SW	FAILSW	X	4	1927	, 184	GEN	936
5079				MN	CODE,224&10	X	7	1931	D 841 234	GEN	936
5080				MN		X	1	1938	D	GEN	936
5081				MN		X	1	1939	D	GEN	936
5082				MCW	@ERROR 47 - BAD LIST, STATEMENT @	X	4	1940	M J86	GEN	936
5083				W		X	1	1944	2	GEN	936
5084				BCV	*&5	X	5	1945	B Z54 @	GEN	937
5085				B	*&3	X	4	1950	B Z56	GEN	937
5086				CC	1	X	2	1954	F 1	GEN	937
5087	38	10		MCW	@/@,CODE-3	X	7	1956	M J87 838		937
5088	38	11	EMASQ	MCW	CODE,000	X	7	1963	M 841 000		937
5089	38	12		MCW	HEX2,X2	X	7	1970	M !53 094		937
5090	38	13	NXGUY	SBR	X1,0	X	7	1977	H 089 000		937
5091	38	14		B	GO	X	4	1984	B 852		938
5092	38	15	OUT	MCW	ABOTM,X1	X	7	1988	M 844 089		938
5093	38	16		FENDX	C,,,,,SYS2,LISTR TRI	X				MACRO	
5094				BSS	333,C	X	5	1995	B 333 C	GEN	938
5095				SBR	TCLEAR,SYS2	X	7	2000	H 710 J97	GEN	938
5096				LCA	@LISTR TRI@,110	X	7	2007	L J96 110	GEN	938
5097				B	MONTER	X	4	2014	B 700	GEN	938
5098	38	17		ORG	*	X			2018		
5099				LTORG	* WVS: AUTOCODER SHOULDN'T LOAD INCLD AT ORG	X			2018		
5100				DCW	#1	X	1	2018		GEN	938
5101			ZONES	DC	9	X	1	2019		GEN	938
5102				DCW	@9Z9R9I99ZZZRZIZ9RZRRRIR9IZIRIII@	X	31	2050		GEN	939
			*	LTORG*						GEN	
			HEX2 X	DCW	#03	X	3	2053		AREA	939
			HEX1 X	DCW	#03	X	3	2056		AREA	939
				DCW	@.@	X	1	2057		LIT	939

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
			COUNTX	DCW	#01	X	1	2058		AREA	939
				DCW	@,@	X	1	2059		LIT	940
			SVZN	X DCW	#01	X	1	2060		AREA	940
			SV1	X DCW	#03	X	3	2063		AREA	940
			HOLD5X	DCW	#05	X	5	2068		AREA	940
				DCW	&16000	X	5	2073		LIT	940
				DCW	@0@	X	1	2074		LIT	940
			HOLD3X	DCW	#03	X	3	2077		AREA	940
			SAVE1X	DCW	#03	X	3	2080		AREA	941
				DCW	&1	X	1	2081		LIT	941
				DCW	@#@	X	1	2082		LIT	941
			HEX3	X DCW	#03	X	3	2085		AREA	941
				DCW	@)@	X	1	2086		LIT	941
				DCW	@# @	X	4	2090		LIT	941
				DCW	@%@	X	1	2091		LIT	941
				DCW	@N@	X	1	2092		LIT	942
			SPACEX	DCW	#48	X	48	2140		AREA	944
				DCW	@B@	X	1	2141		LIT	944
				DCW	@?@	X	1	2142		LIT	944
			ADRSSX	DCW	#03	X	3	2145		AREA	944
				DCW	@0123456789@	X	10	2155		LIT	944
				DCW	@ERROR 47 - BAD LIST, STATEMENT @	X	31	2186		LIT	945
				DCW	@/@	X	1	2187		LIT	945
				DCW	@LISTR TRI@	X	9	2196		LIT	946
5103	38	18	SYS2	DCW	@}@	X	1	2197		GMARK	946
5104	38	19	ADONE	EQU	ONEADR	X		0142			
5105	38	20		XFR	PHSE2	X			B 845		947

SYSTEM GROUP MARK

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
5106	38	21		JOB	1401 FORTRAN LISTS PHASE THREE	X					
5107	38	22	110	DCW	@LISTR TRI@	X	9	0110			950
5108	38	23	*	MOVES	DOWN PROGRAM						
5109	38	24		ORG	PHSE2	X			0845		
5110	38	25	PHSE3	MCW	X2,NXBTM	X	7	0845	M 094 083		951
5111	38	26		SW	GM	X	4	0852	, |11		951
5112	38	27		LCA	GM,0&X2	X	7	0856	L |11 0!0		951
5113	38	28		SBR	X2	X	4	0863	H 094		951
5114	38	29	BEGIN	BWZ	NOLST,000&X1,1	X	8	0867	V 918 0|0 1		951
5115	38	30		B	SLIDE	X	4	0875	B 942		951
5116	38	31		B	SLIDE	X	4	0879	B 942		951
5117	38	32		BCE	BEGIN,1&X2,}	X	8	0883	B 867 0!1 } GMARK		952
5118	38	33		CW	001&X2	X	4	0891	) 0!1		952
5119	38	34		C	0&X1	X	4	0895	C 0|0		952
5120	38	35		SAR	X1	X	4	0899	Q 089		952
5121	38	36		SBR	X1,001&X1	X	7	0903	H 089 0|1		952
5122	38	37		B	SLIDE	X	4	0910	B 942		952
5123	38	38		B	BEGIN	X	4	0914	B 867		952
5124	38	39	NOLST	CW	000&X1	X	4	0918	) 0|0		953
5125	38	40	RUDUN	BCE	EXPH3,000&X1,	X	8	0922	B 969 0|0		953
5126	38	41		B	SLIDE	X	4	0930	B 942		953
5127	38	42		B	SLIDE	X	4	0934	B 942		953
5128	38	43		B	RUDUN	X	4	0938	B 922		953
5129	38	44	SLIDE	SBR	EXSLD&3	X	4	0942	H 968		953
5130	38	45		MVDWN	X1,X2	X				MACRO	
5131				LCA	0&X1,0&X2	X	7	0946	L 0|0 0!0	GEN	953
5132				SAR	X1	X	4	0953	Q 089	GEN	954
5133				C	0&X2	X	4	0957	C 0!0	GEN	954
5134				SAR	X2	X	4	0961	Q 094	GEN	954
5135	38	46	EXSLD	B	000	X	4	0965	B 000		954
5136	38	47	EXPH3	FENDX	D,, ,XBEGIN,PHSE2N,XBEGIN,SYS3,STNUM2	X				MACRO	
5137			EXPH3	BSS	333,D	X	5	0969	B 333 D	GEN	954
5138				SBR	INITAP&6,XBEGIN	X	7	0974	H 786 838	GEN	954
5139				SBR	BCLEAR	X	4	0981	H 833	GEN	954
5140				SBR	INITXT&3,PHSE2N	X	7	0985	H 796 937	GEN	955
5141				SBR	TCLEAR,SYS3	X	7	0992	H 710 |18	GEN	955
5142				LCA	@STNUM2@,110	X	7	0999	L |17 110	GEN	955
5143				B	MONTER	X	4	1006	B 700	GEN	955
5144	38	48		DCW	@ @ BLANK	X	1	1010			955
5145	38	49	GM	DC	@}@	X	1	1011		GMARK	955
5146	38	50		LTORG	*	X			1012		
				DCW	@STNUM2@	X	6	1017		LIT	955
5147	38	51	SYS3	DCW	@}@	X	1	1018		GMARK	955
5148	38	52		XFR	PHSE3	X			B 845		956

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
5149	38	53		JOB	1401 FORTRAN STATEMENT NUMBER DEFINER TWO	X					
5150	38	54		FBEGN	STNUM TWO,X1,,X2,,X3,R,N	X				MACRO	
5151				SFX	N	N				GEN	
5152			110	DCW	@STNUM TWO@	N	9	0110		GEN	959
5153			X1	EQU	089	N		0089		GEN	
5154			X2	EQU	094	N		0094		GEN	
5155			X3	EQU	099	N		0099		GEN	
5156			099	DCW	000	N	3	0099		GEN	960
5157			100	DC	0	N	1	0100		GEN	960
5158	38	55		ORG	XBEGIN	N			0838		
5159	38	56	BASE	DCW	#3	N	3	0840			961
5160	38	57	MAX	DCW	#4	N	4	0844			961
5161	38	58		DC	#2	N	2	0846			961
5162	38	59	UPLIM	DCW	#3	N	3	0849			961
5163	38	60	NOMO	DCW	#3	N	3	0852			961
5164	38	61	MVUP	SBR	EXMVP&3	N	4	0853	H 936		961
5165	38	62		MOVUP	X2,X1,NOMO,ALL,|	N				MACRO	
5166				MN	0&X1	N	4	0857	D 0|0	GEN	961
5167				SAR	X1	N	4	0861	Q 089	GEN	961
5168			)0J131	MCM	0&X2	N	4	0865	P 0|0	GEN	962
5169				SAR	)0L131&6	N	4	0869	Q 891	GEN	962
5170				MCM	0&X2,1&X1	N	7	0873	P 0|0 0|1	GEN	962
5171				MN		N	1	0880	D	GEN	962
5172				SBR	X1	N	4	0881	H 089	GEN	962
5173			)0L131	SBR	X2,0	N	7	0885	H 094 000	GEN	962
5174				BCE	)0J131,0&X1,|	N	8	0892	B 865 0|0 |	GEN	962
5175				MN	0&X2	N	4	0900	D 0|0	GEN	963
5176				CW		N	1	0904	)	GEN	963
5177				SW	0&X1	N	4	0905	, 0|0	GEN	963
5178				C	X2,NOMO	N	7	0909	C 094 852	GEN	963
5179				BU	)0J131	N	5	0916	B 865 /	GEN	963
5180	38	63		MN	000&X1	N	4	0921	D 0|0		963
5181	38	64		SAR	X1	N	4	0925	Q 089		963
5182	38	65		SBR	X2	N	4	0929	H 094		964
5183	38	66	EXMVP	B	000	N	4	0933	B 000		964
5184	38	67	NXBTM	EQU	083	N		0083			
5185	38	68	PHSE2	MCW	NXBTM,X3	N	7	0937	M 083 099		964
5186	38	69		SBR	NOMO,1&X3	N	7	0944	H 852 0?1		964
5187	38	70		MCW	X2,X3	N	7	0951	M 094 099		964
5188	38	71	CLR1	CS	000&X3	N	4	0958	/ 0?0		964
5189	38	72		SBR	X3	N	4	0962	H 099		964
5190	38	73		C	X3,&SAUCE-1	N	7	0966	C 099 T10		965
5191	38	74		BU	CLR1	N	5	0973	B 958 /		965
5192	38	75		SBR	X1,SAUCE-1	N	7	0978	H 089 A99		965
5193	38	76	* SHIFT SOURCE PROGRAM UP TO COMPILER PROGRAM								
5194	38	77		B	MVUP	N	4	0985	B 853		965
5195	38	78		SBR	BASE,5&X1	N	7	0989	H 840 0|5		965
5196	38	79		MN	TWO9,BASE	N	7	0996	D S75 840		965
5197	38	80		MN		N	1	1003	D		965
5198	38	81		MCW	NXBTM,X3	N	7	1004	M 083 099		966

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
5199	38	82	*	CLEAR	BALANCE OF CORE						
5200	38	83	CLR2	CS	000&X3	N	4	1011	/ 0?0		966
5201	38	84		SBR	X3	N	4	1015	H 099		966
5202	38	85		C	X3,BASE	N	7	1019	C 099 840		966
5203	38	86		BU	CLR2	N	5	1026	B |11 /		966
5204	38	87		MCW	@<@,0&X3 12-6-8	N	7	1031	M T11 0?0		966
5205	38	88	*	DIVIDE	REST OF CORE FOR TABLES RATIO 3 TO 7						
5206	38	89		MCW	NXBTM,LOC	N	7	1038	M 083 S73		967
5207	38	90		B	UNPAK	N	4	1045	B S00		967
5208	38	91		MCW	NUM#5,MAX&2	N	7	1049	M T16 846		967
5209	38	92		MCW	BASE,LOC	N	7	1056	M 840 S73		967
5210	38	93		B	UNPAK	N	4	1063	B S00		967
5211	38	94		S	NUM,MAX&2	N	7	1067	S T16 846		967
5212	38	95		A	MAX&2	N	4	1074	A 846		968
5213	38	96		A	MAX&2	N	4	1078	A 846		968
5214	38	97		A	MAX&2	N	4	1082	A 846		968
5215	38	98		A	MAX&2	N	4	1086	A 846		968
5216	38	99		A	MAX,ACCUM#6	N	7	1090	A 844 T22		968
5217	39	00		A	ACCUM	N	4	1097	A T22		968
5218	39	01		A	MAX,ACCUM 3*MAX IN ACCUM	N	7	1101	A 844 T22		968
5219	39	02		A	NUM,ACCUM	N	7	1108	A T16 T22		969
5220	39	03		MCW	ACCUM-3,X3	N	7	1115	M T19 099		969
5221	39	04		A	X3	N	4	1122	A 099		969
5222	39	05		MZ	ZONES&X3,ACCUM-2	N	7	1126	Y SG6 T20		969
5223	39	06		MZ	ZONES&1&X3,ACCUM	N	7	1133	Y SG7 T22		969
5224	39	07		MCW	ACCUM,X3	N	7	1140	M T22 099		969
5225	39	08		SW	002&X3	N	4	1147	, 0?2		970
5226	39	09		MCW	@<@ 12-6-8	N	4	1151	M T11		970
5227	39	10		SBR	UPLIM	N	4	1155	H 849		970
5228	39	11		FENDX	C, , , PHSE2, PHSE3, PHSE2, SAUCE-1, STNUM TRI	N				MACRO	
5229				BSS	333,C	N	5	1159	B 333 C	GEN	970
5230				SBR	INITAP&6, PHSE2	N	7	1164	H 786 937	GEN	970
5231				SBR	BCLEAR	N	4	1171	H 833	GEN	970
5232				SBR	INITXT&3, PHSE3	N	7	1175	H 796 /87	GEN	970
5233				SBR	TCLEAR, SAUCE-1	N	7	1182	H 710 A99	GEN	971
5234				LCA	@STNUM TRI@,110	N	7	1189	L T31 110	GEN	971
5235				B	MONTER	N	4	1196	B 700	GEN	971
5236	39	12	UNPAK	SBR	EXIT&3	N	4	1200	H S68		971
5237	39	13		MN	LOC,NUM	N	7	1204	D S73 T16		971
5238	39	14		MN		N	1	1211	D		971
5239	39	15		MN		N	1	1212	D		971
5240	39	16		MCW		N	1	1213	M		972
5241	39	17		MZ	LOC,TWO9	N	7	1214	Y S73 S75		972
5242	39	18		MZ	LOC-2,TWO9-1	N	7	1221	Y S71 S74		972
5243	39	19		SBR	X3,ZONES-3	N	7	1228	H 099 S73		972
5244	39	20	COMP	C	004&X3,TWO9	N	7	1235	C 0?4 S75		972
5245	39	21		SAR	X3	N	4	1242	Q 099		972
5246	39	22		A	&1,NUM-3	N	7	1246	A T32 T13		973
5247	39	23		BU	COMP	N	5	1253	B S35 /		973
5248	39	24		MZ	@ @,NUM-3	N	7	1258	Y T33 T13		973

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
5249	39	25	EXIT	B	0	N	4	1265	B 000		973
5250	39	26	LOC	DCW	@0J @	N	5	1273			973
5251	39	27	TWO9	DCW	@99@	N	2	1275			973
5252	39	28	ZONES	DC	@9@	N	1	1276			973
5253	39	29		DC	@9Z9R9I99ZZZRZIZ9RZRRRIR9IZIRIII@	N	31	1307			974
5254	39	30		LTORG	*	N			1308		
				DCW	&SAUCEN-1	N	3	1310	A99	ADCON	974
				DCW	@<@	N	1	1311		LIT	974
			NUM N	DCW	#05	N	5	1316		AREA	975
			ACCUMN	DCW	#06	N	6	1322		AREA	975
				DCW	@STNUM TRI@	N	9	1331		LIT	975
				DCW	&1	N	1	1332		LIT	975
				DCW	@ @	N	1	1333		LIT	975
5255	39	31		DCW	@}@	N	1	1334		GMARK	975
5256	39	32		XFR	PHSE2	N			B 937		976

SYSTEM GROUP MARK

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
5257	39	33		JOB	1401 FORTRAN STATEMENT NUMBER PHASE THREE	N					
5258	39	34	110	DCW	@STNUM TRI@	N	9	0110			979
5259	39	35		ORG	PHSE2	N			0937		
5260	39	36	SLIDE	SBR	EXSLD&3	N	4	0937	H 963		980
5261	39	37		MVDWN	X1,X2	N				MACRO	
5262				LCA	0&X1,0&X2	N	7	0941	L 0|0 0!0	GEN	980
5263				SAR	X1	N	4	0948	Q 089	GEN	980
5264				C	0&X2	N	4	0952	C 0!0	GEN	980
5265				SAR	X2	N	4	0956	Q 094	GEN	980
5266	39	38	EXSLD	B	000	N	4	0960	B 000		980
5267	39	39	RANDM	SBR	EXRDM&3	N	4	0964	H |47		980
5268	39	40		MCW	000&X1,ALPH	N	7	0968	M 0|0 |51		981
5269	39	41		SAR	HEX1	N	4	0975	Q |54		981
5270	39	42		MN	ALPH,MOD	N	7	0979	D |51 |58		981
5271	39	43		CHAIN	3 BLANK IN ALPH-3 IMPLIES 3 DIGIT NO. IN MOD	N				MACRO	
5272				MN		N	1	0986	D	GEN	981
5273				MN		N	1	0987	D	GEN	981
5274				MN		N	1	0988	D	GEN	981
5275	39	44	SUBTR	S	MAX,MOD	N	7	0989	S 844 |58		981
5276	39	45		BWZ	SUBTR,MOD,B	N	8	0996	V 989 |58 B		982
5277	39	46		A	MAX,MOD	N	7	1004	A 844 |58		982
5278	39	47		MZ	*-4,MOD	N	7	1011	Y |13 |58		982
5279	39	48		MCW	MOD,X1	N	7	1018	M |58 089		982
5280	39	49		A	X1	N	4	1025	A 089		982
5281	39	50		A	MOD,X1	N	7	1029	A |58 089		983
5282	39	51	BUMP	NOP	000 INITIALIZED BY PHSE3	N	4	1036	N 000		983
5283	39	52		SAR	X1	N	4	1040	Q 089		983
5284	39	53	EXRDM	B	000	N	4	1044	B 000		983
5285	39	54		DCW	#1	N	1	1048			983
5286	39	55	ALPH	DCW	#3	N	3	1051			983
5287	39	56	HEX1	DCW	#3	N	3	1054			983
5288	39	57	MOD	DCW	#4	N	4	1058			984
5289	39	58	CODE	DCW	#4	N	4	1062			984
5290	39	59	NEXT	DCW	#3	N	3	1065			984
5291	39	60	FULL	FQUIT		N				MACRO	
5292			FULL	CS	332	N	4	1066	/ 332	GEN	984
5293				CS		N	1	1070	/	GEN	984
5294				CC	1	N	2	1071	F 1	GEN	984
5295				MCW	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@,270	N	7	1073	M /79 270	GEN	984
5296				W		N	1	1080	2	GEN	985
5297				CC	1	N	2	1081	F 1	GEN	985
5298				BCE	*&6,MONTOR,1	N	8	1083	B |96 769 1	GEN	985
5299				RWD	1	N	5	1091	U %U1 R	GEN	985
5300				H	*-3	N	4	1096	. |96	GEN	985
5301	39	61	OUT	MCW	SAVE1,X1	N	7	1100	M /43 089		985
5302	39	62		FENDX	C,,PHSE3,,PHSE3,SYS3,STNUM 4	N				MACRO	
5303				BSS	333,C	N	5	1107	B 333 C	GEN	985
5304				SBR	INITAP&6,PHSE3	N	7	1112	H 786 /87	GEN	986
5305				SBR	BCLEAR	N	4	1119	H 833	GEN	986
5306				SBR	TCLEAR,SYS3	N	7	1123	H 710 W89	GEN	986

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
5307				LCA	@STNUM 4@,110	N	7	1130	L /86 110	GEN	986
5308				B	MONTER	N	4	1137	B 700	GEN	986
5309	39	63	SAVE1	DCW	#3	N	3	1143			986
5310	39	64		LTORG	*	N			1144		
				DCW	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@	N	36	1179		LIT	987
				DCW	@STNUM 4@	N	7	1186		LIT	988
5311	39	65	PHSE3	MCW	NXBTM,NEXT	N	7	1187	M 083 |65		988
5312	39	66		MCW	NXBTM,ADTBLL	N	7	1194	M 083 145		988
5313	39	67		MCW	BASE,BUMP&3	N	7	1201	M 840 |39		988
5314	39	68		MZ	@S@,BUMP&2	N	7	1208	Y W67 |38		988
5315	39	69		SBR	NOMO,2&X2	N	7	1215	H 852 0!2		989
5316	39	70		MCW	X1,SAVE1	N	7	1222	M 089 /43		989
5317	39	71	RUCGT	MCW	000&X1,CODE	N	7	1229	M 0|0 |62		989
5318	39	72		BCE	CGOTO,CODE-3,T	N	8	1236	B T67 |59 T		989
5319	39	73		MCW	@B@,SWCH	N	7	1244	M W68 V83		989
5320	39	74		MCW	NEXT,NXBTM	N	7	1251	M |65 083		990
5321	39	75		C	X1,X2	N	7	1258	C 089 094		990
5322	39	76		BE	*&5	N	5	1265	B S74 S		990
5323	39	77		B	MVUP	N	4	1270	B 853		990
5324	39	78	NORML	BCE	OUT,000&X1, BLANK	N	8	1274	B /00 0|0		990
5325	39	79		MCW	000&X1,CODE	N	7	1282	M 0|0 |62		990
5326	39	80		B	SLIDE	N	4	1289	B 937		991
5327	39	81		MCW	CODE-3,*&8	N	7	1293	M |59 T07		991
5328	39	82		BCE	WORRY,@WTDEGK@,0	N	8	1300	B T21 W74 0		991
5329	39	83		CHAIN	5	N				MACRO	
5330				BCE		N	1	1308	B	GEN	991
5331				BCE		N	1	1309	B	GEN	991
5332				BCE		N	1	1310	B	GEN	991
5333				BCE		N	1	1311	B	GEN	991
5334				BCE		N	1	1312	B	GEN	992
5335	39	84	BTMNL	B	SLIDE	N	4	1313	B 937		992
5336	39	85		B	NORML	N	4	1317	B S74		992
5337	39	86	WORRY	B	RANDM	N	4	1321	B 964		992
5338	39	87		B	CHAIN	N	4	1325	B V33		992
5339	39	88		MCW	X3,000&X2	N	7	1329	M 099 0!0		992
5340	39	89		SBR	X2	N	4	1336	H 094		992
5341	39	90		MCW	HEX1,X1	N	7	1340	M |54 089		993
5342	39	91		BCE	BTMNL,000&X1,}	N	8	1347	B T13 0|0 }	GMARK	993
5343	39	92		BCE	BTMNL,000&X1,,	N	8	1355	B T13 0|0 ,		993
5344	39	93		B	WORRY	N	4	1363	B T21		993
5345	39	94	CGOTO	C	0&X1	N	4	1367	C 0|0		993
5346	39	95		MN		N	1	1371	D		993
5347	39	96		SAR	X3	N	4	1372	Q 099		993
5348	39	97		S	COUNT#3	N	4	1376	S W77		994
5349	39	98	RTLFT	MN	000&X3	N	4	1380	D 0?0		994
5350	39	99		MN		N	1	1384	D		994
5351	40	00		MN		N	1	1385	D		994
5352	40	01		SAR	X3	N	4	1386	Q 099		994
5353	40	02		A	@1@,COUNT	N	7	1390	A W78 W77		994
5354	40	03		BCE	FORK,001&X3,,	N	8	1397	B U09 0?1 ,		994

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
5355	40	04		B	RTLFT	N	4	1405	B T80		995
5356	40	05	FORK	S	&11,COUNT	N	7	1409	S W80 W77		995
5357	40	06		BWZ	BIG,COUNT,B PLUS	N	8	1416	V U36 W77 B		995
5358	40	07		B	SLIDE	N	4	1424	B 937		995
5359	40	08	BTMCG	B	SLIDE	N	4	1428	B 937		995
5360	40	09		B	RUCGT	N	4	1432	B S29		995
5361	40	10	BIG	MN	000&X1	N	4	1436	D 0|0		995
5362	40	11		MN		N	1	1440	D		996
5363	40	12		MN		N	1	1441	D		996
5364	40	13		MCW	@H@	N	4	1442	M W81		996
5365	40	14		B	SLIDE	N	4	1446	B 937		996
5366	40	15		MCW	X3,HEX3#3	N	7	1450	M 099 W84		996
5367	40	16		MN	000&X3	N	4	1457	D 0?0		996
5368	40	17		MN		N	1	1461	D		996
5369	40	18		SAR	X1	N	4	1462	Q 089		997
5370	40	19		A	&9,COUNT	N	7	1466	A W85 W77		997
5371	40	20	LOOP	SBR	X1,6&X1	N	7	1473	H 089 0|6		997
5372	40	21		B	RANDM	N	4	1480	B 964		997
5373	40	22		B	CHAIN	N	4	1484	B V33		997
5374	40	23		MCW	HEX1,X1	N	7	1488	M |54 089		997
5375	40	24		BCE	HEADR,004&X1,}	N	8	1495	B V07 0|4 } GMARK		998
5376	40	25		B	LOOP	N	4	1503	B U73		998
5377	40	26	HEADR	MCW	NEXT,000&X2	N	7	1507	M |65 0!0		998
5378	40	27		MCW	COUNT	N	4	1514	M W77		998
5379	40	28		SBR	X2	N	4	1518	H 094		998
5380	40	29		MCW	HEX3,X1	N	7	1522	M W84 089		998
5381	40	30		B	BTMCG	N	4	1529	B U28		998
5382	40	31	CHAIN	SBR	EXCHN&3	N	4	1533	H W44		999
5383	40	32		MCW	@N@,OVFLW	N	7	1537	M W86 W45		999
5384	40	33	AGAIN	MCW	000&X1,X3	N	7	1544	M 0|0 099		999
5385	40	34		SAR	X1	N	4	1551	Q 089		999
5386	40	35		BCE	NEW,003&X1, BLANK	N	8	1555	B W06 0|3		999
5387	40	36		BCE	OVFLW,003&X1,< 12-6-8 ALTER STNUM PHSE 1	N	8	1563	B W45 0|3 <		999
5388	40	37		C	000&X3,ALPH	N	7	1571	C 0?0 |51		1000
5389	40	38		BU	AGAIN	N	5	1578	B V44 /		1000
5390	40	39	SWCH	NOP	EXCHN	N	4	1583	N W41		1000
5391	40	40		MCW	NEXT,000&X3	N	7	1587	M |65 0?0		1000
5392	40	41		SBR	X3	N	4	1594	H 099		1000
5393	40	42		MZ	@ A@,002&X3 BLANK	N	7	1598	Y W88 0?2		1000
5394	40	43		CW	DUMMY ON A-OPER, EFFECTIVE ON B-OPER	N	1	1605	)		1000
5395	40	44	NEW	LCA	NEXT,003&X1	N	7	1606	L |65 0|3		1001
5396	40	45		MCW	NEXT,X3	N	7	1613	M |65 099		1001
5397	40	46		BCE	FULL,000&X3,< 12-6-8	N	8	1620	B |66 0?0 <		1001
5398	40	47		B		N	1	1628	B		1001
5399	40	48		B		N	1	1629	B		1001
5400	40	49		LCA	ALPH,000&X3	N	7	1630	L |51 0?0		1001
5401	40	50		SBR	NEXT	N	4	1637	H |65		1001
5402	40	51	EXCHN	B	000	N	4	1641	B 000		1002
5403	40	52	OVFLW	NOP	FULL	N	4	1645	N |66		1002
5404	40	53		MCW	@B@,OVFLW	N	7	1649	M W68 W45		1002

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
5405	40	54		MCW	UPLIM,X1	N	7	1656	M 849 089		1002
5406	40	55		B	AGAIN	N	4	1663	B V44		1002
5407	40	56		LTORG	*	N			1667		
				DCW	@S@	N	1	1667		LIT	1002
				DCW	@B@	N	1	1668		LIT	1002
				DCW	@WTDEGK@	N	6	1674		LIT	1003
			COUNTN	DCW	#03	N	3	1677		AREA	1003
				DCW	@1@	N	1	1678		LIT	1003
				DCW	&11	N	2	1680		LIT	1003
				DCW	@H@	N	1	1681		LIT	1003
			HEX3 N	DCW	#03	N	3	1684		AREA	1003
				DCW	&9	N	1	1685		LIT	1003
				DCW	@N@	N	1	1686		LIT	1004
				DCW	@ A@	N	2	1688		LIT	1004
5408	40	57	SYS3	DCW	@}@	N	1	1689		GMARK	1004
5409	40	58		ORG	NDRITH&X00	N			3200		
5410	40	59		ORG	*-5	N			3195		
5411	40	60		DCW	#5	N	5	3199			1005
5412	40	61	SAUCE	EQU	*&1	N		3200			
5413	40	62		XFR	PHSE3	N			B /87		1006

SYSTEM GROUP MARK

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
5414	40	63		JOB	1401 FORTRAN STATEMENT NUMBER PHASE FOUR	N					
5415	40	64	110	DCW	@STNUM FOR@	N	9	0110			1009
5416	40	65		ORG	PHSE3	N			1187		
5417	40	66	PHSE4	LCA	@ @,000&X2 BLANK	N	7	1187	L W25 0!0		1010
5418	40	67		SW	GM	N	4	1194	, X25		1010
5419	40	68		MCW	X1,X2	N	7	1198	M 089 094		1010
5420	40	69	START	BCE	OUT1,0&X1, BLANK	N	8	1205	B U84 0!0		1010
5421	40	70		MCW	000&X1, CODE	N	7	1213	M 0!0 |62		1010
5422	40	71		SAR	X1	N	4	1220	Q 089		1010
5423	40	72		BCE	NONUM,000&X1,} GROUP MK	N	8	1224	B V69 0!0 } GMARK		1011
5424	40	73		B	RANDM	N	4	1232	B 964		1011
5425	40	74		MCW	@N@, WRAP	N	7	1236	M W26 T90		1011
5426	40	75	NOTHR	MCW	000&X1, X3	N	7	1243	M 0!0 099		1011
5427	40	76		SAR	X1	N	4	1250	Q 089		1011
5428	40	77		BWZ	NOTYT,001&X1,1 WORD MK	N	8	1254	V S94 0!1 1		1011
5429	40	78		BCE	WRAP,003&X1,< 12-6-8	N	8	1262	B T90 0!3 <		1012
5430	40	79		BCE	UNREF,1&X1, BLANK	N	8	1270	B U12 0!1		1012
5431	40	80		C	003&X1,ALPH	N	7	1278	C 0!3 |51		1012
5432	40	81		BU	NOTHR	N	5	1285	B S43 /		1012
5433	40	82		B	MULTY	N	4	1290	B U46		1012
5434	40	83	NOTYT	C	000&X3,ALPH	N	7	1294	C 0?0 |51		1012
5435	40	84		BU	NOTHR	N	5	1301	B S43 /		1013
5436	40	85		MZ	CODE-1,ZONE#1	N	7	1306	Y |61 W27		1013
5437	40	86		MZ	*-4, CODE-1	N	7	1313	Y T15 |61		1013
5438	40	87		MCW	CODE,000&X3	N	7	1320	M |62 0?0		1013
5439	40	88		SBR	X3	N	4	1327	H 099		1013
5440	40	89		CW	001&X3	N	4	1331	) 0?1		1013
5441	40	90		MCW	003&X1, CODE	N	7	1335	M 0!3 |62		1014
5442	40	91		MZ	ZONE, CODE-1	N	7	1342	Y W27 |61		1014
5443	40	92		MCW	ALPH,003&X1	N	7	1349	M |51 0!3		1014
5444	40	93		CW	001&X1	N	4	1356	) 0!1		1014
5445	40	94	HEX2X	MCW	HEX1,X1	N	7	1360	M |54 089		1014
5446	40	95	BOTM	SBR	X1,4&X1	N	7	1367	H 089 0!4		1014
5447	40	96		MCW	CODE	N	4	1374	M |62		1015
5448	40	97		B	SLIDE	N	4	1378	B 937		1015
5449	40	98		B	SLIDE	N	4	1382	B 937		1015
5450	40	99		B	START	N	4	1386	B S05		1015
5451	41	00	WRAP	NOP	UNREF	N	4	1390	N U12		1015
5452	41	01		MCW	@B@, WRAP	N	7	1394	M W28 T90		1015
5453	41	02		MCW	UPLIM,X1	N	7	1401	M 849 089		1015
5454	41	03		B	NOTHR	N	4	1408	B S43		1016
5455	41	04	UNREF	FTMSG	19, UNREFERENCED STMT NUMBER, CODE, 26, NOFAIL	N				MACRO	
5456			UNREF	CS	332	N	4	1412	/ 332	GEN	1016
5457				CS		N	1	1416	/	GEN	1016
5458				MN	CODE, 224&26	N	7	1417	D |62 250	GEN	1016
5459				MN		N	1	1424	D	GEN	1016
5460				MN		N	1	1425	D	GEN	1016
5461				MCW	@ERROR 19 - UNREFERENCED STMT NUMBER, STATEMENT @	N	4	1426	M W75	GEN	1016
5462				W		N	1	1430	2	GEN	1017
5463				BCV	*&5	N	5	1431	B U40 @	GEN	1017

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
5464				B	* & 3	N	4	1436	B U42	GEN	1017
5465				CC	1	N	2	1440	F 1	GEN	1017
5466	41	05		B	PRNUM	N	4	1442	B V62		1017
5467	41	06	MULTY	FTMSG	20, DOUBLY DEFINED STMT, CODE, 21	N				MACRO	
5468			MULTY	CS	332	N	4	1446	/ 332	GEN	1017
5469				CS		N	1	1450	/	GEN	1017
5470				SW	FAILSW	N	4	1451	, 184	GEN	1018
5471				MN	CODE, 224 & 21	N	7	1455	D | 62 245	GEN	1018
5472				MN		N	1	1462	D	GEN	1018
5473				MN		N	1	1463	D	GEN	1018
5474				MCW	@ERROR 20 - DOUBLY DEFINED STMT, STATEMENT @	N	4	1464	M X17	GEN	1018
5475				W		N	1	1468	2	GEN	1018
5476				BCV	* & 5	N	5	1469	B U78 @	GEN	1018
5477				B	* & 3	N	4	1474	B U80	GEN	1019
5478				CC	1	N	2	1478	F 1	GEN	1019
5479	41	07		B	HEX2X	N	4	1480	B T60		1019
5480	41	08	OUT1	MCW	NEXT, X3	N	7	1484	M | 65 099		1019
5481	41	09		LCA	GM, 0 & X3	N	7	1491	L X25 0?0		1019
5482	41	10		SBR	X3	N	4	1498	H 099		1019
5483	41	11		SBR	BSAUCE	N	4	1502	H 148		1019
5484	41	12		CS	0 & X2	N	4	1506	/ 0!0		1020
5485	41	13		MCW	SAVE1, X1	N	7	1510	M / 43 089		1020
5486	41	14		SW	0 & X2	N	4	1517	, 0!0		1020
5487	41	15		FENDX	C, GM, , XBEGIN, XBEGIN, XBEGIN, SYS4, STNUM 5	N				MACRO	
5488				BSS	333, C	N	5	1521	B 333 C	GEN	1020
5489				SBR	INITAP & 6, XBEGIN	N	7	1526	H 786 838	GEN	1020
5490				SBR	BCLEAR	N	4	1533	H 833	GEN	1020
5491				SBR	INITXT & 3, XBEGIN	N	7	1537	H 796 838	GEN	1020
5492				SBR	TCLEAR, SYS4	N	7	1544	H 710 X26	GEN	1021
5493				LCA	@STNUM 5 @, 110	N	7	1551	L X24 110	GEN	1021
5494				B	MONTER	N	4	1558	B 700	GEN	1021
5495	41	16	PRNUM	MCW	HEX1, X1	N	7	1562	M | 54 089		1021
5496	41	17	NONUM	BCE	PSUDO, CODE-3, D	N	8	1569	B V81 | 59 D		1021
5497	41	18		B	BOTM	N	4	1577	B T67		1021
5498	41	19	PSUDO	MCW	NEXT, X3	N	7	1581	M | 65 099		1022
5499	41	20		MCW	CODE, 000 & X3	N	7	1588	M | 62 0?0		1022
5500	41	21		SBR	X3	N	4	1595	H 099		1022
5501	41	22		BCE	FULL, 000 & X3, < 12-6-8	N	8	1599	B | 66 0?0 <		1022
5502	41	23		MCW	NEXT, CODE	N	7	1607	M | 65 | 62		1022
5503	41	24		SBR	NEXT, 1 & X3	N	7	1614	H | 65 0?1		1023
5504	41	25		B	BOTM	N	4	1621	B T67		1023
5505	41	26		LTORG	*	N			1625		
				DCW	@ @	N	1	1625		LIT	1023
				DCW	@N@	N	1	1626		LIT	1023
			ZONE N	DCW	#01	N	1	1627		AREA	1023
				DCW	@B@	N	1	1628		LIT	1023
				DCW	@ERROR 19 - UNREFERENCED STMT NUMBER, STATEMENT @	N	47	1675		LIT	1025
				DCW	@ERROR 20 - DOUBLY DEFINED STMT, STATEMENT @	N	42	1717		LIT	1027
				DCW	@STNUM 5@	N	7	1724		LIT	1027
5506	41	27	GM	DC	@} @ GM	N	1	1725		GMARK	1027

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
5507	41	28	SYS4	DCW	@}@	N	1	1726		GMARK	1027
5508	41	29		XFR	PHSE4	N			B /87		1028

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
5509	41	30		JOB	1401 FORTRAN STATEMENT NUMBER PHASE FIVE	N					
5510	41	31		FBEGN	STNUM 5,X1,,X2,R,X3,,L	N				MACRO	
5511				SFX	L	L				GEN	
5512			110	DCW	@STNUM 5@	L	7	0110		GEN	1031
5513			X1	EQU	089	L		0089		GEN	
5514			X2	EQU	094	L		0094		GEN	
5515			094	DCW	000	L	3	0094		GEN	1032
5516			096	DC	00	L	2	0096		GEN	1032
5517			X3	EQU	099	L		0099		GEN	
5518	41	32		ORG	XBEGIN	L			0838		
5519	41	33	INITL	MCW	X3,HEX3#3	L	7	0838	M 099 S76		1033
5520	41	34		MCW	X1,HEX1#3	L	7	0845	M 089 S79		1033
5521	41	35		C	0&X3	L	4	0852	C 0?0		1033
5522	41	36		SAR	X3	L	4	0856	Q 099		1033
5523	41	37		CW	1&X3	L	4	0860	) 0?1		1033
5524	41	38		MCW	ADTBL,X2	L	7	0864	M 145 094		1033
5525	41	39		C	000&X2	L	4	0871	C 0!0		1033
5526	41	40		SAR	X2	L	4	0875	Q 094		1034
5527	41	41		C	X2,HEX3	L	7	0879	C 094 S76		1034
5528	41	42		BE	OUT	L	5	0886	B S37 S		1034
5529	41	43		MCW	ADTBL,CGBTM#3	L	7	0891	M 145 S82		1034
5530	41	44	START	BWZ	OUT,000&X1,1	L	8	0898	V S37 0!0 1		1034
5531	41	45		MCW	000&X1,CODE#4	L	7	0906	M 0!0 S86		1034
5532	41	46		C	000&X1	L	4	0913	C 0!0		1035
5533	41	47		SAR	X1	L	4	0917	Q 089		1035
5534	41	48		MCW	@ @,COUNT#3	L	7	0921	M S89 S92		1035
5535	41	49		BCE	WORRY,CODE-3,H	L	8	0928	B 968 S83 H		1035
5536	41	50		MCW	CODE-3,*&8	L	7	0936	M S83 950		1035
5537	41	51		BCE	RUBAD,@TWEDGK@,0	L	8	0943	B /78 S98 0		1035
5538	41	52		CHAIN	5	L				MACRO	
5539				BCE		L	1	0951	B	GEN	1035
5540				BCE		L	1	0952	B	GEN	1036
5541				BCE		L	1	0953	B	GEN	1036
5542				BCE		L	1	0954	B	GEN	1036
5543				BCE		L	1	0955	B	GEN	1036
5544	41	53	SKIP	C	000&X1	L	4	0956	C 0!0		1036
5545	41	54		SAR	X1	L	4	0960	Q 089		1036
5546	41	55		B	START	L	4	0964	B 898		1036
5547	41	56	WORRY	MCW	CGBTM,X3	L	7	0968	M S82 099		1037
5548	41	57	CKEXT	C	000&X1,X3	L	7	0975	C 0!0 099		1037
5549	41	58		BE	THRU	L	5	0982	B !45 S		1037
5550	41	59		MN	000&X3	L	4	0987	D 0?0		1037
5551	41	60		MN		L	1	0991	D		1037
5552	41	61		MN		L	1	0992	D		1037
5553	41	62		SAR	X3	L	4	0993	Q 099		1037
5554	41	63		SBR	X2	L	4	0997	H 094		1038
5555	41	64	CHAIN	BWZ	ADD1,001&X2,1	L	8	1001	V /67 0!1 1		1038
5556	41	65		BWZ	CKEXT,002&X2,2	L	8	1009	V 975 0!2 2		1038
5557	41	66		MCW	003&X2,X2	L	7	1017	M 0!3 094		1038
5558	41	67		MZ	@ @,X2-1	L	7	1024	Y S99 093		1038
					BLANK						

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
5559	41	68		MN	000&X2	L	4	1031	D 0!0		1038
5560	41	69		MN		L	1	1035	D		1038
5561	41	70		MN		L	1	1036	D		1039
5562	41	71		SAR	X2	L	4	1037	Q 094		1039
5563	41	72		B	CHAIN	L	4	1041	B |01		1039
5564	41	73	THRU	MCW	X3,CGBTM	L	7	1045	M 099 S82		1039
5565	41	74	DUN	BCE	SKIP,COUNT, BLANK	L	8	1052	B 956 S92		1039
5566	41	75		BWZ	*&5, CODE, 2	L	8	1060	V |72 S86 2		1039
5567	41	76		B	ZONE	L	4	1068	B |80		1039
5568	41	77		BWZ	PRINT, CODE-2, 2	L	8	1072	V |94 S84 2		1040
5569	41	78	ZONE	MCW	CODE, X3	L	7	1080	M S86 099		1040
5570	41	79		MCW	000&X3, CODE	L	7	1087	M 0?0 S86		1040
5571	41	80	PRINT	CS	299	L	4	1094	/ 299		1040
5572	41	81		SW	FAILSW	L	4	1098	, 184		1040
5573	41	82		MCW	@ERROR 21 -@, 210	L	7	1102	M T09 210		1040
5574	41	83		MCW	@UNDEFINED STATEMENT NUMBERS, STATEMENT@, 253	L	7	1109	M T47 253		1041
5575	41	84		MN	CODE, 257	L	7	1116	D S86 257		1041
5576	41	85		MN		L	1	1123	D		1041
5577	41	86		MN		L	1	1124	D		1041
5578	41	87		MCS	COUNT, 214	L	7	1125	Z S92 214		1041
5579	41	88		C	COUNT, @001@	L	7	1132	C S92 T50		1041
5580	41	89		BU	*&8	L	5	1139	B /51 /		1041
5581	41	90		MCW	@, @, 243	L	7	1144	M T52 243		1042
5582	41	91		W		L	1	1151	2		1042
5583	41	92		FORMS		L				MACRO	
5584				BCV	*&5	L	5	1152	B /61 @	GEN	1042
5585				B	*&3	L	4	1157	B /63	GEN	1042
5586				CC	1	L	2	1161	F 1	GEN	1042
5587	41	93		B	SKIP	L	4	1163	B 956		1042
5588	41	94	ADD1	A	@1@, COUNT	L	7	1167	A T53 S92		1042
5589	41	95		B	CKEXT	L	4	1174	B 975		1043
5590	41	96	RUBAD	BWZ	DUN, 000&X1, 1	L	8	1178	V |52 0|0 1		1043
5591	41	97		BCE	DUN, 000&X1, ,	L	8	1186	B |52 0|0 ,		1043
5592	41	98		MCW	000&X1, X3	L	7	1194	M 0|0 099		1043
5593	41	99		SAR	X1	L	4	1201	Q 089		1043
5594	42	00		MN	000&X3	L	4	1205	D 0?0		1043
5595	42	01		MN		L	1	1209	D		1043
5596	42	02		SAR	X3	L	4	1210	Q 099		1044
5597	42	03		BWZ	PLUS1, 000&X3, 1	L	8	1214	V S26 0?0 1		1044
5598	42	04		B	RUBAD	L	4	1222	B /78		1044
5599	42	05	PLUS1	A	@1@, COUNT	L	7	1226	A T53 S92		1044
5600	42	06		B	RUBAD	L	4	1233	B /78		1044
5601	42	07	OUT	MCW	HEX1, X1	L	7	1237	M S79 089		1044
5602	42	08		MCW	HEX3, X3	L	7	1244	M S76 099		1045
5603	42	09		FENDX	E, , , , , SYS5, I/O ONE	L				MACRO	
5604				BSS	333, E	L	5	1251	B 333 E	GEN	1045
5605				SBR	TCLEAR, SYS5	L	7	1256	H 710 T61	GEN	1045
5606				LCA	@I/O ONE@, 110	L	7	1263	L T60 110	GEN	1045
5607				B	MONTER	L	4	1270	B 700	GEN	1045
5608	42	10		LTORG	*	L			1274		

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
			HEX3	L DCW	#03	L	3	1276		AREA	1045
			HEX1	L DCW	#03	L	3	1279		AREA	1045
			CGBTML	DCW	#03	L	3	1282		AREA	1046
			CODE	L DCW	#04	L	4	1286		AREA	1046
				DCW	@ @	L	3	1289		LIT	1046
			COUNTL	DCW	#03	L	3	1292		AREA	1046
				DCW	@TWEDGK@	L	6	1298		LIT	1046
				DCW	@ @	L	1	1299		LIT	1046
				DCW	@ERROR 21 -@	L	10	1309		LIT	1046
				DCW	@UNDEFINED STATEMENT NUMBERS, STATEMENT@	L	38	1347		LIT	1047
				DCW	@001@	L	3	1350		LIT	1048
				DCW	@, @	L	2	1352		LIT	1048
				DCW	@1@	L	1	1353		LIT	1048
				DCW	@I/O ONE@	L	7	1360		LIT	1048
5609	42	11	SYS5	DCW	@}@	L	1	1361		GMARK	1048
5610	42	12		XFR	INITL	L			B 838		1049

SYSTEM GROUP MARK

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
5611	42	13		JOB	1401 FORTRAN INPUT/OUTPUT PHASE ONE	L					
5612	42	14		FBEGN	I/O ONE,X1,,X2,R,X3,,9	L				MACRO	
5613				SFX	9	9				GEN	
5614			110	DCW	@I/O ONE@	9	7	0110		GEN	1052
5615			X1	EQU	089	9		0089		GEN	
5616			X2	EQU	094	9		0094		GEN	
5617			094	DCW	000	9	3	0094		GEN	1053
5618			096	DC	00	9	2	0096		GEN	1053
5619			X3	EQU	099	9		0099		GEN	
5620	42	15		ORG	XBEGIN	9			0838		
5621	42	16	BEGIN	SW	GM1	9	4	0838	, W27		1054
5622	42	17	START	BCE	OUT2,0&X1,	9	8	0842	B 886 0|0		1054
5623	42	18		LCA	0&X1, CODE#5	9	7	0850	L 0|0 W49		1054
5624	42	19		CW	XTPSW	9	4	0857	) X57		1054
5625	42	20		SW	CODE-3	9	4	0861	, W46		1054
5626	42	21		MCW	CODE-3,*&8	9	7	0865	M W46 879		1054
5627	42	22		BCE	IOTYP,@1356LPU@,0	9	8	0872	B |12 W56 0		1055
5628	42	23		CHAIN	6	9				MACRO	
5629				BCE		9	1	0880	B	GEN	1055
5630				BCE		9	1	0881	B	GEN	1055
5631				BCE		9	1	0882	B	GEN	1055
5632				BCE		9	1	0883	B	GEN	1055
5633				BCE		9	1	0884	B	GEN	1055
5634				BCE		9	1	0885	B	GEN	1055
5635	42	24	OUT2	SBR	X1,1&X1	9	7	0886	H 089 0|1		1056
5636	42	25		MZ	X3,ALL9	9	7	0893	Y 099 W16		1056
5637	42	26		MZ		9	1	0900	Y		1056
5638	42	27		MCW		9	1	0901	M		1056
5639	42	28		MZ	X1,ALL91	9	7	0902	Y 089 W19		1056
5640	42	29		MZ		9	1	0909	Y		1056
5641	42	30		MCW		9	1	0910	M		1056
5642	42	31		C	ALL9,ALL91	9	7	0911	C W16 W19		1057
5643	42	32		BE	SNGL	9	5	0918	B 943 S		1057
5644	42	33	CLR	CS	0&X3	9	4	0923	/ 0?0		1057
5645	42	34		SBR	CLR&3	9	4	0927	H 926		1057
5646	42	35		C	CLR&3,ALL91	9	7	0931	C 926 W19		1057
5647	42	36		BU	CLR	9	5	0938	B 923 /		1057
5648	42	37	SNGL	MCW	ALL91,X2	9	7	0943	M W19 094		1057
5649	42	38	BACK3	C	X2,X1	9	7	0950	C 094 089		1058
5650	42	39		BE	OUT3	9	5	0957	B 981 S		1058
5651	42	40		LCA	BLANK,0&X2	9	7	0962	L X11 0!0		1058
5652	42	41		CW	0&X2	9	4	0969	) 0!0		1058
5653	42	42		SAR	X2	9	4	0973	Q 094		1058
5654	42	43		B	BACK3	9	4	0977	B 950		1058
5655	42	44	OUT3	MN	0&X1	9	4	0981	D 0|0		1058
5656	42	45		SAR	X1	9	4	0985	Q 089		1059
5657	42	46		FENDX	C,GM1,,,,,SYS1,ARITH ONE	9				MACRO	
5658				BSS	333,C	9	5	0989	B 333 C	GEN	1059
5659				SBR	TCLEAR,SYS1	9	7	0994	H 710 X58	GEN	1059
5660				LCA	@ARITH ONE@,110	9	7	1001	L W65 110	GEN	1059

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
5661				B	MONTER	9	4	1008	B 700	GEN	1059
5662	42	47	IOTYP	SW	CODE-2	9	4	1012	, W47		1059
5663	42	48		MCW	@<@, 2&X1	9	7	1016	M W66 0|2		1059
5664	42	49		SBR	KLOBR&6, 2&X1	9	7	1023	H T55 0|2		1060
5665	42	50		C	0&X1	9	4	1030	C 0|0		1060
5666	42	51		SAR	X1	9	4	1034	Q 089		1060
5667	42	52		LCA	CODE, 0&X3	9	7	1038	L W49 0?0		1060
5668	42	53		LCA	GM1	9	4	1045	L W27		1060
5669	42	54		SBR	X3	9	4	1049	H 099		1060
5670	42	55		CW	2&X3	9	4	1053	) 0?2		1060
5671	42	56		BWZ	NOFMT, CODE-1, B	9	8	1057	V U39 W48 B		1061
5672	42	57		FBCEQ	DOLST, CODE-3, 1, 3	9				MACRO	
5673				BCE	DOLST, CODE-3, 1	9	8	1065	B /16 W46 1	GEN	1061
5674				BCE	DOLST, CODE-3, 3	9	8	1073	B /16 W46 3	GEN	1061
5675	42	58		FBCEQ	DOSPC, CODE-3, L, P, U	9				MACRO	
5676				BCE	DOSPC, CODE-3, L	9	8	1081	B V32 W46 L	GEN	1061
5677				BCE	DOSPC, CODE-3, P	9	8	1089	B V32 W46 P	GEN	1062
5678				BCE	DOSPC, CODE-3, U	9	8	1097	B V32 W46 U	GEN	1062
5679	42	59		MCW	0&X1, SPEC	9	7	1105	M 0|0 W44		1062
5680	42	60		SAR	X1	9	4	1112	Q 089		1062
5681	42	61	DOLST	MCW	0&X1, TUNO	9	7	1116	M 0|0 W38		1062
5682	42	62		SAR	X1	9	4	1123	Q 089		1062
5683	42	63		MCW	0&X1, TUNO-3	9	7	1127	M 0|0 W35		1063
5684	42	64		BCE	ACTL, TUNO-4, }	9	8	1134	B T91 W34 }	GMARK	1063
5685	42	65		BCE	ACTL, TUNO-1, }	9	8	1142	B T91 W37 }	GMARK	1063
5686	42	66		MN	@1@, TAPE	9	7	1150	D W67 X10		1063
5687	42	67		BCE	OTHR2, TUNO-3, }	9	8	1157	B U28 W35 }	GMARK	1063
5688	42	68	XXX	MCW	0&X1, LIST	9	7	1165	M 0|0 W41		1064
5689	42	69		SAR	X1	9	4	1172	Q 089		1064
5690	42	70	RETRN	LCA	LIST, 0&X3	9	7	1176	L W41 0?0		1064
5691	42	71		SBR	X3	9	4	1183	H 099		1064
5692	42	72		LCA	SPEC, 0&X3	9	7	1187	L W44 0?0		1064
5693	42	73		SBR	X3	9	4	1194	H 099		1064
5694	42	74		LCA	TAPE, 0&X3	9	7	1198	L X10 0?0		1065
5695	42	75		LCA	BRANCH	9	4	1205	L W31		1065
5696	42	76		SBR	X3	9	4	1209	H 099		1065
5697	42	77		FBCEQ	TLGM, CODE-3, L, P, U, 1	9				MACRO	
5698				BCE	TLGM, CODE-3, L	9	8	1213	B S82 W46 L	GEN	1065
5699				BCE	TLGM, CODE-3, P	9	8	1221	B S82 W46 P	GEN	1065
5700				BCE	TLGM, CODE-3, U	9	8	1229	B S82 W46 U	GEN	1065
5701				BCE	TLGM, CODE-3, 1	9	8	1237	B S82 W46 1	GEN	1066
5702	42	78		MZ	@S@, 5&X3	9	7	1245	Y W68 0?5		1066
5703	42	79		BCE	TLGM, CODE-3, 3	9	8	1252	B S82 W46 3		1066
5704	42	80		MZ	@K@, 5&X3	9	7	1260	Y W69 0?5		1066
5705	42	81		BCE	TLGM, CODE-3, 5	9	8	1267	B S82 W46 5		1066
5706	42	82		MZ	@B@, 5&X3	9	7	1275	Y W70 0?5		1067
5707	42	83	TLGM	BW	LGM, XTPSW	9	8	1282	V T23 X57 1		1067
5708	42	84		BWZ	LGM, TUNO-1, 2	9	8	1290	V T23 W37 2		1067
5709	42	85		MCW	TUNO, MASK1-3	9	7	1298	M W38 W23		1067
5710	42	86		MZ	BLANK, MASK1-4	9	7	1305	Y X11 W22		1067

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
5711	42	87		LCA	MASK1,0&X3	9	7	1312	L W26 0?0		1068
5712	42	88		SBR	X3	9	4	1319	H 099		1068
5713	42	894	LGM	MCW	BLNK#3,TUNO-3	V3M4	9	7	1323	M W73 W35	1068
5714	42	904		LCA	GM1,0&X3	V3M4	9	7	1330	L W27 0?0	1068
5715	42	91		SBR	X3	9	4	1337	H 099		1068
5716	42	92		C	0&X1	9	4	1341	C 0|0		1068
5717	42	93		SAR	X1	9	4	1345	Q 089		1068
5718	42	94	KLOBR	BCE	START,0,<	9	8	1349	B 842 000 <		1069
5719	42	95		FQUIT		9				MACRO	
5720				CS	332	9	4	1357	/ 332	GEN	1069
5721				CS		9	1	1361	/	GEN	1069
5722				CC	1	9	2	1362	F 1	GEN	1069
5723				MCW	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@,270	9	7	1364	M X09 270	GEN	1069
5724				W		9	1	1371	2	GEN	1069
5725				CC	1	9	2	1372	F 1	GEN	1069
5726				BCE	*&6,MONTOR,1	9	8	1374	B T87 769 1	GEN	1070
5727				RWD	1	9	5	1382	U %U1 R	GEN	1070
5728				H	*-3	9	4	1387	. T87	GEN	1070
5729	42	96	ACTL	MN	TUNO,TAPE#1	9	7	1391	D W38 X10		1070
5730	42	97		SW	XTPSW	9	4	1398	, X57		1070
5731	42	98		BCE	OTHER,TUNO-1,}	9	8	1402	B U21 W37 }	GMARK	1070
5732	42	99		SBR	X1,2&X1	9	7	1410	H 089 0|2		1071
5733	43	00		B	XXX	9	4	1417	B /65		1071
5734	43	01	OTHER	SBR	X1,1&X1	9	7	1421	H 089 0|1		1071
5735	43	02	OTHR2	MCW	PERIOD,LIST	9	7	1428	M 154 W41		1071
5736	43	03		B	RETRN	9	4	1435	B /76		1071
5737	43	04	NOFMT	MZ	BLANK#1,3&X3	9	7	1439	Y X11 0?3		1071
5738	43	05		MCW	4&X3,ADR#3	9	7	1446	M 0?4 X14		1072
5739	43	06		BWZ	*&5,ADR,2	9	8	1453	V U65 X14 2		1072
5740	43	07		B	GTADR	9	4	1461	B U73		1072
5741	43	08		BWZ	ERR,ADR-2,2	9	8	1465	V U87 X12 2		1072
5742	43	09	GTADR	MCW	ADR,*&4	9	7	1473	M X14 U83		1072
5743	43	10		MCW	0,ADR	9	7	1480	M 000 X14		1073
5744	43	11	ERR	FTMSG	22,UNDEFINED FORMAT,ADR,18	9				MACRO	
5745			ERR	CS	332	9	4	1487	/ 332	GEN	1073
5746				CS		9	1	1491	/	GEN	1073
5747				SW	FAILSW	9	4	1492	, 184	GEN	1073
5748				MN	ADR,224&18	9	7	1496	D X14 242	GEN	1073
5749				MN		9	1	1503	D	GEN	1073
5750				MN		9	1	1504	D	GEN	1073
5751				MCW	@ERROR 22 - UNDEFINED FORMAT, STATEMENT @	9	4	1505	M X53	GEN	1074
5752				W		9	1	1509	2	GEN	1074
5753				BCV	*&5	9	5	1510	B V19 @	GEN	1074
5754				B	*&3	9	4	1515	B V21	GEN	1074
5755				CC	1	9	2	1519	F 1	GEN	1074
5756	43	12		MZ	*-4,CODE-1	9	7	1521	Y V23 W48		1074
5757	43	13		B	DOLST	9	4	1528	B /16		1074
5758	43	14	DOSPC	MCW	0&X1,SPEC	9	7	1532	M 0|0 W44		1075
5759	43	15		SAR	X1	9	4	1539	Q 089		1075
5760	43	16		MCW	PERIOD,LIST	9	7	1543	M 154 W41		1075

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
5761	43	17		BCE	HERE,0&X1,}	9	8	1550	B V69 0|0 }	GMARK	1075
5762	43	18		MCW	0&X1,LIST	9	7	1558	M 0|0 W41		1075
5763	43	19		SAR	X1	9	4	1565	Q 089		1075
5764	43	20	HERE	MCW	@&@,TAPE	9	7	1569	M X54 X10		1076
5765	43	21		BCE	SETP,CODE-3,L	9	8	1576	B W06 W46 L		1076
5766	43	22		MCW	@-@,TAPE	9	7	1584	M X55 X10		1076
5767	43	23		BCE	SETP,CODE-3,U	9	8	1591	B W06 W46 U		1076
5768	43	24		MCW	@*@,TAPE	9	7	1599	M X56 X10		1076
5769	43	25	SETP	SW	XTPSW#1	9	4	1606	, X57		1077
5770	43	26		B	RETRN	9	4	1610	B /76		1077
5771	43	27	ALL9	DCW	999	9	3	1616			1077
5772	43	28	ALL91	DCW	999	9	3	1619			1077
5773	43	29	MASK1	DCW	@DXXX0?5@	9	7	1626			1077
5774	43	30	GM1	DC	@}@	9	1	1627		GMARK	1077
5775	43	31	BRANCH	DCW	@BW97@	9	4	1631			1077
5776	43	32		DCW	#4	9	4	1635			1077
5777	43	33	TUNO	DCW	#3	9	3	1638			1078
5778	43	34	LIST	DCW	000	9	3	1641			1078
5779	43	35	SPEC	DCW	000	9	3	1644			1078
5780	43	36		LTORG	*	9			1645		
			CODE 9	DCW	#05	9	5	1649		AREA	1078
				DCW	@1356LPU@	9	7	1656		LIT	1078
				DCW	@ARITH ONE@	9	9	1665		LIT	1078
				DCW	@<@	9	1	1666		LIT	1078
				DCW	@1@	9	1	1667		LIT	1079
				DCW	@S@	9	1	1668		LIT	1079
				DCW	@K@	9	1	1669		LIT	1079
				DCW	@B@	9	1	1670		LIT	1079
			BLNK 9	DCW	#03	9	3	1673		AREA	1079
				DCW	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@	9	36	1709		LIT	1080
			TAPE 9	DCW	#01	9	1	1710		AREA	1080
			BLANK9	DCW	#01	9	1	1711		AREA	1080
			ADR 9	DCW	#03	9	3	1714		AREA	1081
				DCW	@ERROR 22 - UNDEFINED FORMAT, STATEMENT @	9	39	1753		LIT	1082
				DCW	@&@	9	1	1754		LIT	1083
				DCW	@-@	9	1	1755		LIT	1083
				DCW	@*@	9	1	1756		LIT	1083
			XTPSW9	DCW	#01	9	1	1757		AREA	1083
5781	43	37	SYS1	DCW	@}@	9	1	1758		GMARK	1083
5782	43	38		XFR	BEGIN	9			B 838		1084

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
5783	43	39		JOB	ARITH PHASE ONE	9					
5784	43	40		FBEGN	ARITH 1, X1,,X2,R,X3,,< 12-6-8 SUFFIX	9				MACRO	
5785				SFX	<	<				GEN	
5786		110		DCW	@ARITH 1@	<	7	0110		GEN	1087
5787			X1	EQU	089	<		0089		GEN	
5788			X2	EQU	094	<		0094		GEN	
5789		094		DCW	000	<	3	0094		GEN	1088
5790		096		DC	00	<	2	0096		GEN	1088
5791			X3	EQU	099	<		0099		GEN	
5792	43	41		ORG	XBEGIN	<			0838		
5793	43	42	*								
5794	43	43	*		ARITH PHASE ONE ERROR CHECKING ALGORITHM						
5795	43	44	*								
5796	43	45	*		PREVIOUS CHARACTER						
5797	43	46	*								
5798	43	47	*		OPND &*/. - GM F% # %) NEG						
5799	43	48	*								
5800	43	49	*		& OK DD DD LS KL KL KL OK DD						
5801	43	50	*	C	- OK DD DD LS NG NG NG OK DD						
5802	43	51	*	C H	*/ OK DD DD LS SY SY SY OK DD						
5803	43	52	*	U A	# OK A2 A2 LS A2 A2 A2 A2 A2						
5804	43	53	*	R R	% SY OK OK LS OK OK OK SY OK						
5805	43	54	*	R A	) OK SY SY LS A2 SY A2 OK SY						
5806	43	55	*	E C	GM OK SY SY LS A2 SY SY OK SY						
5807	43	56	*	N T	. OK DD DD LS SY SY SY OK DD						
5808	43	57	*	T E	NEG -- -- LS OK OK OK -- DD						
5809	43	58	*	R	F% SY OK OK LS OK OK OK SY OK						
5810	43	59	*		OPRND -- OK OK LS OK OK OK SY OK						
5811	43	60	*								
5812	43	61	*	OK-	VALID						
5813	43	62	*	DD-	DOUBLE OPERATORS						
5814	43	63	*	SY-	SYNTAX ERROR						
5815	43	64	*	A2-	ERROR NOTED IN ARITH PHASE TWO						
5816	43	65	*	LS-	LEFT SIDE INVALID						
5817	43	66	*	NG-	GENERATE NEGATE FUNCTION						
5818	43	67	*	---	SYNTACTICALLY INADMISSIBLE						
5819	43	68	*	KL-	DELETE UNARY PLUS OPERATOR						
5820	43	69	*								
5821	43	70	*								
5822	43	71	START	SBR	NOMO,2&X3	<	7	0838	H M53 0?2		1089
5823	43	72		SW	GM1	<	4	0845	, J60		1089
5824	43	73		MCW	0&X1, CODE	<	7	0849	M 0|0 M47		1089
5825	43	744		FBCEQ	NUSTM, CODE-3, R, E	V3M4 <				MACRO	
5826				BCE	NUSTM, CODE-3, R	<	8	0856	B 883 M44 R	GEN	1089
5827				BCE	NUSTM, CODE-3, E	<	8	0864	B 883 M44 E	GEN	1089
5828	43	75		MCW	@.,X2	<	7	0872	M M43 094		1090
5829	43	76		B	FENDX	<	4	0879	B 920		1090
5830	43	77	NUSTM	MCW	0&X1, CODE#4	<	7	0883	M 0|0 M47		1090
5831	43	78		SBR	KILL#3, 0&X3	<	7	0890	H M50 0?0		1090
5832	43	79		FBCEQ	DOCOD, CODE-3, R, E	<				MACRO	

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
5833				BCE	DOCOD, CODE-3, R	<	8	0897	B 943 M44 R	GEN	1090
5834				BCE	DOCOD, CODE-3, E	<	8	0905	B 943 M44 E	GEN	1091
5835	43	80		MCW	NOMO#3,X2	<	7	0913	M M53 094		1091
5836	43	81	FENDX	FENDX	C,,,,,SYSGM,ARITH TWO	<				MACRO	
5837			FENDX	BSS	333,C	<	5	0920	B 333 C	GEN	1091
5838				SBR	TCLEAR,SYSGM	<	7	0925	H 710 P68	GEN	1091
5839				LCA	@ARITH TWO@,110	<	7	0932	L M62 110	GEN	1091
5840				B	MONTER	<	4	0939	B 700	GEN	1091
5841	43	82	DOCOD	MVDWN	X1,X3	<				MACRO	
5842			DOCOD	LCA	0&X1,0&X3	<	7	0943	L 0|0 0?0	GEN	1092
5843				SAR	X1	<	4	0950	Q 089	GEN	1092
5844				C	0&X3	<	4	0954	C 0?0	GEN	1092
5845				SAR	X3	<	4	0958	Q 099	GEN	1092
5846	43	83		BWZ	*&5, CODE,2	<	8	0962	V 974 M47 2		1092
5847	43	84		B	INDIR	<	4	0970	B 982		1092
5848	43	85		BWZ	MAIN,CODE-2,2	<	8	0974	V 998 M45 2		1092
5849	43	86	INDIR	MCW	CODE,X2	<	7	0982	M M47 094		1093
5850	43	87		MN	0&X2,CODE	<	7	0989	D 0!0 M47		1093
5851	43	88		MN		<	1	0996	D		1093
5852	43	89		MN		<	1	0997	D		1093
5853	43	90	MAIN	C	0&X1	<	4	0998	C 0|0		1093
5854	43	91		SAR	NEXT#3	<	4	1002	Q M65		1093
5855	43	92		BCE	ARTYP,CODE-3,R	<	8	1006	B |85 M44 R		1093
5856	43	93		C	0&X1,BLK10#10	<	7	1014	C 0|0 M75		1094
5857	43	94		SAR	X1	<	4	1021	Q 089		1094
5858	43	95		SW	1&X1	<	4	1025	, 0|1		1094
5859	43	96		LCA	10&X1,0&X3	<	7	1029	L 0/0 0?0		1094
5860	43	97		SAR	X1	<	4	1036	Q 089		1094
5861	43	98		C	0&X3	<	4	1040	C 0?0		1094
5862	43	99		SAR	X3	<	4	1044	Q 099		1094
5863	44	00		CW	1&X1,1&X3	<	7	1048	) 0|1 0?1		1095
5864	44	01		LCA	GM1	<	4	1055	L J60		1095
5865	44	02		LCA	@#<99@	<	4	1059	L M79		1095
5866	44	03		SBR	X3	<	4	1063	H 099		1095
5867	44	04		CW	1&X3,5&X3	<	7	1067	) 0?1 0?5		1095
5868	44	05		SBR	LAST,0&X1	<	7	1074	H M82 0|0		1095
5869	44	06		B	LOOP3	<	4	1081	B /43		1095
5870	44	07	ARTYP	SBR	X2,1&X1	<	7	1085	H 094 0|1		1096
5871	44	08		BCE	CDINT,0&X1,#	<	8	1092	B !01 0|0 #		1096
5872	44	09		SBR	LAST#3,0&X1	<	7	1100	H M82 0|0		1096
5873	44	10	EQSCN	BCE	GOTEQ,0&X1,#	<	8	1107	B /31 0|0 #		1096
5874	44	11		BCE	CDINT,0&X1,}	<	8	1115	B !01 0|0 }	GMARK	1096
5875	44	12		SBR	X1	<	4	1123	H 089		1097
5876	44	13		B	EQSCN	<	4	1127	B /07		1097
5877	44	14	GOTEQ	B	MESUR	<	4	1131	B !53		1097
5878	44	15	LOOP1	MN	0&X1	<	4	1135	D 0|0		1097
5879	44	16		SAR	X1	<	4	1139	Q 089		1097
5880	44	17	LOOP3	SBR	X2,1&X1	<	7	1143	H 094 0|1		1097
5881	44	18		SBR	FUNBX#3	<	4	1150	H M85		1097
5882	44	19	LOOP2	MN	0&X1,TST1&7	<	7	1154	D 0|0 /79		1098

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
5883	44	20		MZ	0&X1,TST1&7	<	7	1161	Y 0|0 /79		1098
5884	44	21		SAR	X1	<	4	1168	Q 089		1098
5885	44	22	TST1	BCE	GOTOP,@&-@*#%) }@,0	<	8	1172	B /91 M93 0		1098
5886	44	23		CHAIN	7	<				MACRO	
5887				BCE		<	1	1180	B	GEN	1098
5888				BCE		<	1	1181	B	GEN	1098
5889				BCE		<	1	1182	B	GEN	1098
5890				BCE		<	1	1183	B	GEN	1099
5891				BCE		<	1	1184	B	GEN	1099
5892				BCE		<	1	1185	B	GEN	1099
5893				BCE		<	1	1186	B	GEN	1099
5894	44	24		B	LOOP2	<	4	1187	B /54		1099
5895	44	25	GOTOP	SBR	X1,1&X1	<	7	1191	H 089 0|1		1099
5896	44	26		BCE	CKNG,0&X1,-	<	8	1198	B V98 0|0 -		1099
5897	44	27		BCE	CKFUN,0&X1,%	<	8	1206	B W41 0|0 %		1100
5898	44	28		BCE	CKXP,0&X1,*	<	8	1214	B U31 0|0 *		1100
5899	44	29		BCE	PLUS,0&X1,&	<	8	1222	B V44 0|0 &		1100
5900	44	30		BCE	DIV,0&X1,@	<	8	1230	B U46 0|0 @		1100
5901	44	31		BCE	LOOP1,0&X1,#	<	8	1238	B /35 0|0 #		1101
5902	44	32		BCE	CLOSE,0&X1,)	<	8	1246	B T39 0|0)		1101
5903	44	33		MN	1&X1,CKGM&7	<	7	1254	D 0|1 S75		1101
5904	44	34		MZ	1&X1,CKGM&7	<	7	1261	Y 0|1 S75		1101
5905	44	35	CKGM	BCE	SYNER,@&-*@.#,@,0	<	8	1268	B J22 N00 0		1101
5906	44	36		CHAIN	6	<				MACRO	
5907				BCE		<	1	1276	B	GEN	1101
5908				BCE		<	1	1277	B	GEN	1102
5909				BCE		<	1	1278	B	GEN	1102
5910				BCE		<	1	1279	B	GEN	1102
5911				BCE		<	1	1280	B	GEN	1102
5912				BCE		<	1	1281	B	GEN	1102
5913	44	37		BCE	EOSTM,1&X1,	<	8	1282	B T10 0|1		1102
5914	44	38		BCE	EOSTM,1&X1,%	<	8	1290	B T10 0|1 %		1102
5915	44	39		BCE	EOSTM,1&X1,)	<	8	1298	B T10 0|1)		1103
5916	44	40		B	MESUR	<	4	1306	B !53		1103
5917	44	41	EOSTM	MCW	LAST,X2	<	7	1310	M M82 094		1103
5918	44	42		LCA	0&X2,0&X3	<	7	1317	L 0!0 0?0		1103
5919	44	43		SBR	X3	<	4	1324	H 099		1103
5920	44	44		MCW	NEXT,X1	<	7	1328	M M65 089		1103
5921	44	45		B	NUSTM	<	4	1335	B 883		1104
5922	44	46	CLOSE	MLC	0&X1,BOX#2	<	7	1339	M 0|0 N02		1104
5923	44	47		MLC	BOX-1,*&8	<	7	1346	M N01 T60		1104
5924	44	48		BCE	CLZOK,@&*@-) }@,0	<	8	1353	B T78 N08 0		1104
5925	44	49		CHAIN	5	<				MACRO	
5926				BCE		<	1	1361	B	GEN	1104
5927				BCE		<	1	1362	B	GEN	1104
5928				BCE		<	1	1363	B	GEN	1104
5929				BCE		<	1	1364	B	GEN	1105
5930				BCE		<	1	1365	B	GEN	1105
5931	44	50		BCE	CLZOK,BOX-1,#	<	8	1366	B T78 N01 #		1105
5932	44	51		B	SYNER	<	4	1374	B J22		1105

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
5933	44	52	CLZOK	MN	1&X1,CLSCK&7	<	7	1378	D 0|1 T99		1105
5934	44	53		MZ	1&X1,CLSCK&7	<	7	1385	Y 0|1 T99		1105
5935	44	54	CLSCK	BCE	SYNER,@&-*. @ %, @, 0	<	8	1392	B J22 N16 0		1105
5936	44	55		CHAIN	7	<				MACRO	
5937				BCE		<	1	1400	B	GEN	1106
5938				BCE		<	1	1401	B	GEN	1106
5939				BCE		<	1	1402	B	GEN	1106
5940				BCE		<	1	1403	B	GEN	1106
5941				BCE		<	1	1404	B	GEN	1106
5942				BCE		<	1	1405	B	GEN	1106
5943				BCE		<	1	1406	B	GEN	1106
5944	44	56		BCE	LOOP1,1&X1,#	<	8	1407	B /35 0|1 #		1107
5945	44	57		BCE	LOOP1,1&X1,)	<	8	1415	B /35 0|1)		1107
5946	44	58		B	MESUR	<	4	1423	B !53		1107
5947	44	59		B	LOOP1	<	4	1427	B /35		1107
5948	44	60	CKXP	MCW	0&X1,BOX2#2	<	7	1431	M 0|0 N18		1107
5949	44	61		BCE	ISXP,BOX2-1,*	<	8	1438	B V13 N17 *		1107
5950	44	62	DIV	FBCEQ	SYNER,1&X1,#,%	<				MACRO	
5951			DIV	BCE	SYNER, 1&X1, #	<	8	1446	B J22 0|1 #	GEN	1108
5952				BCE	SYNER, 1&X1, %	<	8	1454	B J22 0|1 %	GEN	1108
5953	44	63		BCE	SYNER,1&X1,	<	8	1462	B J22 0|1		1108
5954	44	64	DIV2	MN	1&X1,DIVCK&7	<	7	1470	D 0|1 U91		1108
5955	44	65		MZ	1&X1,DIVCK&7	<	7	1477	Y 0|1 U91		1108
5956	44	66	DIVCK	BCE	DBLOP,@&-@*., @, 0	<	8	1484	B J61 N24 0		1109
5957	44	67		CHAIN	5	<				MACRO	
5958				BCE		<	1	1492	B	GEN	1109
5959				BCE		<	1	1493	B	GEN	1109
5960				BCE		<	1	1494	B	GEN	1109
5961				BCE		<	1	1495	B	GEN	1109
5962				BCE		<	1	1496	B	GEN	1109
5963	44	68		BCE	LOOP1,1&X1,)	<	8	1497	B /35 0|1)		1109
5964	44	69		B	MESUR	<	4	1505	B !53		1110
5965	44	70		B	LOOP1	<	4	1509	B /35		1110
5966	44	71	ISXP	MN	0&X1	<	4	1513	D 0|0		1110
5967	44	72		MN		<	1	1517	D		1110
5968	44	73		SAR	X1	<	4	1518	Q 089		1110
5969	44	74		MCW	@. @, 2&X1	<	7	1522	M M43 0|2		1110
5970	44	75		LCA	0&X1	<	4	1529	L 0|0		1110
5971	44	76		SBR	X1, 2&X1	<	7	1533	H 089 0|2		1111
5972	44	77		B	DIV	<	4	1540	B U46		1111
5973	44	78	PLUS	FBCEQ	SQUOZ,1&X1,#,%	<				MACRO	
5974			PLUS	BCE	SQUOZ, 1&X1, #	<	8	1544	B V72 0|1 #	GEN	1111
5975				BCE	SQUOZ, 1&X1, %	<	8	1552	B V72 0|1 %	GEN	1111
5976	44	79		BCE	SQUOZ,1&X1,	<	8	1560	B V72 0|1		1111
5977	44	80		B	DIV2	<	4	1568	B U70		1111
5978	44	81	SQUOZ	MN	0&X1	<	4	1572	D 0|0		1112
5979	44	82		SAR	X1	<	4	1576	Q 089		1112
5980	44	83		LCA	0&X1,1&X1	<	7	1580	L 0|0 0|1		1112
5981	44	84		SBR	X1,1&X1	<	7	1587	H 089 0|1		1112
5982	44	85		B	LOOP3	<	4	1594	B /43		1112

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
5983	44	86	CKNG	FBCEQ	NEGAT,1&X1,#,%	<				MACRO	
5984			CKNG	BCE	NEGAT, 1&X1, #	<	8	1598	B W26 0|1 #	GEN	1112
5985				BCE	NEGAT, 1&X1, %	<	8	1606	B W26 0|1 %	GEN	1113
5986	44	87		BCE	NEGAT,1&X1,	<	8	1614	B W26 0|1		1113
5987	44	88		B	DIV2	<	4	1622	B U70		1113
5988	44	89	NEGAT	MCW	@@,0&X1	<	7	1626	M N25 0|0		1113
5989	44	90		CW	XNEGTF	<	4	1633	) 123		1113
5990	44	91		B	LOOP1	<	4	1637	B /35		1113
5991	44	92	CKFUN	BCE	ISFUN,1&X1,F	<	8	1641	B W83 0|1 F		1114
5992	44	93		MN	1&X1,OPNCK&7	<	7	1649	D 0|1 W70		1114
5993	44	94		MZ	1&X1,OPNCK&7	<	7	1656	Y 0|1 W70		1114
5994	44	95	OPNCK	BCE	LOOP1,@&-*@ #%,. @,0	<	8	1663	B /35 N34 0		1114
5995	44	96		CHAIN	8	<				MACRO	
5996				BCE		<	1	1671	B	GEN	1114
5997				BCE		<	1	1672	B	GEN	1114
5998				BCE		<	1	1673	B	GEN	1114
5999				BCE		<	1	1674	B	GEN	1115
6000				BCE		<	1	1675	B	GEN	1115
6001				BCE		<	1	1676	B	GEN	1115
6002				BCE		<	1	1677	B	GEN	1115
6003				BCE		<	1	1678	B	GEN	1115
6004	44	97		B	SYNER	<	4	1679	B J22		1115
6005	44	98	ISFUN	MCW	X2,HEX2#3	<	7	1683	M 094 N37		1115
6006	44	99		MCW	FUNBX,X2	<	7	1690	M M85 094		1116
6007	45	00		MN	0&X2	<	4	1697	D 0!0		1116
6008	45	01		SAR	X2	<	4	1701	Q 094		1116
6009	45	02		SW	0&X1	<	4	1705	, 0|0		1116
6010	45	03		SBR	FUNBX,2&X1	<	7	1709	H M85 0|2		1116
6011	45	04		C	FUNBX,X2	<	7	1716	C M85 094		1116
6012	45	05		BE	SYNER	<	5	1723	B J22 S		1116
6013	45	06		SBR	FUNBX,3&X1	<	7	1728	H M85 0|3		1117
6014	45	07		C	FUNBX,X2	<	7	1735	C M85 094		1117
6015	45	08		BE	SYNER	<	5	1742	B J22 S		1117
6016	45	09		MCW	X3,HEX3#3	<	7	1747	M 099 N40		1117
6017	45	10		MCW	X1,HEX1#3	<	7	1754	M 089 N43		1117
6018	45	11		SBR	X1,XSINFU	<	7	1761	H 089 118		1118
6019	45	12		SBR	X3,FTBL1-1	<	7	1768	H 099 M41		1118
6020	45	13	FSCAN	BCE	NOFUN,0&X3,*	<	8	1775	B Y18 0?0 *		1118
6021	45	14		SBR	X3	<	4	1783	H 099		1118
6022	45	15		C	0&X3,0&X2	<	7	1787	C 0?0 0!0		1118
6023	45	16		BE	GOTFN	<	5	1794	B Y83 S		1118
6024	45	17		C	0&X3	<	4	1799	C 0?0		1119
6025	45	18		SAR	X3	<	4	1803	Q 099		1119
6026	45	19		SBR	X1,1&X1	<	7	1807	H 089 0|1		1119
6027	45	20		B	FSCAN	<	4	1814	B X75		1119
6028	45	21	NOFUN	FTMSG	29,UNDEFINED FUNCTION NAME,CODE,25	<				MACRO	
6029			NOFUN	CS	332	<	4	1818	/ 332	GEN	1119
6030				CS		<	1	1822	/	GEN	1119
6031				SW	FAILSW	<	4	1823	, 184	GEN	1119
6032				MN	CODE,224&25	<	7	1827	D M47 249	GEN	1120

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
6033				MN		<	1	1834	D	GEN	1120
6034				MN		<	1	1835	D	GEN	1120
6035				MCW	@ERROR 29 - UNDEFINED FUNCTION NAME, STATEMENT @	<	4	1836	M N89	GEN	1120
6036				W		<	1	1840	2	GEN	1120
6037				BCV	*&5	<	5	1841	B Y50 @	GEN	1120
6038				B	*&3	<	4	1846	B Y52	GEN	1120
6039				CC	1	<	2	1850	F 1	GEN	1121
6040	45	22		B	ZONCH	<	4	1852	B !35		1121
6041	45	23	COMFN	CW	XCOMF1	<	4	1856	) 117		1121
6042	45	24		B	MOV	<	4	1860	B Z26		1121
6043	45	25	COSIN	CW	XSINFU	<	4	1864	) 118		1121
6044	45	26		B	COMFN	<	4	1868	B Y56		1121
6045	45	27	ABSVL	CW	XABSVL,XNEGTF	<	7	1872	) 122 123		1121
6046	45	28		B	MOV	<	4	1879	B Z26		1122
6047	45	29	GOTFN	SW	1&X3	<	4	1883	, 0?1		1122
6048	45	30		BCE	COSIN,1&X3,C	<	8	1887	B Y64 0?1 C		1122
6049	45	31		BCE	ABSVL,1&X3,A	<	8	1895	B Y72 0?1 A		1122
6050	45	32		CW	0&X1	<	4	1903	) 0|0		1122
6051	45	33		MCW	1&X3,*&8	<	7	1907	M 0?1 Z21		1122
6052	45	34		BCE	COMFN,@SGECT@,0	<	8	1914	B Y56 N94 0		1123
6053	45	35		CHAIN	4	<				MACRO	
6054				BCE		<	1	1922	B	GEN	1123
6055				BCE		<	1	1923	B	GEN	1123
6056				BCE		<	1	1924	B	GEN	1123
6057				BCE		<	1	1925	B	GEN	1123
6058	45	36	MOV	BCE	KEEPX,0&X2,X	<	8	1926	B Z89 0!0 X		1123
6059	45	37		MCW	1&X3,0&X2	<	7	1934	M 0?1 0!0		1123
6060	45	38		MCW	BLNK1#1	<	4	1941	M N95		1124
6061	45	39		SBR	X2	<	4	1945	H 094		1124
6062	45	40		MCW	HEX3,X3	<	7	1949	M N40 099		1124
6063	45	41		MCW	HEX1,X1	<	7	1956	M N43 089		1124
6064	45	42		CW	0&X1	<	4	1963	) 0|0		1124
6065	45	43		SAR	X1	<	4	1967	Q 089		1124
6066	45	44		LCA	0&X1,0&X2	<	7	1971	L 0|0 0!0		1124
6067	45	45		SBR	X1,0&X2	<	7	1978	H 089 0!0		1125
6068	45	46		B	LOOP3	<	4	1985	B /43		1125
6069	45	47	KEEPX	MN	0&X2	<	4	1989	D 0!0		1125
6070	45	48		SAR	X2	<	4	1993	Q 094		1125
6071	45	49		B	MOV&8	<	4	1997	B Z34		1125
6072	45	50	CDINT	FTMSG	23,CODING UNINTELLIGIBLE, CODE, 23	<				MACRO	
6073			CDINT	CS	332	<	4	2001	/ 332	GEN	1125
6074				CS		<	1	2005	/	GEN	1125
6075				SW	FAILSW	<	4	2006	, 184	GEN	1126
6076				MN	CODE,224&23	<	7	2010	D M47 247	GEN	1126
6077				MN		<	1	2017	D	GEN	1126
6078				MN		<	1	2018	D	GEN	1126
6079				MCW	@ERROR 23 - CODING UNINTELLIGIBLE, STATEMENT @	<	4	2019	M 039	GEN	1126
6080				W		<	1	2023	2	GEN	1126
6081				BCV	*&5	<	5	2024	B !33 @	GEN	1126
6082				B	*&3	<	4	2029	B !35	GEN	1127

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
6083				CC	1	<	2	2033	F 1	GEN	1127
6084	45	51	ZONCH	MCW	KILL,X3	<	7	2035	M M50 099		1127
6085	45	52		MCW	NEXT,X1	<	7	2042	M M65 089		1127
6086	45	53		B	NUSTM	<	4	2049	B 883		1127
6087	45	54	MESUR	SBR	MESXT&3	<	4	2053	H !82		1127
6088	45	55		BCE	SUBSC,1&X1,\$	<	8	2057	B J99 0|1 \$		1127
6089	45	56		SBR	MESBX#3,4&X1	<	7	2065	H O42 0|4		1128
6090	45	57	MESCM	C	MESBX,X2	<	7	2072	C O42 094		1128
6091	45	58	MESXT	BE	0	<	5	2079	B 000 S		1128
6092	45	59		FTMSG	25,LEFT SIDE INVALID,CODE,19	<				MACRO	
6093				CS	332	<	4	2084	/ 332	GEN	1128
6094				CS		<	1	2088	/	GEN	1128
6095				SW	FAILSW	<	4	2089	, 184	GEN	1128
6096				MN	CODE,224&19	<	7	2093	D M47 243	GEN	1128
6097				MN		<	1	2100	D	GEN	1129
6098				MN		<	1	2101	D	GEN	1129
6099				MCW	@ERROR 25 - LEFT SIDE INVALID, STATEMENT @	<	4	2102	M O82	GEN	1129
6100				W		<	1	2106	2	GEN	1129
6101				BCV	*&5	<	5	2107	B J16 @	GEN	1129
6102				B	*&3	<	4	2112	B J18	GEN	1129
6103				CC	1	<	2	2116	F 1	GEN	1129
6104	45	60		B	ZONCH	<	4	2118	B !35		1130
6105	45	61	SYNER	FTMSG	27,ARITHMETIC SYNTAX ERROR,CODE,25	<				MACRO	
6106			SYNER	CS	332	<	4	2122	/ 332	GEN	1130
6107				CS		<	1	2126	/	GEN	1130
6108				SW	FAILSW	<	4	2127	, 184	GEN	1130
6109				MN	CODE,224&25	<	7	2131	D M47 249	GEN	1130
6110				MN		<	1	2138	D	GEN	1130
6111				MN		<	1	2139	D	GEN	1130
6112				MCW	@ERROR 27 - ARITHMETIC SYNTAX ERROR, STATEMENT @	<	4	2140	M P28	GEN	1131
6113				W		<	1	2144	2	GEN	1131
6114				BCV	*&5	<	5	2145	B J54 @	GEN	1131
6115				B	*&3	<	4	2150	B J56	GEN	1131
6116				CC	1	<	2	2154	F 1	GEN	1131
6117	45	62		B	ZONCH	<	4	2156	B !35		1131
6118	45	63	GM1	DC	@}@ G-M	<	1	2160		GMARK	1131
6119	45	64	DBLOP	FTMSG	31,DOUBLE OPERATORS,CODE,18	<				MACRO	
6120			DBLOP	CS	332	<	4	2161	/ 332	GEN	1131
6121				CS		<	1	2165	/	GEN	1132
6122				SW	FAILSW	<	4	2166	, 184	GEN	1132
6123				MN	CODE,224&18	<	7	2170	D M47 242	GEN	1132
6124				MN		<	1	2177	D	GEN	1132
6125				MN		<	1	2178	D	GEN	1132
6126				MCW	@ERROR 31 - DOUBLE OPERATORS, STATEMENT @	<	4	2179	M P67	GEN	1132
6127				W		<	1	2183	2	GEN	1132
6128				BCV	*&5	<	5	2184	B J93 @	GEN	1133
6129				B	*&3	<	4	2189	B J95	GEN	1133
6130				CC	1	<	2	2193	F 1	GEN	1133
6131	45	65		B	ZONCH	<	4	2195	B !35		1133
6132	45	66	SUBSC	SBR	MESBX,12&X1	<	7	2199	H O42 0/2		1133

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
6133	45	67		BCE	MESCM,11&X1,\$	<	8	2206	B !72 0/1 \$		1133
6134	45	68		SBR	MESBX,18&X1	<	7	2214	H 042 0/8		1133
6135	45	69		B	MESCM	<	4	2221	B !72		1134
6136	45	70	*								
6137	45	71	*		TABLE OF FORTRAN FUNCTIONS						
6138	45	72	*								
6139	45	73		DCW	@*@ SIGNALS END OF TABLE	<	1	2225			1134
6140	45	74	*								
6141	45	75		DCW	@ %FSOCC@	<	9	2234			1134
6142	45	76		DCW	@ %FSBAXA@	<	9	2243			1134
6143	45	77		DCW	@ %FKNILXI@	<	9	2252			1134
6144	45	78	*		USER FUNCTIONS						
6145	45	79		DCW	@ H@ USER FN 12	<	9	2261			1135
6146	45	80		DCW	@ D@ USER FN 11	<	9	2270			1135
6147	45	81		DCW	@ M@ USER FN 10	<	9	2279			1135
6148	45	82		DCW	@ L@ USER FN 9	<	9	2288			1135
6149	45	83		DCW	@ K@ USER FN 8	<	9	2297			1136
6150	45	84		DCW	@ J@ USER FN 7	<	9	2306			1136
6151	45	85		DCW	@ Z@ USER FN 6	<	9	2315			1136
6152	45	86		DCW	@ Y@ USER FN 5	<	9	2324			1136
6153	45	87		DCW	@ W@ USER FN 4	<	9	2333			1137
6154	45	88		DCW	@ P@ USER FN 3	<	9	2342			1137
6155	45	89		DCW	@ U@ USER FN 2	<	9	2351			1137
6156	45	90		DCW	@ R@ USER FN 1	<	9	2360			1137
6157	45	91		DCW	@ %FTRQSQ@	<	9	2369			1138
6158	45	92		DCW	@ %FTAOLFF@	<	9	2378			1138
6159	45	93		DCW	@ %FXIFXX@	<	9	2387			1138
6160	45	94		DCW	#9	<	9	2396			1138
6161	45	95		DCW	@ %FSBAA@	<	9	2405			1139
6162	45	96		DCW	@ %FNATAT@	<	9	2414			1139
6163	45	97		DCW	@ %FPXEE@	<	9	2423			1139
6164	45	98		DCW	@ %FGOLG@	<	9	2432			1139
6165	45	99		DCW	@ %FNISS@	<	9	2441			1140
6166	46	00	FTBL1	DCW	#1	<	1	2442			1140
6167	46	01		LTORG	*	<			2443		
				DCW	@.@	<	1	2443		LIT	1140
			CODE <	DCW	#04	<	4	2447		AREA	1140
			KILL <	DCW	#03	<	3	2450		AREA	1140
			NOMO <	DCW	#03	<	3	2453		AREA	1140
				DCW	@ARITH TWO@	<	9	2462		LIT	1140
			NEXT <	DCW	#03	<	3	2465		AREA	1141
			BLK10<	DCW	#10	<	10	2475		AREA	1141
				DCW	@#<99@	<	4	2479		LIT	1141
			LAST <	DCW	#03	<	3	2482		AREA	1141
			FUNBX<	DCW	#03	<	3	2485		AREA	1141
				DCW	@&-@*#%)}@	<	8	2493		LIT	1141
				DCW	@&-*@.#,@	<	7	2500		LIT	1141
			BOX <	DCW	#02	<	2	2502		AREA	1142
				DCW	@&*@-})@	<	6	2508		LIT	1142
				DCW	@&-*.@ %,@	<	8	2516		LIT	1142

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
			BOX2	<	DCW #02	<	2	2518		AREA	1142
					DCW @&-@*.,@	<	6	2524		LIT	1142
					DCW @,@	<	1	2525		LIT	1142
					DCW @&-*@ #%,.@	<	9	2534		LIT	1142
			HEX2	<	DCW #03	<	3	2537		AREA	1143
			HEX3	<	DCW #03	<	3	2540		AREA	1143
			HEX1	<	DCW #03	<	3	2543		AREA	1143
					DCW @ERROR 29 - UNDEFINED FUNCTION NAME, STATEMENT @	<	46	2589		LIT	1145
					DCW @SGECT@	<	5	2594		LIT	1145
			BLNK1	<	DCW #01	<	1	2595		AREA	1145
					DCW @ERROR 23 - CODING UNINTELLIGIBLE, STATEMENT @	<	44	2639		LIT	1147
			MESBX	<	DCW #03	<	3	2642		AREA	1147
					DCW @ERROR 25 - LEFT SIDE INVALID, STATEMENT @	<	40	2682		LIT	1149
					DCW @ERROR 27 - ARITHMETIC SYNTAX ERROR, STATEMENT @	<	46	2728		LIT	1151
					DCW @ERROR 31 - DOUBLE OPERATORS, STATEMENT @	<	39	2767		LIT	1152
6168	46	02	SYSGM		DCW @}@	<	1	2768		GMARK	1153
6169	46	03			XFR START	<			B 838		1154

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
6170	46	04		JOB	ARITH PHASE TWO	<					
6171	46	05		FBEGN	ARITH 2,X1,,X2,,X3,,0	<				MACRO	
6172				SFX	0	0				GEN	
6173			110	DCW	@ARITH 2@	0	7	0110		GEN	1157
6174			X1	EQU	089	0		0089		GEN	
6175			X2	EQU	094	0		0094		GEN	
6176			X3	EQU	099	0		0099		GEN	
6177	46	06		ORG	XBEGIN	0			0838		
6178	46	07	INITL	BCE	OUT,X2,,	0	8	0838	B N47 094 .		1158
6179	46	08		SW	GM	0	4	0846	, N73		1158
6180	46	09		MCW	X2,NOMO#3	0	7	0850	M 094 P45		1158
6181	46	10		SBR	X3,2&X3	0	7	0857	H 099 0?2		1158
6182	46	11		SBR	X1,2&X1	0	7	0864	H 089 0|2		1158
6183	46	12		MCW	X1,X2	0	7	0871	M 089 094		1159
6184	46	13	CLR1	MN	X2,TAIL#2	0	7	0878	D 094 P47		1159
6185	46	14		MN		0	1	0885	D		1159
6186	46	15		C	TAIL,@00@	0	7	0886	C P47 P49		1159
6187	46	16		BE	STO	0	5	0893	B 913 S		1159
6188	46	17		CW	0&X2	0	4	0898	) 0!0		1159
6189	46	18		SBR	X2,1&X2	0	7	0902	H 094 0!1		1159
6190	46	19		B	CLR1	0	4	0909	B 878		1160
6191	46	20	STO	MN	0&X2	0	4	0913	D 0!0		1160
6192	46	21		SAR	LAST#3	0	4	0917	Q P52		1160
6193	46	22		MN	0&X3	0	4	0921	D 0?0		1160
6194	46	23		SAR	X2	0	4	0925	Q 094		1160
6195	46	24	CLR2	C	X2, LAST	0	7	0929	C 094 P52		1160
6196	46	25		BE	MVUP	0	5	0936	B 953 S		1160
6197	46	26		CS	0&X2	0	4	0941	/ 0!0		1161
6198	46	27		SBR	X2	0	4	0945	H 094		1161
6199	46	28		B	CLR2	0	4	0949	B 929		1161
6200	46	29	MVUP	MOVUP	X3,X1,NOMO,ALL,|	0				MACRO	
6201			MVUP	MN	0&X1	0	4	0953	D 0|0	GEN	1161
6202				SAR	X1	0	4	0957	Q 089	GEN	1161
6203			)0J163	MCM	0&X3	0	4	0961	P 0?0	GEN	1161
6204				SAR	)0L163&6	0	4	0965	Q 987	GEN	1161
6205				MCM	0&X3,1&X1	0	7	0969	P 0?0 0|1	GEN	1162
6206				MN		0	1	0976	D	GEN	1162
6207				SBR	X1	0	4	0977	H 089	GEN	1162
6208			)0L163	SBR	X3,0	0	7	0981	H 099 000	GEN	1162
6209				BCE	)0J163,0&X1,|	0	8	0988	B 961 0|0 |	GEN	1162
6210				MN	0&X3	0	4	0996	D 0?0	GEN	1162
6211				CW		0	1	1000	)	GEN	1162
6212				SW	0&X1	0	4	1001	, 0|0	GEN	1163
6213				C	X3,NOMO	0	7	1005	C 099 P45	GEN	1163
6214				BU	)0J163	0	5	1012	B 961 /	GEN	1163
6215	46	30		MN	0&X1	0	4	1017	D 0|0		1163
6216	46	31		SAR	X1	0	4	1021	Q 089		1163
6217	46	32		MN	0&X3	0	4	1025	D 0?0		1163
6218	46	33		SBR	NXBTM#3	0	4	1029	H P55		1163
6219	46	34		BCE	START,0&X3,}	0	8	1033	B |60 0?0 }	GMARK	1164

GROUP MK

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
6220	46	35		SBR	X3	0	4	1041	H 099		1164
6221	46	36		LCA	GM	0	4	1045	L N73		1164
6222	46	37		SBR	NXBTM	0	4	1049	H P55		1164
6223	46	38		MCW	X3,NOMO	0	7	1053	M 099 P45		1164
6224	46	39	START	MCW	NXBTM,HEX2#3	0	7	1060	M P55 P58		1164
6225	46	40		MCW	0&X1,X3	0	7	1067	M 0|0 099		1165
6226	46	41		BWZ	*&5,X3,2	0	8	1074	V |86 099 2		1165
6227	46	42		B	*&9	0	4	1082	B |94		1165
6228	46	43		BWZ	*&8,X3-2,2	0	8	1086	V /01 097 2		1165
6229	46	44		MCW	0&X3,X3	0	7	1094	M 0?0 099		1165
6230	46	45		MCW	X3,CODE#3	0	7	1101	M 099 P61		1166
6231	46	46		MCW	BLNKS,CNTR	0	7	1108	M Q14 Q28		1166
6232	46	47		MCW	@|@,40&X1	0	7	1115	M P62 0U0		1166
6233	46	48		SBR	KLOBR&6,40&X1	0	7	1122	H /85 0U0		1166
6234	46	49		B	MVDWN	0	4	1129	B S57		1166
6235	46	50		BCE	IF,2&X1,E	0	8	1133	B S21 0|2 E		1167
6236	46	51		C	2&X1,@R@	0	7	1141	C 0|2 P63		1167
6237	46	52		BU	DUN	0	5	1148	B N19 /		1167
6238	46	53	ARITH	MCW	X1,X3	0	7	1153	M 089 099		1167
6239	46	54		SBR	TUKIT&3,0&X1	0	7	1160	H M96 0|0		1167
6240	46	55		C	0&X3	0	4	1167	C 0?0		1167
6241	46	56		SAR	NEXT#3	0	4	1171	Q P66		1168
6242	46	57		B	GETLF	0	4	1175	B S91		1168
6243	46	58	KLOBR	BCE	CNTRL,0,]	0	8	1179	B T81 000]		1168
6244	46	59		FQUIT		0				MACRO	
6245				CS	332	0	4	1187	/ 332	GEN	1168
6246				CS		0	1	1191	/	GEN	1168
6247				CC	1	0	2	1192	F 1	GEN	1168
6248				MCW	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@,270	0	7	1194	M Q02 270	GEN	1168
6249				W		0	1	1201	2	GEN	1169
6250				CC	1	0	2	1202	F 1	GEN	1169
6251				BCE	*&6,MONTOR,1	0	8	1204	B S17 769 1	GEN	1169
6252				RWD	1	0	5	1212	U %U1 R	GEN	1169
6253				H	*-3	0	4	1217	. S17	GEN	1169
6254	46	60	IF	MCW	X1,X3	0	7	1221	M 089 099		1169
6255	46	61	RUCOM	BCE	PASS,0&X3,,	0	8	1228	B S44 0?0 ,		1169
6256	46	62		SBR	X3	0	4	1236	H 099		1170
6257	46	63		B	RUCOM	0	4	1240	B S28		1170
6258	46	64	PASS	MN	0&X3	0	4	1244	D 0?0		1170
6259	46	65		SW		0	1	1248	,		1170
6260	46	66		B	MVDWN	0	4	1249	B S57		1170
6261	46	67		B	ARITH	0	4	1253	B /53		1170
6262	46	68	MVDWN	SBR	EXMVD&3	0	4	1257	H S90		1170
6263	46	69		MCW	NXBTM,X2	0	7	1261	M P55 094		1171
6264	46	70		LCA	0&X1,0&X2	0	7	1268	L 0|0 0!0		1171
6265	46	71		SBR	NXBTM	0	4	1275	H P55		1171
6266	46	72		C	0&X1	0	4	1279	C 0|0		1171
6267	46	73		SAR	X1	0	4	1283	Q 089		1171
6268	46	74	EXMVD	B	0	0	4	1287	B 000		1171
6269	46	75	GETLF	SBR	EXGTL&3	0	4	1291	H T46		1171

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
6270	46	76		BCE	SBSCR,0&X3,\$	0	8	1295	B T47 0?0 \$		1172
6271	46	77	LOOP	MCW	0&X3,PHILF	0	7	1303	M 0?0 Q15		1172
6272	46	78		SAR	X3	0	4	1310	Q 099		1172
6273	46	79		MCW	PHILF,*&8	0	7	1314	M Q15 T28		1172
6274	46	80		BCE	EXGTL,OPS,0	0	8	1321	B T43 O42 0		1172
6275	46	81		CHAIN	10	0				MACRO	
6276				BCE		0	1	1329	B	GEN	1172
6277				BCE		0	1	1330	B	GEN	1172
6278				BCE		0	1	1331	B	GEN	1173
6279				BCE		0	1	1332	B	GEN	1173
6280				BCE		0	1	1333	B	GEN	1173
6281				BCE		0	1	1334	B	GEN	1173
6282				BCE		0	1	1335	B	GEN	1173
6283				BCE		0	1	1336	B	GEN	1173
6284				BCE		0	1	1337	B	GEN	1173
6285				BCE		0	1	1338	B	GEN	1174
6286	46	82		B	LOOP	0	4	1339	B T03		1174
6287	46	83	EXGTL	B	0	0	4	1343	B 000		1174
6288	46	84	SBSCR	C	0&X3,BLNKS#12	0	7	1347	C 0?0 Q14		1174
6289	46	85		SAR	X3	0	4	1354	Q 099		1174
6290	46	86		BCE	EXGTL,2&X3,\$	0	8	1358	B T43 0?2 \$		1174
6291	46	87		C	0&X3,BLNKS-6	0	7	1366	C 0?0 Q08		1174
6292	46	88		SAR	X3	0	4	1373	Q 099		1175
6293	46	89		B	EXGTL	0	4	1377	B T43		1175
6294	46	90	CNTRL	MCW	1&X3,PHILF#1	0	7	1381	M 0?1 Q15		1175
6295	46	91		MCW	1&X1,PHIRT#1	0	7	1388	M 0|1 Q16		1175
6296	46	92		MCW	PHIRT,CKOP&7	0	7	1395	M Q16 V46		1175
6297	46	93		MCW	BLNKS,UNITS#3	0	7	1402	M Q14 Q19		1175
6298	46	94		B	GTNUM	0	4	1409	B V16		1176
6299	46	95		MN	NUM#1,UNITS-1	0	7	1413	D Q20 Q18		1176
6300	46	96		MCW	PHILF,CKOP&7	0	7	1420	M Q15 V46		1176
6301	46	97		B	GTNUM	0	4	1427	B V16		1176
6302	46	98		MN	NUM,UNITS	0	7	1431	D Q20 Q19		1176
6303	46	99		MCW	UNITS,X2	0	7	1438	M Q19 094		1176
6304	47	00		MN	MATRX&X2,X2	0	7	1445	D OM3 094		1177
6305	47	01		MCW	BLNKS	0	4	1452	M Q14		1177
6306	47	02		BWZ	ERR5,X2,S	0	8	1456	V K61 094 S		1177
6307	47	03		A	X2	0	4	1464	A 094		1177
6308	47	04		A	X2	0	4	1468	A 094		1177
6309	47	05		B	*&1&X2	0	4	1472	B UP6		1177
6310	47	06		B	SKIP	0	4	1476	B W03		1177
6311	47	07		B	PAREN	0	4	1480	B W18		1178
6312	47	08		B	FORCE	0	4	1484	B W59		1178
6313	47	09		B	EOJ	0	4	1488	B M58		1178
6314	47	10		B	NEG	0	4	1492	B Z48		1178
6315	47	11		B	FUN	0	4	1496	B Z81		1178
6316	47	12		B	ERR1	0	4	1500	B M13		1178
6317	47	13		B	ERR2	0	4	1504	B L75		1178
6318	47	14		B	ERR3	0	4	1508	B L37		1179
6319	47	15		B	ERR4	0	4	1512	B K99		1179

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
6320	47	16	GTNUM	SBR	CKOP&3	0	4	1516	H V42		1179
6321	47	17		BCE	GOTUM,CKOP&7,-	0	8	1520	B V62 V46 -		1179
6322	47	18	NISH	S	NUM	0	4	1528	S Q20		1179
6323	47	19		MCW	&OPS,CKOP&6	0	7	1532	M Q23 V45		1179
6324	47	20	CKOP	BCE	0,0,0	0	8	1539	B 000 000 0		1179
6325	47	21		SBR	CKOP&6	0	4	1547	H V45		1180
6326	47	22		A	@1@,NUM	0	7	1551	A Q24 Q20		1180
6327	47	23		B	CKOP	0	4	1558	B V39		1180
6328	47	24	GOTUM	MCW	@&@,CKOP&7	0	7	1562	M Q25 V46		1180
6329	47	25		B	NISH	0	4	1569	B V28		1180
6330	47	26	GNTMP	SBR	EXGTP&3	0	4	1573	H W02		1180
6331	47	27		A	@1@,CNTR#3	0	7	1577	A Q24 Q28		1180
6332	47	28		MZ	CNTR-1,TEMP	0	7	1584	Y Q27 N72		1181
6333	47	29		MN	CNTR,TEMP	0	7	1591	D Q28 N72		1181
6334	47	30		MN		0	1	1598	D		1181
6335	47	31	EXGTP	B	0	0	4	1599	B 000		1181
6336	47	32	SKIP	MCW	X3,X1	0	7	1603	M 099 089		1181
6337	47	33		B	GETLF	0	4	1610	B S91		1181
6338	47	34		B	CNTRL	0	4	1614	B T81		1181
6339	47	35	PAREN	SW	2&X3	0	4	1618	, 0?2		1182
6340	47	36		LCA	0&X1,1&X1	0	7	1622	L 0|0 0|1		1182
6341	47	37		CW	3&X3	0	4	1629	) 0?3		1182
6342	47	38		CW		0	1	1633	)		1182
6343	47	39		LCA	0&X3,2&X3	0	7	1634	L 0?0 0?2		1182
6344	47	40		SBR	X1,1&X1	0	7	1641	H 089 0|1		1182
6345	47	41		SBR	X3,1&X3	0	7	1648	H 099 0?1		1182
6346	47	42		B	CNTRL	0	4	1655	B T81		1183
6347	47	43	FORCE	MCW	NXBTM,X2	0	7	1659	M P55 094		1183
6348	47	44		MZ	4&X3,ZONE#1	0	7	1666	Y 0?4 Q29		1183
6349	47	45		BCE	*&8,2&X3,\$	0	8	1673	B W88 0?2 \$		1183
6350	47	46		MZ	3&X3,ZONE	0	7	1681	Y 0?3 Q29		1183
6351	47	47		SW	2&X3	0	4	1688	, 0?2		1183
6352	47	48		LCA	0&X1,0&X2	0	7	1692	L 0|0 0!0		1184
6353	47	49		SBR	X2	0	4	1699	H 094		1184
6354	47	50		CW	1&X2	0	4	1703	) 0!1		1184
6355	47	51		SW	2&X1	0	4	1707	, 0|2		1184
6356	47	52		SW		0	1	1711	,		1184
6357	47	53		LCA	1&X1,0&X2	0	7	1712	L 0|1 0!0		1184
6358	47	54		SBR	X2	0	4	1719	H 094		1184
6359	47	55		SBR	NXBTM	0	4	1723	H P55		1185
6360	47	56		CW	1&X2	0	4	1727	) 0!1		1185
6361	47	57		BCE	SBVRT,2&X1,\$	0	8	1731	B Y90 0|2 \$		1185
6362	47	58		LCA	4&X1,0&X2	0	7	1739	L 0|4 0!0		1185
6363	47	59		SBR	NXBTM	0	4	1746	H P55		1185
6364	47	60		MZ	3&X1,TEMP-1	0	7	1750	Y 0|3 N71		1185
6365	47	61		SAR	X1	0	4	1757	Q 089		1185
6366	47	62	FNISH	B	GNTMP	0	4	1761	B V73		1186
6367	47	63		LCA	TEMP,2&X1	0	7	1765	L N72 0|2		1186
6368	47	64		LCA	1&X3	0	4	1772	L 0?1		1186
6369	47	65		CW	0&X1	0	4	1776	) 0|0		1186

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
6370	47	66		MN		0	1	1780	D		1186
6371	47	67		SAR	X3	0	4	1781	Q 099		1186
6372	47	68		SBR	X1,2&X1	0	7	1785	H 089 0|2		1186
6373	47	69		BWZ	RUINT,TEMP-1,S	0	8	1792	V Y36 N71 S		1187
6374	47	70		BWZ	RUINT,TEMP-1,K	0	8	1800	V Y36 N71 K		1187
6375	47	71		BWZ	KLOBR,ZONE,2	0	8	1808	V /79 Q29 2		1187
6376	47	72		BWZ	KLOBR,ZONE,B	0	8	1816	V /79 Q29 B		1187
6377	47	73		BCE	KLOBR,PHIRT,.	0	8	1824	B /79 Q16 .		1188
6378	47	74		B	ERR46	0	4	1832	B Y52		1188
6379	47	75	RUINT	BWZ	KLOBR,ZONE,S	0	8	1836	V /79 Q29 S		1188
6380	47	76		BWZ	KLOBR,ZONE,K	0	8	1844	V /79 Q29 K		1188
6381	47	77	ERR46	FTMSG	46,MIXING IN ARITH,CODE,17	0				MACRO	
6382			ERR46	CS	332	0	4	1852	/ 332	GEN	1188
6383				CS		0	1	1856	/	GEN	1188
6384				SW	FAILSW	0	4	1857	, 184	GEN	1188
6385				MN	CODE,224&17	0	7	1861	D P61 241	GEN	1189
6386				MN		0	1	1868	D	GEN	1189
6387				MN		0	1	1869	D	GEN	1189
6388				MCW	@ERROR 46 - MIXING IN ARITH, STATEMENT @	0	4	1870	M Q67	GEN	1189
6389				W		0	1	1874	2	GEN	1189
6390				BCV	*&5	0	5	1875	B Y84 @	GEN	1189
6391				B	*&3	0	4	1880	B Y86	GEN	1189
6392				CC	1	0	2	1884	F 1	GEN	1190
6393	47	78		B	KILL	0	4	1886	B M47		1190
6394	47	79	SBVRT	SBR	X2,10&X1	0	7	1890	H 094 0/0		1190
6395	47	80		BCE	SEND,2&X2,\$	0	8	1897	B Z12 0!2 \$		1190
6396	47	81		SBR	X2,6&X2	0	7	1905	H 094 0!6		1190
6397	47	82	SEND	MCW	NXBTM,*&7	0	7	1912	M P55 Z25		1190
6398	47	83		LCA	2&X2,0	0	7	1919	L 0!2 000		1191
6399	47	84		SBR	NXBTM	0	4	1926	H P55		1191
6400	47	85		MZ	4&X1,TEMP-1	0	7	1930	Y 0!4 N71		1191
6401	47	86		MCW	X2,X1	0	7	1937	M 094 089		1191
6402	47	87		B	FNISH	0	4	1944	B X61		1191
6403	47	88	NEG	MCW	@N@,1&X1	0	7	1948	M Q68 0!1		1191
6404	47	89		MZ	4&X3,TEMP-1	0	7	1955	Y 0?4 N71		1192
6405	47	90		BCE	FUNY,2&X3,\$	0	8	1962	B J17 0?2 \$		1192
6406	47	91		MZ	3&X3,TEMP-1	0	7	1970	Y 0?3 N71		1192
6407	47	92		B	FUNY	0	4	1977	B J17		1192
6408	47	93	FUN	MCW	3&X1,TYPE#2	0	7	1981	M 0!3 Q70		1192
6409	47	94		BCE	FXMOD,3&X1,X	0	8	1988	B J75 0!3 X		1193
6410	47	95		MZ	*-4,TEMP-1	0	7	1996	Y Z98 N71		1193
6411	47	96	CKUSR	SW	2&X1	0	4	2003	, 0!2		1193
6412	47	97		MCW	2&X1,*&8	0	7	2007	M 0!2 !21		1193
6413	47	98		BCE	OKAY,@RUPWYZKJLMDH@,0	0	8	2014	B !99 Q82 0		1193
6414	47	99		CHAIN	11	0				MACRO	
6415				BCE		0	1	2022	B	GEN	1193
6416				BCE		0	1	2023	B	GEN	1193
6417				BCE		0	1	2024	B	GEN	1194
6418				BCE		0	1	2025	B	GEN	1194
6419				BCE		0	1	2026	B	GEN	1194

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
6420				BCE		0	1	2027	B	GEN	1194
6421				BCE		0	1	2028	B	GEN	1194
6422				BCE		0	1	2029	B	GEN	1194
6423				BCE		0	1	2030	B	GEN	1194
6424				BCE		0	1	2031	B	GEN	1195
6425				BCE		0	1	2032	B	GEN	1195
6426	48	00		MZ	4&X3,ZONE	0	7	2033	Y 0?4 Q29		1195
6427	48	01		BCE	*&8,2&X3,\$	0	8	2040	B !55 0?2 \$		1195
6428	48	02		MZ	3&X3,ZONE	0	7	2048	Y 0?3 Q29		1195
6429	48	03		BCE	RUFIX,2&X1,F	0	8	2055	B K07 0|2 F		1195
6430	48	04		BCE	RUFIX,2&X1,I	0	8	2063	B K07 0|2 I		1196
6431	48	05		C	TYPE,@AX@	0	7	2071	C Q70 Q84		1196
6432	48	06		BE	RUFIX	0	5	2078	B K07 S		1196
6433	48	07		BWZ	ERR6,ZONE,S	0	8	2083	V K23 Q29 S		1196
6434	48	08		BWZ	ERR6,ZONE,K	0	8	2091	V K23 Q29 K		1196
6435	48	09	OKAY	MCW	2&X1,1&X1	0	7	2099	M 0|2 0|1		1197
6436	48	10		MCW	@%@,2&X1	0	7	2106	M Q85 0|2		1197
6437	48	11		CW	2&X1	0	4	2113	) 0|2		1197
6438	48	12	FUNY	MCW	NXBTM,X2	0	7	2117	M P55 094		1197
6439	48	13		SW	2&X3	0	4	2124	, 0?2		1197
6440	48	14		LCA	1&X1,0&X2	0	7	2128	L 0|1 0!0		1197
6441	48	15		SBR	NXBTM	0	4	2135	H P55		1198
6442	48	16		B	GNTMP	0	4	2139	B V73		1198
6443	48	17		LCA	TEMP,1&X1	0	7	2143	L N72 0|1		1198
6444	48	18		LCA	1&X3	0	4	2150	L 0?1		1198
6445	48	19		MN	0&X1	0	4	2154	D 0|0		1198
6446	48	20		CW		0	1	2158	)		1198
6447	48	21		MN		0	1	2159	D		1198
6448	48	22		SAR	X3	0	4	2160	Q 099		1199
6449	48	23		SBR	X1,1&X1	0	7	2164	H 089 0|1		1199
6450	48	24		B	KLOBR	0	4	2171	B /79		1199
6451	48	25	FXMOD	MZ	*-6,TEMP-1	0	7	2175	Y J75 N71		1199
6452	48	26		LCA	2&X1,3&X1	0	7	2182	L 0|2 0|3		1199
6453	48	27		SBR	X1,1&X1	0	7	2189	H 089 0|1		1199
6454	48	28		SBR	X3,1&X3	0	7	2196	H 099 0?1		1200
6455	48	29		B	CKUSR	0	4	2203	B !03		1200
6456	48	30	RUFIX	BWZ	OKAY,ZONE,S	0	8	2207	V !99 Q29 S		1200
6457	48	31		BWZ	OKAY,ZONE,K	0	8	2215	V !99 Q29 K		1200
6458	48	32	ERR6	CS	332	0	4	2223	/ 332		1200
6459	48	33		CS		0	1	2227	/		1200
6460	48	34		SW	FAILSW	0	4	2228	, 184		1200
6461	48	35		MN	CODE,224&37	0	7	2232	D P61 261		1201
6462	48	36		MN		0	1	2239	D		1201
6463	48	37		MN		0	1	2240	D		1201
6464	48	38		MCW	BGMSG	0	4	2241	M 031		1201
6465	48	39		W		0	1	2245	2		1201
6466	48	40		BCV	*&5	0	5	2246	B K55 @		1201
6467	48	41		B	*&3	0	4	2251	B K57		1201
6468	48	42		CC	1	0	2	2255	F 1		1202
6469	48	43		B	KILL	0	4	2257	B M47		1202

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
6470	48	44	ERR5	FTMSG	24,SYSTEM ERROR,CODE,14	0				MACRO	
6471			ERR5	CS	332	0	4	2261	/ 332	GEN	1202
6472				CS		0	1	2265	/	GEN	1202
6473				SW	FAILSW	0	4	2266	, 184	GEN	1202
6474				MN	CODE,224&14	0	7	2270	D P61 238	GEN	1202
6475				MN		0	1	2277	D	GEN	1202
6476				MN		0	1	2278	D	GEN	1203
6477				MCW	@ERROR 24 - SYSTEM ERROR, STATEMENT @	0	4	2279	M R20	GEN	1203
6478				W		0	1	2283	2	GEN	1203
6479				BCV	*&5	0	5	2284	B K93 @	GEN	1203
6480				B	*&3	0	4	2289	B K95	GEN	1203
6481				CC	1	0	2	2293	F 1	GEN	1203
6482	48	45		B	KILL	0	4	2295	B M47		1203
6483	48	46	ERR4	FTMSG	26,EXCESS OF # SIGNS,CODE,19	0				MACRO	
6484			ERR4	CS	332	0	4	2299	/ 332	GEN	1204
6485				CS		0	1	2303	/	GEN	1204
6486				SW	FAILSW	0	4	2304	, 184	GEN	1204
6487				MN	CODE,224&19	0	7	2308	D P61 243	GEN	1204
6488				MN		0	1	2315	D	GEN	1204
6489				MN		0	1	2316	D	GEN	1204
6490				MCW	@ERROR 26 - EXCESS OF # SIGNS, STATEMENT @	0	4	2317	M R60	GEN	1204
6491				W		0	1	2321	2	GEN	1205
6492				BCV	*&5	0	5	2322	B L31 @	GEN	1205
6493				B	*&3	0	4	2327	B L33	GEN	1205
6494				CC	1	0	2	2331	F 1	GEN	1205
6495	48	47		B	KILL	0	4	2333	B M47		1205
6496	48	48	ERR3	FTMSG	32,MULTIPLE EXPONENT,CODE,19	0				MACRO	
6497			ERR3	CS	332	0	4	2337	/ 332	GEN	1205
6498				CS		0	1	2341	/	GEN	1205
6499				SW	FAILSW	0	4	2342	, 184	GEN	1206
6500				MN	CODE,224&19	0	7	2346	D P61 243	GEN	1206
6501				MN		0	1	2353	D	GEN	1206
6502				MN		0	1	2354	D	GEN	1206
6503				MCW	@ERROR 32 - MULTIPLE EXPONENT, STATEMENT @	0	4	2355	M ?00	GEN	1206
6504				W		0	1	2359	2	GEN	1206
6505				BCV	*&5	0	5	2360	B L69 @	GEN	1206
6506				B	*&3	0	4	2365	B L71	GEN	1207
6507				CC	1	0	2	2369	F 1	GEN	1207
6508	48	49		B	KILL	0	4	2371	B M47		1207
6509	48	50	ERR2	FTMSG	16,PARENTHESIS ERROR,CODE,19	0				MACRO	
6510			ERR2	CS	332	0	4	2375	/ 332	GEN	1207
6511				CS		0	1	2379	/	GEN	1207
6512				SW	FAILSW	0	4	2380	, 184	GEN	1207
6513				MN	CODE,224&19	0	7	2384	D P61 243	GEN	1207
6514				MN		0	1	2391	D	GEN	1208
6515				MN		0	1	2392	D	GEN	1208
6516				MCW	@ERROR 16 - PARENTHESIS ERROR, STATEMENT @	0	4	2393	M ?40	GEN	1208
6517				W		0	1	2397	2	GEN	1208
6518				BCV	*&5	0	5	2398	B M07 @	GEN	1208
6519				B	*&3	0	4	2403	B M09	GEN	1208

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
6520				CC	1	0	2	2407	F 1	GEN	1208
6521	48	51		B	KILL	0	4	2409	B M47		1209
6522	48	52	ERR1	FTMSG	25,LEFT SIDE INVALID,CODE,19	0				MACRO	
6523			ERR1	CS	332	0	4	2413	/ 332	GEN	1209
6524				CS		0	1	2417	/	GEN	1209
6525				SW	FAILSW	0	4	2418	, 184	GEN	1209
6526				MN	CODE,224&19	0	7	2422	D P61 243	GEN	1209
6527				MN		0	1	2429	D	GEN	1209
6528				MN		0	1	2430	D	GEN	1209
6529				MCW	@ERROR 25 - LEFT SIDE INVALID, STATEMENT @	0	4	2431	M ?80	GEN	1210
6530				W		0	1	2435	2	GEN	1210
6531				BCV	*&5	0	5	2436	B M45 @	GEN	1210
6532				B	*&3	0	4	2441	B M47	GEN	1210
6533				CC	1	0	2	2445	F 1	GEN	1210
6534	48	53	KILL	MCW	HEX2,NXBTM	0	7	2447	M P58 P55		1210
6535	48	54		B	RESET	0	4	2454	B N08		1210
6536	48	55	EOJ	MCW	NXBTM,X2	0	7	2458	M P55 094		1211
6537	48	56		SW	2&X3	0	4	2465	, 0?2		1211
6538	48	57		LCA	0&X1,0&X2	0	7	2469	L 0|0 0!0		1211
6539	48	58		LCA	@#@	0	4	2476	L ?81		1211
6540	48	59		SBR	X2	0	4	2480	H 094		1211
6541	48	60		CW	2&X2	0	4	2484	) 0!2		1211
6542	48	61		CW		0	1	2488	)		1211
6543	48	62		SW	2&X1	0	4	2489	, 0|2		1212
6544	48	63	TUKIT	LCA	0,0&X2	0	7	2493	L 000 0!0		1212
6545	48	64		LCA	GM	0	4	2500	L N73		1212
6546	48	65		SBR	NXBTM	0	4	2504	H P55		1212
6547	48	66	RESET	MCW	NEXT,X1	0	7	2508	M P66 089		1212
6548	48	67		B	START	0	4	2515	B |60		1212
6549	48	68	DUN	SBR	X1,5&X1	0	7	2519	H 089 0|5		1212
6550	48	69		MCW	NXBTM,X3	0	7	2526	M P55 099		1213
6551	48	70		SBR	X2,5&X3	0	7	2533	H 094 0?5		1213
6552	48	71		MCW	NOMO,X3	0	7	2540	M P45 099		1213
6553	48	72	OUT	FENDX	C,,,,,SYSGM,ARITH TRI	0				MACRO	
6554			OUT	BSS	333,C	0	5	2547	B 333 C	GEN	1213
6555				SBR	TCLEAR,SYSGM	0	7	2552	H 710 ?91	GEN	1213
6556				LCA	@ARITH TRI@,110	0	7	2559	L ?90 110	GEN	1214
6557				B	MONTER	0	4	2566	B 700	GEN	1214
6558	48	73		DCW	@<@ DELTA 12-6-8	0	1	2570			1214
6559	48	74	TEMP	DC	@ @ BLANKS	0	2	2572			1214
6560	48	75	GM	DC	@}@ GROUP MK	0	1	2573		GMARK	1214
6561	48	76		DCW	@ERROR 28 - INCORRECT MODE OF FUNCTION ARGUMENT, ST@	0	50	2623			1216
6562	48	77	BGMSG	DC	@ATEMENT @	0	8	2631			1216
6563	48	78		DCW	@-@	0	1	2632			1216
6564	48	79	OPS	DCW	@, .@&}#%)*@ PLUS, G-M, EQUAL	0	10	2642			1216
6565	48	80	MATRX	EQU	*&1	0		2643			
6566	48	81		DC	@220922200SSSSSSSSSSS010970000007093000006660S66666@	0	50	2692			1218
6567	48	82		DC	@020922000S220922200S220922280S0509700000440944400S@	0	50	2742			1220
6568	48	83	*								
6569	48	84	*								

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
6570	48	85	*		ARITH ALGORITHM						
6571	48	86	*								
6572	48	87	*								
6573	48	88	*								
6574	48	89	*		PHI LEFT						
6575	48	90	*								
6576	48	91	*								
6577	48	92	*		*) % # GM & / ** F% NG						
6578	48	93	*								
6579	48	94	*	P	* 2 2 0 9 2 2 2 0 0 0 0 S						
6580	48	95	*	H	) S S S S S S S S S S S S						
6581	48	96	*	I	% 0 1 0 9 7 0 0 0 0 0 0 0						
6582	48	97	*		# 0 7 0 9 3 0 0 0 0 0 0 0						
6583	48	98	*	R	GM 6 6 6 0 S 6 6 6 6 6 6						
6584	48	99	*	I	-& 0 2 0 9 2 2 0 0 0 0 S						
6585	49	00	*	G	/ 2 2 0 9 2 2 2 0 0 0 S						
6586	49	01	*	H	. ** 2 2 0 9 2 2 2 8 0 0 S						
6587	49	02	*	T	F% 0 5 0 9 7 0 0 0 0 0 0						
6588	49	03	*		,NG 4 4 0 9 4 4 4 0 0 0 S						
6589	49	04	*								
6590	49	05	*								
6591	49	06	*		0 SKIP TO NEXT OP						
6592	49	07	*		1 DELETE PARENS						
6593	49	08	*		2 FORCE BINARY OP						
6594	49	09	*		3 EOJ						
6595	49	10	*		4 NEGATE FN						
6596	49	11	*		5 OTHER FN						
6597	49	12	*		6 LEFT SIDE INVALID						
6598	49	13	*		7 PAREN ERROR						
6599	49	14	*		8 DOUBLE EXPONENTIATION						
6600	49	15	*		9 MULTIPLE # SIGNS						
6601	49	16	*		S COMPILER ERROR						
6602	49	17	*								
6603	49	18	*								
6604	49	19			LTORG *	0			2743		
			NOMO	0	DCW #03	0	3	2745		AREA	1220
			TAIL	0	DCW #02	0	2	2747		AREA	1220
					DCW @00@	0	2	2749		LIT	1220
			LAST	0	DCW #03	0	3	2752		AREA	1220
			NXBTM0		DCW #03	0	3	2755		AREA	1221
			HEX2	0	DCW #03	0	3	2758		AREA	1221
			CODE	0	DCW #03	0	3	2761		AREA	1221
					DCW @]@	0	1	2762		LIT	1221
					DCW @R@	0	1	2763		LIT	1221
			NEXT	0	DCW #03	0	3	2766		AREA	1221
					DCW @MESSAGE 2 - OBJECT PROGRAM TOO LARGE@	0	36	2802		LIT	1222
			BLNKS0		DCW #12	0	12	2814		AREA	1223
			PHILF0		DCW #01	0	1	2815		AREA	1223
			PHIRT0		DCW #01	0	1	2816		AREA	1223
			UNITS0		DCW #03	0	3	2819		AREA	1223

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
			NUM	0	DCW #01	0	1	2820		AREA	1223
					DCW &OPS 0	0	3	2823	O42	ADCON	1223
					DCW @1@	0	1	2824		LIT	1223
					DCW @&@	0	1	2825		LIT	1224
			CNTR	0	DCW #03	0	3	2828		AREA	1224
			ZONE	0	DCW #01	0	1	2829		AREA	1224
					DCW @ERROR 46 - MIXING IN ARITH, STATEMENT @	0	38	2867		LIT	1225
					DCW @N@	0	1	2868		LIT	1225
			TYPE	0	DCW #02	0	2	2870		AREA	1226
					DCW @RUPWYZKJLMDH@	0	12	2882		LIT	1226
					DCW @AX@	0	2	2884		LIT	1226
					DCW @%@	0	1	2885		LIT	1226
					DCW @ERROR 24 - SYSTEM ERROR, STATEMENT @	0	35	2920		LIT	1227
					DCW @ERROR 26 - EXCESS OF # SIGNS, STATEMENT @	0	40	2960		LIT	1229
					DCW @ERROR 32 - MULTIPLE EXPONENT, STATEMENT @	0	40	3000		LIT	1231
					DCW @ERROR 16 - PARENTHESIS ERROR, STATEMENT @	0	40	3040		LIT	1233
					DCW @ERROR 25 - LEFT SIDE INVALID, STATEMENT @	0	40	3080		LIT	1235
					DCW @##@	0	1	3081		LIT	1235
					DCW @ARITH TRI@	0	9	3090		LIT	1235
6605	49	20	SYSGM		DCW @}@ SYSTEM GROUP MK	0	1	3091		GMARK	1235
6606	49	21		XFR	INITL	0			B 838		1236

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
6607	49	22		JOB	ARITH PHASE THREE						
6608	49	23		SFX	[12-5-8						
6609	49	24	110	DCW	@ARITH 3@		7	0110			1239
6610	49	25		ORG	XBEGIN				0838		
6611	49	26	START	FENDX	C,,,,,SYSGM,ARITH 4					MACRO	
6612			START	BSS	333,C		5	0838	B 333 C	GEN	1240
6613				SBR	TCLEAR,SYSGM		7	0843	H 710 |68	GEN	1240
6614				LCA	@ARITH 4@,110		7	0850	L |67 110	GEN	1240
6615				B	MONTER		4	0857	B 700	GEN	1240
6616	49	27		ORG	*200				1061		
6617	49	28		LTORG	*				1061		
				DCW	@ARITH 4@		7	1067		LIT	1241
6618	49	29	SYSGM	DCW	@}@		1	1068		GMARK	1241
6619	49	30		XFR	START				B 838		1242

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
6620	49	31		JOB	ARITH PHASE FOUR	[
6621	49	32		FBEGN	ARITH 4, X1,,X2,,X3,,7	[				MACRO	
6622				SFX	7	7				GEN	
6623			110	DCW	@ARITH 4@	7	7	0110		GEN	1245
6624			X1	EQU	089	7		0089		GEN	
6625			X2	EQU	094	7		0094		GEN	
6626			X3	EQU	099	7		0099		GEN	
6627	49	33		ORG	XBEGIN	7			0838		
6628	49	34		* START -	INITIALIZATION						
6629	49	35	START	BCE	FENDX,X2,.	7	8	0838	B R37 094 .		1246
6630	49	36		SW	GM1	7	4	0846	, K40		1246
6631	49	37		SBR	SAVX3#3,0&X3	7	7	0850	H R62 0?0		1246
6632	49	38		SBR	X1,1&X1	7	7	0857	H 089 0|1		1246
6633	49	39		SBR	X2,1&X2	7	7	0864	H 094 0|1		1246
6634	49	40		* START OF	EVERY STATEMENT						
6635	49	41	NUSTM	S	TBLR	7	4	0871	S N72		1246
6636	49	42		C	X2, SAVX3	7	7	0875	C 094 R62		1247
6637	49	43		BE	FENDX	7	5	0882	B R37 S		1247
6638	49	44		MCW	BLK4,MAXDL	7	7	0887	M ?45 ?21		1247
6639	49	45		SBR	HEX1#3,0&X1	7	7	0894	H R65 0|0		1247
6640	49	46		* START OF	EVERY DELTA STRING						
6641	49	47	BLKOP	MCW	BLK4, HLDOP#1	7	7	0901	M ?45 R66		1247
6642	49	48	CWPRT	CW	PRTSW	7	4	0908	) R36		1247
6643	49	49		B	FIX X2 AT HIGH ORDER MINUS ONE	7	4	0912	B N73		1248
6644	49	50		BCE	DELT1,LEFT-2,< 12-6-8 X2 AT UNITS POS	7	8	0916	B 974 ?61 <		1248
6645	49	51	CKDL2	BCE	DELT2,RIGHT-2,< 12-6-8	7	8	0924	B /66 ?86 <		1248
6646	49	52		BCE	OUTPT,1&X2,} GM	7	8	0932	B X33 0|1 } GMARK		1248
6647	49	53		BW	BIG,PRTSW	7	8	0940	V T02 R36 1		1248
6648	49	54	ADD3	A	@I99@,CURDL#3	7	7	0948	A R69 R72		1249
6649	49	55		MCW	CURDL,X3	7	7	0955	M R72 099		1249
6650	49	56		BCE	ADD3,TABLE&X3,1	7	8	0962	B 948 KD1 1		1249
6651	49	57		B	BLKOP	7	4	0970	B 901		1249
6652	49	58		* DELTA IS	LEFT OPERAND						
6653	49	59	DELT1	BCE	CKDL2,OP,#	7	8	0974	B 924 ?64 #		1249
6654	49	60		BCE	TUF,OP,.	7	8	0982	B T28 ?64 .		1250
6655	49	61		B	CVTDL	7	4	0990	B P58		1250
6656	49	62		DCW	LEFT	7	3	0996	?63		1250
6657	49	63	D2	B	GETDL CVT3 HAS DELTA NO OF SOUGHT TEMP	7	4	0997	B Q37		1250
6658	49	64		MN	&1,TABLE&X1 MARK DELTA DELETED	7	7	1001	D R73 KU1		1250
6659	49	65		LCA	0&X3,HLD35#35	7	7	1008	L 0?0 ?08		1250
6660	49	66		SAR	X1	7	4	1015	Q 089		1250
6661	49	67		* DELETE	TEMP						
6662	49	68	CMP3	C	X1,X2	7	7	1019	C 089 094		1251
6663	49	69		BE	HLFT	7	5	1026	B |54 S		1251
6664	49	70		MVDWN	X1,X3	7				MACRO	
6665				LCA	0&X1,0&X3	7	7	1031	L 0|0 0?0	GEN	1251
6666				SAR	X1	7	4	1038	Q 089	GEN	1251
6667				C	0&X3	7	4	1042	C 0?0	GEN	1251
6668				SAR	X3	7	4	1046	Q 099	GEN	1251
6669	49	71		B	CMP3	7	4	1050	B |19		1251

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
6670	49	72	*		X1 # X2 UNITS POSN OF TEMP TO BE OPTIMIZED						
6671	49	73	*		X3 # UNITS OF INSERTION OF OPTIMIZED TEMP						
6672	49	74	*		INSERT TEMP IN STRING						
6673	49	75	HLFT	C	0&X2	7	4	1054	C 0!0		1252
6674	49	76		SAR	X1 X1 AT HI ORD OF OLD TEMP	7	4	1058	Q 089		1252
6675	49	77		BW	CW2,PRTSW	7	8	1062	V R28 R36 1		1252
6676	49	78	CKRT	BCE	NORT,RIGHT,*	7	8	1070	B /01 ?88 *		1252
6677	49	79		BCE	FST1,OP,#	7	8	1078	B W95 ?64 #		1252
6678	49	80		LCA	RIGHT,0&X3	7	7	1086	L ?88 0?0		1252
6679	49	81		SBR	X3	7	4	1093	H 099		1253
6680	49	82		CW	1&X3	7	4	1097	) 0?1		1253
6681	49	83	NORT	LCA	OP,0&X3	7	7	1101	L ?64 0?0		1253
6682	49	84		SBR	X3	7	4	1108	H 099		1253
6683	49	85		CW	1&X3	7	4	1112	) 0?1		1253
6684	49	86		LCA	HLD35,0&X3	7	7	1116	L ?08 0?0		1253
6685	49	87		SBR	X3	7	4	1123	H 099		1253
6686	49	88		SBR	X2 X2 NOA AT NEW LOC OF TEMP	7	4	1127	H 094		1254
6687	49	89	*		SHIFT REST OF STATEMENT						
6688	49	90	LOAD2	LCA	0&X1,0&X3	7	7	1131	L 0|0 0?0		1254
6689	49	91		SAR	X1	7	4	1138	Q 089		1254
6690	49	92		C	0&X3	7	4	1142	C 0?0		1254
6691	49	93		SAR	X3	7	4	1146	Q 099		1254
6692	49	94		BCE	*&5,1&X1,} GM	7	8	1150	B /62 0|1 } GMARK		1254
6693	49	95		B	LOAD2	7	4	1158	B /31		1254
6694	49	96		B	BLKOP	7	4	1162	B 901		1255
6695	49	97	*		DELTA IS RIGHT OPERAND						
6696	49	98	DELT2	BCE	*&5,HLDOP, BLANK	7	8	1166	B /78 R66		1255
6697	49	99		B	CANU	7	4	1174	B U96		1255
6698	50	00		BCE	FIRST,OP,#	7	8	1178	B W63 ?64 #		1255
6699	50	01		FBCEQ	COMUT,OP,&,*					MACRO	
6700				BCE	COMUT, OP, &	7	8	1186	B S14 ?64 & GEN		1255
6701				BCE	COMUT, OP, *	7	8	1194	B S14 ?64 * GEN		1256
6702	50	02		BCE	NEGAT,OP,-	7	8	1202	B S39 ?64 -		1256
6703	50	03		B	CKND	7	4	1210	B V27		1256
6704	50	04	COMUT	LCA	LEFT,HLD35	7	7	1214	L ?63 ?08		1256
6705	50	05		LCA	RIGHT,LEFT	7	7	1221	L ?88 ?63		1256
6706	50	06		LCA	HLD35,RIGHT	7	7	1228	L ?08 ?88		1257
6707	50	07		B	DELT1	7	4	1235	B 974		1257
6708	50	08	NEGAT	BW	KWM,PRTSW	7	8	1239	V T79 R36 1		1257
6709	50	09		LCA	LEFT,0&X2	7	7	1247	L ?63 0!0		1257
6710	50	10		LCA	@&@	7	4	1254	L ?09		1257
6711	50	11		SBR	X2	7	4	1258	H 094		1257
6712	50	12		CW	2&X2,XNEGTF	7	7	1262	) 0!2 123		1258
6713	50	13	NEG3	LCA	RIGHT,LEFT	7	7	1269	L ?88 ?63		1258
6714	50	14		LCA	@***@,RIGHT	7	7	1276	L ?12 ?88		1258
6715	50	15		MCW	@N@,OP	7	7	1283	M ?13 ?64		1258
6716	50	16		CW	XNEGTF	7	4	1290	) 123		1258
6717	50	17		SW	PRTSW	7	4	1294	, R36		1258
6718	50	18		B	DELT1	7	4	1298	B 974		1259
6719	50	19	*		IN THE MIDDLE OF PARTIALLY OPTIMIZED TEMP						

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
6720	50	20	BIG	BCE	TUF,RIGHT,*	7	8	1302	B T28 ?88 *		1259
6721	50	21		MCW	OP,BCE1&7	7	7	1310	M ?64 T24		1259
6722	50	22	BCE1	BCE	MAYBE,@&-*@@, 0	7	8	1317	B T91 ?17 0		1259
6723	50	23		CHAIN	3	7				MACRO	
6724				BCE		7	1	1325	B	GEN	1259
6725				BCE		7	1	1326	B	GEN	1259
6726				BCE		7	1	1327	B	GEN	1259
6727	50	24	TUF	BW	*&5,PRTSW	7	8	1328	V T40 R36 1		1260
6728	50	25		B	ADD3	7	4	1336	B 948		1260
6729	50	26		B	KWM	7	4	1340	B T79		1260
6730	50	27	TUF2	BW	ADJST,2&X2	7	8	1344	V T60 0!2 1		1260
6731	50	28		SBR	X2	7	4	1352	H 094		1260
6732	50	29		B	TUF2	7	4	1356	B T44		1260
6733	50	30	ADJST	SBR	X2,1&X2	7	7	1360	H 094 0!1		1260
6734	50	31		BCE	OUTPT,1&X2,}	7	8	1367	B X33 0!1 }	GMARK	1261
6735	50	32		B	ADD3	7	4	1375	B 948		1261
6736	50	33	KWM	SBR	KWMXT&3	7	4	1379	H T90		1261
6737	50	34		CW	1&X2	7	4	1383	) 0!1		1261
6738	50	35	KWMXT	B	0	7	4	1387	B 000		1261
6739	50	36	MAYBE	BCE	*&5,HLDOP,	7	8	1391	B U03 R66		1261
6740	50	37		B	ADNL	7	4	1399	B U40		1261
6741	50	38		MCW	OP,HLDOP	7	7	1403	M ?64 R66		1262
6742	50	39	MESUR	CW	1&X2	7	4	1410	) 0!1		1262
6743	50	40		LCA	RIGHT,0&X2	7	7	1414	L ?88 0!0		1262
6744	50	41		SBR	X2	7	4	1421	H 094		1262
6745	50	42		CW	MIDSW#1	7	4	1425	) ?18		1262
6746	50	43		SBR	CW5&3,1&X2	7	7	1429	H 017 0!1		1262
6747	50	44		B	CWPRT	7	4	1436	B 908		1262
6748	50	45	ADNL	FBCEQ	HOPE,HLDOP,&,-	7				MACRO	
6749			ADNL	BCE	HOPE, HLDOP, &	7	8	1440	B U76 R66 &	GEN	1263
6750				BCE	HOPE, HLDOP, -	7	8	1448	B U76 R66 -	GEN	1263
6751	50	46		FBCEQ	MESUR,OP,*,/	7				MACRO	
6752				BCE	MESUR, OP, *	7	8	1456	B U10 ?64 *	GEN	1263
6753				BCE	MESUR, OP, /	7	8	1464	B U10 ?64 /	GEN	1263
6754	50	47		B	TUF	7	4	1472	B T28		1263
6755	50	48	HOPE	FBCEQ	MESUR,OP,&,-	7				MACRO	
6756			HOPE	BCE	MESUR, OP, &	7	8	1476	B U10 ?64 &	GEN	1264
6757				BCE	MESUR, OP, -	7	8	1484	B U10 ?64 -	GEN	1264
6758	50	49		B	TUF	7	4	1492	B T28		1264
6759	50	50	* DELTA FOUND IN MIDDLE OF LARGE STRING								
6760	50	51	CANU	MCW	OP,*&8	7	7	1496	M ?64 V10		1264
6761	50	52		BCE	SWAP,HLDOP,0	7	8	1503	B V75 R66 0		1264
6762	50	53		FBCEQ	HOPE2,HLDOP,&,-	7				MACRO	
6763				BCE	HOPE2, HLDOP, &	7	8	1511	B V55 R66 &	GEN	1265
6764				BCE	HOPE2, HLDOP, -	7	8	1519	B V55 R66 -	GEN	1265
6765	50	54	CKND	BCE	OUTPT,1&X2,}	7	8	1527	B X33 0!1 }	GMARK	1265
6766	50	55		BW	TUF,PRTSW	7	8	1535	V T28 R36 1		1265
6767	50	56		BW	ADD3,1&X2	7	8	1543	V 948 0!1 1		1266
6768	50	57		B	TUF	7	4	1551	B T28		1266
6769	50	58	HOPE2	FBCEQ	SWAP,OP,&,-	7				MACRO	

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
6770			HOPE2	BCE	SWAP, OP, &	7	8	1555	B V75 ?64 &	GEN	1266
6771				BCE	SWAP, OP, -	7	8	1563	B V75 ?64 -	GEN	1266
6772	50	59		B	CKND	7	4	1571	B V27		1266
6773	50	60	* SHIFT MIDDLE DELTA TO FRONT OF STRING								
6774	50	61	SWAP	BCE	TUF,OP,@	7	8	1575	B T28 ?64 @		1267
6775	50	62		BW	KWM,PRTSW	7	8	1583	V T79 R36 1		1267
6776	50	63		C	0&X2,BLK4	7	7	1591	C 0!0 ?45		1267
6777	50	64		SAR	X3	7	4	1598	Q 099		1267
6778	50	65		MCW	0&X3,0&X2	7	7	1602	M 0?0 0!0		1267
6779	50	66		SBR	X2	7	4	1609	H 094		1267
6780	50	67		BCE	NEG2,OP,-	7	8	1613	B W44 ?64 -		1268
6781	50	68		MCW	OP,0&X2	7	7	1621	M ?64 0!0		1268
6782	50	69		MCW	RIGHT	7	4	1628	M ?88		1268
6783	50	70		C	0&X2	7	4	1632	C 0!0		1268
6784	50	71		SBR	X2	7	4	1636	H 094		1268
6785	50	72		B	BLKOP	7	4	1640	B 901		1268
6786	50	73	NEG2	LCA	@&@,0&X2	7	7	1644	L ?09 0!0		1268
6787	50	74		SBR	X2	7	4	1651	H 094		1269
6788	50	75		SW	PRTSW	7	4	1655	, R36		1269
6789	50	76		B	NEG3	7	4	1659	B S69		1269
6790	50	77	FIRST	B	CVTDL	7	4	1663	B P58		1269
6791	50	78		DCW	RIGHT	7	3	1669	?88		1269
6792	50	79		MCW	RIGHT,MAXDL#3	7	7	1670	M ?88 ?21		1269
6793	50	80		MCW	CVT3,CURDL	7	7	1677	M ?91 R72		1269
6794	50	81		A	&1,CURDL	7	7	1684	A R73 R72		1270
6795	50	82		B	D2	7	4	1691	B 997		1270
6796	50	83	FST1	LCA	HLD35,0&X3	7	7	1695	L ?08 0?0		1270
6797	50	84		SBR	X2	7	4	1702	H 094		1270
6798	50	85		LCA	OP	7	4	1706	L ?64		1270
6799	50	86		SBR	X3	7	4	1710	H 099		1270
6800	50	87		CW	1&X3	7	4	1714	) 0?1		1270
6801	50	88		LCA	LEFT,0&X3	7	7	1718	L ?63 0?0		1271
6802	50	89		LCA	GM1	7	4	1725	L K40		1271
6803	50	90		B	BLKOP	7	4	1729	B 901		1271
6804	50	91	* ALL OPTIMIZATION HAS TAKEN PLACE - OUTPUT STATEMENT								
6805	50	92	OUTPT	MCW	HEX1,X1	7	7	1733	M R65 089		1271
6806	50	93		SBR	HEX2#3,0&X2	7	7	1740	H ?24 0!0		1271
6807	50	94		BCE	NOPTM,2&X2,, IF STATEMENT	7	8	1747	B Y87 0!2 ,		1271
6808	50	95		BCE	NOPTM,MAXDL-2,< 12-6-8	7	8	1755	B Y87 ?19 <		1272
6809	50	96		BCE	NOPTM,0&X2,\$	7	8	1763	B Y87 0!0 \$		1272
6810	50	97		BCE	NOPTM,BOP,\$	7	8	1771	B Y87 ?63 \$		1272
6811	50	98		BWZ	CKFIX,BOP-1,K	7	8	1779	V Y07 ?62 K		1272
6812	50	99		BWZ	NOPTM,AOP-1,K	7	8	1787	V Y87 ?87 K		1273
6813	51	00		BWZ	NOPTM,AOP-1,S	7	8	1795	V Y87 ?87 S		1273
6814	51	01		B	OPTM	7	4	1803	B Y23		1273
6815	51	02	CKFIX	BWZ	NOPTM,AOP-1,2	7	8	1807	V Y87 ?87 2		1273
6816	51	03		BWZ	NOPTM,AOP-1,B	7	8	1815	V Y87 ?87 B		1273
6817	51	04	* GENERATE INLINE CODING								
6818	51	05	OPTM	B	NOPTM	7	4	1823	B Y87		1274
6819	51	06		LCA	BOP	7	4	1827	L ?63		1274

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
6820	51	07		LCA	AOP	7	4	1831	L ?88		1274
6821	51	08		LCA	@L@	7	4	1835	L ?25		1274
6822	51	09		SBR	X3	7	4	1839	H 099		1274
6823	51	10		CW	2&X3,5&X3	7	7	1843	) 0?2 0?5		1274
6824	51	11		MZ	*-4,3&X3	7	7	1850	Y Y52 0?3		1274
6825	51	12		MZ	*-4,6&X3	7	7	1857	Y Y59 0?6		1275
6826	51	13		SBR	X1,6&X1	7	7	1864	H 089 0|6		1275
6827	51	14		LCA	6&X2	7	4	1871	L 0!6		1275
6828	51	15		LCA		7	1	1875	L		1275
6829	51	16		SBR	X2,6&X2	7	7	1876	H 094 0!6		1275
6830	51	17		B	NUSTM	7	4	1883	B 871		1275
6831	51	18	* CANNOT GENERATE INLINE CODING								
6832	51	19	NOPTM	MCW	@01@,MAXDL	7	7	1887	M ?27 ?21		1275
6833	51	20		MCW	@001@,X3	7	7	1894	M ?30 099		1276
6834	51	21		MCW	@01@,DL2#2	7	7	1901	M ?27 ?32		1276
6835	51	22		SBR	X1,4&X1	7	7	1908	H 089 0|4		1276
6836	51	23		LCA	@B700@	7	4	1915	L ?36		1276
6837	51	24	CKZRO	BCE	PRODL,TABLE&X3,0	7	8	1919	B Z63 KD1 0		1276
6838	51	25	DECR	A	&1,DL2	7	7	1927	A R73 ?32		1277
6839	51	26		MCW	DL2,MAXDL	7	7	1934	M ?32 ?21		1277
6840	51	27		MZ	DL2-1,MAXDL	7	7	1941	Y ?31 ?21		1277
6841	51	28		A	&1,X3	7	7	1948	A R73 099		1277
6842	51	29		SW	PRTSW	7	4	1955	, R36		1277
6843	51	30		B	CKZRO	7	4	1959	B Z19		1277
6844	51	31	PRODL	LCA	@#@,4&X1	7	7	1963	L ?37 0|4		1278
6845	51	32		LCA	MAXDL	7	4	1970	L ?21		1278
6846	51	33		CW	4&X1	7	4	1974	) 0|4		1278
6847	51	34		C	0&X1,@B700@	7	7	1978	C 0|0 ?36		1278
6848	51	35		BE	*&5	7	5	1985	B Z94 S		1278
6849	51	36		CW	1&X1	7	4	1990	) 0|1		1278
6850	51	37		LCA	GM1,1&X2	7	7	1994	L K40 0!1		1278
6851	51	38	CX2	C	0&X2	7	4	2001	C 0!0		1279
6852	51	39		SAR	X2	7	4	2005	Q 094		1279
6853	51	40		BCE	KWM2,0&X2,#	7	8	2009	B J39 0!0 #		1279
6854	51	41		BCE	SUB3,1&X2,\$	7	8	2017	B J47 0!1 \$		1279
6855	51	42		MZ	2&X2,2&X1	7	7	2025	Y 0!2 0|2		1279
6856	51	43	BMPX1	SBR	X1,4&X1	7	7	2032	H 089 0|4		1279
6857	51	44	* STRING TO OUTPUT AREA								
6858	51	45	PMOV	MCM	1&X2,1&X1	7	7	2039	P 0!1 0|1		1280
6859	51	46		MN		7	1	2046	D		1280
6860	51	47		SBR	X1	7	4	2047	H 089		1280
6861	51	48		MCM	1&X2	7	4	2051	P 0!1		1280
6862	51	49		MN		7	1	2055	D		1280
6863	51	50		SAR	X2	7	4	2056	Q 094		1280
6864	51	51		BCE	PMOV,0&X2,|	7	8	2060	B !39 0!0 |		1280
6865	51	52		C	0&X2	7	4	2068	C 0!0		1281
6866	51	53		SAR	X2	7	4	2072	Q 094		1281
6867	51	54		MCW	X3,HEX3#3	7	7	2076	M 099 ?40		1281
6868	51	55		MCW	@|@,0&X1	7	7	2083	M ?41 0|0		1281
6869	51	56		LCA	0&X2	7	4	2090	L 0!0		1281

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
6870	51	57		SBR	X3	7	4	2094	H 099		1281
6871	51	58		CW	0&X1,1&X3	7	7	2098	) 0|0 0?1		1281
6872	51	59		C	0&X2	7	4	2105	C 0!0		1282
6873	51	60		SAR	X3	7	4	2109	Q 099		1282
6874	51	61		BCE	EOSTR,0&X3,}	7	8	2113	B J58 0?0 }	GMARK	1282
6875	51	62		SBR	X2,0&X3	7	7	2121	H 094 0?0		1282
6876	51	63		MCW	HEX3,X3	7	7	2128	M ?40 099		1282
6877	51	64		B	DECR	7	4	2135	B Z27		1282
6878	51	65	KWM2	CW	1&X2	7	4	2139	) 0!1		1282
6879	51	66		B	CX2	7	4	2143	B !01		1283
6880	51	67	SUB3	MZ	3&X2,2&X1	7	7	2147	Y 0!3 0|2		1283
6881	51	68		B	BMPX1	7	4	2154	B !32		1283
6882	51	69	* ALL OF STATEMENT TO OUTPUT AREA								
6883	51	70	EOSTR	C	0&X1,BLK4#4	7	7	2158	C 0|0 ?45		1283
6884	51	71		SAR	X1	7	4	2165	Q 089		1283
6885	51	72		LCA	@|@,0&X1	7	7	2169	L ?41 0|0		1283
6886	51	73		MCW	0&X2	7	4	2176	M 0!0		1283
6887	51	74		MCW	HEX2,X2	7	7	2180	M ?24 094		1284
6888	51	75		BW	DOCOD,6&X2	7	8	2187	V K17 0!6 1		1284
6889	51	76		SW	3&X2	7	4	2195	, 0!3		1284
6890	51	77		SBR	X1,9&X1	7	7	2199	H 089 0|9		1284
6891	51	78		LCA	11&X2	7	4	2206	L 0J1		1284
6892	51	79		SBR	X2,11&X2	7	7	2210	H 094 0J1		1284
6893	51	80	DOCOD	SBR	X1,6&X1	7	7	2217	H 089 0|6		1285
6894	51	81		LCA	6&X2	7	4	2224	L 0!6		1285
6895	51	82		LCA		7	1	2228	L		1285
6896	51	83		SBR	X2,6&X2	7	7	2229	H 094 0!6		1285
6897	51	84		B	NUSTM	7	4	2236	B 871		1285
6898	51	85	GM1	DC	@} @	7	1	2240		GMARK	1285
6899	51	86	TABLE	DA	1X332,C	7		2241	2572		1285
6900	51	87	TBLR	EQU	*	7		2572			
6901	51	88	* GETS OPERAND LEFT, OPERATOR, OPERAND RIGHT								
6902	51	89	FIX	SBR	FIXT&3	7	4	2573	H P27		1294
6903	51	90		BCE	SUB1,1&X2,\$	7	8	2577	B P28 0!1 \$		1294
6904	51	91		LCA	3&X2,LEFT#18	7	7	2585	L 0!3 ?63		1294
6905	51	92		MCW	4&X2,OP#1	7	7	2592	M 0!4 ?64		1295
6906	51	93		SBR	X2,4&X2	7	7	2599	H 094 0!4		1295
6907	51	94		BW	*&5,MIDSW	7	8	2606	V 0!8 ?18 1		1295
6908	51	95	CW5	CW	0	7	4	2614	) 000		1295
6909	51	96		SW	MIDSW	7	4	2618	, ?18		1295
6910	51	97		BW	UNARY,1&X2	7	8	2622	V 072 0!1 1		1295
6911	51	98		SW	1&X2	7	4	2630	, 0!1		1296
6912	51	99		SBR	CW&3,1&X2	7	7	2634	H P23 0!1		1296
6913	52	00		MN	0&X2,BCE3&7	7	7	2641	D 0!0 062		1296
6914	52	01		MZ	0&X2,BCE3&7	7	7	2648	Y 0!0 062		1296
6915	52	02	BCE3	BCE	ISTWO,@&-*@.#@,0	7	8	2655	B 083 ?70 0		1296
6916	52	03		CHAIN	5	7				MACRO	
6917				BCE		7	1	2663	B	GEN	1296
6918				BCE		7	1	2664	B	GEN	1296
6919				BCE		7	1	2665	B	GEN	1297

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
6920				BCE		7	1	2666	B	GEN	1297
6921				BCE		7	1	2667	B	GEN	1297
6922	52	04		SW	PRTSW	7	4	2668	, R36		1297
6923	52	05	UNARY	LCA	@***@,RIGHT	7	7	2672	L ?12 ?88		1297
6924	52	06		B	FIXT	7	4	2679	B P24		1297
6925	52	07	ISTWO	BCE	SUB1,1&X2,\$	7	8	2683	B P28 0!1 \$		1297
6926	52	08		LCA	3&X2,RIGHT#18	7	7	2691	L 0!3 ?88		1298
6927	52	09		SBR	X2,3&X2	7	7	2698	H 094 0!3		1298
6928	52	10		BW	CW,1&X2	7	8	2705	V P20 0!1 1		1298
6929	52	11		SW	1&X2,PRTSW	7	7	2713	, 0!1 R36		1298
6930	52	12	CW	CW	0	7	4	2720	) 000		1298
6931	52	13	FIXT	B	0	7	4	2724	B 000		1298
6932	52	14	SUB1	SBR	SUBXT&3	7	4	2728	H P57		1299
6933	52	15		SBR	X2,8&X2	7	7	2732	H 094 0!8		1299
6934	52	16		BCE	SUBXT,3&X2,\$	7	8	2739	B P54 0!3 \$		1299
6935	52	17		SBR	X2,6&X2	7	7	2747	H 094 0!6		1299
6936	52	18	SUBXT	B	0	7	4	2754	B 000		1299
6937	52	19	* CONVERTS ANY DELTA NUMBER TO THREE CHARACTERS								
6938	52	20	CVTDL	SBR	X1	7	4	2758	H 089		1299
6939	52	21		SBR	CVTXT&3,3&X1	7	7	2762	H Q36 0!3		1300
6940	52	22		MCW	2&X1,X1	7	7	2769	M 0!2 089		1300
6941	52	23		MN	0&X1,CVT3#3	7	7	2776	D 0!0 ?91		1300
6942	52	24		MN		7	1	2783	D		1300
6943	52	25		MCW	@0@	7	4	2784	M ?92		1300
6944	52	26		BWZ	CVTXT,0&X1,2	7	8	2788	V Q33 0!0 2		1300
6945	52	27		A	&100,CVT3	7	7	2796	A ?95 ?91		1301
6946	52	28		BWZ	CVTXT,0&X1,S	7	8	2803	V Q33 0!0 S		1301
6947	52	29		A	&100,CVT3	7	7	2811	A ?95 ?91		1301
6948	52	30		BWZ	CVTXT,0&X1,K	7	8	2818	V Q33 0!0 K		1301
6949	52	31		A	&100,CVT3	7	7	2826	A ?95 ?91		1301
6950	52	32	CVTXT	B	0	7	4	2833	B 000		1302
6951	52	33	* FINDS TEMP TO BE OPTIMIZED								
6952	52	34	GETDL	SBR	GDLXT&3	7	4	2837	H Q73		1302
6953	52	35		SBR	X3,0&X2	7	7	2841	H 099 0!0		1302
6954	52	36		MCW	CURDL,X1	7	7	2848	M R72 089		1302
6955	52	37		BW	GETWM,PRTSW	7	8	2855	V Q90 R36 1		1302
6956	52	38	CMP2	C	X1,CVT3	7	7	2863	C 089 ?91		1302
6957	52	39	GDLXT	BE	0	7	5	2870	B 000 S		1303
6958	52	40		BCE	ADD1,TABLE&X1,1	7	8	2875	B R17 KU1 1		1303
6959	52	41		A	@I99@,X1	7	7	2883	A R69 089		1303
6960	52	42	GETWM	BW	GOTWM,2&X3	7	8	2890	V R06 0?2 1		1303
6961	52	43		SBR	X3	7	4	2898	H 099		1303
6962	52	44		B	GETWM	7	4	2902	B Q90		1303
6963	52	45	GOTWM	SBR	X3,1&X3	7	7	2906	H 099 0?1		1304
6964	52	46		B	CMP2	7	4	2913	B Q63		1304
6965	52	47	ADD1	A	@I99@,X1	7	7	2917	A R69 089		1304
6966	52	48		B	CMP2	7	4	2924	B Q63		1304
6967	52	49	CW2	CW	1&X3	7	4	2928	) 0?1		1304
6968	52	50		B	CKRT	7	4	2932	B |70		1304
6969	52	51	PRTSW	DC	#1	7	1	2936			1304

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
6970	52	52	FENDX	FENDX	C,,,,,SYSGM, ARITH 5	7				MACRO	
6971			FENDX	BSS	333,C	7	5	2937	B 333 C	GEN	1304
6972				SBR	TCLEAR,SYSGM	7	7	2942	H 710 A03	GEN	1305
6973				LCA	@ARITH 5@,110	7	7	2949	L A02 110	GEN	1305
6974				B	MONTER	7	4	2956	B 700	GEN	1305
6975	52	53		LTORG	*	7			2960		
			SAVX37	DCW	#03	7	3	2962		AREA	1305
			HEX1 7	DCW	#03	7	3	2965		AREA	1305
			HLDOP7	DCW	#01	7	1	2966		AREA	1305
				DCW	@I99@	7	3	2969		LIT	1305
			CURDL7	DCW	#03	7	3	2972		AREA	1306
				DCW	&1	7	1	2973		LIT	1306
			HLD357	DCW	#35	7	35	3008		AREA	1306
				DCW	@&@	7	1	3009		LIT	1307
				DCW	@***@	7	3	3012		LIT	1307
				DCW	@N@	7	1	3013		LIT	1307
				DCW	@&-*@@	7	4	3017		LIT	1307
			MIDSW7	DCW	#01	7	1	3018		AREA	1307
			MAXDL7	DCW	#03	7	3	3021		AREA	1307
			HEX2 7	DCW	#03	7	3	3024		AREA	1307
				DCW	@L@	7	1	3025		LIT	1308
				DCW	@01@	7	2	3027		LIT	1308
				DCW	@001@	7	3	3030		LIT	1308
			DL2 7	DCW	#02	7	2	3032		AREA	1308
				DCW	@B700@	7	4	3036		LIT	1308
				DCW	@#@	7	1	3037		LIT	1308
			HEX3 7	DCW	#03	7	3	3040		AREA	1308
				DCW	@|@	7	1	3041		LIT	1309
			BLK4 7	DCW	#04	7	4	3045		AREA	1309
			LEFT 7	DCW	#18	7	18	3063		AREA	1309
			OP 7	DCW	#01	7	1	3064		AREA	1309
				DCW	@&-*@.#@	7	6	3070		LIT	1309
			RIGHT7	DCW	#18	7	18	3088		AREA	1310
			CVT3 7	DCW	#03	7	3	3091		AREA	1310
				DCW	@0@	7	1	3092		LIT	1310
				DCW	&100	7	3	3095		LIT	1310
				DCW	@ARITH 5@	7	7	3102		LIT	1310
6976	52	54	AOP	EQU	RIGHT	7		3088			
6977	52	55	BOP	EQU	LEFT	7		3063			
6978	52	56	SYSGM	DCW	@}@	7	1	3103		GMARK	1310
6979	52	57		ORG	*&50	7			3154		
6980	52	58	NDRITH	EQU	*	7		3153			
6981	52	59		XFR	START	7			B 838		1311

SYSTEM GROUP MARK

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
6982	52	60		JOB	ARITH PHASE FIVE	7					
6983	52	61		FBEGN	ARITH 5,X1,,X2,,X3,,Y	7				MACRO	
6984				SFX	Y	Y				GEN	
6985			110	DCW	@ARITH 5@	Y	7	0110		GEN	1314
6986			X1	EQU	089	Y		0089		GEN	
6987			X2	EQU	094	Y		0094		GEN	
6988			X3	EQU	099	Y		0099		GEN	
6989	52	62		ORG	XBEGIN	Y			0838		
6990	52	63	START	BCE	NOARI,X2,.	Y	8	0838	B U99 094 .		1315
6991	52	64		C	0&X2	Y	4	0846	C 0!0		1315
6992	52	65		SAR	X2	Y	4	0850	Q 094		1315
6993	52	66		SBR	SAVX3#3	Y	4	0854	H 089		1315
6994	52	67		C	0&X1	Y	4	0858	C 0!0		1315
6995	52	68		SAR	X1	Y	4	0862	Q 089		1315
6996	52	69		* BEGINNING OF PROCESSING OF EACH STATEMENT							
6997	52	70	NUSTM	MCW	0&X1, CODE	Y	7	0866	M 0!0 086		1315
6998	52	71		MCW		Y	1	0873	M		1316
6999	52	72		BCE	MVDWN, CODE-3, E	Y	8	0874	B 894 083 E		1316
7000	52	73		BCE	* &5, CODE-3, R	Y	8	0882	B 894 083 R		1316
7001	52	74		B	FENDX	Y	4	0890	B U78		1316
7002	52	75	MVDWN	MVDWN	X1, X2	Y				MACRO	
7003			MVDWN	LCA	0&X1, 0&X2	Y	7	0894	L 0!0 0!0	GEN	1316
7004				SAR	X1	Y	4	0901	Q 089	GEN	1316
7005				C	0&X2	Y	4	0905	C 0!0	GEN	1316
7006				SAR	X2	Y	4	0909	Q 094	GEN	1317
7007	52	76		LCA	1&X2, 2&X2	Y	7	0913	L 0!1 0!2		1317
7008	52	77		SBR	X2	Y	4	0920	H 094		1317
7009	52	78		CW	MODSW#1	Y	4	0924	) 090		1317
7010	52	79		BCE	IFTYP, 2&X1, E	Y	8	0928	B V22 0!2 E		1317
7011	52	80	CKXF	MVDWN	X1, X2	Y				MACRO	
7012			CKXF	LCA	0&X1, 0&X2	Y	7	0936	L 0!0 0!0	GEN	1317
7013				SAR	X1	Y	4	0943	Q 089	GEN	1317
7014				C	0&X2	Y	4	0947	C 0!0	GEN	1318
7015				SAR	X2	Y	4	0951	Q 094	GEN	1318
7016	52	81		SBR	X3, 0&X1	Y	7	0955	H 099 0!0		1318
7017	52	82		SBR	HEX3#3	Y	4	0962	H 093		1318
7018	52	83		BCE	EOSTR, 0&X1, } GM	Y	8	0966	B U21 0!0 } GMARK		1318
7019	52	84		* GENERATE FIX OR FLOAT FUNCTION IF LEFT SIDE AND RIGHT							
7020	52	85		* SIDE ARE NOT OF SAME MODE							
7021	52	86	NEXT	MN	0&X3, BCE5&7	Y	7	0974	D 0?0 999		1318
7022	52	87		MZ	0&X3, BCE5&7	Y	7	0981	Y 0?0 999		1319
7023	52	88		SAR	X3	Y	4	0988	Q 099		1319
7024	52	89	BCE5	BCE	GOTSQ, @&-@* .#@, 0	Y	8	0992	B |09 099 0		1319
7025	52	90		CHAIN	5	Y				MACRO	
7026				BCE		Y	1	1000	B	GEN	1319
7027				BCE		Y	1	1001	B	GEN	1319
7028				BCE		Y	1	1002	B	GEN	1319
7029				BCE		Y	1	1003	B	GEN	1319
7030				BCE		Y	1	1004	B	GEN	1320
7031	52	91		B	NEXT	Y	4	1005	B 974		1320

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
7032	52	92	GOTSQ	BCE	WORRY,1&X3,.	Y	8	1009	B /09 0?1 .		1320
7033	52	93		MZ	4&X3,OPMD#1	Y	7	1017	Y 0?4 P00		1320
7034	52	94		BCE	SUB5,2&X3,\$	Y	8	1024	B /90 0?2 \$		1320
7035	52	95		MZ	3&X3,OPMD	Y	7	1032	Y 0?3 P00		1320
7036	52	96	BMP4	SBR	X3,4&X3	Y	7	1039	H 099 0?4		1321
7037	52	97	CMP5	C	X3,HEX3	Y	7	1046	C 099 093		1321
7038	52	98		BE	SCNEQ	Y	5	1053	B S16 S		1321
7039	52	99		SBR	X3,1&X3	Y	7	1058	H 099 0?1		1321
7040	53	00		FBCEQ	MODCH,0&X3,F,X	Y				MACRO	
7041				BCE	MODCH, 0&X3, F	Y	8	1065	B |85 0?0 F GEN		1321
7042				BCE	MODCH, 0&X3, X	Y	8	1073	B |85 0?0 X GEN		1322
7043	53	01		B	CMP5	Y	4	1081	B |46		1322
7044	53	02	MODCH	BW	CW1,MODSW	Y	8	1085	V /01 090 1		1322
7045	53	03		SW	MODSW	Y	4	1093	, 090		1322
7046	53	04		B	CMP5	Y	4	1097	B |46		1322
7047	53	05	CW1	CW	MODSW	Y	4	1101	) 090		1322
7048	53	06		B	CMP5	Y	4	1105	B |46		1322
7049	53	07	WORRY	SBR	BMPUM&6,0&X3	Y	7	1109	H /41 0?0		1323
7050	53	08		BCE	GRIEF,0&X3,\$	Y	8	1116	B /54 0?0 \$		1323
7051	53	09		SBR	X3	Y	4	1124	H 099		1323
7052	53	10	SNDUM	MZ	0&X3,OPMD	Y	7	1128	Y 0?0 P00		1323
7053	53	11	BMPUM	SBR	X3,0	Y	7	1135	H 099 000		1323
7054	53	12		BCE	SUB5,2&X3,\$	Y	8	1142	B /90 0?2 \$		1324
7055	53	13		B	BMP4	Y	4	1150	B |39		1324
7056	53	14	GRIEF	C	0&X3,BLK8	Y	7	1154	C 0?0 Q66		1324
7057	53	15		SAR	X3	Y	4	1161	Q 099		1324
7058	53	16		BCE	SNDUM,0&X3,\$	Y	8	1165	B /28 0?0 \$		1324
7059	53	17		B	DUMMY	Y	1	1173	B		1324
7060	53	18		B		Y	1	1174	B		1324
7061	53	19		C	0&X3,BLK6	Y	7	1175	C 0?0 Q72		1325
7062	53	20		SAR	X3	Y	4	1182	Q 099		1325
7063	53	21		B	SNDUM	Y	4	1186	B /28		1325
7064	53	22	SUB5	SBR	X3,12&X3	Y	7	1190	H 099 0A2		1325
7065	53	23		BCE	CMP5,0&X3,\$	Y	8	1197	B |46 0?0 \$		1325
7066	53	24		SBR	X3,6&X3	Y	7	1205	H 099 0?6		1325
7067	53	25		B	CMP5	Y	4	1212	B |46		1326
7068	53	26	SCNEQ	BCE	GOTEQ,0&X3,#	Y	8	1216	B S32 0?0 #		1326
7069	53	27		SBR	X3	Y	4	1224	H 099		1326
7070	53	28		B	SCNEQ	Y	4	1228	B S16		1326
7071	53	29	GOTEQ	MCW	0&X3,HLD18#18	Y	7	1232	M 0?0 P18		1326
7072	53	30		BCE	SUB1,HLD18-1,\$	Y	8	1239	B 057 P17 \$		1326
7073	53	31		MZ	HLD18-2,FSTMD#1	Y	7	1247	Y P16 P19		1327
7074	53	32	NOWOP	BWZ	CKFIX,FSTMD,S	Y	8	1254	V T40 P19 S		1327
7075	53	33		BWZ	CKFIX,FSTMD,K	Y	8	1262	V T40 P19 K		1327
7076	53	34		BWZ	CKSWF,OPMD,2	Y	8	1270	V T16 P00 2		1327
7077	53	35		BWZ	CKSWF,OPMD,B	Y	8	1278	V T16 P00 B		1327
7078	53	36		BW	NOCVT,MODSW	Y	8	1286	V T82 090 1		1328
7079	53	37	MKFLT	MCW	@F@,0&X2	Y	7	1294	M P20 0!0		1328
7080	53	38		SBR	X2	Y	4	1301	H 094		1328
7081	53	39		CW	1&X2,XFLTFU	Y	7	1305	) 0!1 125		1328

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
7082	53	40		B	NOCVT	Y	4	1312	B T82		1328
7083	53	41	CKSWF	BW	MKFLT,MODSW	Y	8	1316	V S94 090 1		1328
7084	53	42		B	NOCVT	Y	4	1324	B T82		1329
7085	53	43	CKSWX	BW	MKFIX,MODSW	Y	8	1328	V T64 090 1		1329
7086	53	44		B	NOCVT	Y	4	1336	B T82		1329
7087	53	45	CKFIX	BWZ	CKSWX,OPMD,S	Y	8	1340	V T28 P00 S		1329
7088	53	46		BWZ	CKSWX,OPMD,K	Y	8	1348	V T28 P00 K		1329
7089	53	47		BW	NOCVT,MODSW	Y	8	1356	V T82 090 1		1330
7090	53	48	MKFIX	MCW	@X@,0&X2	Y	7	1364	M P21 0!0		1330
7091	53	49		SBR	X2	Y	4	1371	H 094		1330
7092	53	50		CW	1&X2,XFIXFU	Y	7	1375	) 0!1 124		1330
7093	53	51	SCAN	EQU	*&1	Y		1382			
7094	53	52		SBR	X3,0&X1	Y	7	1382	H 099 0!0		1330
7095	53	53	SCAN2	BCE	EXPN,0&X1,.	Y	8	1389	B Y08 0!0 .		1331
7096	53	54		BCE	DIV,0&X1,@	Y	8	1397	B U63 0!0 @		1331
7097	53	55		BCE	EOSTR,0&X1,}	Y	8	1405	B U21 0!0 }	GMARK	1331
7098	53	56		SBR	X1	Y	4	1413	H 089		1331
7099	53	57		B	SCAN2	Y	4	1417	B T89		1331
7100	53	58	* END		OF STATEMENT ROUTINE						
7101	53	59	EOSTR	MVDWN	X3,X2	Y				MACRO	
7102			EOSTR	LCA	0&X3,0&X2	Y	7	1421	L 0?0 0!0	GEN	1331
7103				SAR	X3	Y	4	1428	Q 099	GEN	1332
7104				C	0&X2	Y	4	1432	C 0!0	GEN	1332
7105				SAR	X2	Y	4	1436	Q 094	GEN	1332
7106	53	60		BCE	*&5,1&X3,}	Y	8	1440	B U52 0?1 }	GMARK	1332
7107	53	61		B	EOSTR	Y	4	1448	B U21		1332
7108	53	62		SBR	X1,0&X3	Y	7	1452	H 089 0?0		1332
7109	53	63		B	NUSTM	Y	4	1459	B 866		1332
7110	53	64	* SUBSTITUTE / FOR @ AS DIVIDE SYMBOL								
7111	53	65	DIV	MCW	@/@,0&X1	Y	7	1463	M P22 0!0		1333
7112	53	66		SBR	X1	Y	4	1470	H 089		1333
7113	53	67		B	SCAN2	Y	4	1474	B T89		1333
7114	53	68	FENDX	SBR	X1,5&X1	Y	7	1478	H 089 0!5		1333
7115	53	69		MCW	SAVX3,X3	Y	7	1485	M 089 099		1333
7116	53	70		SBR	X3,2&X3	Y	7	1492	H 099 0?2		1333
7117	53	71	NOARI	FENDX	C,,,,,SYSGM,ARITH6	Y				MACRO	
7118			NOARI	BSS	333,C	Y	5	1499	B 333 C	GEN	1334
7119				SBR	TCLEAR,SYSGM	Y	7	1504	H 710 Q73	GEN	1334
7120				LCA	@ARITH6@,110	Y	7	1511	L P28 110	GEN	1334
7121				B	MONTER	Y	4	1518	B 700	GEN	1334
7122	53	72	* GENERATE IF EXITS								
7123	53	73	IFTYP	C	0&X1	Y	4	1522	C 0!0		1334
7124	53	74		SAR	X1	Y	4	1526	Q 089		1334
7125	53	75		MCW	9&X1,MINUS	Y	7	1530	M 0!9 N08		1334
7126	53	76		MCW	6&X1,ZERO	Y	7	1537	M 0!6 N00		1335
7127	53	77		MCW	3&X1,PLUS	Y	7	1544	M 0!3 M92		1335
7128	53	78		MZ	@K@,MINUS-1	Y	7	1551	Y P29 N07		1335
7129	53	79		MZ	@K@,ZERO-1	Y	7	1558	Y P29 M99		1335
7130	53	80		MZ	@K@,PLUS-1	Y	7	1565	Y P29 M91		1335
7131	53	81		MCW	PLUS,ELSE&3	Y	7	1572	M M92 M88		1336

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
7132	53	82		LCA	BLK20#20,HLD20	Y	7	1579	L P49 M84		1336
7133	53	83		SBR	X3,HLD20-20	Y	7	1586	H 099 M64		1336
7134	53	84		C	PLUS,ZERO	Y	7	1593	C M92 N00		1336
7135	53	85		BE	PZ	Y	5	1600	B X79 S		1336
7136	53	86		C	ZERO,MINUS	Y	7	1605	C N00 N08		1337
7137	53	87		BE	MKPLS	Y	5	1612	B W42 S		1337
7138	53	88		SBR	X3,8&X3	Y	7	1617	H 099 0?8		1337
7139	53	89		MCW	IFZRO	Y	4	1624	M N04		1337
7140	53	90		MCW		Y	1	1628	M		1337
7141	53	91		LCA		Y	1	1629	L		1337
7142	53	92		C	PLUS,MINUS	Y	7	1630	C M92 N08		1337
7143	53	93		BE	MVLS	Y	5	1637	B W62 S		1338
7144	53	94	MKPLS	SBR	X3,8&X3	Y	7	1642	H 099 0?8		1338
7145	53	95		MCW	IFPLS	Y	4	1649	M M96		1338
7146	53	96		MCW		Y	1	1653	M		1338
7147	53	97		LCA		Y	1	1654	L		1338
7148	53	98		MCW	MINUS,ELSE&3	Y	7	1655	M N08 M88		1338
7149	53	99	MVLS	MCW	X3,HEX3	Y	7	1662	M 099 093		1338
7150	54	00		BWZ	*&5,CODE,2	Y	8	1669	V W81 086 2		1339
7151	54	01		B	*&9	Y	4	1677	B W89		1339
7152	54	02		BWZ	LSADD,CODE-2,2	Y	8	1681	V X03 084 2		1339
7153	54	03		MCW	CODE,X3	Y	7	1689	M 086 099		1339
7154	54	04		MCW	0&X3,CODE	Y	7	1696	M 0?0 086		1339
7155	54	05	LSADD	A	&1,CODE	Y	7	1703	A P50 086		1340
7156	54	06		MCW	ELSE&3,X3	Y	7	1710	M M88 099		1340
7157	54	07		C	0&X3,CODE	Y	7	1717	C 0?0 086		1340
7158	54	08		MCW	HEX3,X3	Y	7	1724	M 093 099		1340
7159	54	09		BE	NOBR	Y	5	1731	B X48 S		1340
7160	54	10	ALL3	SBR	X3,4&X3	Y	7	1736	H 099 0?4		1341
7161	54	11		MCW	ELSE&3	Y	4	1743	M M88		1341
7162	54	12		LCA		Y	1	1747	L		1341
7163	54	13	NOBR	MVDWN	X3,X2	Y				MACRO	
7164			NOBR	LCA	0&X3,0&X2	Y	7	1748	L 0?0 0!0	GEN	1341
7165				SAR	X3	Y	4	1755	Q 099	GEN	1341
7166				C	0&X2	Y	4	1759	C 0!0	GEN	1341
7167				SAR	X2	Y	4	1763	Q 094	GEN	1341
7168	54	14		BCE	CKXF,0&X3,|	Y	8	1767	B 936 0?0 |		1342
7169	54	15		B	NOBR	Y	4	1775	B X48		1342
7170	54	16	PZ	C	PLUS,MINUS	Y	7	1779	C M92 N08		1342
7171	54	17		BE	ALL3	Y	5	1786	B X36 S		1342
7172	54	18		SBR	X3,8&X3	Y	7	1791	H 099 0?8		1342
7173	54	19		MCW	IFMNS	Y	4	1798	M N12		1342
7174	54	20		MCW		Y	1	1802	M		1342
7175	54	21		LCA		Y	1	1803	L		1343
7176	54	22		B	MVLS	Y	4	1804	B W62		1343
7177	54	23	* PROCESS	EXPONENTIATION							
7178	54	24	EXPN	SW	1&X1	Y	4	1808	, 0|1		1343
7179	54	25		BCE	XSUB,1&X1,\$	Y	8	1812	B N13 0|1 \$		1343
7180	54	26		LCA	3&X1,XPON#17	Y	7	1820	L 0|3 P67		1343
7181	54	27		MZ	2&X1,XPMOD#1	Y	7	1827	Y 0|2 P68		1343

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
7182	54	28		SBR	HEX31#3,3&X1	Y	7	1834	H P71 0|3		1343
7183	54	29		C	HEX31,X3	Y	7	1841	C P71 099		1344
7184	54	30		BE	SKIP	Y	5	1848	B Y80 S		1344
7185	54	31		SW	4&X1	Y	4	1853	, 0|4		1344
7186	54	32	MVBAL	MVDWN	X3,X2	Y				MACRO	
7187			MVBAL	LCA	0&X3,0&X2	Y	7	1857	L 0?0 0!0	GEN	1344
7188				SAR	X3	Y	4	1864	Q 099	GEN	1344
7189				C	0&X2	Y	4	1868	C 0!0	GEN	1344
7190				SAR	X2	Y	4	1872	Q 094	GEN	1344
7191	54	33		CW	1&X2	Y	4	1876	) 0!1		1345
7192	54	34	SKIP	C	0&X1,BLK4#4	Y	7	1880	C 0|0 P75		1345
7193	54	35		SAR	X1	Y	4	1887	Q 089		1345
7194	54	36		BCE	BSUB,3&X1,\$	Y	8	1891	B N78 0|3 \$		1345
7195	54	37		MZ	2&X1,BMOD#1	Y	7	1899	Y 0|2 P76		1345
7196	54	38		SW	1&X1	Y	4	1906	, 0|1		1345
7197	54	39	LOAD	LCA	3&X1,BASE#17	Y	7	1910	L 0|3 P93		1346
7198	54	40		SAR	X1	Y	4	1917	Q 089		1346
7199	54	41		BWZ	FIXXP,XPMOD,S	Y	8	1921	V !77 P68 S		1346
7200	54	42		BWZ	FIXXP,XPMOD,K	Y	8	1929	V !77 P68 K		1346
7201	54	43		CW	XLOGFN,XXPNTL	Y	7	1937	) 119 120		1346
7202	54	44		CW	XCOMF1	Y	4	1944	) 117		1346
7203	54	45	* PROCESS FLOATING EXPONENTIATION								
7204	54	46		BWZ	FLT,BMOD,2	Y	8	1948	V !32 P76 2		1347
7205	54	47		BWZ	FLT,BMOD,B	Y	8	1956	V !32 P76 B		1347
7206	54	48		BWZ	*&5,CODE,2	Y	8	1964	V Z76 O86 2		1347
7207	54	49		B	*&9	Y	4	1972	B Z84		1347
7208	54	50		BWZ	FTMSG,CODE-2,2	Y	8	1976	V Z98 O84 2		1347
7209	54	51		MCW	CODE,X3	Y	7	1984	M O86 099		1348
7210	54	52		MCW	0&X3,CODE	Y	7	1991	M 0?0 O86		1348
7211	54	53	FTMSG	FTMSG	30, FIX TO FLOAT POWER, CODE, 20	Y				MACRO	
7212			FTMSG	CS	332	Y	4	1998	/ 332	GEN	1348
7213				CS		Y	1	2002	/	GEN	1348
7214				SW	FAILSW	Y	4	2003	, 184	GEN	1348
7215				MN	CODE,224&20	Y	7	2007	D O86 244	GEN	1348
7216				MN		Y	1	2014	D	GEN	1348
7217				MN		Y	1	2015	D	GEN	1349
7218				MCW	@ERROR 30 - FIX TO FLOAT POWER, STATEMENT @	Y	4	2016	M Q34	GEN	1349
7219				W		Y	1	2020	2	GEN	1349
7220				BCV	*&5	Y	5	2021	B !30 @	GEN	1349
7221				B	*&3	Y	4	2026	B !32	GEN	1349
7222				CC	1	Y	2	2030	F 1	GEN	1349
7223	54	54	FLT	LCA	@E@,0&X2	Y	7	2032	L Q35 0!0		1349
7224	54	55		LCA	XPON	Y	4	2039	L P67		1350
7225	54	56		LCA	@G*@	Y	4	2043	L Q37		1350
7226	54	57		SBR	X2	Y	4	2047	H 094		1350
7227	54	58		CW	3&X2,1&X1	Y	7	2051	) 0!3 0!1		1350
7228	54	59		LCA	BASE,0&X2	Y	7	2058	L P93 0!0		1350
7229	54	60		SBR	X2	Y	4	2065	H 094		1350
7230	54	61		CW	1&X2	Y	4	2069	) 0!1		1350
7231	54	62		B	SCAN	Y	4	2073	B T82		1351

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
7232	54	63	*	PROCESS	FIXED POINT EXPONENTIATION						
7233	54	64	FIXXP	BWZ	SWEAT,XPMOD,K	Y	8	2077	V K54 P68 K		1351
7234	54	65		BCE	SWEAT,XPON-2,< 12-6-8	Y	8	2085	B K54 P65 <		1351
7235	54	66		MCW	XPON,X3	Y	7	2093	M P67 099		1351
7236	54	67		MA	PLUSDF,X3	Y	7	2100	# 160 099		1351
7237	54	68		C	@3@,0&X3	Y	7	2107	C Q38 0?0		1352
7238	54	69		BH	SWEAT	Y	5	2114	B K54 U		1352
7239	54	70		LCA	BASE,0&X2	Y	7	2119	L P93 0!0		1352
7240	54	71		LCA	@*@	Y	4	2126	L Q39		1352
7241	54	72		SBR	X2	Y	4	2130	H 094		1352
7242	54	73		SBR	SAV2#3	Y	4	2134	H Q42		1352
7243	54	74		CW	1&X2,2&X2	Y	7	2138	) 0!1 0!2		1352
7244	54	75		LCA	BASE,0&X2	Y	7	2145	L P93 0!0		1353
7245	54	76		SBR	X2	Y	4	2152	H 094		1353
7246	54	77		CW	1&X2	Y	4	2156	) 0!1		1353
7247	54	78		BCE	HUH,0&X3,0	Y	8	2160	B K18 0?0 0		1353
7248	54	79		BCE	HUH2,0&X3,1	Y	8	2168	B K36 0?0 1		1353
7249	54	80		BCE	SCAN,0&X3,2	Y	8	2176	B T82 0?0 2		1353
7250	54	81		LCA	@*@,0&X2	Y	7	2184	L Q39 0!0		1354
7251	54	82		SBR	X2	Y	4	2191	H 094		1354
7252	54	83		CW	1&X2	Y	4	2195	) 0!1		1354
7253	54	84		LCA	BASE,0&X2	Y	7	2199	L P93 0!0		1354
7254	54	85		SBR	X2	Y	4	2206	H 094		1354
7255	54	86		CW	1&X2	Y	4	2210	) 0!1		1354
7256	54	87		B	SCAN	Y	4	2214	B T82		1354
7257	54	88	HUH	MCW	SAV2,X3	Y	7	2218	M Q42 099		1355
7258	54	89		MCW	@/@,1&X3	Y	7	2225	M P22 0?1		1355
7259	54	90		B	SCAN	Y	4	2232	B T82		1355
7260	54	91	HUH2	MCW	SAV2,X2	Y	7	2236	M Q42 094		1355
7261	54	92		SBR	X2,1&X2	Y	7	2243	H 094 0!1		1355
7262	54	93		B	SCAN	Y	4	2250	B T82		1355
7263	54	94	SWEAT	CW	XLOGFN,XXPNTL	Y	7	2254	) 119 120		1356
7264	54	95		CW	XCOMF1,XFLTFU	Y	7	2261	) 117 125		1356
7265	54	96		BWZ	CTU1,BMOD,2	Y	8	2268	V L21 P76 2		1356
7266	54	97		BWZ	CTU1,BMOD,B	Y	8	2276	V L21 P76 B		1356
7267	54	98		LCA	@X@,0&X2	Y	7	2284	L P21 0!0		1356
7268	54	99		SBR	X2	Y	4	2291	H 094		1357
7269	55	00		CW	0&X2,XFIXFU	Y	7	2295	) 0!0 124		1357
7270	55	01		LCA	XEXPON,0&X2	Y	7	2302	L 157 0!0		1357
7271	55	02		LCA	@&@	Y	4	2309	L Q43		1357
7272	55	03		SBR	X2	Y	4	2313	H 094		1357
7273	55	04		CW	2&X2	Y	4	2317	) 0!2		1357
7274	55	05	CTU1	LCA	@E@,0&X2	Y	7	2321	L Q35 0!0		1357
7275	55	06		LCA	@F*<4?@ F,*,12-6-8,4,12-0	Y	4	2328	L Q48		1358
7276	55	07		LCA	XPON	Y	4	2332	L P67		1358
7277	55	08		SBR	X2	Y	4	2336	H 094		1358
7278	55	09		CW	1&X2	Y	4	2340	) 0!1		1358
7279	55	10		C	0&X1,BLK4	Y	7	2344	C 0!0 P75		1358
7280	55	11		SAR	X3	Y	4	2351	Q 099		1358
7281	55	12		BCE	FSUB,3&X3,\$	Y	8	2355	B 023 0?3 \$		1358

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
7282	55	13	SWM	SW	1&X3	Y	4	2363	, 0?1		1359
7283	55	14		MVDWN	X1,X2	Y				MACRO	
7284				LCA	0&X1,0&X2	Y	7	2367	L 0|0 0!0	GEN	1359
7285				SAR	X1	Y	4	2374	Q 089	GEN	1359
7286				C	0&X2	Y	4	2378	C 0!0	GEN	1359
7287				SAR	X2	Y	4	2382	Q 094	GEN	1359
7288	55	15		CW	1&X2	Y	4	2386	) 0!1		1359
7289	55	16		LCA	@G|@	Y	4	2390	L Q50		1359
7290	55	17		SBR	X2	Y	4	2394	H 094		1360
7291	55	18		BWZ	BSFLT,BMOD,2	Y	8	2398	V M25 P76 2		1360
7292	55	19		BWZ	BSFLT,BMOD,B	Y	8	2406	V M25 P76 B		1360
7293	55	20		LCA	@F@,0&X2	Y	7	2414	L P20 0!0		1360
7294	55	21		SBR	X2	Y	4	2421	H 094		1360
7295	55	22	BSFLT	LCA	BASE,0&X2	Y	7	2425	L P93 0!0		1360
7296	55	23		LCA	@<4?#@	Y	4	2432	L Q54		1361
7297	55	24		SBR	X2	Y	4	2436	H 094		1361
7298	55	25		CW	5&X2	Y	4	2440	) 0!5		1361
7299	55	26		C	0&X1,@B700@	Y	7	2444	C 0|0 Q58		1361
7300	55	27		BE	SCAN	Y	5	2451	B T82 S		1361
7301	55	28		CW	1&X2	Y	4	2456	) 0!1		1361
7302	55	29		B	SCAN	Y	4	2460	B T82		1361
7303	55	30		DCW	@|@	Y	1	2464			1362
7304	55	31	HLD20	DCW	#20	Y	20	2484			1362
7305	55	32	ELSE	B		Y	1	2485	B		1362
7306	55	33		DCW	#3	Y	3	2488			1362
7307	55	34		BWZ		Y	1	2489	V		1362
7308	55	35	PLUS	DCW	#3	Y	3	2492			1362
7309	55	36		DSA	277&X3	Y	3	2495	2G7		1362
7310	55	37	IFPLS	DC	@B@	Y	1	2496			1362
7311	55	38		BCE		Y	1	2497	B		1363
7312	55	39	ZERO	DCW	#3	Y	3	2500			1363
7313	55	40		DSA	280	Y	3	2503	280		1363
7314	55	41	IFZRO	DC	@0@	Y	1	2504			1363
7315	55	42		BWZ		Y	1	2505	V		1363
7316	55	43	MINUS	DCW	#3	Y	3	2508			1363
7317	55	44		DSA	277&X3	Y	3	2511	2G7		1363
7318	55	45	IFMNS	DC	@K@	Y	1	2512			1363
7319	55	46	XSUB	MZ	3&X1,XPMOD	Y	7	2513	Y 0|3 P68		1363
7320	55	47		SBR	X1,11&X1	Y	7	2520	H 089 0/1		1364
7321	55	48		BCE	GOTSB,0&X1,\$	Y	8	2527	B N42 0|0 \$		1364
7322	55	49		SBR	X1,6&X1	Y	7	2535	H 089 0|6		1364
7323	55	50	GOTSB	C	X1,X3	Y	7	2542	C 089 099		1364
7324	55	51		BE	*&5	Y	5	2549	B N58 S		1364
7325	55	52		SW	1&X1	Y	4	2554	, 0|1		1364
7326	55	53		LCA	0&X1,XPON	Y	7	2558	L 0|0 P67		1365
7327	55	54		SAR	X1	Y	4	2565	Q 089		1365
7328	55	55		BE	SKIP	Y	5	2569	B Y80 S		1365
7329	55	56		B	MVBAL	Y	4	2574	B Y57		1365
7330	55	57	BSUB	C	0&X1,BLK8#8	Y	7	2578	C 0|0 Q66		1365
7331	55	58		SAR	X3	Y	4	2585	Q 099		1365

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
7332	55	59		BCE	GTSUB,1&X3,\$	Y	8	2589	B 008 0?1 \$		1365
7333	55	60		C	0&X3,BLK6	Y	7	2597	C 0?0 Q72		1366
7334	55	61		SAR	X3	Y	4	2604	Q 099		1366
7335	55	62	GTSUB	MZ	3&X3,BMOD	Y	7	2608	Y 0?3 P76		1366
7336	55	63		SW	1&X3	Y	4	2615	, 0?1		1366
7337	55	64		B	LOAD	Y	4	2619	B Z10		1366
7338	55	65	FSUB	C	0&X3,BLK8	Y	7	2623	C 0?0 Q66		1366
7339	55	66		SAR	X3	Y	4	2630	Q 099		1366
7340	55	67		BCE	SWM,1&X3,\$	Y	8	2634	B L63 0?1 \$		1367
7341	55	68		C	0&X3,BLK6#6	Y	7	2642	C 0?0 Q72		1367
7342	55	69		SAR	X3	Y	4	2649	Q 099		1367
7343	55	70		B	SWM	Y	4	2653	B L63		1367
7344	55	71	SUB1	MZ	HLD18-9,FSTMD	Y	7	2657	Y P09 P19		1367
7345	55	72		BCE	NOWOP,HLD18-11,\$	Y	8	2664	B S54 P07 \$		1367
7346	55	73		MZ	HLD18-15,FSTMD	Y	7	2672	Y P03 P19		1368
7347	55	74		B	NOWOP	Y	4	2679	B S54		1368
7348	55	75		DCW	#1	Y	1	2683			1368
7349	55	76	CODE	DCW	#3	Y	3	2686			1368
7350	55	77		LTORG	*	Y			2687		
			SAVX3Y	DCW	#03	Y	3	2689		AREA	1368
			MODSWY	DCW	#01	Y	1	2690		AREA	1368
			HEX3 Y	DCW	#03	Y	3	2693		AREA	1368
				DCW	@&-@* .#@	Y	6	2699		LIT	1369
			OPMD Y	DCW	#01	Y	1	2700		AREA	1369
			HLD18Y	DCW	#18	Y	18	2718		AREA	1369
			FSTMDY	DCW	#01	Y	1	2719		AREA	1369
				DCW	@F@	Y	1	2720		LIT	1369
				DCW	@X@	Y	1	2721		LIT	1369
				DCW	@/@	Y	1	2722		LIT	1369
				DCW	@ARITH6@	Y	6	2728		LIT	1370
				DCW	@K@	Y	1	2729		LIT	1370
			BLK20Y	DCW	#20	Y	20	2749		AREA	1370
				DCW	&1	Y	1	2750		LIT	1370
			XPON Y	DCW	#17	Y	17	2767		AREA	1371
			XPMODY	DCW	#01	Y	1	2768		AREA	1371
			HEX31Y	DCW	#03	Y	3	2771		AREA	1371
			BLK4 Y	DCW	#04	Y	4	2775		AREA	1371
			BMOD Y	DCW	#01	Y	1	2776		AREA	1371
			BASE Y	DCW	#17	Y	17	2793		AREA	1372
				DCW	@ERROR 30 - FIX TO FLOAT POWER, STATEMENT @	Y	41	2834		LIT	1374
				DCW	@E@	Y	1	2835		LIT	1374
				DCW	@G*@	Y	2	2837		LIT	1374
				DCW	@3@	Y	1	2838		LIT	1374
				DCW	@*@	Y	1	2839		LIT	1374
			SAV2 Y	DCW	#03	Y	3	2842		AREA	1375
				DCW	@&@	Y	1	2843		LIT	1375
				DCW	@F*<4?@	Y	5	2848		LIT	1375
				DCW	@G|@	Y	2	2850		LIT	1375
				DCW	@<4?#@	Y	4	2854		LIT	1375
				DCW	@B700@	Y	4	2858		LIT	1375

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
			BLK8	Y DCW	#08	Y	8	2866		AREA	1375
			BLK6	Y DCW	#06	Y	6	2872		AREA	1376
7351	55	78	SYSGM	DCW	@}@	Y	1	2873		GMARK	1376
7352	55	79		XFR	START	Y			B 838		1377

SYSTEM GROUP MARK

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
7353	55	80		JOB	FORTRAN ARITH PHASE SIX	Y					
7354	55	81		FBEGN	ARITH SIX,X1,,X2,,X3,,S	Y				MACRO	
7355				SFX	S	S				GEN	
7356			110	DCW	@ARITH SIX@	S	9	0110		GEN	1380
7357			X1	EQU	089	S		0089		GEN	
7358			X2	EQU	094	S		0094		GEN	
7359			X3	EQU	099	S		0099		GEN	
7360	55	82	NXTOP	EQU	086	S		0086			
7361	55	83		ORG	XBEGIN	S			0838		
7362	55	84	INISH	BCE	FENDX,X2,.	S	8	0838	B S51 094 .		1381
7363	55	85		SBR	HEX2#3,0&X2	S	7	0846	H N43 0!0		1381
7364	55	86		MN	0&X3	S	4	0853	D 0?0		1381
7365	55	87		MN		S	1	0857	D		1381
7366	55	88		SAR	NOMO#3	S	4	0858	Q N46		1381
7367	55	89		SBR	HEX1#3,0&X1	S	7	0862	H N49 0|0		1381
7368	55	90		MCW	NXTOP,MXTMP	S	7	0869	M 086 N78		1381
7369	55	91		MCW	PARAM&6,TMPSZ#3	S	7	0876	M 692 N52		1382
7370	55	92		MN	&0,TMPSZ-2	S	7	0883	D N53 N50		1382
7371	55	93		A	&2,TMPSZ	S	7	0890	A N54 N52		1382
7372	55	94		C	TMPSZ,PARAM&4	S	7	0897	C N52 690		1382
7373	55	95		BL	START	S	5	0904	B 916 T		1382
7374	55	96		MCW	PARAM&4,TMPSZ	S	7	0909	M 690 N52		1383
7375	55	97	START	C	X2,NOMO	S	7	0916	C 094 N46		1383
7376	55	98		BE	DUN	S	5	0923	B S21 S		1383
7377	55	99		MCW	TABLE&165,TABLE&164	S	7	0928	M N06 N05		1383
7378	56	00	GETUM	BCE	GOTUM,2&X2,< DELTA 12-6-8	S	8	0935	B 959 0!2 <		1383
7379	56	01		SBR	X2	S	4	0943	H 094		1383
7380	56	02		BCE	NXGUY,1&X2,} GM	S	8	0947	B S10 0!1 } GMARK		1384
7381	56	03		B	GETUM	S	4	0955	B 935		1384
7382	56	04	GOTUM	MN	4&X2,DLVAL#3	S	7	0959	D 0!4 N57		1384
7383	56	05		MN		S	1	0966	D		1384
7384	56	06		MCW	@0@	S	4	0967	M N58		1384
7385	56	07		BWZ	BMPUM,4&X2,2	S	8	0971	V |16 0!4 2		1384
7386	56	08		A	&100,DLVAL	S	7	0979	A N61 N57		1384
7387	56	09		BWZ	BMPUM,4&X2,S	S	8	0986	V |16 0!4 S		1385
7388	56	10		A	&100,DLVAL	S	7	0994	A N61 N57		1385
7389	56	11		BWZ	BMPUM,4&X2,K	S	8	1001	V |16 0!4 K		1385
7390	56	12		A	&100,DLVAL	S	7	1009	A N61 N57		1385
7391	56	13	BMPUM	MCW	DLVAL,X3	S	7	1016	M N57 099		1385
7392	56	14		A	X3	S	4	1023	A 099		1386
7393	56	15		A	DLVAL,X3	S	7	1027	A N57 099		1386
7394	56	16		BCE	ASSGN,5&X2,#	S	8	1034	B |60 0!5 #		1386
7395	56	17		MCW	MATRX-1&X3,X1	S	7	1042	M TA7 089		1386
7396	56	18		MCW	@|@,TABLE-1&X1	S	7	1049	M N62 LU0		1386
7397	56	19		B	CMPAD	S	4	1056	B |89		1386
7398	56	20	ASSGN	MCM	TABLE	S	4	1060	P L41		1387
7399	56	21		SAR	X1	S	4	1064	Q 089		1387
7400	56	22		MA	-TABLE,X1	S	7	1068	# N65 089		1387
7401	56	23		MCW	*-6,TABLE-1&X1	S	7	1075	M |75 LU0		1387
7402	56	24		MCW	X1,MATRX-1&X3	S	7	1082	M 089 TA7		1387

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
7403	56	25	CMPAD	ZA	X1, ACCUM-4	S	7	1089	? 089 N68		1387
7404	56	26		M	TMPSZ, ACCUM#7	S	7	1096	@ N52 N72		1388
7405	56	27		SW	ACCUM-4	S	4	1103	, N68		1388
7406	56	28		FPAK	ACCUM, 4&X2, X3	S				MACRO	
7407				INCLD	ZONES	S				MACRO	
7408				MN	ACCUM, 4&X2	S	7	1107	D N72 0!4	GEN	1388
7409				MN		S	1	1114	D	GEN	1388
7410				MN		S	1	1115	D	GEN	1388
7411				SAR	*&4	S	4	1116	Q /23	GEN	1388
7412				MCW	0, X3	S	7	1120	M 000 099	GEN	1388
7413				MCW	@0@	S	4	1127	M N58	GEN	1389
7414				A	X3	S	4	1131	A 099	GEN	1389
7415				MZ	ZONES&1&X3, 4&X2	S	7	1135	Y NAO 0!4	GEN	1389
7416				CW		S	1	1142	)	GEN	1389
7417				SBR	*&7	S	4	1143	H /53	GEN	1389
7418				MZ	ZONES&X3, 0	S	7	1147	Y N?9 000	GEN	1389
7419	56	29		CW	ACCUM-4	S	4	1154	) N68		1389
7420	56	30		MA	NXTOP, 4&X2	S	7	1158	# 086 0!4		1390
7421	56	31		C	X1, HYTEST#3	S	7	1165	C 089 N75		1390
7422	56	32		BH	GOBAK	S	5	1172	B /99 U		1390
7423	56	33		MCW	X1, HYTEST	S	7	1177	M 089 N75		1390
7424	56	34		MCW	4&X2, MXTMP#3	S	7	1184	M 0!4 N78		1390
7425	56	354		BWZ	TSTZN, MXTMP, 2	V3M4 S	8	1191	V T06 N78 2		1391
7426	56	36	GOBAK	SBR	X2, 3&X2	S	7	1199	H 094 0!3		1391
7427	56	37		B	GETUM	S	4	1206	B 935		1391
7428	56	38	NXGUY	SBR	X2, 4&X2	S	7	1210	H 094 0!4		1391
7429	56	39		B	START	S	4	1217	B 916		1391
7430	56	40	DUN	MCW	HEX2, X3	S	7	1221	M N43 099		1391
7431	56	41		MCW	HEX1, X1	S	7	1228	M N49 089		1392
7432	56	42		C	0&X1	S	4	1235	C 0!0		1392
7433	56	43		C		S	1	1239	C		1392
7434	56	44		SAR	X1	S	4	1240	Q 089		1392
7435	56	45		MCW	MXTMP, NXTOP	S	7	1244	M N78 086		1392
7436	56	46	FENDX	FENDX	D, , , , , SYS6, I/O TWO	S				MACRO	
7437			FENDX	BSS	333, D	S	5	1251	B 333 D	GEN	1392
7438				SBR	TCLEAR, SYS6	S	7	1256	H 710 022	GEN	1392
7439				LCA	@I/O TWO@, 110	S	7	1263	L N85 110	GEN	1393
7440				B	MONTER	S	4	1270	B 700	GEN	1393
7441	56	47	BLWUP	BW	GOBAK, LGSW	S	8	1274	V /99 N07 1		1393
7442	56	48		CS	332	S	4	1282	/ 332		1393
7443	56	49		CS		S	1	1286	/		1393
7444	56	50		MLC	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@, 270	S	7	1287	M 021 270		1393
7445	56	51		W		S	1	1294	2		1393
7446	56	52		SW	FAILSW, LGSW	S	7	1295	, 184 N07		1394
7447	56	53		B	GOBAK	S	4	1302	B /99		1394
7448	56	531	TSTZN	BWZ	BLWUP, MXTMP-2, 2	V3M4 S	8	1306	V S74 N76 2		1394
7449	56	532		B	GOBAK	V3M4 S	4	1314	B /99		1394
7450	56	54	MATRX	DA	1X1023	S		1318	2340		1394
7451	56	55	TABLE	DA	1X165, |	S		2341	2506		1394
				DC	@|@	S	1	2506		RMARK	1395

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
7452	56	56	LGSW	DC	#1	S	1	2507			1395
7453	56	57		ORG	*	S			2508		
7454				LTORG	* WVS: AUTOCODER SHOULDN'T LOAD INCLD AT ORG	S			2508		
7455				DCW	#1	S	1	2508		GEN	1395
7456			ZONES	DC	9	S	1	2509		GEN	1395
7457				DCW	@9Z9R9I99ZZZRZIZ9RZRRRIR9IZIRIII@	S	31	2540		GEN	1395
			*	LTORG*						GEN	
			HEX2	S DCW	#03	S	3	2543		AREA	1395
			NOMO	S DCW	#03	S	3	2546		AREA	1396
			HEX1	S DCW	#03	S	3	2549		AREA	1396
			TMPSZS	DCW	#03	S	3	2552		AREA	1396
				DCW	&0	S	1	2553		LIT	1396
				DCW	&2	S	1	2554		LIT	1396
			DLVALS	DCW	#03	S	3	2557		AREA	1396
				DCW	@0@	S	1	2558		LIT	1396
				DCW	&100	S	3	2561		LIT	1397
				DCW	@|@	S	1	2562		LIT	1397
				DCW	-TABLES	S	3	2565	W5I	ADCON	1397
			ACCUMS	DCW	#07	S	7	2572		AREA	1397
			HYTEST	DCW	#03	S	3	2575		AREA	1397
			MXTMPS	DCW	#03	S	3	2578		AREA	1397
				DCW	@I/O TWO@	S	7	2585		LIT	1397
				DCW	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@	S	36	2621		LIT	1398
7458	56	58	SYS6	DCW	@}@	S	1	2622		GMARK	1398
7459	56	59		XFR	INISH	S			B 838		1399

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
7460	56	60		JOB	1401 FORTRAN INPUT/OUTPUT PHASE TWO	S					
7461	56	61		FBEGN	I/O TWO,X1,,X2,R,X3,,U	S				MACRO	
7462				SFX	U	U				GEN	
7463		110		DCW	@I/O TWO@	U	7	0110		GEN	1402
7464		X1		EQU	089	U		0089		GEN	
7465		X2		EQU	094	U		0094		GEN	
7466		094		DCW	000	U	3	0094		GEN	1403
7467		096		DC	00	U	2	0096		GEN	1403
7468		X3		EQU	099	U		0099		GEN	
7469	56	62		ORG	XBEGIN	U			0838		
7470	56	63	START	BCE	OUT,0&X1,	U	8	0838	B 870 0|0		1404
7471	56	64		MCW	0&X1, CODE#4	U	7	0846	M 0|0 S30		1404
7472	56	65		MCW	CODE-3, *&8	U	7	0853	M S27 867		1404
7473	56	66		BCE	WORK,@BZN@,0	U	8	0860	B 893 S33 0		1404
7474	56	67		BCE		U	1	0868	B		1404
7475	56	68		BCE		U	1	0869	B		1404
7476	56	69	OUT	FENDX	C,,,,,,SYS1,CGOTO	U				MACRO	
7477			OUT	BSS	333,C	U	5	0870	B 333 C	GEN	1404
7478				SBR	TCLEAR,SYS1	U	7	0875	H 710 T24	GEN	1405
7479				LCA	@CGOTO@,110	U	7	0882	L S38 110	GEN	1405
7480				B	MONTER	U	4	0889	B 700	GEN	1405
7481	56	70	WORK	MCW	@B@,IOCW	U	7	0893	M S39 S26		1405
7482	56	71		MCW	@<@,2&X1	U	7	0900	M S40 0|2		1405
7483	56	72		SBR	KLOBR&6,2&X1	U	7	0907	H /23 0|2		1405
7484	56	73		BCE	CTU1, CODE-3, B	U	8	0914	B 944 S27 B		1406
7485	56	74		MCW	@R@,IOCW	U	7	0922	M S41 S26		1406
7486	56	75		BCE	CTU1, CODE-3, Z	U	8	0929	B 944 S27 Z		1406
7487	56	76		MCW	@M@,IOCW	U	7	0937	M S42 S26		1406
7488	56	77	CTU1	MVDWN	X1,X3	U				MACRO	
7489			CTU1	LCA	0&X1,0&X3	U	7	0944	L 0|0 0?0	GEN	1406
7490				SAR	X1	U	4	0951	Q 089	GEN	1407
7491				C	0&X3	U	4	0955	C 0?0	GEN	1407
7492				SAR	X3	U	4	0959	Q 099	GEN	1407
7493	56	78		LCA	1&X1,2&X3	U	7	0963	L 0|1 0?2		1407
7494	56	79		SBR	X3	U	4	0970	H 099		1407
7495	56	80		BWZ	*&5, CODE,2	U	8	0974	V 986 S30 2		1407
7496	56	81		B	CHNG	U	4	0982	B 994		1407
7497	56	82		BWZ	CKNUM, CODE-2,2	U	8	0986	V |08 S28 2		1408
7498	56	83	CHNG	MCW	CODE,X2	U	7	0994	M S30 094		1408
7499	56	84		MCW	0&X2, CODE	U	7	1001	M 0|0 S30		1408
7500	56	85	CKNUM	BCE	NONUM,0&X1, }	U	8	1008	B /59 0|0 } GMARK		1408
7501	56	86		MN	0&X1	U	4	1016	D 0|0		1408
7502	56	87		SAR	X2	U	4	1020	Q 094		1408
7503	56	88		BCE	CONST,0&X2, }	U	8	1024	B S04 0|0 } GMARK		1409
7504	56	89	SYMB	MCW	@0@,TUNO	U	7	1032	M S43 S25		1409
7505	56	90		MCW	0&X1,MVMSK-3	U	7	1039	M 0|0 S18		1409
7506	56	91		MCW	@D@,MVMSK-6	U	7	1046	M S44 S15		1409
7507	56	92		MZ	*-4,MVMSK-4	U	7	1053	Y |55 S17		1409
7508	56	93		CW	MVSW#1	U	4	1060	) S45		1410
7509	56	94	SLIDE	C	0&X1	U	4	1064	C 0|0		1410

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
7510	56	95		SAR	X1	U	4	1068	Q 089		1410
7511	56	96		LCA	IOCW,0&X3	U	7	1072	L S26 0?0		1410
7512	56	97		SBR	X3	U	4	1079	H 099		1410
7513	56	98		BW	NOINT,MVSW	U	8	1083	V /06 S45 1		1410
7514	56	99		SW	MVSW	U	4	1091	, S45		1410
7515	57	00		LCA	MVMSK,0&X3	U	7	1095	L S21 0?0		1411
7516	57	01		SBR	X3	U	4	1102	H 099		1411
7517	57	02	NOINT	LCA	1&X1,0&X3	U	7	1106	L 0|1 0?0		1411
7518	57	03		SBR	X3	U	4	1113	H 099		1411
7519	57	04	KLOBR	BCE	START,0,<	U	8	1117	B 838 000 <		1411
7520	57	05		FQUIT		U				MACRO	
7521				CS	332	U	4	1125	/ 332	GEN	1411
7522				CS		U	1	1129	/	GEN	1411
7523				CC	1	U	2	1130	F 1	GEN	1412
7524				MCW	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@,270	U	7	1132	M S81 270	GEN	1412
7525				W		U	1	1139	2	GEN	1412
7526				CC	1	U	2	1140	F 1	GEN	1412
7527				BCE	*&6,MONTOR,1	U	8	1142	B /55 769 1	GEN	1412
7528				RWD	1	U	5	1150	U %U1 R	GEN	1412
7529				H	*-3	U	4	1155	. /55	GEN	1412
7530	57	06	NONUM	FTMSG	33,NO TAPE UNIT NUMBER,CODE,21	U				MACRO	
7531			NONUM	CS	332	U	4	1159	/ 332	GEN	1413
7532				CS		U	1	1163	/	GEN	1413
7533				SW	FAILSW	U	4	1164	, 184	GEN	1413
7534				MN	CODE,224&21	U	7	1168	D S30 245	GEN	1413
7535				MN		U	1	1175	D	GEN	1413
7536				MN		U	1	1176	D	GEN	1413
7537				MCW	@ERROR 33 - NO TAPE UNIT NUMBER, STATEMENT @	U	4	1177	M T23	GEN	1413
7538				W		U	1	1181	2	GEN	1414
7539				BCV	*&5	U	5	1182	B /91 @	GEN	1414
7540				B	*&3	U	4	1187	B /93	GEN	1414
7541				CC	1	U	2	1191	F 1	GEN	1414
7542	57	07		MCW	@0@,TUNO	U	7	1193	M S43 S25		1414
7543	57	08		B	SYMB	U	4	1200	B |32		1414
7544	57	09	CONST	MN	0&X1,TUNO	U	7	1204	D 0|0 S25		1414
7545	57	10		B	SLIDE	U	4	1211	B |64		1415
7546	57	11	MVMSK	DCW	@MXXX0?4@	U	7	1221			1415
7547	57	12	IOCW	DCW	@U%U0X@	U	5	1226			1415
7548	57	13	TUNO	EQU	IOCW-1	U		1225			
7549	57	14		LTORG	*	U			1227		
			CODE	U	DCW #04	U	4	1230		AREA	1415
				DCW	@BZN@	U	3	1233		LIT	1415
				DCW	@CGOTO@	U	5	1238		LIT	1415
				DCW	@B@	U	1	1239		LIT	1415
				DCW	@<@	U	1	1240		LIT	1416
				DCW	@R@	U	1	1241		LIT	1416
				DCW	@M@	U	1	1242		LIT	1416
				DCW	@0@	U	1	1243		LIT	1416
				DCW	@D@	U	1	1244		LIT	1416
			MVSW	U	DCW #01	U	1	1245		AREA	1416

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
				DCW	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@	U	36	1281		LIT	1417
				DCW	@ERROR 33 - NO TAPE UNIT NUMBER, STATEMENT @	U	42	1323		LIT	1419
7550	57	15	SYS1	DCW	@}@	U	1	1324		GMARK	1419
7551	57	16		XFR	START	U			B 838		1420

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
7552	57	17		JOB	1401 FORTRAN COMPUTED GO TO PHASE	U					
7553	57	18		FBEGN	CGOTO,X1,,X2,R,X3,,.	U				MACRO	
7554				SFX	.	.				GEN	
7555			110	DCW	@CGOTO@	.	5	0110		GEN	1423
7556			X1	EQU	089	.		0089		GEN	
7557			X2	EQU	094	.		0094		GEN	
7558			094	DCW	000	.	3	0094		GEN	1424
7559			096	DC	00	.	2	0096		GEN	1424
7560			X3	EQU	099	.		0099		GEN	
7561	57	19		ORG	XBEGIN	.			0838		
7562	57	20	INITL	SW	GM1,GM2	.	7	0838	, S95 T09		1425
7563	57	21	START	BWZ	OUT,0&X1,1	.	8	0845	V T20 0|0 1		1425
7564	57	22		MCW	0&X1,ID#3	.	7	0853	M 0|0 T62		1425
7565	57	23		MCW	ID,MASK	.	7	0860	M T62 T12		1425
7566	57	24		MCW	@|@,1&X1	.	7	0867	M T63 0|1		1425
7567	57	25		SBR	KLOBR&6,1&X1	.	7	0874	H |78 0|1		1426
7568	57	26		C	0&X1	.	4	0881	C 0|0		1426
7569	57	27		SAR	X1	.	4	0885	Q 089		1426
7570	57	28		C	2&X1,@T@	.	7	0889	C 0|2 T64		1426
7571	57	29		BU	DUN	.	5	0896	B T13 /		1426
7572	57	30	SMALL	S	MAX#2	.	4	0901	S T66		1426
7573	57	31	LOOP	MN	0&X1	.	4	0905	D 0|0		1426
7574	57	32		MN		.	1	0909	D		1427
7575	57	33		MN		.	1	0910	D		1427
7576	57	34		SAR	X1	.	4	0911	Q 089		1427
7577	57	35		A	&1,MAX	.	7	0915	A T67 T66		1427
7578	57	36		C	MAX,&11	.	7	0922	C T66 T69		1427
7579	57	37		BE	ERROR	.	5	0929	B S23 S		1427
7580	57	38		C	0&X1,@,@	.	7	0934	C 0|0 T70		1427
7581	57	39		BU	LOOP	.	5	0941	B 905 /		1428
7582	57	40		MN	0&X1	.	4	0946	D 0|0		1428
7583	57	41		SAR	X1	.	4	0950	Q 089		1428
7584	57	42		B	RUADR	.	4	0954	B /14		1428
7585	57	43		LCA	MASK,0&X3	.	7	0958	L T12 0?0		1428
7586	57	44		LCA	TRAP	.	4	0965	L T59		1428
7587	57	45		LCA		.	1	0969	L		1428
7588	57	46		LCA		.	1	0970	L		1429
7589	57	47		SBR	X3	.	4	0971	H 099		1429
7590	57	48		SBR	X1,1&X1	.	7	0975	H 089 0|1		1429
7591	57	49	ANYMO	BW	NOMO,4&X1	.	8	0982	V |53 0|4 1		1429
7592	57	50		SW	BRNCH-6	.	4	0990	, T44		1429
7593	57	51		MN	MAX,BRNCH	.	7	0994	D T66 T50		1429
7594	57	52		MCW	I	.	4	1001	M T02		1429
7595	57	53		MCW	6&X1	.	4	1005	M 0|6		1430
7596	57	54		SAR	X1	.	4	1009	Q 089		1430
7597	57	55		CW	BRNCH-6	.	4	1013	) T44		1430
7598	57	56		MZ	@K@,BRNCH-5	.	7	1017	Y T71 T45		1430
7599	57	57		MZ	*-4,BRNCH-2	.	7	1024	Y |26 T48		1430
7600	57	58		LCA	BRNCH,0&X3	.	7	1031	L T50 0?0		1430
7601	57	59		SBR	X3	.	4	1038	H 099		1430

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
7602	57	60		S	&1,MAX	.	7	1042	S T67 T66		1431
7603	57	61		B	ANYMO	.	4	1049	B 982		1431
7604	57	62	NOMO	LCA	GM1,0&X3	.	7	1053	L S95 0?0		1431
7605	57	63		SBR	X3	.	4	1060	H 099		1431
7606	57	64	BOTM	C	0&X1	.	4	1064	C 0|0		1431
7607	57	65		SAR	X1	.	4	1068	Q 089		1431
7608	57	66	KLOBR	BCE	START,0,]	.	8	1072	B 845 000]		1431
7609	57	67		FQUIT		.				MACRO	
7610				CS	332	.	4	1080	/ 332	GEN	1432
7611				CS		.	1	1084	/	GEN	1432
7612				CC	1	.	2	1085	F 1	GEN	1432
7613				MCW	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@,270	.	7	1087	M U07 270	GEN	1432
7614				W		.	1	1094	2	GEN	1432
7615				CC	1	.	2	1095	F 1	GEN	1432
7616				BCE	*&6,MONTOR,1	.	8	1097	B /10 769 1	GEN	1432
7617				RWD	1	.	5	1105	U %U1 R	GEN	1433
7618				H	*-3	.	4	1110	. /10	GEN	1433
7619	57	68	RUADR	SBR	EXRUA&3	.	4	1114	H S22		1433
7620	57	69		S	COUNT#1	.	4	1118	S U08		1433
7621	57	70	OK	MN	0&X1,TEST&7	.	7	1122	D 0|0 /55		1433
7622	57	71		SAR	X1	.	4	1129	Q 089		1433
7623	57	72		BCE	RUFIX,COUNT,B	.	8	1133	B /81 U08 B		1433
7624	57	73		A	&1,COUNT	.	7	1141	A T67 U08		1434
7625	57	74	TEST	BCE	OK,@0123456789@,0	.	8	1148	B /22 U18 0		1434
7626	57	75		CHAIN	9	.				MACRO	
7627				BCE		.	1	1156	B	GEN	1434
7628				BCE		.	1	1157	B	GEN	1434
7629				BCE		.	1	1158	B	GEN	1434
7630				BCE		.	1	1159	B	GEN	1434
7631				BCE		.	1	1160	B	GEN	1434
7632				BCE		.	1	1161	B	GEN	1435
7633				BCE		.	1	1162	B	GEN	1435
7634				BCE		.	1	1163	B	GEN	1435
7635				BCE		.	1	1164	B	GEN	1435
7636	57	76	ERR1	BCE	ERROR,0&X1,}	.	8	1165	B S23 0|0 }	GMARK	1435
7637	57	77		SBR	X1	.	4	1173	H 089		1435
7638	57	78		B	ERR1	.	4	1177	B /65		1435
7639	57	79	RUFIX	BWZ	FIXED,2&X1,K	.	8	1181	V /93 0|2 K		1436
7640	57	80		B	ERR1	.	4	1189	B /65		1436
7641	57	81	FIXED	MZ	BLANK#1,2&X1	.	7	1193	Y U19 0|2		1436
7642	57	82		MCW	3&X1,I	.	7	1200	M 0|3 T02		1436
7643	57	83		C	0&X1,GM1	.	7	1207	C 0|0 S95		1436
7644	57	84		BU	ERR1	.	5	1214	B /65 /		1436
7645	57	85	EXRUA	B	0	.	4	1219	B 000		1437
7646	57	86	ERROR	BWZ	*&5,ID,2	.	8	1223	V S35 T62 2		1437
7647	57	87		B	ZONE	.	4	1231	B S43		1437
7648	57	88		BWZ	PRINT,ID-2,2	.	8	1235	V S57 T60 2		1437
7649	57	89	ZONE	MCW	ID,X2	.	7	1243	M T62 094		1437
7650	57	90		MCW	0&X2,ID	.	7	1250	M 0|0 T62		1437
7651	57	91	PRINT	FTMSG	34,COMPUTED GO TO SYNTAX,ID,23	.				MACRO	

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
7652			PRINT	CS	332	.	4	1257	/ 332	GEN	1438
7653				CS		.	1	1261	/	GEN	1438
7654				SW	FAILSW	.	4	1262	, 184	GEN	1438
7655				MN	ID,224&23	.	7	1266	D T62 247	GEN	1438
7656				MN		.	1	1273	D	GEN	1438
7657				MN		.	1	1274	D	GEN	1438
7658				MCW	@ERROR 34 - COMPUTED GO TO SYNTAX, STATEMENT @	.	4	1275	M U63	GEN	1438
7659				W		.	1	1279	2	GEN	1439
7660				BCV	*&5	.	5	1280	B S89 @	GEN	1439
7661				B	*&3	.	4	1285	B S91	GEN	1439
7662				CC	1	.	2	1289	F 1	GEN	1439
7663	57	92		B	BOTM	.	4	1291	B |64		1439
7664	57	93	GM1	DC	@}@	.	1	1295		GMARK	1439
7665	57	94		DCW	@T@	.	1	1296			1439
7666	57	95		DC	XLINKS	.	3	1299	840		1439
7667	57	96	I	DCW	#3	.	3	1302			1439
7668	57	97		DCW	#3	.	3	1305			1440
7669	57	98	BASE	DCW	#3	.	3	1308			1440
7670	57	99	GM2	DC	@}@	.	1	1309		GMARK	1440
7671	58	00	MASK	DC	#3	.	3	1312			1440
7672	58	01	DUN	SBR	X1,5&X1	.	7	1313	H 089 0|5		1440
7673	58	02	OUT	FENDX	C,,,,,,SYSCG,GOMSK	.				MACRO	
7674			OUT	BSS	333,C	.	5	1320	B 333 C	GEN	1440
7675				SBR	TCLEAR,SYSCG	.	7	1325	H 710 U69	GEN	1440
7676				LCA	@GOMSK@,110	.	7	1332	L U68 110	GEN	1440
7677				B	MONTER	.	4	1339	B 700	GEN	1441
7678	58	03	BRNCH	DCW	@BXXXXXXA@	.	8	1350			1441
7679	58	04		NOP	1001	.	4	1351	N |01		1441
7680	58	05		H		.	1	1355	.		1441
7681	58	06	TRAP	DCW	@BIIB@	.	4	1359			1441
7682	58	07		LTORG	*	.			1360		
			ID	DCW	#03	.	3	1362		AREA	1441
				DCW	@]@	.	1	1363		LIT	1441
				DCW	@T@	.	1	1364		LIT	1442
			MAX	DCW	#02	.	2	1366		AREA	1442
				DCW	&1	.	1	1367		LIT	1442
				DCW	&11	.	2	1369		LIT	1442
				DCW	@,@	.	1	1370		LIT	1442
				DCW	@K@	.	1	1371		LIT	1442
				DCW	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@	.	36	1407		LIT	1443
			COUNT	DCW	#01	.	1	1408		AREA	1443
				DCW	@0123456789@	.	10	1418		LIT	1444
			BLANK	DCW	#01	.	1	1419		AREA	1444
				DCW	@ERROR 34 - COMPUTED GO TO SYNTAX, STATEMENT @	.	44	1463		LIT	1446
				DCW	@GOMSK@	.	5	1468		LIT	1446
7683	58	08	SYSCG	DCW	@}@	.	1	1469		GMARK	1446
7684	58	09		XFR	INITL	.			B 838		1447

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
7685	58	10		JOB	1401 FORTRAN GO TO MASK PHASE	.					
7686	58	11		FBEGN	GOMSK,X1,,,,X3,,*	*				MACRO	
7687				SFX	*	*				GEN	
7688			110	DCW	@GOMSK@	*	5	0110		GEN	1450
7689			X1	EQU	089	*		0089		GEN	
7690			X3	EQU	099	*		0099		GEN	
7691	58	12		ORG	XBEGIN	*			0838		
7692	58	13	START	BCE	OUT,0&X1,	*	8	0838	B 861 0|0		1451
7693	58	14		MCW	0&X1,CODE#4	*	7	0846	M 0|0 962		1451
7694	58	15		BCE	CTU,CODE-3,G	*	8	0853	B 884 959 G		1451
7695	58	16	OUT	FENDX	C,,,,,SYS1,STOP/PAUSE	*				MACRO	
7696			OUT	BSS	333,C	*	5	0861	B 333 C	GEN	1451
7697				SBR	TCLEAR,SYS1	*	7	0866	H 710 975	GEN	1451
7698				LCA	@STOP/PAUSE@,110	*	7	0873	L 972 110	GEN	1452
7699				B	MONTER	*	4	0880	B 700	GEN	1452
7700	58	17	CTU	MVDWN	X1,X3	*				MACRO	
7701			CTU	LCA	0&X1,0&X3	*	7	0884	L 0|0 0?0	GEN	1452
7702				SAR	X1	*	4	0891	Q 089	GEN	1452
7703				C	0&X3	*	4	0895	C 0?0	GEN	1452
7704				SAR	X3	*	4	0899	Q 099	GEN	1452
7705	58	18		LCA	1&X3,2&X3	*	7	0903	L 0?1 0?2		1452
7706	58	19		SBR	X3	*	4	0910	H 099		1453
7707	58	20		MVDWN	X1,X3	*				MACRO	
7708				LCA	0&X1,0&X3	*	7	0914	L 0|0 0?0	GEN	1453
7709				SAR	X1	*	4	0921	Q 089	GEN	1453
7710				C	0&X3	*	4	0925	C 0?0	GEN	1453
7711				SAR	X3	*	4	0929	Q 099	GEN	1453
7712	58	21		MCW	@B@,1&X3	*	7	0933	M 973 0?1		1453
7713	58	22		LCA	1&X1	*	4	0940	L 0|1		1453
7714	58	23		SBR	X3	*	4	0944	H 099		1454
7715	58	24		MZ	@K@,4&X3	*	7	0948	Y 974 0?4		1454
7716	58	25		B	START	*	4	0955	B 838		1454
7717	58	26		LTORG	*	*			0959		
			CODE *	DCW	#04	*	4	0962		AREA	1454
				DCW	@STOP/PAUSE@	*	10	0972		LIT	1454
				DCW	@B@	*	1	0973		LIT	1454
				DCW	@K@	*	1	0974		LIT	1454
7718	58	27	SYS1	DCW	@}@	*	1	0975		GMARK	1455
7719	58	28		XFR	START	*			B 838		1456

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
7720	58	29		JOB	1401 FORTRAN STOP/PAUSE PHASE	*					
7721	58	30		FBEGN	STOP/PAUSE,X1,,X2,,X3,,3	*				MACRO	
7722				SFX	3	3				GEN	
7723		110		DCW	@STOP/PAUSE@	3	10	0110		GEN	1459
7724			X1	EQU	089	3		0089		GEN	
7725			X2	EQU	094	3		0094		GEN	
7726			X3	EQU	099	3		0099		GEN	
7727	58	31		ORG	XBEGIN	3			0838		
7728	58	32	START	CS	299	3	4	0838	/ 299		1460
7729	58	33	NUTYP	BCE	OUT,0&X1,	3	8	0842	B 873 0|0		1460
7730	58	34		MCW	0&X1, CODE#4	3	7	0850	M 0|0 W02		1460
7731	58	35		FBCEQ	DOIT, CODE-3, A, S	3				MACRO	
7732				BCE	DOIT, CODE-3, A	3	8	0857	B 896 V99 A	GEN	1460
7733				BCE	DOIT, CODE-3, S	3	8	0865	B 896 V99 S	GEN	1460
7734	58	36	OUT	FENDX	C,,,,,SYS1,LIGHT	3				MACRO	
7735			OUT	BSS	333,C	3	5	0873	B 333 C	GEN	1461
7736				SBR	TCLEAR, SYS1	3	7	0878	H 710 W61	GEN	1461
7737				LCA	@LIGHT@,110	3	7	0885	L W07 110	GEN	1461
7738				B	MONTER	3	4	0892	B 700	GEN	1461
7739	58	37	DOIT	MCW	@<@, 2&X1	3	7	0896	M W08 0|2		1461
7740	58	38		SBR	KLOBR&6, 2&X1	3	7	0903	H S58 0|2		1461
7741	58	39		MVDWN	X1, X3	3				MACRO	
7742				LCA	0&X1, 0&X3	3	7	0910	L 0|0 0?0	GEN	1462
7743				SAR	X1	3	4	0917	Q 089	GEN	1462
7744				C	0&X3	3	4	0921	C 0?0	GEN	1462
7745				SAR	X3	3	4	0925	Q 099	GEN	1462
7746	58	40		LCA	1&X3, 2&X3	3	7	0929	L 0?1 0?2		1462
7747	58	41		SBR	X3	3	4	0936	H 099		1462
7748	58	42		BCE	NOAD, 0&X1, }	3	8	0940	B |69 0|0 }	GMARK	1462
7749	58	43		CS	WORK	3	4	0948	/ V98		1463
7750	58	44		FFLIP	0&X1, LOWK, X1, X2, , WM	3				MACRO	
7751				MN	LOWK	3	4	0952	D V00	GEN	1463
7752				MN		3	1	0956	D	GEN	1463
7753				SAR	X2	3	4	0957	Q 094	GEN	1463
7754				SBR	X1, 0&X1	3	7	0961	H 089 0|0	GEN	1463
7755		)0K212		MCW	0&X1,)0L212#1	3	7	0968	M 0|0 W09	GEN	1463
7756				SAR	X1	3	4	0975	Q 089	GEN	1463
7757				BW	)0M212, 1&X1	3	8	0979	V |02 0|1 1	GEN	1464
7758				MCW	)0L212, 2&X2	3	7	0987	M W09 0!2	GEN	1464
7759				SBR	X2	3	4	0994	H 094	GEN	1464
7760				B	)0K212	3	4	0998	B 968	GEN	1464
7761		)0M212		EQU	*&1	3		1002		GEN	
7762	58	45		SW	LOWK	3	4	1002	, V00		1464
7763	58	46		BCE	OKAY2, LOWK&3,	3	8	1006	B |42 V03		1464
7764	58	47		MCW	MSG1, 222	3	7	1014	M T15 222		1465
7765	58	48		MCW	MSG2, 247	3	7	1021	M T33 247		1465
7766	58	49		MCW	LOWK&4, 228	3	7	1028	M V04 228		1465
7767	58	50		MCW	LOWK&2, 251	3	7	1035	M V02 251		1465
7768	58	51	OKAY2	BCE	*&5, LOWK&2,	3	8	1042	B |54 V02		1465
7769	58	52		B	SETUP	3	4	1050	B |84		1466

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
7770	58	53		MCW	LOWK&1,LOWK&2	3	7	1054	M V01 V02		1466
7771	58	54		MCW	@0@	3	4	1061	M W10		1466
7772	58	55		B	OKAY2	3	4	1065	B |42		1466
7773	58	56	NOAD	LCA	@000@,LOWK&2	3	7	1069	L W13 V02		1466
7774	58	57		C	0&X1	3	4	1076	C 0|0		1466
7775	58	58		SAR	X1	3	4	1080	Q 089		1466
7776	58	59	SETUP	MCW	LOWK&2,SAVE3#3	3	7	1084	M V02 W16		1467
7777	58	60		A	@0@,LOWK&3	3	7	1091	A W10 V03		1467
7778	58	61		C	LOWK&2,SAVE3	3	7	1098	C V02 W16		1467
7779	58	62		BE	AOK	3	5	1105	B /70 S		1467
7780	58	63		BCE	NUERR,201,	3	8	1110	B /31 201		1467
7781	58	64	RTN	MZ	BLNK3#3,251	3	7	1118	Y W19 251		1468
7782	58	65		MZ		3	1	1125	Y		1468
7783	58	66		MZ		3	1	1126	Y		1468
7784	58	67		B	AOK	3	4	1127	B /70		1468
7785	58	68	NUERR	MCW	MSG1,222	3	7	1131	M T15 222		1468
7786	58	69		MCW	MSG2,247	3	7	1138	M T33 247		1468
7787	58	70		MCW	LOWK&2,226	3	7	1145	M V02 226		1468
7788	58	71		MCW	LOWK&2,251	3	7	1152	M V02 251		1469
7789	58	72		MCW	BLANK,223	3	7	1159	M W17 223		1469
7790	58	73		B	RTN	3	4	1166	B /18		1469
7791	58	74	AOK	BCE	CTU,201,	3	8	1170	B /94 201		1469
7792	58	75		W		3	1	1178	2		1469
7793	58	76		FORMS		3				MACRO	
7794				BCV	*&5	3	5	1179	B /88 @	GEN	1469
7795				B	*&3	3	4	1184	B /90	GEN	1469
7796				CC	1	3	2	1188	F 1	GEN	1470
7797	58	77		CS	299	3	4	1190	/ 299		1470
7798	58	78	CTU	CW	LOWK	3	4	1194	) V00		1470
7799	58	79		BCE	PAUSE,CODE-3,A	3	8	1198	B S33 V99 A		1470
7800	58	80		LCA	@BIIB@,0&X3	3	7	1206	L W23 0?0		1470
7801	58	81		LCA	@.@	3	4	1213	L W24		1470
7802	58	82		LCA	LOWK&2	3	4	1217	L V02		1470
7803	58	83		LCA	1&X1	3	4	1221	L 0|1		1471
7804	58	84		SBR	X3	3	4	1225	H 099		1471
7805	58	85		B	KLOBR	3	4	1229	B S52		1471
7806	58	86	PAUSE	LCA	@.@,0&X3	3	7	1233	L W24 0?0		1471
7807	58	87		LCA	LOWK&2	3	4	1240	L V02		1471
7808	58	88		LCA	1&X1	3	4	1244	L 0|1		1471
7809	58	89		SBR	X3	3	4	1248	H 099		1471
7810	58	90	KLOBR	BCE	NUTYP,0,<	3	8	1252	B 842 000 <		1472
7811	58	91		FQUIT		3				MACRO	
7812				CS	332	3	4	1260	/ 332	GEN	1472
7813				CS		3	1	1264	/	GEN	1472
7814				CC	1	3	2	1265	F 1	GEN	1472
7815				MCW	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@,270	3	7	1267	M W60 270	GEN	1472
7816				W		3	1	1274	2	GEN	1472
7817				CC	1	3	2	1275	F 1	GEN	1472
7818				BCE	*&6,MONTOR,1	3	8	1277	B S90 769 1	GEN	1473
7819				RWD	1	3	5	1285	U %U1 R	GEN	1473

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
7820				H	*-3	3	4	1290	. S90	GEN	1473
7821	58	92	MSG1	DCW	@ERROR 35 - HALT NUMBER@	3	22	1315			1473
7822	58	93	MSG2	DCW	@TO BE DISPLAYED AS@	3	18	1333			1474
7823	58	94		ORG	*&X00	3			1400		
7824	58	95		ORG	*&99	3			1499		
7825	58	96		DCW	@N@	3	1	1499			1475
7826	58	97	LOWK	DS	1	3		1500			
7827	58	98	WORK	DS	98	3		1598			
7828	58	99		LTORG	*	3			1599		
			CODE 3	DCW	#04	3	4	1602		AREA	1476
				DCW	@LIGHT@	3	5	1607		LIT	1476
				DCW	@<@	3	1	1608		LIT	1476
			)0L212	DCW	#01	3	1	1609		AREA	1476
				DCW	@0@	3	1	1610		LIT	1476
				DCW	@000@	3	3	1613		LIT	1476
			SAVE33	DCW	#03	3	3	1616		AREA	1476
			BLNK33	DCW	#03	3	3	1619		AREA	1477
				DCW	@BIIB@	3	4	1623		LIT	1477
				DCW	@.@	3	1	1624		LIT	1477
				DCW	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@	3	36	1660		LIT	1478
7829	59	00	SYS1	DCW	@}@	3	1	1661		GMARK	1478
7830	59	01	BLANK	EQU	BLNK3-2	3		1617			
7831	59	02		XFR	START	3			B 838		1479

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
7832	59	03		JOB	1401 FORTRAN SENSE LIGHT PHASE	3					
7833	59	04		FBEGN	LIGHT,X1,,X2,R,X3,,5	3				MACRO	
7834				SFX	5	5		0110		GEN	1482
7835		110		DCW	@LIGHT@	5		0089		GEN	
7836		X1		EQU	089	5		0094		GEN	
7837		X2		EQU	094	5		0094		GEN	
7838		094		DCW	000	5	3	0094		GEN	1483
7839		096		DC	00	5	2	0096		GEN	1483
7840		X3		EQU	099	5		0099		GEN	
7841	59	05		ORG	XBEGIN	5			0838		
7842	59	06	START	BCE	OUT,0&X1,	5	8	0838	B 861 0|0		1484
7843	59	07		MCW	0&X1, CODE#4	5	7	0846	M 0|0 /88		1484
7844	59	08		BCE	DOIT, CODE-3, J	5	8	0853	B 884 /85 J		1484
7845	59	09	OUT	FENDX	C, , , , , SYSL, IFCOND	5				MACRO	
7846		OUT		BSS	333, C	5	5	0861	B 333 C	GEN	1484
7847				SBR	TCLEAR, SYSL	5	7	0866	H 710 S92	GEN	1484
7848				LCA	@IFCOND@, 110	5	7	0873	L /94 110	GEN	1485
7849				B	MONTER	5	4	0880	B 700	GEN	1485
7850	59	10	DOIT	MVDWN	X1, X3	5				MACRO	
7851		DOIT		LCA	0&X1, 0&X3	5	7	0884	L 0|0 0?0	GEN	1485
7852				SAR	X1	5	4	0891	Q 089	GEN	1485
7853				C	0&X3	5	4	0895	C 0?0	GEN	1485
7854				SAR	X3	5	4	0899	Q 099	GEN	1485
7855	59	11		SBR	KLOBR&6, 1&X1	5	7	0903	H /26 0|1		1485
7856	59	12		MCW	@|@, 1&X1	5	7	0910	M /95 0|1		1486
7857	59	13		LCA	1&X3, 2&X3	5	7	0917	L 0?1 0?2		1486
7858	59	14		SBR	X3	5	4	0924	H 099		1486
7859	59	15		MCW	CODE, HOLD#3	5	7	0928	M /88 /98		1486
7860	59	16		BWZ	*&5, HOLD, 2	5	8	0935	V 947 /98 2		1486
7861	59	17		B	SWEAT	5	4	0943	B 955		1486
7862	59	18		BWZ	CKGM, HOLD-2, 2	5	8	0947	V 969 /96 2		1487
7863	59	19	SWEAT	MCW	HOLD, X2	5	7	0955	M /98 094		1487
7864	59	20		MCW	0&X2, HOLD	5	7	0962	M 0|0 /98		1487
7865	59	21	CKGM	BCE	BAD, 0&X1, }	5	8	0969	B |15 0|0 }	GMARK	1487
7866	59	22		MCW	0&X1, HLD2#2	5	7	0977	M 0|0 S00		1487
7867	59	23		BCE	*&5, HLD2-1, }	5	8	0984	B 996 /99 }	GMARK	1488
7868	59	24		B	BAD	5	4	0992	B |15		1488
7869	59	25		MN	0&X1, *&8	5	7	0996	D 0|0 |10		1488
7870	59	26		BCE	OK, @01234@, 0	5	8	1003	B |68 S05 0		1488
7871	59	27		CHAIN	4	5				MACRO	
7872				BCE		5	1	1011	B	GEN	1488
7873				BCE		5	1	1012	B	GEN	1488
7874				BCE		5	1	1013	B	GEN	1488
7875				BCE		5	1	1014	B	GEN	1489
7876	59	28	BAD	FTMSG	36, ILLEGAL SENSE LIGHT, HOLD, 21	5				MACRO	
7877		BAD		CS	332	5	4	1015	/ 332	GEN	1489
7878				CS		5	1	1019	/	GEN	1489
7879				SW	FAILSW	5	4	1020	, 184	GEN	1489
7880				MN	HOLD, 224&21	5	7	1024	D /98 245	GEN	1489
7881				MN		5	1	1031	D	GEN	1489

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD	
7882				MN		5	1	1032	D	GEN	1489	
7883				MCW	@ERROR 36 - ILLEGAL SENSE LIGHT, STATEMENT @	5	4	1033	M S47	GEN	1490	
7884				W		5	1	1037	2	GEN	1490	
7885				BCV	*&5	5	5	1038	B |47 @	GEN	1490	
7886				B	*&3	5	4	1043	B |49	GEN	1490	
7887				CC	1	5	2	1047	F 1	GEN	1490	
7888	59	29		SBR	X3,4&X3	5	7	1049	H 099 0?4		1490	
7889	59	30		C	0&X1	5	4	1056	C 0|0		1490	
7890	59	31		SAR	X1	5	4	1060	Q 089		1491	
7891	59	32		B	START	5	4	1064	B 838		1491	
7892	59	33	OK	MZ	*-4,0&X1	5	7	1068	Y |70 0|0		1491	
7893	59	34		BCE	ZERO,0&X1,0	5	8	1075	B /62 0|0 0		1491	
7894	59	35		MN	0&X1,MASK1	5	7	1083	D 0|0 /84		1491	
7895	59	36		LCA	MASK1,0&X3	5	7	1090	L /84 0?0		1491	
7896	59	37		SBR	X3	5	4	1097	H 099		1492	
7897	59	38	RTN	C	0&X1	5	4	1101	C 0|0		1492	
7898	59	39		SAR	X1	5	4	1105	Q 089		1492	
7899	59	40		LCA	1&X1,0&X3	5	7	1109	L 0|1 0?0		1492	
7900	59	41		SBR	X3	5	4	1116	H 099		1492	
7901	59	42	KLOBR	BCE	START,0,]	5	8	1120	B 838 000]		1492	
7902	59	43		FQUIT		5				MACRO		
7903				CS	332	5	4	1128	/ 332	GEN	1492	
7904				CS		5	1	1132	/	GEN	1493	
7905				CC	1	5	2	1133	F 1	GEN	1493	
7906				MCW	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@,270	5	7	1135	M S83 270	GEN	1493	
7907				W		5	1	1142	2	GEN	1493	
7908				CC	1	5	2	1143	F 1	GEN	1493	
7909				BCE	*&6,MONTOR,1	5	8	1145	B /58 769 1	GEN	1493	
7910				RWD	1	5	5	1153	U %U1 R	GEN	1493	
7911				H	*-3	5	4	1158	. /58	GEN	1494	
7912	59	44	ZERO	LCA	@,@,0&X3	5	7	1162	L S84 0?0		1494	
7913	59	45		LCA	@,082084@	5	4	1169	L S91		1494	
7914	59	46		SBR	X3	5	4	1173	H 099		1494	
7915	59	47		B	RTN	5	4	1177	B /01		1494	
7916	59	48	MASK1	DCW	@)080@	5	4	1184			1494	
7917	59	49		LTORG	*	5			1185			
			CODE	5	DCW	#04	5	4	1188		AREA	1494
					DCW	@IFCOND@	5	6	1194		LIT	1495
					DCW	@]@	5	1	1195		LIT	1495
			HOLD	5	DCW	#03	5	3	1198		AREA	1495
			HLD2	5	DCW	#02	5	2	1200		AREA	1495
					DCW	@01234@	5	5	1205		LIT	1495
					DCW	@ERROR 36 - ILLEGAL SENSE LIGHT, STATEMENT @	5	42	1247		LIT	1497
					DCW	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@	5	36	1283		LIT	1497
					DCW	@,@	5	1	1284		LIT	1498
					DCW	@,082084@	5	7	1291		LIT	1498
7918	59	50	SYSL	DCW	@}@	5	1	1292		GMARK	1498	
7919	59	51		XFR	START	5			B 838		1499	

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
7920	59	52		JOB	1401 FORTRAN IF %HARDWARE) PHASE	5					
7921	59	53		FBEGN	IFCOND,X1,,X2,R,X3,,4	5				MACRO	
7922				SFX	4	4				GEN	
7923			110	DCW	@IFCOND@	4	6	0110		GEN	1502
7924			X1	EQU	089	4		0089		GEN	
7925			X2	EQU	094	4		0094		GEN	
7926			094	DCW	000	4	3	0094		GEN	1503
7927			096	DC	00	4	2	0096		GEN	1503
7928			X3	EQU	099	4		0099		GEN	
7929	59	54		ORG	XBEGIN	4			0838		
7930	59	55	START	BCE	OUT,0&X1, BLANK	4	8	0838	B 870 0|0		1504
7931	59	56		MCW	0&X1, CODE	4	7	0846	M 0|0 U45		1504
7932	59	57		MCW		4	1	0853	M		1504
7933	59	58		FBCEQ	DOIT, CODE-3, W, K	4				MACRO	
7934				BCE	DOIT, CODE-3, W	4	8	0854	B 893 U42 W	GEN	1504
7935				BCE	DOIT, CODE-3, K	4	8	0862	B 893 U42 K	GEN	1504
7936	59	59	OUT	FENDX	C,,,,,SYS1,CONTINUE	4				MACRO	
7937			OUT	BSS	333,C	4	5	0870	B 333 C	GEN	1504
7938				SBR	TCLEAR, SYS1	4	7	0875	H 710 W14	GEN	1505
7939				LCA	@CONTINUE@, 110	4	7	0882	L U69 110	GEN	1505
7940				B	MONTER	4	4	0889	B 700	GEN	1505
7941	59	60	DOIT	MCW	@<@, 2&X1 12-6-8	4	7	0893	M U70 0|2		1505
7942	59	61		SBR	KLOBR&6, 2&X1	4	7	0900	H S03 0|2		1505
7943	59	62		MVDWN	X1, X3	4				MACRO	
7944				LCA	0&X1, 0&X3	4	7	0907	L 0|0 0?0	GEN	1505
7945				SAR	X1	4	4	0914	Q 089	GEN	1506
7946				C	0&X3	4	4	0918	C 0?0	GEN	1506
7947				SAR	X3	4	4	0922	Q 099	GEN	1506
7948	59	63		LCA	1&X3, 2&X3	4	7	0926	L 0?1 0?2		1506
7949	59	64		SBR	X3	4	4	0933	H 099		1506
7950	59	65		MCW	0&X1, ON	4	7	0937	M 0|0 U36		1506
7951	59	66		MCW		4	1	0944	M		1506
7952	59	67		SAR	X1	4	4	0945	Q 089		1507
7953	59	68		MZ	@K@, ON-1	4	7	0949	Y U71 U35		1507
7954	59	69		MZ	@K@, OFF-1	4	7	0956	Y U71 U32		1507
7955	59	70		BWZ	*&5, CODE, 2	4	8	0963	V 975 U45 2		1507
7956	59	71		B	FLIP	4	4	0971	B 983		1507
7957	59	72		BWZ	CKCOM, CODE-2, 2	4	8	0975	V 997 U43 2		1507
7958	59	73	FLIP	MCW	CODE, X2	4	7	0983	M U45 094		1508
7959	59	74		MCW	0&X2, CODE	4	7	0990	M 0|0 U45		1508
7960	59	75	CKCOM	B	AOK	4	4	0997	B |20		1508
7961	59	76	KILL	C	0&X1	4	4	1001	C 0|0		1508
7962	59	77		SAR	X1	4	4	1005	Q 089		1508
7963	59	78		SBR	X3, 4&X3	4	7	1009	H 099 0?4		1508
7964	59	79		B	START	4	4	1016	B 838		1508
7965	59	80	AOK	MN	0&X1	4	4	1020	D 0|0		1509
7966	59	81		SAR	X1	4	4	1024	Q 089		1509
7967	59	82		BCE	LIGHT, CODE-3, K	4	8	1028	B S54 U42 K		1509
7968	59	83		MCW	0&X1, BOX#1	4	7	1036	M 0|0 U72		1509
7969	59	84		MCW	BOX, *&8	4	7	1043	M U72 |57		1509

PROCESS IF SENSE
SWITCH

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
7970	59	85		BCE	AOK2,@0123456@,0	4	8	1050	B /02 U79 0		1509
7971	59	86		CHAIN	6	4				MACRO	
7972				BCE		4	1	1058	B	GEN	1509
7973				BCE		4	1	1059	B	GEN	1510
7974				BCE		4	1	1060	B	GEN	1510
7975				BCE		4	1	1061	B	GEN	1510
7976				BCE		4	1	1062	B	GEN	1510
7977				BCE		4	1	1063	B	GEN	1510
7978	59	87		FTMSG	37,ILLEGAL SENSE SWITCH,CODE,22	4				MACRO	
7979				CS	332	4	4	1064	/ 332	GEN	1510
7980				CS		4	1	1068	/	GEN	1510
7981				SW	FAILSW	4	4	1069	, 184	GEN	1511
7982				MN	CODE,224&22	4	7	1073	D U45 246	GEN	1511
7983				MN		4	1	1080	D	GEN	1511
7984				MN		4	1	1081	D	GEN	1511
7985				MCW	@ERROR 37 - ILLEGAL SENSE SWITCH, STATEMENT @	4	4	1082	M V22	GEN	1511
7986				W		4	1	1086	2	GEN	1511
7987				BCV	*&5	4	5	1087	B |96 @	GEN	1511
7988				B	*&3	4	4	1092	B |98	GEN	1512
7989				CC	1	4	2	1096	F 1	GEN	1512
7990	59	88		B	KILL	4	4	1098	B |01		1512
7991	59	89	AOK2	A	&1,BOX	4	7	1102	A V23 U72		1512
7992	59	90		MN	BOX,MASK1	4	7	1109	D U72 U41		1512
7993	59	91		MCW	ON,MASK1-1	4	7	1116	M U36 U40		1512
7994	59	92		MCW	OFF,X2	4	7	1123	M U33 094		1512
7995	59	93		MCW	0&X2,X2	4	7	1130	M 0!0 094		1513
7996	59	94		S	&10,X2&1	4	7	1137	S V25 095		1513
7997	59	95		C	CODE,X2	4	7	1144	C U45 094		1513
7998	59	96		BE	NOXTR	4	5	1151	B S39 S		1513
7999	59	97		MCW	OFF,MASK2	4	7	1156	M U33 U49		1513
8000	59	98		LCA	MASK2,0&X3	4	7	1163	L U49 0?0		1514
8001	59	99		LCA	MASK1	4	4	1170	L U41		1514
8002	60	00		SBR	X3	4	4	1174	H 099		1514
8003	60	01	RETRN	C	0&X1	4	4	1178	C 0|0		1514
8004	60	02		SAR	X1	4	4	1182	Q 089		1514
8005	60	03		LCA	1&X1,0&X3	4	7	1186	L 0|1 0?0		1514
8006	60	04		SBR	X3	4	4	1193	H 099		1514
8007	60	05	KLOBR	BCE	START,0,<	4	8	1197	B 838 000 <		1515
8008	60	06		FQUIT		4				MACRO	
8009				CS	332	4	4	1205	/ 332	GEN	1515
8010				CS		4	1	1209	/	GEN	1515
8011				CC	1	4	2	1210	F 1	GEN	1515
8012				MCW	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@,270	4	7	1212	M V61 270	GEN	1515
8013				W		4	1	1219	2	GEN	1515
8014				CC	1	4	2	1220	F 1	GEN	1515
8015				BCE	*&6,MONTOR,1	4	8	1222	B S35 769 1	GEN	1516
8016				RWD	1	4	5	1230	U %U1 R	GEN	1516
8017				H	*-3	4	4	1235	. S35	GEN	1516
8018	60	07	NOXTR	LCA	MASK1,0&X3	4	7	1239	L U41 0?0		1516
8019	60	08		SBR	X3	4	4	1246	H 099		1516

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
8020	60	09		B	RETRN	4	4	1250	B /78		1516
8021	60	10	LIGHT	MCW	0&X1,BOX	4	7	1254	M 0|0 U72		1516
8022	60	11		MCW	BOX,*&8	4	7	1261	M U72 S75		1517
8023	60	12		BCE	AOK3,@1234@,0	4	8	1268	B T17 V65 0		1517
8024	60	13		CHAIN	3	4				MACRO	
8025				BCE		4	1	1276	B	GEN	1517
8026				BCE		4	1	1277	B	GEN	1517
8027				BCE		4	1	1278	B	GEN	1517
8028	60	14		FTMSG	36,ILLEGAL SENSE LIGHT,CODE,21	4				MACRO	
8029				CS	332	4	4	1279	/ 332	GEN	1517
8030				CS		4	1	1283	/	GEN	1517
8031				SW	FAILSW	4	4	1284	, 184	GEN	1518
8032				MN	CODE,224&21	4	7	1288	D U45 245	GEN	1518
8033				MN		4	1	1295	D	GEN	1518
8034				MN		4	1	1296	D	GEN	1518
8035				MCW	@ERROR 36 - ILLEGAL SENSE LIGHT, STATEMENT @	4	4	1297	M W07	GEN	1518
8036				W		4	1	1301	2	GEN	1518
8037				BCV	*&5	4	5	1302	B T11 @	GEN	1518
8038				B	*&3	4	4	1307	B T13	GEN	1519
8039				CC	1	4	2	1311	F 1	GEN	1519
8040	60	15		B	KILL	4	4	1313	B |01		1519
8041	60	16	AOK3	MCW	@080@,WORK3#3	4	7	1317	M W10 W13		1519
8042	60	17		A	BOX,WORK3	4	7	1324	A U72 W13		1519
8043	60	18		MCW	WORK3,MASK3-1	4	7	1331	M W13 U56		1519
8044	60	19		MCW	OFF	4	4	1338	M U33		1519
8045	60	20		MCW	WORK3,MASK4	4	7	1342	M W13 U61		1520
8046	60	21		MCW	ON,X2	4	7	1349	M U36 094		1520
8047	60	22		MCW	0&X2,X2	4	7	1356	M 0!0 094		1520
8048	60	23		S	&10,X2&1	4	7	1363	S V25 095		1520
8049	60	24		C	CODE,X2	4	7	1370	C U45 094		1520
8050	60	25		BE	CHEAP	4	5	1377	B U12 S		1521
8051	60	26		MCW	ON,MASK2	4	7	1382	M U36 U49		1521
8052	60	27		LCA	MASK2,0&X3	4	7	1389	L U49 0?0		1521
8053	60	28		LCA	MASK4	4	4	1396	L U61		1521
8054	60	29		LCA	MASK3	4	4	1400	L U57		1521
8055	60	30		SBR	X3	4	4	1404	H 099		1521
8056	60	31		B	RETRN	4	4	1408	B /78		1521
8057	60	32	CHEAP	LCA	MASK4,0&X3	4	7	1412	L U61 0?0		1522
8058	60	33		LCA	MASK3	4	4	1419	L U57		1522
8059	60	34		SBR	X3	4	4	1423	H 099		1522
8060	60	35		B	RETRN	4	4	1427	B /78		1522
8061	60	36	OFF	DCW	#3	4	3	1433			1522
8062	60	37	ON	DCW	#3	4	3	1436			1522
8063	60	38	MASK1	DCW	@B &@	4	5	1441			1522
8064	60	39		DCW	#1	4	1	1442			1523
8065	60	40	CODE	DCW	#3	4	3	1445			1523
8066	60	41	MASK2	DCW	@B @	4	4	1449			1523
8067	60	42	MASK3	DCW	@V 1@	4	8	1457			1523
8068	60	43	MASK4	DCW	@, @	4	4	1461			1523
8069	60	44		LTORG	*	4			1462		

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
				DCW	@CONTINUE@	4	8	1469		LIT	1523
				DCW	@<@	4	1	1470		LIT	1523
				DCW	@K@	4	1	1471		LIT	1524
			BOX	4	DCW			1472		AREA	1524
				DCW	@0123456@	4	7	1479		LIT	1524
				DCW	@ERROR 37 - ILLEGAL SENSE SWITCH, STATEMENT @	4	43	1522		LIT	1526
				DCW	&1	4	1	1523		LIT	1526
				DCW	&10	4	2	1525		LIT	1526
				DCW	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@	4	36	1561		LIT	1527
				DCW	@1234@	4	4	1565		LIT	1528
				DCW	@ERROR 36 - ILLEGAL SENSE LIGHT, STATEMENT @	4	42	1607		LIT	1530
				DCW	@080@	4	3	1610		LIT	1530
			WORK34	DCW	#03	4	3	1613		AREA	1530
8070	60	45	SYS1	DCW	@}@	4	1	1614		GMARK	1530
8071	60	46		XFR	START	4			B 838		1531

SYSTEM GROUP MARK

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
8072	60	47		JOB	1401 FORTRAN CONTINUE PHASE		4				
8073	60	48		FBEGN	CONTINUE,X1,,,X3,,&		4			MACRO	
8074				SFX	&		&			GEN	
8075			110	DCW	@CONTINUE@		&	8	0110	GEN	1534
8076			X1	EQU	089		&		0089	GEN	
8077			X3	EQU	099		&		0099	GEN	
8078	60	49		ORG	XBEGIN		&		0838		
8079	60	50	START	BCE	OUT,0&X1,		&	8	0838	B 861 0|0	1535
8080	60	51		MCW	0&X1, CODE#4		&	7	0846	M 0|0 925	1535
8081	60	52		BCE	ISCTU, CODE-3, C		&	8	0853	B 884 922 C	1535
8082	60	53	OUT	FENDX	C,,,,,SYS1,DOMSK		&			MACRO	
8083			OUT	BSS	333,C		&	5	0861	B 333 C	1535
8084				SBR	TCLEAR, SYS1		&	7	0866	H 710 931	1535
8085				LCA	@DOMSK@,110		&	7	0873	L 930 110	1536
8086				B	MONTER		&	4	0880	B 700	1536
8087	60	54	ISCTU	MVDWN	X1,X3		&			MACRO	
8088			ISCTU	LCA	0&X1,0&X3		&	7	0884	L 0|0 0?0	1536
8089				SAR	X1		&	4	0891	Q 089	1536
8090				C	0&X3		&	4	0895	C 0?0	1536
8091				SAR	X3		&	4	0899	Q 099	1536
8092	60	55		LCA	1&X1,2&X3		&	7	0903	L 0|1 0?2	1536
8093	60	56		C	0&X1		&	4	0910	C 0|0	1537
8094	60	57		SAR	X1		&	4	0914	Q 089	1537
8095	60	58		B	START		&	4	0918	B 838	1537
8096	60	59		LTORG	*		&		0922		
			CODE &	DCW	#04		&	4	0925		AREA 1537
				DCW	@DOMSK@		&	5	0930		LIT 1537
8097	60	60	SYS1	DCW	@}@		&	1	0931		GMARK 1537
8098	60	61		XFR	START		&		B 838		1538

SYSTEM GROUP MARK

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
8099	60	62		JOB	1401 FORTRAN DO PHASE	&					
8100	60	63		FBEGN	DOMSK,X1,,X2,R,X3,,%	&				MACRO	
8101				SFX	%	%				GEN	
8102			110	DCW	@DOMSK@	%	5	0110		GEN	1541
8103			X1	EQU	089	%		0089		GEN	
8104			X2	EQU	094	%		0094		GEN	
8105			094	DCW	000	%	3	0094		GEN	1542
8106			096	DC	00	%	2	0096		GEN	1542
8107			X3	EQU	099	%		0099		GEN	
8108	60	64	*	DO PHASE	ALGORITHM						
8109	60	65	*								
8110	60	66	*		OUTER						
8111	60	67	*								
8112	60	68	*		NO SAME DIFF						
8113	60	69	*	I	B XT B XT B XT						
8114	60	70	*	N							
8115	60	71	*	N	GM T BK T IN T BK						
8116	60	72	*	E	EZ B BK B IN B BK						
8117	60	73	*	R	HD - BK - IN - BK						
8118	60	74	*								
8119	60	75		ORG	XBEGIN	%			0838		
8120	60	76	INITL	SW	GM1,GM2	%	7	0838	, V98 W26		1543
8121	60	77		SW	GM3,GM4	%	7	0845	, W31 W22		1543
8122	60	78		MCW	X3,HEX3#3	%	7	0852	M 099 W37		1543
8123	60	79	START	BWZ	OUT,000&X1,1	%	8	0859	V V33 0|0 1		1543
8124	60	80		MCW	@<@,2&X1	%	7	0867	M W38 0|2		1543
8125	60	81		SBR	KLOBR&6,2&X1	%	7	0874	H S65 0|2		1544
8126	60	82		C	000&X1	%	4	0881	C 0|0		1544
8127	60	83		SAR	X1	%	4	0885	Q 089		1544
8128	60	84		C	002&X1,@D@	%	7	0889	C 0|2 W39		1544
8129	60	85		BU	DUN	%	5	0896	B V26 /		1544
8130	60	86		CW	XDOAD1,XDOAD2	%	7	0901	) 111 112		1544
8131	60	87		CW	XDOAD3,XDOINI	%	7	0908	) 113 114		1545
8132	60	88		MCW	005&X1,X2	%	7	0915	M 0|5 094		1545
8133	60	89		MCW	000&X2, TOP#3	%	7	0922	M 0!0 W42		1545
8134	60	90		MCW	000&X1,X2	%	7	0929	M 0|0 094		1545
8135	60	91		SAR	X1	%	4	0936	Q 089		1545
8136	60	92		MCW	000&X2,BOTM#3	%	7	0940	M 0!0 W45		1545
8137	60	93		ZA	TOP,ACCUM#3	%	7	0947	? W42 W48		1546
8138	60	94		S	BOTM,ACCUM	%	7	0954	S W45 W48		1546
8139	60	95		MCW	@N@,SWTCH	%	7	0961	M W49 S12		1546
8140	60	96		BWZ	ERR1,ACCUM,B	%	8	0968	V T97 W48 B		1546
8141	60	97		MCW	X1,X2	%	7	0976	M 089 094		1546
8142	60	98		MCW	@ @,EXIT	%	7	0983	M W52 W21		1547
8143	60	99		MCW	@T@,GOBAK-3	%	7	0990	M W53 W27		1547
8144	61	00		MCW	@B@,NOAPX	%	7	0997	M W54 S16		1547
8145	61	01	LOOP	C	000&X2	%	4	1004	C 0!0		1547
8146	61	02		C		%	1	1008	C		1547
8147	61	03		SAR	X2	%	4	1009	Q 094		1547
8148	61	04		C	002&X2,@D@	%	7	1013	C 0!2 W39		1547

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SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
8149	61	05		BU	DIFNT	%	5	1020	B 90 /		1548
8150	61	06		MCW	000&X2,X3	%	7	1025	M 0!0 099		1548
8151	61	07		C	000&X3,TOP	%	7	1032	C 0?0 W42		1548
8152	61	08		BH	LOOP	%	5	1039	B |04 U		1548
8153	61	09		C	000&X3,BOTM	%	7	1044	C 0?0 W45		1548
8154	61	10		BH	ERR2	%	5	1051	B U42 U		1548
8155	61	11		BCE	RUDIF,1&X2,H	%	8	1056	B |71 0!1 H		1549
8156	61	12		MCW	@E@,1&X2	%	7	1064	M W55 0!1		1549
8157	61	13	RUDIF	BL	DIFNT	%	5	1071	B |90 T		1549
8158	61	14		MCW	@H@,1&X2	%	7	1076	M W56 0!1		1549
8159	61	15		MCW	5&X2,EXIT	%	7	1083	M 0!5 W21		1549
8160	61	16	DIFNT	BCE	MDIFY,4&X1,H	%	8	1090	B /20 0!4 H		1550
8161	61	17		MCW	@N@,NOAPX	%	7	1098	M W49 S16		1550
8162	61	18		BCE	MDIFY,4&X1,}	%	8	1105	B /20 0!4 }	GMARK	1550
8163	61	19		MCW	@B@,GOBAK-3	%	7	1113	M W54 W27		1550
8164	61	20	MDIFY	MCW	BOTM,MASK	%	7	1120	M W45 W34		1550
8165	61	21		SW	006&X1	%	4	1127	, 0!6		1551
8166	61	22		MCW	008&X1,MASK-9	%	7	1131	M 0!8 W25		1551
8167	61	23		MCW	008&X1,GOBAK	%	7	1138	M 0!8 W30		1551
8168	61	24	CKSYN	B	TEST	%	4	1145	B T01		1551
8169	61	25		DCW	@,@	%	1	1149			1551
8170	61	26		DCW	&I	%	3	1152	W18		1551
8171	61	27		B	TEST	%	4	1153	B T01		1551
8172	61	28		DCW	@#@	%	1	1157			1552
8173	61	29		DCW	&M1	%	3	1160	W09		1552
8174	61	30		B	TEST	%	4	1161	B T01		1552
8175	61	31		DCW	@,@	%	1	1165			1552
8176	61	32		DCW	&M2	%	3	1168	W12		1552
8177	61	33		BWZ	M3IS1,000&X1,1	%	8	1169	V T86 0!0 1		1552
8178	61	34		B	TEST	%	4	1177	B T01		1552
8179	61	35		DCW	@,@	%	1	1181			1553
8180	61	36		DCW	&M3	%	3	1184	W15		1553
8181	61	37		BWZ	SEND,000&X1,1	%	8	1185	V /97 0!0 1		1553
8182	61	38		B	ERROR	%	4	1193	B U80		1553
8183	61	39	SEND	MCW	HEX3,X3	%	7	1197	M W37 099		1553
8184	61	40		MN	000&X1	%	4	1204	D 0!0		1553
8185	61	41		SAR	X1	%	4	1208	Q 089		1553
8186	61	42	SWTCH	NOP	KLOBR	%	4	1212	N S59		1554
8187	61	43	NOAPX	NOP	REG	%	4	1216	N S40		1554
8188	61	44		A	&1,GNSTMZ	%	7	1220	A W57 151		1554
8189	61	45		LCA	MASK,000&X3	%	7	1227	L W34 0?0		1554
8190	61	46		CHAIN	2	%				MACRO	
8191				LCA		%	1	1234	L	GEN	1554
8192				LCA		%	1	1235	L	GEN	1554
8193	61	47		SBR	X3	%	4	1236	H 099		1554
8194	61	48	REG	LCA	GM2-1,0&X3	%	7	1240	L W25 0?0		1555
8195	61	49		CHAIN	8	%				MACRO	
8196				LCA		%	1	1247	L	GEN	1555
8197				LCA		%	1	1248	L	GEN	1555
8198				LCA		%	1	1249	L	GEN	1555

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
8199				LCA		%	1	1250	L	GEN	1555
8200				LCA		%	1	1251	L	GEN	1555
8201				LCA		%	1	1252	L	GEN	1555
8202				LCA		%	1	1253	L	GEN	1556
8203				LCA		%	1	1254	L	GEN	1556
8204	61	50		SBR	HEX3	%	4	1255	H W37		1556
8205	61	51	KLOBR	BCE	START,0,<	%	8	1259	B 859 000 <		1556
8206	61	52		FQUIT		%				MACRO	
8207				CS	332	%	4	1267	/ 332	GEN	1556
8208				CS		%	1	1271	/	GEN	1556
8209				CC	1	%	2	1272	F 1	GEN	1556
8210				MCW	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@,270	%	7	1274	M W93 270	GEN	1557
8211				W		%	1	1281	2	GEN	1557
8212				CC	1	%	2	1282	F 1	GEN	1557
8213				BCE	*&6,MONTOR,1	%	8	1284	B S97 769 1	GEN	1557
8214				RWD	1	%	5	1292	U %U1 R	GEN	1557
8215				H	*-3	%	4	1297	. S97	GEN	1557
8216	61	53	TEST	SBR	X2	%	4	1301	H 094		1557
8217	61	54		C	000&X1,000&X2	%	7	1305	C 0|0 0!0		1558
8218	61	55		SAR	X1	%	4	1312	Q 089		1558
8219	61	56		BU	ERROR	%	5	1316	B U80 /		1558
8220	61	57		MCW	003&X2,*&7	%	7	1321	M 0!3 T34		1558
8221	61	58		MCW	000&X1,000	%	7	1328	M 0|0 000		1558
8222	61	59		S	COUNT#1	%	4	1335	S W94		1558
8223	61	60	OK	A	&1,COUNT	%	7	1339	A W57 W94		1559
8224	61	61		BCE	004&X2,COUNT,D	%	8	1346	B 0!4 W94 D		1559
8225	61	62		MN	000&X1,RUOK&7	%	7	1354	D 0|0 T72		1559
8226	61	63		SAR	X1	%	4	1361	Q 089		1559
8227	61	64	RUOK	BCE	OK,@0123456789@,0	%	8	1365	B T39 X04 0		1559
8228	61	65		CHAIN	9	%				MACRO	
8229				BCE		%	1	1373	B	GEN	1559
8230				BCE		%	1	1374	B	GEN	1559
8231				BCE		%	1	1375	B	GEN	1560
8232				BCE		%	1	1376	B	GEN	1560
8233				BCE		%	1	1377	B	GEN	1560
8234				BCE		%	1	1378	B	GEN	1560
8235				BCE		%	1	1379	B	GEN	1560
8236				BCE		%	1	1380	B	GEN	1560
8237				BCE		%	1	1381	B	GEN	1560
8238	61	66		B	ERROR	%	4	1382	B U80		1561
8239	61	67	M3IS1	MCW	ONEADR,M3	%	7	1386	M 142 W15		1561
8240	61	68		B	SEND	%	4	1393	B /97		1561
8241	61	69	ERR1	FTMSG	38,ILLEGAL RANGE OF DO, TOP,21	%				MACRO	
8242			ERR1	CS	332	%	4	1397	/ 332	GEN	1561
8243				CS		%	1	1401	/	GEN	1561
8244				SW	FAILSW	%	4	1402	, 184	GEN	1561
8245				MN	TOP,224&21	%	7	1406	D W42 245	GEN	1561
8246				MN		%	1	1413	D	GEN	1562
8247				MN		%	1	1414	D	GEN	1562
8248				MCW	@ERROR 38 - ILLEGAL RANGE OF DO, STATEMENT @	%	4	1415	M X46	GEN	1562

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
8249				W		%	1	1419	2	GEN	1562
8250				BCV	*&5	%	5	1420	B U29 @	GEN	1562
8251				B	*&3	%	4	1425	B U31	GEN	1562
8252				CC	1	%	2	1429	F 1	GEN	1562
8253	61	70	AVOID	MCW	@B@,SWTCH	%	7	1431	M W54 S12		1563
8254	61	71		B	CKSYN	%	4	1438	B /45		1563
8255	61	72	ERR2	FTMSG	39,ILLEGAL NESTING,TOP,17	%				MACRO	
8256			ERR2	CS	332	%	4	1442	/ 332	GEN	1563
8257				CS		%	1	1446	/	GEN	1563
8258				SW	FAILSW	%	4	1447	, 184	GEN	1563
8259				MN	TOP,224&17	%	7	1451	D W42 241	GEN	1563
8260				MN		%	1	1458	D	GEN	1563
8261				MN		%	1	1459	D	GEN	1564
8262				MCW	@ERROR 39 - ILLEGAL NESTING, STATEMENT @	%	4	1460	M X84	GEN	1564
8263				W		%	1	1464	2	GEN	1564
8264				BCV	*&5	%	5	1465	B U74 @	GEN	1564
8265				B	*&3	%	4	1470	B U76	GEN	1564
8266				CC	1	%	2	1474	F 1	GEN	1564
8267	61	73		B	AVOID	%	4	1476	B U31		1564
8268	61	74	ERROR	FTMSG	40,DO SYNTAX,TOP,11	%				MACRO	
8269			ERROR	CS	332	%	4	1480	/ 332	GEN	1565
8270				CS		%	1	1484	/	GEN	1565
8271				SW	FAILSW	%	4	1485	, 184	GEN	1565
8272				MN	TOP,224&11	%	7	1489	D W42 235	GEN	1565
8273				MN		%	1	1496	D	GEN	1565
8274				MN		%	1	1497	D	GEN	1565
8275				MCW	@ERROR 40 - DO SYNTAX, STATEMENT @	%	4	1498	M Y16	GEN	1565
8276				W		%	1	1502	2	GEN	1566
8277				BCV	*&5	%	5	1503	B V12 @	GEN	1566
8278				B	*&3	%	4	1508	B V14	GEN	1566
8279				CC	1	%	2	1512	F 1	GEN	1566
8280	61	75		C	001&X1	%	4	1514	C 0|1		1566
8281	61	76		SAR	X1	%	4	1518	Q 089		1566
8282	61	77		B	KLOBR	%	4	1522	B S59		1566
8283	61	78	DUN	SBR	X1,5&X1	%	7	1526	H 089 0|5		1567
8284	61	79	OUT	MCW	HEX3,X3	%	7	1533	M W37 099		1567
8285	61	80		MN	0&X3	%	4	1540	D 0?0		1567
8286	61	81		SAR	X2	%	4	1544	Q 094		1567
8287	61	82	KLEAR	CS	0&X2	%	4	1548	/ 0!0		1567
8288	61	83		SBR	X2	%	4	1552	H 094		1567
8289	61	84		C	0&X2,DOEND	%	7	1556	C 0!0 Y99		1567
8290	61	85		BU	KLEAR	%	5	1563	B V48 /		1568
8291	61	86		FENDX	E,GM1,,,BEGINZ,,TABELZ,RESORT 1	%				MACRO	
8292				BSS	333,E	%	5	1568	B 333 E	GEN	1568
8293				SBR	INITXT&3,BEGINZ	%	7	1573	H 796 /75	GEN	1568
8294				SBR	TCLEAR,TABELZ	%	7	1580	H 710 M99	GEN	1568
8295				LCA	@RESORT 1@,110	%	7	1587	L Y24 110	GEN	1568
8296				B	MONTER	%	4	1594	B 700	GEN	1568
8297	61	87	GM1	DC	@}@ GROUP MK	%	1	1598		GMARK	1568
8298	61	88		DCW	@T@	%	1	1599			1568

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
8299	61	89		DC	DOADR1	%	3	1602	924		1569
8300	61	90		DCW	@T@	%	1	1603			1569
8301	61	91		DC	DOADR2	%	3	1606	921		1569
8302	61	92	M1	DCW	#3	%	3	1609			1569
8303	61	93	M2	DCW	#3	%	3	1612			1569
8304	61	94	M3	DCW	#3	%	3	1615			1569
8305	61	95	I	DCW	#3	%	3	1618			1570
8306	61	96	EXIT	DCW	#3	%	3	1621			1570
8307	61	97	GM4	DC	@}@ GROUP MK	%	1	1622		GMARK	1570
8308	61	98		DC	#3 XYZ OF INTERNAL NUMBER	%	3	1625			1570
8309	61	99	GM2	DC	@}@ GROUP MK	%	1	1626		GMARK	1570
8310	62	00		DCW	@T@	%	1	1627			1570
8311	62	01	GOBAK	DC	#3	%	3	1630			1570
8312	62	02	GM3	DC	@}@ GROUP MK	%	1	1631		GMARK	1570
8313	62	03	MASK	DC	#3	%	3	1634			1570
8314	62	04		LTORG	*	%			1635		
			HEX3	% DCW	#03	%	3	1637		AREA	1570
				DCW	@<@	%	1	1638		LIT	1570
				DCW	@D@	%	1	1639		LIT	1570
			TOP	% DCW	#03	%	3	1642		AREA	1570
			BOTM	% DCW	#03	%	3	1645		AREA	1571
			ACCUM	% DCW	#03	%	3	1648		AREA	1571
				DCW	@N@	%	1	1649		LIT	1571
				DCW	@ @	%	3	1652		LIT	1571
				DCW	@T@	%	1	1653		LIT	1571
				DCW	@B@	%	1	1654		LIT	1571
				DCW	@E@	%	1	1655		LIT	1571
				DCW	@H@	%	1	1656		LIT	1572
				DCW	&1	%	1	1657		LIT	1572
				DCW	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@	%	36	1693		LIT	1572
			COUNT	% DCW	#01	%	1	1694		AREA	1572
				DCW	@0123456789@	%	10	1704		LIT	1573
				DCW	@ERROR 38 - ILLEGAL RANGE OF DO, STATEMENT @	%	42	1746		LIT	1575
				DCW	@ERROR 39 - ILLEGAL NESTING, STATEMENT @	%	38	1784		LIT	1576
				DCW	@ERROR 40 - DO SYNTAX, STATEMENT @	%	32	1816		LIT	1577
				DCW	@RESORT 1@	%	8	1824		LIT	1578
8315	62	05		DCW	@}@ SYSTEM GROUP MARK	%	1	1825		GMARK	1578
8316	62	06		ORG	*&X00	%			1900		
8317	62	07	DOEND	EQU	*	%		1899			
8318	62	08		XFR	INITL	%			B 838		1579

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
8319	62	09		JOB	1401 FORTRAN RESORT PHASE ONE	%					
8320	62	10		FBEGN	RESORT 1,X1,,X2,,X3,,Z	%				MACRO	
8321				SFX	Z	Z				GEN	
8322			110	DCW	@RESORT 1@	Z	8	0110		GEN	1582
8323			X1	EQU	089	Z		0089		GEN	
8324			X2	EQU	094	Z		0094		GEN	
8325			X3	EQU	099	Z		0099		GEN	
8326	62	11		ORG	XBEGIN	Z			0838		
8327	62	12	THREE	DCW	0	Z	1	0838			1583
8328	62	13	COUNT	DCW	000	Z	3	0841			1583
8329	62	14	ASIDE	DCW	000	Z	3	0844			1583
8330	62	15	TBL1	DCW	000	Z	3	0847			1583
8331	62	16	LAST	DCW	000	Z	3	0850			1583
8332	62	17	STORE	DCW	000	Z	3	0853			1583
8333	62	18	SAUCE	DCW	000	Z	3	0856			1583
8334	62	19	DIFF	DCW	000	Z	3	0859			1584
8335	62	20	ADDIN	DCW	000	Z	3	0862			1584
8336	62	21	INTNO	DCW	000	Z	3	0865			1584
8337	62	22	FROMX	EQU	SAUCE	Z		0856			
8338	62	23	WKBK1	DCW	00000	Z	5	0870			1584
8339	62	24	WKBK2	DCW	00000	Z	5	0875			1584
8340	62	25	AREA1	DCW	00000	Z	5	0880			1584
8341	62	26	ADRES	EQU	BSAUCE	Z		0148			
8342	62	27	TBL2	DCW	000	Z	3	0883			1584
8343	62	28	TEST1	DCW	0	Z	1	0884			1585
8344	62	29	ZONE	DCW	99	Z	2	0886			1585
8345	62	30	HOLD	DCW	@ @	Z	5	0891			1585
8346	62	31	CNVRT	DCW	@ @	Z	5	0896			1585
8347	62	32	TABLE	DCW	9	Z	1	0897			1585
8348	62	33		DC	9	Z	1	0898			1585
8349	62	34		DCW	@Z9@	Z	2	0900			1585
8350	62	35		DCW	@R9@	Z	2	0902			1585
8351	62	36		DCW	@I9@	Z	2	0904			1586
8352	62	37		DCW	@9Z@	Z	2	0906			1586
8353	62	38		DCW	@ZZ@	Z	2	0908			1586
8354	62	39		DCW	@RZ@	Z	2	0910			1586
8355	62	40		DCW	@IZ@	Z	2	0912			1586
8356	62	41		DCW	@9R@	Z	2	0914			1586
8357	62	42		DCW	@ZR@	Z	2	0916			1586
8358	62	43		DCW	@RR@	Z	2	0918			1587
8359	62	44		DCW	@IR@	Z	2	0920			1587
8360	62	45		DCW	@9I@	Z	2	0922			1587
8361	62	46		DCW	@ZI@	Z	2	0924			1587
8362	62	47		DCW	@RI@	Z	2	0926			1587
8363	62	48		DCW	@II@	Z	2	0928			1587
8364	62	49	K5TOK3	SBR	CMBCK&3	Z	4	0929	H 968		1587
8365	62	50		ZA	CNVRT-3,X1	Z	7	0933	? 893 089		1588
8366	62	51		MZ	@ @,X1	Z	7	0940	Y /26 089		1588
8367	62	52		A	X1	Z	4	0947	A 089		1588
8368	62	53		MZ	TABLE&X1,CNVRT-2	Z	7	0951	Y 8Z7 894		1588

CONVERT FIVE DIGIT NUMBER
TO THREE DIGIT ADRES
BLANK

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
8369	62	54		MZ	TABLE&1&X1,CNVRT	Z	7	0958	Y 8Z8 896		1588
8370	62	55	CMBCK	B	0000	Z	4	0965	B 000		1588
8371	62	56	EXPND	SBR	CZONE&10	Z	4	0969	H |24		1589
8372	62	57		MLC	@ @,HOLD	Z	7	0973	M /31 891		1589
8373	62	58		MN	CNVRT,HOLD	Z	7	0980	D 896 891		1589
8374	63	59		MN		Z	1	0987	D		1589
8375	62	60		MN		Z	1	0988	D		1589
8376	62	61		MZ	CNVRT,ZONE	Z	7	0989	Y 896 886		1589
8377	62	62		MZ	CNVRT-2,ZONE-1	Z	7	0996	Y 894 885		1589
8378	62	63		MLC	&TABLE&1,CZONE&6	Z	7	1003	M /34 |20		1590
8379	62	64		S	CNVRT	Z	4	1010	S 896		1590
8380	62	65	CZONE	C	ZONE,000	Z	7	1014	C 886 000		1590
8381	62	66		BE	000	Z	5	1021	B 000 S		1590
8382	62	67		A	@1@,HOLD-3	Z	7	1026	A /35 888		1590
8383	62	68		SW	CZONE&4	Z	4	1033	, |18		1590
8384	62	69		A	@002@,CZONE&6	Z	7	1037	A /38 |20		1591
8385	62	70		CW	CZONE&4	Z	4	1044	) |18		1591
8386	62	71		B	CZONE	Z	4	1048	B |14		1591
8387	62	72	IMVUP	SBR	HERE&3	Z	4	1052	H |91		1591
8388	62	73		MN	0&X3	Z	4	1056	D 0?0		1591
8389	62	74		SAR	X3	Z	4	1060	Q 099		1591
8390	62	75	REMCK	MCM	1&X3	Z	4	1064	P 0?1		1591
8391	62	76		MN		Z	1	1068	D		1592
8392	62	77		SBR	X3	Z	4	1069	H 099		1592
8393	62	78		BCE	REMCK,0&X3,|	Z	8	1073	B |64 0?0 |		1592
8394	62	79		SBR	X3,1&X3	Z	7	1081	H 099 0?1		1592
8395	62	80	HERE	B	0	Z	4	1088	B 000		1592
8396	62	81	ERRMS	FQUIT		Z				MACRO	
8397			ERRMS	CS	332	Z	4	1092	/ 332	GEN	1592
8398				CS		Z	1	1096	/	GEN	1592
8399				CC	1	Z	2	1097	F 1	GEN	1593
8400				MCW	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@,270	Z	7	1099	M /74 270	GEN	1593
8401				W		Z	1	1106	2	GEN	1593
8402				CC	1	Z	2	1107	F 1	GEN	1593
8403				BCE	*&6,MONTOR,1	Z	8	1109	B /22 769 1	GEN	1593
8404				RWD	1	Z	5	1117	U %U1 R	GEN	1593
8405				H	*-3	Z	4	1122	. /22	GEN	1593
8406	62	82		LTORG	*	Z			1126		
				DCW	@ @	Z	1	1126		LIT	1594
				DCW	@ @	Z	5	1131		LIT	1594
				DCW	&TABLEZ&1	Z	3	1134	898	ADCON	1594
				DCW	@1@	Z	1	1135		LIT	1594
				DCW	@002@	Z	3	1138		LIT	1594
				DCW	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@	Z	36	1174		LIT	1595
8407	62	83	BEGIN	SBR	SAUCE,0&X3	Z	7	1175	H 856 0?0		1596
8408	62	84		SBR	X1,END	Z	7	1182	H 089 M99		1596
8409	62	85		SBR	TBL1	Z	4	1189	H 847		1596
8410	62	86		MLC	INTST,TMS3&6	Z	7	1193	M 183 S13		1596
8411	62	87		MZ	@Z@,TMS3&5	Z	7	1200	Y V23 S12		1596
8412	62	88	TMS3	SBR	X1,0	Z	7	1207	H 089 000		1596

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
8413	62	89		A	@1@,THREE	Z	7	1214	A V24 838		1597
8414	62	90		C	THREE,@3@	Z	7	1221	C 838 V25		1597
8415	62	91		BH	TMS3	Z	5	1228	B S07 U		1597
8416	62	92		SBR	COUNT,0&X1	Z	7	1233	H 841 0|0		1597
8417	62	93		SBR	TBL2,1&X1	Z	7	1240	H 883 0|1		1597
8418	62	94		MLC	@ @,THREE	Z	7	1247	M V26 838		1598
8419	62	95		BCE	*&5,GNSTM,	Z	8	1254	B S66 151		1598
8420	62	96		B	*&27	Z	4	1262	B S92		1598
8421	62	97		SBR	ADDIN,1&X1	Z	7	1266	H 862 0|1		1598
8422	62	98		SBR	CNVRT	Z	4	1273	H 896		1598
8423	62	99		B	EXPND	Z	4	1277	B 969		1598
8424	63	00		MLC	HOLD,WKBK1	Z	7	1281	M 891 870		1599
8425	63	01		B	ROOM	Z	4	1288	B T61		1599
8426	63	02		MLC	GNSTM,WKBK2	Z	7	1292	M 151 875		1599
8427	63	03		A	WKBK2	Z	4	1299	A 875		1599
8428	63	04		A	WKBK2	Z	4	1303	A 875		1599
8429	63	05		A	GNSTM	Z	4	1307	A 151		1599
8430	63	06		A	GNSTM,WKBK2	Z	7	1311	A 151 875		1599
8431	63	07		SBR	CNVRT,1&X1	Z	7	1318	H 896 0|1		1600
8432	63	08		B	EXPND	Z	4	1325	B 969		1600
8433	63	09		MLC	HOLD,WKBK1	Z	7	1329	M 891 870		1600
8434	63	10		A	WKBK2,WKBK1	Z	7	1336	A 875 870		1600
8435	63	11		MLC	WKBK1,CNVRT	Z	7	1343	M 870 896		1600
8436	63	12		B	K5TOK3	Z	4	1350	B 929		1600
8437	63	13		MLC	CNVRT,ADDIN	Z	7	1354	M 896 862		1601
8438	63	14	ROOM	MLC	SAUCE,CNVRT	Z	7	1361	M 856 896		1601
8439	63	15		B	EXPND	Z	4	1368	B 969		1601
8440	63	16		MLC	HOLD,AREA1	Z	7	1372	M 891 880		1601
8441	63	17		C	WKBK1,AREA1	Z	7	1379	C 870 880		1601
8442	63	18		BH	*&5	Z	5	1386	B T95 U		1601
8443	63	19		B	ERRMS	Z	4	1391	B |92		1602
8444	63	20		MESSG	@STARTING ADDRESS OF STATEMENTS@,43,1,K	Z				MACRO	
8445				CC	1	Z	2	1395	F 1	GEN	1602
8446				CS	332	Z	4	1397	/ 332	GEN	1602
8447				CS		Z	1	1401	/	GEN	1602
8448				MCW	@STARTING ADDRESS OF STATEMENTS@,43&200	Z	7	1402	M V56 243	GEN	1602
8449				W		Z	1	1409	2	GEN	1602
8450				CC	K	Z	2	1410	F K	GEN	1602
8451	63	21		CS	332	Z	4	1412	/ 332		1603
8452	63	22		CS		Z	1	1416	/		1603
8453	63	23		MCW	@SEQ@,208	Z	7	1417	M V59 208		1603
8454	63	24		MCW	@STARTING ADDRESS@,242	Z	7	1424	M V75 242		1603
8455	63	25		MCW	@DISPLAY@,256	Z	7	1431	M V82 256		1603
8456	63	26		W		Z	1	1438	2		1603
8457	63	27		CC	J	Z	2	1439	F J		1603
8458	63	28		CS	332	Z	4	1441	/ 332		1604
8459	63	29		CS		Z	1	1445	/		1604
8460	63	30		LCA	@000@,208	Z	7	1446	L V85 208		1604
8461	63	31		MLC	FROMX,X1	Z	7	1453	M 856 089		1604
8462	63	32		SBR	X1,2&X1	Z	7	1460	H 089 0|2		1604
					GMWM1&1 TOP						

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
8463	63	33		SBR	X3	Z	4	1467	H 099		1604
8464	63	34		B	IMVUP	Z	4	1471	B |52		1604
8465	63	35		MLC	X3,X2	Z	7	1475	M 099 094		1605
8466	63	36		FENDX	C,,BEGIN,BEGIN,BEGIN,SYS1,RESORT 2	Z				MACRO	
8467				BSS	333,C	Z	5	1482	B 333 C	GEN	1605
8468				SBR	INITAP&6,BEGIN	Z	7	1487	H 786 /75	GEN	1605
8469				SBR	BCLEAR	Z	4	1494	H 833	GEN	1605
8470				SBR	INITXT&3,BEGIN	Z	7	1498	H 796 /75	GEN	1605
8471				SBR	TCLEAR,SYS1	Z	7	1505	H 710 V94	GEN	1605
8472				LCA	@RESORT 2@,110	Z	7	1512	L V93 110	GEN	1606
8473				B	MONTER	Z	4	1519	B 700	GEN	1606
8474	63	37		LTORG	*	Z			1523		
				DCW	@Z@	Z	1	1523		LIT	1606
				DCW	@1@	Z	1	1524		LIT	1606
				DCW	@3@	Z	1	1525		LIT	1606
				DCW	@ @	Z	1	1526		LIT	1606
				DCW	@STARTING ADDRESS OF STATEMENTS@	Z	30	1556		LIT	1607
				DCW	@SEQ@	Z	3	1559		LIT	1607
				DCW	@STARTING ADDRESS@	Z	16	1575		LIT	1608
				DCW	@DISPLAY@	Z	7	1582		LIT	1608
				DCW	@000@	Z	3	1585		LIT	1608
				DCW	@RESORT 2@	Z	8	1593		LIT	1608
8475	63	38	SYS1	DCW	@}@	Z	1	1594		GMARK	1608
8476	63	39		XFR	BEGIN	Z			B /75		1609

SYSTEM GROUP MARK

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
8477	63	40		JOB	1401 FORTRAN RESORT PHASE TWO	Z					
8478	63	41		ORG	BEGIN	Z			1175		
8479	63	42	110	DC	2	Z	1	0110			1612
8480	63	43		MLC	TBL2,X3 ADRES OF TBL2 IN X3	Z	7	1175	M 883 099		1613
8481	63	44		B	SAVE	Z	4	1182	B S25		1613
8482	63	45	INIT	SBR	X2,2&X2	Z	7	1186	H 094 012		1613
8483	63	46		MZ	X3,ASIDE	Z	7	1193	Y 099 844		1613
8484	63	47		MLC	X2,X3	Z	7	1200	M 094 099		1613
8485	62	48		B	IMVUP	Z	4	1207	B |52		1613
8486	62	49		MLC	X3,X2 POS GMWM2&1 IN X2	Z	7	1211	M 099 094		1614
8487	62	50		MLC	ASIDE,X3	Z	7	1218	M 844 099		1614
8488	63	51	SAVE	SBR	STORE,2&X2 POS GMWM3-1 IN STORE	Z	7	1225	H 853 012		1614
8489	63	52		BWZ	*&5,0&X2,2 ZONE IN HUNS POS OF INT NO	Z	8	1232	V S44 010 2		1614
8490	63	53		B	*&9	Z	4	1240	B S52		1614
8491	63	54		BWZ	CNTNU,2&X2,2 TST FOR ZN IN UNTS POS OF INT NO	Z	8	1244	V S70 012 2		1615
8492	63	55		MLC	2&X2,X2 PCKUP INTNO FROM TBL PUT IN X2	Z	7	1252	M 012 094		1615
8493	63	56		MLC	0&X2,X2	Z	7	1259	M 010 094		1615
8494	63	57		B	*&8	Z	4	1266	B S77		1615
8495	63	58	CNTNU	MLC	2&X2,X2 PLACE INTNO IN X2	Z	7	1270	M 012 094		1615
8496	63	59		SBR	INTNO,0&X2	Z	7	1277	H 865 010		1616
8497	63	60		SBR	MLPLY&6	Z	4	1284	H T01		1616
8498	63	61		MZ	@R@,MLPLY&5	Z	7	1288	Y W55 T00		1616
8499	63	62	MLPLY	SBR	X2,0	Z	7	1295	H 094 000		1616
8500	63	63		MLC	INTNO,*&14	Z	7	1302	M 865 T22		1616
8501	63	64		MZ	@R@,*&6	Z	7	1309	Y W55 T21		1616
8502	63	65		SBR	X2,0	Z	7	1316	H 094 000		1617
8503	63	66		C	TABEL&X2,@ @ TEST FOR FILLED TABLE-BLANKS	Z	7	1323	C MR9 W58		1617
8504	63	67		BU	GNTBL	Z	5	1330	B T46 /		1617
8505	63	68		MLC	X1,TABEL&X2 HI ORD POS OF INST IN TBL1	Z	7	1335	M 089 MR9		1617
8506	63	69		B	SETX1	Z	4	1342	B T96		1617
8507	63	70	GNTBL	SW	3&X3	Z	4	1346	, 0?3		1617
8508	63	71		MLC	TABEL&X2,5&X3 GEN BRANCH SECOND IN TBL2	Z	7	1350	M MR9 0?5		1618
8509	63	72		CW	3&X3	Z	4	1357	) 0?3		1618
8510	63	73		MLC	X1,2&X3 ORIG INST FIRST IN TBL2	Z	7	1361	M 089 0?2		1618
8511	63	74		MLC	@1@,TEST1 SWTCH FOR REPLC TBL	Z	7	1368	M W59 884		1618
8512	63	75		SBR	TABEL&X2,2&X3 LOW ORDER POS OF ENTRY1, TBL2	Z	7	1375	H MR9 0?2		1618
8513	63	76		MZ	@Z@,TABEL-1&X2 A ZONE IN TENS POS OF TBL1	Z	7	1382	Y W60 MR8		1618
8514	63	77		SBR	X3,6&X3	Z	7	1389	H 099 0?6		1619
8515	63	78	SETX1	MLC	STORE,X2	Z	7	1396	M 853 094		1619
8516	63	79		C	ADRES,STORE	Z	7	1403	C 148 853		1619
8517	63	80		BU	RESET	Z	5	1410	B V90 /		1619
8518	63	81		BCE	CTOAL,TEST1,0	Z	8	1415	B U48 884 0		1619
8519	63	82		MLC	@0@,TEST1	Z	7	1423	M W61 884		1620
8520	63	83		MLC	X1,X3	Z	7	1430	M 089 099		1620
8521	63	84		B	IMVUP	Z	4	1437	B |52		1620
8522	63	85		MZ	@Z@,1&X3	Z	7	1441	Y W60 0?1		1620
8523	63	86	CTOAL	MLC	ADDIN,X2	Z	7	1448	M 862 094		1620
8524	63	87		LCA	@:@,0&X2 5-8 WITH WM ABOVE PROGRAM	Z	7	1455	L W62 010		1620
8525	63	88		MLC	TBL1,X3 ADRES ONE POS ABOVE TABLE 1	Z	7	1462	M 847 099		1621
8526	63	89		SBR	X3,3&X3	Z	7	1469	H 099 0?3		1621

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
8527	63	90		MLC	86,CNVRT TRUE STARTING ADRES	Z	7	1476	M 086 896		1621
8528	63	91		B	EXPND	Z	4	1483	B 969		1621
8529	63	92		MLC	HOLD,WK BK1	Z	7	1487	M 891 870		1621
8530	63	93		SBR	CNVRT,0&X2	Z	7	1494	H 896 010		1621
8531	63	94		B	EXPND	Z	4	1501	B 969		1622
8532	63	95		MLC	HOLD,WK BK2	Z	7	1505	M 891 875		1622
8533	63	96		S	WK BK2,WK BK1	Z	7	1512	S 875 870		1622
8534	63	97		BWZ	*&5,WK BK1,K IS DIFF NEG	Z	8	1519	V V31 870 K		1622
8535	63	98		B	*&8	Z	4	1527	B V38		1622
8536	63	99		A	@16000@,WK BK1	Z	7	1531	A W67 870		1622
8537	64	00		MLC	WK BK1,CNVRT	Z	7	1538	M 870 896		1623
8538	64	01		B	K5TOK3	Z	4	1545	B 929		1623
8539	64	02		MLC	CNVRT,DIFF DIFF BET ACT AND FIXED ADRES	Z	7	1549	M 896 859		1623
8540	64	03		SBR	X2,1&X2 HIGH ORD ADRES OF SORTED PROGRAM	Z	7	1556	H 094 011		1623
8541	64	04		SBR	INTST	Z	4	1563	H 183		1623
8542	64	05		FENDX	C,,,,,SYS2,RESORT 3	Z				MACRO	
8543				BSS	333,C	Z	5	1567	B 333 C	GEN	1623
8544				SBR	TCLEAR,SYS2	Z	7	1572	H 710 W76	GEN	1624
8545				LCA	@RESORT 3@,110	Z	7	1579	L W75 110	GEN	1624
8546				B	MONTER	Z	4	1586	B 700	GEN	1624
8547	64	06	RESET	MLC	X3,ASIDE	Z	7	1590	M 099 844		1624
8548	64	07		MLC	X1,X3	Z	7	1597	M 089 099		1624
8549	64	08		B	IMVUP SET X1 TO GMWM1&1 OF NXT INSTR	Z	4	1604	B 152		1624
8550	64	09		MLC	X3,X1	Z	7	1608	M 099 089		1625
8551	64	10		MLC	ASIDE,X3	Z	7	1615	M 844 099		1625
8552	64	11		BCE	*&15,TEST1,0	Z	8	1622	B W44 884 0		1625
8553	64	12		MLC	@0@,TEST1	Z	7	1630	M W61 884		1625
8554	64	13		MZ	@Z@,1&X1	Z	7	1637	Y W60 011		1625
8555	64	14		SBR	X1,4&X1	Z	7	1644	H 089 014		1626
8556	64	15		B	INIT	Z	4	1651	B /86		1626
8557	64	16		LTORG	*	Z			1655		
				DCW	@R@	Z	1	1655		LIT	1626
				DCW	@ @	Z	3	1658		LIT	1626
				DCW	@1@	Z	1	1659		LIT	1626
				DCW	@Z@	Z	1	1660		LIT	1626
				DCW	@0@	Z	1	1661		LIT	1626
				DCW	@:@	Z	1	1662		LIT	1627
				DCW	@16000@	Z	5	1667		LIT	1627
				DCW	@RESORT 3@	Z	8	1675		LIT	1627
8558	64	17	SYS2	DCW	@}@	Z	1	1676		GMARK	1627
8559	64	18		XFR	BEGIN	Z			B /75		1628

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
8560	64	19		JOB	1401 FORTRAN RESORT PHASE THREE	Z					
8561	64	20		ORG	BEGIN	Z			1175		
8562	64	21	110	DC	@3@	Z	1	0110			1631
8563	64	22		SW	GMWM	Z	4	1175	, M60		1632
8564	64	23		B	NEXT&7	Z	4	1179	B /90		1632
8565	64	24	NEXT	SBR	X3,0 RE-INIT X3	Z	7	1183	H 099 000		1632
8566	64	25		SBR	LAST	Z	4	1190	H 850		1632
8567	64	26		BCE	ADONE,0&X3, TST FOR BLANKS IN TBL	Z	8	1194	B Z22 0?0		1632
8568	64	27		SBR	NEXT&6,3&X3	Z	7	1202	H /89 0?3		1632
8569	64	28		MN	0&X3	Z	4	1209	D 0?0		1632
8570	64	29		SAR	*&7	Z	4	1213	Q S23		1633
8571	64	30		BWZ	CASE2,0,S A ZONE IN TENS POS OF TBL1	Z	8	1217	V Y18 000 S		1633
8572	64	31		MLC	0&X3,X1 PLACE HI ORD POS OF INST IN X1	Z	7	1225	M 0?0 089		1633
8573	64	32		SBR	ADDIN,0&X3	Z	7	1232	H 862 0?0		1633
8574	64	33		MLC	X1,PREP1#3 SAVE X1	Z	7	1239	M 089 M39		1633
8575	64	34	SPACE	MLC	X1,X3	Z	7	1246	M 089 099		1634
8576	64	35		B	IMVUP	Z	4	1253	B |52		1634
8577	64	36		MLC	X3,CNVRT	Z	7	1257	M 099 896		1634
8578	64	37		B	EXPND	Z	4	1264	B 969		1634
8579	64	38		MLC	HOLD,AREA1	Z	7	1268	M 891 880		1634
8580	64	39		A	@1@,AREA1	Z	7	1275	A M40 880		1634
8581	64	40		MLC	PREP1,CNVRT	Z	7	1282	M M39 896		1635
8582	64	41		B	EXPND	Z	4	1289	B 969		1635
8583	64	42		MLC	HOLD,AREA2	Z	7	1293	M 891 M34		1635
8584	64	43		S	AREA2,AREA1 LNGTH OF NXT INST TO BE MOVED	Z	7	1300	S M34 880		1635
8585	64	44		MLC	X2,CNVRT NXT AVAIL POS IN SORTED AREA	Z	7	1307	M 094 896		1635
8586	64	45		B	EXPND	Z	4	1314	B 969		1635
8587	64	46		MLC	HOLD,WKBK1	Z	7	1318	M 891 870		1636
8588	64	47		B	NUFRM	Z	4	1325	B Y82		1636
8589	64	48		BL	SQUEZ	Z	5	1329	B Z63 T		1636
8590	64	49	LIST	MLC	PREP1,X1	Z	7	1334	M M39 089		1636
8591	64	50		BCE	*&12,TEST2,1 PRINT STMT NO, HI ORD ADRES	Z	8	1341	B T60 M35 1		1636
8592	64	51		A	@1@,208	Z	7	1349	A M40 208		1636
8593	64	52		B	ADDR1	Z	4	1356	B V27		1637
8594	64	53		MLC	@0@,TEST2 RESET INDICATOR	Z	7	1360	M M41 M35		1637
8595	64	54		MLC	X3,GARY&6	Z	7	1367	M 099 V26		1637
8596	64	55		MCW	3&X1,X3	Z	7	1374	M 0|3 099		1637
8597	64	56		MCW	0&X3,X3	Z	7	1381	M 0?0 099		1637
8598	64	57		SBR	3&X1,4&X3	Z	7	1388	H 0|3 0?4		1637
8599	64	58		MA	DIFF,3&X1	Z	7	1395	# 859 0|3		1638
8600	64	59		MCW	X1,HEX1#3	Z	7	1402	M 089 M44		1638
8601	64	60	ROUND	MZ	*-4,9&X3	Z	7	1409	Y U11 0?9		1638
8602	64	61		MZ	*-4,12&X3	Z	7	1416	Y U18 0A2		1638
8603	64	62		MZ	*-4,15&X3	Z	7	1423	Y U25 0A5		1638
8604	64	63		MZ	*-4,18&X3	Z	7	1430	Y U32 0A8		1639
8605	64	64		BCE	OUTER,22&X3, BLANK	Z	8	1437	B U84 0B2		1639
8606	64	65		MCW	22&X3,X1	Z	7	1445	M 0B2 089		1639
8607	64	66		MCW	0&X1,22&X3	Z	7	1452	M 0|0 0B2		1639
8608	64	67		MA	@004@,22&X3	Z	7	1459	# M47 0B2		1639
8609	64	68		MA	DIFF,22&X3	Z	7	1466	# 859 0B2		1640

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
8610	64	69		MCW	0&X1,X3	Z	7	1473	M 0|0 099		1640
8611	64	70		B	ROUND	Z	4	1480	B U09		1640
8612	64	71	OUTER	SBR	22&X3,4&X2	Z	7	1484	H 0B2 0|4		1640
8613	64	72		MA	DIFF,22&X3	Z	7	1491	# 859 0B2		1640
8614	64	73		MCW	HEX1,X1	Z	7	1498	M M44 089		1640
8615	64	74		BCE	*&8,0&X1,B	Z	8	1505	B V20 0|0 B		1641
8616	64	75		SBR	3&X1,DOADR3	Z	7	1513	H 0|3 918		1641
8617	64	76	GARY	SBR	X3,0	Z	7	1520	H 099 000		1641
8618	64	77	ADDR1	MCW	DIFF,227	Z	7	1527	M 859 227		1641
8619	64	78		MA	X2,227	Z	7	1534	# 094 227		1641
8620	64	79		MCW	227,X3	Z	7	1541	M 227 099		1642
8621	64	80		MCW	X3,CNVRT	Z	7	1548	M 099 896		1642
8622	64	81		B	EXPND	Z	4	1555	B 969		1642
8623	64	82		MCS	HOLD,244	Z	7	1559	Z 891 244		1642
8624	64	83		MCW	X3,256	Z	7	1566	M 099 256		1642
8625	64	84		MA	@004@,256	Z	7	1573	# M47 256		1642
8626	64	85		W		Z	1	1580	2		1643
8627	64	86		FORMS		Z				MACRO	
8628				BCV	*&5	Z	5	1581	B V90 @	GEN	1643
8629				B	*&3	Z	4	1586	B V92	GEN	1643
8630				CC	1	Z	2	1590	F 1	GEN	1643
8631	65	87		MLC	X2,SYMBL-1	Z	7	1592	M 094 W93		1643
8632	64	88		BCE	CNTU2,0&X1,}	Z	8	1599	B W46 0|0 }	GMARK	1643
8633	64	89		MN	0&X2	Z	4	1607	D 0|0		1643
8634	64	90		SAR	X2	Z	4	1611	Q 094		1644
8635	64	91	CTNMV	MCM	0&X1	Z	4	1615	P 0|0		1644
8636	64	92		SAR	STRX1&6	Z	4	1619	Q W41		1644
8637	64	93		MCM	0&X1,1&X2	Z	7	1623	P 0|0 0|1		1644
8638	64	94		MN		Z	1	1630	D		1644
8639	64	95		SBR	X2	Z	4	1631	H 094		1644
8640	64	96	STRX1	SBR	X1,0	Z	7	1635	H 089 000		1644
8641	64	971		B	*&15	V3M4 Z	4	1642	B W60		1645
8642	64	972	CNTU2	SBR	X1,1&X1	V3M4 Z	7	1646	H 089 0|1		1645
8643	64	973		MLC	@B@,SYMBL&7	V3M4 Z	7	1653	M M48 X01		1645
8644	64	98		BWZ	*&5,0&X1,2	Z	8	1660	V W72 0|0 2		1645
8645	64	99		B	CHNGE	Z	4	1668	B W80		1645
8646	65	00		BWZ	SYMBL,2&X1,2	Z	8	1672	V W94 0|2 2		1645
8647	65	04	CHNGE	MLC	2&X1,X3	Z	7	1680	M 0|2 099		1646
8648	65	05		SBR	0&X3,0	Z	7	1687	H 0?0 000		1646
8649	65	06	SYMBL	MLC	@:@,0&X1	Z	7	1694	M M49 0|0		1646
8650	65	07		NOP	BOTOM	Z	4	1701	N X53		1646
8651	65	08		MN	0&X1	Z	4	1705	D 0|0		1646
8652	65	09		MN		Z	1	1709	D		1646
8653	65	10		SAR	X1	Z	4	1710	Q 089		1646
8654	65	11		MN	0&X2	Z	4	1714	D 0|0		1647
8655	65	12		SAR	TRAWM&6	Z	4	1718	Q X28		1647
8656	65	13	TRAWM	LCA	0&X1,0&X2	Z	7	1722	L 0|0 0|0		1647
8657	65	14		SBR	TRAWM&6	Z	4	1729	H X28		1647
8658	65	15		C	0&X1	Z	4	1733	C 0|0		1647
8659	65	16		SAR	X1	Z	4	1737	Q 089		1647

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD		
8660	65	17		BCE	*&5,0&X1,}			12-7-8	Z	8	1741	B X53 0|0 } GMARK	1647
8661	65	18		B	TRAWM				Z	4	1749	B X22	1648
8662	65	19	BOTOM	MLC	@N@,SYMBL&7			RE-INIT NOP BRANCH	Z	7	1753	M M50 X01	1648
8663	65	20		C	LAST,COUNT				Z	7	1760	C 850 841	1648
8664	65	21		BU	TSTCS				Z	5	1767	B Y06 /	1648
8665	65	22	LDSYM	LCA	@:@,0&X2			5-8	Z	7	1772	L M49 0!0	1648
8666	65	23		SBR	X3				Z	4	1779	H 099	1648
8667	65	24		FENDX	C,,,,,SYSGM,RESORT 4				Z			MACRO	
8668				BSS	333,C				Z	5	1783	B 333 C	1648
8669				SBR	TCLEAR,SYSGM				Z	7	1788	H 710 M61	1649
8670				LCA	@RESORT 4@,110				Z	7	1795	L M58 110	1649
8671				B	MONTER				Z	4	1802	B 700	1649
8672	65	25	TSTCS	BCE	PART2,TEST1,1			TST FOR 2ND PART OF GEN INT NO	Z	8	1806	B Y50 884 1	1649
8673	65	26		B	NEXT			SORT NEXT STATEMENT	Z	4	1814	B /83	1649
8674	65	27	CASE2	MLC	0&X3,X3			LOW ORD ADRES OF TBL2	Z	7	1818	M 0?0 099	1649
8675	65	28		MLC	0&X3,X1				Z	7	1825	M 0?0 089	1650
8676	65	29		SBR	PART2&10,3&X3				Z	7	1832	H Y60 0?3	1650
8677	65	30		MLC	@1@,TEST1				Z	7	1839	M M40 884	1650
8678	65	31		B	SPACE-14				Z	4	1846	B S32	1650
8679	65	32	PART2	MLC	@0@,TEST1			RESET INDICATOR	Z	7	1850	M M41 884	1650
8680	65	33		MLC	0,X1				Z	7	1857	M 000 089	1650
8681	65	34		MLC	PART2&10,ADDIN			PREPX3 FOR WMTST	Z	7	1864	M Y60 862	1651
8682	65	35		MLC	@1@,TEST2				Z	7	1871	M M40 M35	1651
8683	65	36		B	SPACE-7				Z	4	1878	B S39	1651
8684	65	37	NUFRM	SBR	STREG&3				Z	4	1882	H Z21	1651
8685	65	38		MLC	FROMX,CNVRT				Z	7	1886	M 856 896	1651
8686	65	39		B	EXPND				Z	4	1893	B 969	1651
8687	65	40		MLC	HOLD,WKBK2				Z	7	1897	M 891 875	1652
8688	65	41		S	WKBK1,WKBK2			SPACE AVAIL FOR NXT INST	Z	7	1904	S 870 875	1652
8689	65	42		C	AREAL,WKBK2				Z	7	1911	C 880 875	1652
8690	65	43	STREG	B	0				Z	4	1918	B 000	1652
8691	65	44	ADONE	A	@1@,208			ADD 1 FOR VANISHED STMNT	Z	7	1922	A M40 208	1652
8692	65	45		C	LAST,COUNT				Z	7	1929	C 850 841	1652
8693	65	46		BE	LDSYM				Z	5	1936	B X72 S	1653
8694	65	47		SBR	X3,3&X3				Z	7	1941	H 099 0?3	1653
8695	65	48		SBR	LAST				Z	4	1948	H 850	1653
8696	65	49		B	NEXT&11				Z	4	1952	B /94	1653
8697	65	50	FIXIT	SBR	FROMX,2&X3			NEW GMWM1-1 IF HI ORD STMNT	Z	7	1956	H 856 0?2	1653
8698	65	51	SQUEZ	MLC	FROMX,X3			GMWM1-1 OR HIORD STMNT	Z	7	1963	M 856 099	1653
8699	65	52		SBR	X3,2&X3			GMWM1&1 OF HI ORD STMNT	Z	7	1970	H 099 0?2	1654
8700	65	53		B	IMVUP				Z	4	1977	B |52	1654
8701	65	54		BCE	FIXIT,0&X3,:			TST FOR USED HI ORD STMNTS 5-8	Z	8	1981	B Z56 0?0 :	1654
8702	65	55		B	NUFRM				Z	4	1989	B Y82	1654
8703	65	56		BL	LOOP-7				Z	5	1993	B !02 T	1654
8704	65	57		B	LIST				Z	4	1998	B T34	1654
8705	65	58		SBR	SAVE1&6,0&X2				Z	7	2002	H M11 0!0	1654
8706	65	59	LOOP	C	X3,PARAM&2				Z	7	2009	C 099 688	1655
8707	65	60		BE	LOPP				Z	5	2016	B !36 S	1655
8708	65	61		SBR	X1,3&X3			SAVE GMWM3	Z	7	2021	H 089 0?3	1655
8709	65	62		BCE	MVAGN-7,0&X1,}			12-7-8	Z	8	2028	B !49 0|0 } GMARK	1655

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
8710	65	63	LOPP	B	NUFRM	Z	4	2036	B Y82		1655
8711	65	64		BL	ERRMS	Z	5	2040	B |92 T		1655
8712	65	65		B	SAVE1	Z	4	2045	B M05		1656
8713	65	66		SBR	X3,4&X3	Z	7	2049	H 099 0?4		1656
8714	65	67	MVAGN	B	IMVUP	Z	4	2056	B |52		1656
8715	65	68		C	0&X3,@:@	Z	7	2060	C 0?0 M49		1656
8716	65	69		BU	LOOP	Z	5	2067	B !09 /		1656
8717	65	70		SBR	HOLD2&6,0&X3	Z	7	2072	H J38 0?0		1656
8718	65	71		SBR	STORE,2&X3	Z	7	2079	H 853 0?2		1657
8719	65	72		SBR	X3,3&X3	Z	7	2086	H 099 0?3		1657
8720	65	73	MVDWN	LCA	0&X1,0&X3	Z	7	2093	L 0|0 0?0		1657
8721	65	74		SAR	X1	Z	4	2100	Q 089		1657
8722	65	75		C	0&X3	Z	4	2104	C 0?0		1657
8723	65	76		SAR	X3	Z	4	2108	Q 099		1657
8724	65	77		BCE	*&5,0&X1,}	Z	8	2112	B J24 0|0 } GMARK		1658
8725	65	78		B	MVDWN	Z	4	2120	B !93		1658
8726	65	79		MN	0&X1	Z	4	2124	D 0|0		1658
8727	65	80		SAR	ASIDE	Z	4	2128	Q 844		1658
8728	65	81	HOLD2	SBR	X1,0	Z	7	2132	H 089 000		1658
8729	65	82		BWZ	*&5,1&X1,S	Z	8	2139	V J51 0|1 S		1658
8730	65	83		B	*&8	Z	4	2147	B J58		1658
8731	65	84		MLC	@1@,TEST3	Z	7	2151	M M40 M36		1659
8732	65	85		BWZ	*&5,0&X1,2	Z	8	2158	V J70 0|0 2		1659
8733	65	86		B	*&9	Z	4	2166	B J78		1659
8734	65	87		BWZ	UPDAT,2&X1,2	Z	8	2170	V J96 0|2 2		1659
8735	65	88		MLC	2&X1,X1	Z	7	2178	M 0|2 089		1659
8736	65	89		MLC	0&X1,X2	Z	7	2185	M 0|0 094		1660
8737	65	90		B	*&8	Z	4	2192	B K03		1660
8738	65	91	UPDAT	MLC	2&X1,X2	Z	7	2196	M 0|2 094		1660
8739	65	92		SBR	INTNO,0&X2	Z	7	2203	H 865 0!0		1660
8740	65	93		SBR	MULT&6	Z	4	2210	H K27		1660
8741	65	94		MZ	@R@,MULT&5	Z	7	2214	Y M59 K26		1660
8742	65	95	MULT	SBR	X2,0	Z	7	2221	H 094 000		1661
8743	65	96		MLC	INTNO,*&14	Z	7	2228	M 865 K48		1661
8744	65	97		MZ	@R@,*&6	Z	7	2235	Y M59 K47		1661
8745	65	98		SBR	X2,0	Z	7	2242	H 094 000		1661
8746	65	99		BWZ	ACHCK,TABEL-1&X2,S	Z	8	2249	V K68 MR8 S		1661
8747	66	00		SBR	TABEL&X2,1&X3	Z	7	2257	H MR9 0?1		1662
8748	66	01		B	NUPOS&14	Z	4	2264	B L08		1662
8749	66	02	ACHCK	MLC	TABEL&X2,X1	Z	7	2268	M MR9 089		1662
8750	66	03		BCE	NUPOS,TEST3,1	Z	8	2275	B K94 M36 1		1662
8751	66	04		SBR	3&X1,1&X3	Z	7	2283	H 0|3 0?1		1662
8752	66	05		B	NUPOS&14	Z	4	2290	B L08		1662
8753	66	06	NUPOS	SBR	0&X1,1&X3	Z	7	2294	H 0|0 0?1		1663
8754	66	07		MLC	@0@,TEST3	Z	7	2301	M M41 M36		1663
8755	66	08		C	ASIDE,FROMX	Z	7	2308	C 844 856		1663
8756	66	09		BE	RTNLD	Z	5	2315	B L48 S		1663
8757	66	10		MLC	ASIDE,X1	Z	7	2320	M 844 089		1663
8758	66	11		MN	0&X3	Z	4	2327	D 0?0		1663
8759	66	12		MN		Z	1	2331	D		1663

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
8760	66	13		MN		Z	1	2332	D		1664
8761	66	14		SAR	HOLD2&6	Z	4	2333	Q J38		1664
8762	66	15		SBR	X1,1&X1	Z	7	2337	H 089 0|1		1664
8763	66	16		B	MVDWN	Z	4	2344	B !93		1664
8764	66	17	RTNLD	LCA	GMWM,0&X3	Z	7	2348	L M60 0?0		1664
8765	66	18		SBR	FROMX	Z	4	2355	H 856		1664
8766	66	19		C	ADRES,STORE	Z	7	2359	C 148 853		1664
8767	66	20		BE	FINIS	Z	5	2366	B L96 S		1665
8768	66	21		MLC	STORE,X3	Z	7	2371	M 853 099		1665
8769	66	22		SBR	X1,1&X3	Z	7	2378	H 089 0?1		1665
8770	66	23		SBR	X3,2&X3	Z	7	2385	H 099 0?2		1665
8771	66	24		B	MVAGN	Z	4	2392	B !56		1665
8772	66	25	FINIS	B	NUFRM	Z	4	2396	B Y82		1665
8773	66	26		BL	ERRMS	Z	5	2400	B |92 T		1665
8774	66	27	SAVE1	SBR	X2,0	Z	7	2405	H 094 000		1666
8775	66	28		MLC	ADDIN,X3	Z	7	2412	M 862 099		1666
8776	66	29		MLC	0&X3,PREP1	Z	7	2419	M 0?0 M39		1666
8777	66	30		B	LIST	Z	4	2426	B T34		1666
8778	66	31	AREA2	DCW	00000	Z	5	2434			1666
8779	66	32	TEST2	DCW	0	Z	1	2435			1666
8780	66	33	TEST3	DCW	0	Z	1	2436			1666
8781	66	34		LTORG	*	Z			2437		
			PREP1Z	DCW	#03	Z	3	2439		AREA	1667
				DCW	@1@	Z	1	2440		LIT	1667
				DCW	@0@	Z	1	2441		LIT	1667
			HEX1 Z	DCW	#03	Z	3	2444		AREA	1667
				DCW	@004@	Z	3	2447		LIT	1667
				DCW	@B@	Z	1	2448		LIT	1667
				DCW	@:@	Z	1	2449		LIT	1667
				DCW	@N@	Z	1	2450		LIT	1668
				DCW	@RESORT 4@	Z	8	2458		LIT	1668
				DCW	@R@	Z	1	2459		LIT	1668
8782	66	35	GMWM	DC	@}@	Z	1	2460		GMARK	1668
8783	66	36	SYSGM	DCW	@}@	Z	1	2461		GMARK	1668
8784	66	37		ORG	*&X00	Z			2500		
8785	66	38	END	EQU	*	Z		2499			
8786	66	39	TABEL	EQU	END	Z		2499			
8787	66	40		XFR	BEGIN	Z			B /75		1669

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
8788	66	41		JOB	1401 FORTRAN RESORT PHASE FOUR	Z					
8789	66	42		ORG	BEGIN	Z			1175		
8790	66	43	110	DC	4	Z	1	0110			1672
8791	66	44		MLC	BSAUCE,X1	Z	7	1175	M 148 089		1673
8792	66	45		SBR	X1,1&X1	Z	7	1182	H 089 0|1		1673
8793	66	46		C	ADTBLL,X1	Z	7	1189	C 145 089		1673
8794	66	47		BE	ENDPH	Z	5	1196	B S60 S		1673
8795	66	48	CONST	SBR	X1,3&X1	Z	7	1201	H 089 0|3		1673
8796	66	49		MLC	0&X1,X2	Z	7	1208	M 0|0 094		1674
8797	66	50		BWZ	BYP4,X2-1,2	Z	8	1215	V S34 093 2		1674
8798	66	51		MCW	0&X2,0&X1	Z	7	1223	M 0|0 0|0		1674
8799	66	52		B	CMP4	Z	4	1230	B S48		1674
8800	66	53	BYP4	MA	DIFF,X2	Z	7	1234	# 859 094		1674
8801	66	54		MCW	X2,0&X1	Z	7	1241	M 094 0|0		1675
8802	66	55	CMP4	C	X1,ADTBLL	Z	7	1248	C 089 145		1675
8803	66	56		BU	CONST	Z	5	1255	B S01 /		1675
8804	66	57	ENDPH	MCW	DIFF,X1	Z	7	1260	M 859 089		1675
8805	66	58		MA	X3,X1	Z	7	1267	# 099 089		1675
8806	66	59		MCW	X1,RTR&6	Z	7	1274	M 089 U69		1676
8807	66	60		SBR	CNVRT,0&X3	Z	7	1281	H 896 0?0		1676
8808	66	61		B	EXPND	Z	4	1288	B 969		1676
8809	66	62		MLC	HOLD,WKBK1	Z	7	1292	M 891 870		1676
8810	66	63		MCW	HOLD,WKBK3#5	Z	7	1299	M 891 W68		1676
8811	66	64		MLC	DIFF,CNVRT	Z	7	1306	M 859 896		1676
8812	66	65		B	EXPND	Z	4	1313	B 969		1677
8813	66	66		A	HOLD,WKBK1	Z	7	1317	A 891 870		1677
8814	66	67		C	SIXTN,WKBK1	Z	7	1324	C W63 870		1677
8815	66	68		BL	*&8	Z	5	1331	B T43 T		1677
8816	66	69		S	SIXTN,WKBK1	Z	7	1336	S W63 870		1677
8817	66	70		MLC	BSAUCE,CNVRT	Z	7	1343	M 148 896		1677
8818	66	71		B	EXPND	Z	4	1350	B 969		1678
8819	66	72		C	HOLD,WKBK1	Z	7	1354	C 891 870		1678
8820	66	73		BH	ERRMS	Z	5	1361	B |92 U		1678
8821	66	74		MZ	X1,TESTA&7	Z	7	1366	Y 089 V77		1678
8822	66	75		MCW	X1-2,TESTB&7	Z	7	1373	M 087 V97		1678
8823	66	76		MLC	INTST,X2	Z	7	1380	M 183 094		1678
8824	66	77		MA	DIFF,INTST	Z	7	1387	# 859 183		1679
8825	66	78		C	WKBK1,WKBK3	Z	7	1394	C 870 W68		1679
8826	66	79		BH	WMTST	Z	5	1401	B V14 U		1679
8827	66	80	MVD	LCA	0&X3,0&X1	Z	7	1406	L 0?0 0|0		1679
8828	66	81		SAR	X3	Z	4	1413	Q 099		1679
8829	66	82		C	0&X1	Z	4	1417	C 0|0		1679
8830	66	83		SAR	X1	Z	4	1421	Q 089		1679
8831	66	84		BCE	*&5,0&X3,: 5-8	Z	8	1425	B U37 0?0 :		1680
8832	66	85		B	MVD	Z	4	1433	B U06		1680
8833	66	86	DUN	CS	0&X1	Z	4	1437	/ 0|0		1680
8834	66	87		SBR	X1	Z	4	1441	H 089		1680
8835	66	88		C	X1,@W99@	Z	7	1445	C 089 W71		1680
8836	66	89		BU	DUN	Z	5	1452	B U37 /		1680
8837	66	90		CW	0&X1	Z	4	1457	) 0|0		1680

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
8838	66	91		CW		Z	1	1461	)		1681
8839	66	92		CW		Z	1	1462	)		1681
8840	66	93	RTR	SBR	X3,0	Z	7	1463	H 099 000		1681
8841	66	94		SW	0&X1,1&X3	Z	7	1470	, 0|0 0?1		1681
8842	66	95		MLC	DIFF,X2	Z	7	1477	M 859 094		1681
8843	66	96		FENDX	D,,,,,GM50A,SHIFT CFL	Z				MACRO	
8844				BSS	333,D	Z	5	1484	B 333 D	GEN	1681
8845				SBR	TCLEAR,GM50A	Z	7	1489	H 710 W90	GEN	1681
8846				LCA	@SHIFT CFL@,110	Z	7	1496	L W80 110	GEN	1682
8847				B	MONTER	Z	4	1503	B 700	GEN	1682
8848	66	974	ADD1	MA	@001@,X2	V3M4 Z	7	1507	# W83 094		1682
8849	66	98	WMTST	BW	LDWRD,1&X2	Z	8	1514	V V26 0!1 1		1682
8850	66	99		B	ADD1	Z	4	1522	B V07		1682
8851	67	00	LDWRD	MLC	X2,X1	Z	7	1526	M 094 089		1682
8852	67	01		MA	DIFF,X1	Z	7	1533	# 859 089		1683
8853	67	02		LCA	0&X2,0&X1	Z	7	1540	L 0!0 0|0		1683
8854	67	03		C	X2,X3	Z	7	1547	C 094 099		1683
8855	67	04		BU	ADD1	Z	5	1554	B V07 /		1683
8856	67	05		LCA	@ @,2&X3	Z	7	1559	L W85 0?2		1683
8857	67	06		CW	1&X3	Z	4	1566	) 0?1		1683
8858	67	07	TESTA	BWZ	TESTB,X3,2	Z	8	1570	V V90 099 2		1684
8859	67	08		CS	0&X3	Z	4	1578	/ 0?0		1684
8860	67	09		SBR	X3	Z	4	1582	H 099		1684
8861	67	10		B	TESTA	Z	4	1586	B V70		1684
8862	67	11	TESTB	BCE	TESTC,X3-2,0	Z	8	1590	B W10 097 0		1684
8863	67	12		CS	0&X3	Z	4	1598	/ 0?0		1684
8864	67	13		SBR	X3	Z	4	1602	H 099		1684
8865	67	14		B	TESTB	Z	4	1606	B V90		1685
8866	67	15	TESTC	C	X3,X1	Z	7	1610	C 099 089		1685
8867	67	16		BE	FIN1S	Z	5	1617	B W41 S		1685
8868	67	17		LCA	@ @,0&X3	Z	7	1622	L W86 0?0		1685
8869	67	18		CW	0&X3	Z	4	1629	) 0?0		1685
8870	67	19		SBR	X3	Z	4	1633	H 099		1685
8871	67	20		B	TESTC	Z	4	1637	B W10		1685
8872	67	21	FIN1S	MCW	INTST,X1	Z	7	1641	M 183 089		1686
8873	67	22		MA	@I9I@,X1	Z	7	1648	# W89 089		1686
8874	67	23		B	DUN	Z	4	1655	B U37		1686
8875	67	24	SIXTN	DCW	@16000@	Z	5	1663			1686
8876	67	25		LTORG	*	Z			1664		
			WKBK3Z	DCW	#05	Z	5	1668		AREA	1686
				DCW	@W99@	Z	3	1671		LIT	1686
				DCW	@SHIFT CFL@	Z	9	1680		LIT	1687
				DCW	@001@	Z	3	1683		LIT	1687
				DCW	@ @	Z	2	1685		LIT	1687
				DCW	@ @	Z	1	1686		LIT	1687
				DCW	@I9I@	Z	3	1689		LIT	1687
8877	67	26	GM50A	DCW	@}@	Z	1	1690		GMARK	1687
8878	67	27		XFR	BEGIN	Z			B /75		1688

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
8879	67	28		JOB	SHIFT CONSTANTS, FORMATS, AND LISTS	Z					
8880	67	29	110	DCW	@SHIFT CFL@	Z	9	0110			1691
8881	67	30	NXBTM	EQU	83	Z		0083			
8882	67	31		ORG	BEGINZ	Z			1175		
8883	67	32		C	PARAM&2, CONLST	Z	7	1175	C 688 194		1692
8884	67	33		BE	EXIT	Z	5	1182	B V53 S		1692
8885	67	34		MCW	BSAUCE, X1	Z	7	1187	M 148 089		1692
8886	67	35		MCW	BSAUCE, X2	Z	7	1194	M 148 094		1692
8887	67	36		MA	MACFLS, X2	Z	7	1201	# 163 094		1692
8888	67	37		SBR	RSX3&6, 0&X3	Z	7	1208	H U93 0?0		1693
8889	67	38		CW	CNVRT-2	Z	4	1215	) 894		1693
8890	67	39		MCW	X2, CNVRT	Z	7	1219	M 094 896		1693
8891	67	40		B	EXPND	Z	4	1226	B 969		1693
8892	67	41		MCW	HOLD, X25#5	Z	7	1230	M 891 V98		1693
8893	67	42		MCW	X3, CNVRT	Z	7	1237	M 099 896		1693
8894	67	43		B	EXPND	Z	4	1244	B 969		1694
8895	67	44		MCW	HOLD, X35#5	Z	7	1248	M 891 W03		1694
8896	67	45		C	X25, X35	Z	7	1255	C V98 W03		1694
8897	67	46		BH	ERRMS	Z	5	1262	B |92 U		1694
8898	67	47		MCW	BSAUCE, CNVRT	Z	7	1267	M 148 896		1694
8899	67	48		B	EXPND	Z	4	1274	B 969		1694
8900	67	49		MCW	HOLD, NXBTM5#5	Z	7	1278	M 891 W08		1695
8901	67	50		MCW	CONLST, CNVRT	Z	7	1285	M 194 896		1695
8902	67	51		B	EXPND	Z	4	1292	B 969		1695
8903	67	52		MCW	HOLD, CNLST5#5	Z	7	1296	M 891 W13		1695
8904	67	53		C	NXBTM5, CNLST5	Z	7	1303	C W08 W13		1695
8905	67	544		BH	MAD	V3M4 Z	5	1310	B T19 U		1695
8906	67	545		B	WRDMV	V3M4 Z	4	1315	B T97		1696
8907	67	55	MAD	MA	@001@, X1	Z	7	1319	# W16 089		1696
8908	67	56		MA	@001@, X2	Z	7	1326	# W16 094		1696
8909	67	57		BW	LDWM, 0&X1	Z	8	1333	V T86 0|0 1		1696
8910	67	58		CW	0&X2	Z	4	1341	) 0!0		1696
8911	67	59		MN	0&X1, 0&X2	Z	7	1345	D 0|0 0!0		1696
8912	67	60		MZ	0&X1, 0&X2	Z	7	1352	Y 0|0 0!0		1697
8913	67	61	CWX1	CW	0&X1	Z	4	1359	) 0|0		1697
8914	67	62		C	X1, CONLST	Z	7	1363	C 089 194		1697
8915	67	63		BU	MAD	Z	5	1370	B T19 /		1697
8916	67	64		MLC	CONLST, X3	Z	7	1375	M 194 099		1697
8917	67	65		B	TSTWM	Z	4	1382	B U04		1697
8918	67	66	LDWM	LCA	0&X1, 0&X2	Z	7	1386	L 0|0 0!0		1698
8919	67	67		B	CWX1	Z	4	1393	B T59		1698
8920	67	68	WRDMV	MLC	BSAUCE, X3	Z	7	1397	M 148 099		1698
8921	67	69	TSTWM	BW	MANXB, 1&X3	Z	8	1404	V U20 0?1 1		1698
8922	67	70		CW	WMSW#1	Z	4	1412	) W17		1698
8923	67	71		SW	1&X3	Z	4	1416	, 0?1		1698
8924	67	72	MANXB	MCW	PARAM&2, X1	Z	7	1420	M 688 089		1699
8925	67	73		MCW	CONLST, X2	Z	7	1427	M 194 094		1699
8926	67	74	LOAD	LCA	0&X1, 0&X2	Z	7	1434	L 0|0 0!0		1699
8927	67	75		SBR	X2	Z	4	1441	H 094		1699
8928	67	76		SBR	X1	Z	4	1445	H 089		1699

TEST FOR WORD MARKIN TEST ADR&1

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
8929	67	77		MA	PLUSDF,X1	Z	7	1449	# 160 089		1699
8930	67	78		C	X1,X3	Z	7	1456	C 089 099		1700
8931	67	79		BU	LOAD	Z	5	1463	B U34 /		1700
8932	67	80		BW	RSX3,WMSW	Z	8	1468	V U87 W17 1		1700
8933	67	81		MA	MACFLS,X3	Z	7	1476	# 163 099		1700
8934	67	82		CW	1&X3	Z	4	1483	) 0?1		1700
8935	67	83	RSX3	SBR	X3,0	Z	7	1487	H 099 000		1700
8936	67	84		MA	MACFLS,NXBTM	Z	7	1494	# 163 083		1701
8937	67	85		MA	MACFLS,ADTBLL	Z	7	1501	# 163 145		1701
8938	67	86		MA	MACFLS,BSAUCE	Z	7	1508	# 163 148		1701
8939	67	87		MCW	PARAM&2,X1	Z	7	1515	M 688 089		1701
8940	67	88	CX1CN	C	X1,CONLST	Z	7	1522	C 089 194		1701
8941	67	89		BE	EXIT	Z	5	1529	B V53 S		1702
8942	67	90		MCW	@ @,0&X1	Z	7	1534	M W18 0|0		1702
8943	67	91		CW	0&X1	Z	4	1541	) 0|0		1702
8944	67	92		SBR	X1	Z	4	1545	H 089		1702
8945	67	93		B	CX1CN	Z	4	1549	B V22		1702
8946	67	94	EXIT	FENDX	C,,,XBEGIN,XBEGIN,,GM50C,REPLACE 1	Z				MACRO	
8947			EXIT	BSS	333,C	Z	5	1553	B 333 C	GEN	1702
8948				SBR	INITAP&6,XBEGIN	Z	7	1558	H 786 838	GEN	1702
8949				SBR	BCLEAR	Z	4	1565	H 833	GEN	1703
8950				SBR	INITXT&3,XBEGIN	Z	7	1569	H 796 838	GEN	1703
8951				SBR	TCLEAR,GM50C	Z	7	1576	H 710 W28	GEN	1703
8952				LCA	@REPLACE 1@,110	Z	7	1583	L W27 110	GEN	1703
8953				B	MONTER	Z	4	1590	B 700	GEN	1703
8954	67	95		LTORG	*	Z			1594		
			X25	Z	DCW #05	Z	5	1598		AREA	1703
			X35	Z	DCW #05	Z	5	1603		AREA	1703
			NXBTM5	DCW	#05	Z	5	1608		AREA	1704
			CNLST5	DCW	#05	Z	5	1613		AREA	1704
				DCW	@001@	Z	3	1616		LIT	1704
			WMSW	Z	DCW #01	Z	1	1617		AREA	1704
				DCW	@ @	Z	1	1618		LIT	1704
				DCW	@REPLACE 1@	Z	9	1627		LIT	1704
8955	67	96	GM50C	DCW	@}@	Z	1	1628		GMARK	1704
8956	67	97		XFR	BEGIN	Z			B /75		1705

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
8957	67	98		JOB	1401 FORTRAN REPLACE PHASE ONE	Z					
8958	67	99		FBEGN	REPLACE 1,X1,R,X2,,X3,,V	Z				MACRO	
8959				SFX	V	V				GEN	
8960			110	DCW	@REPLACE 1@	V	9	0110		GEN	1708
8961			X1	EQU	089	V		0089		GEN	
8962			089	DCW	000	V	3	0089		GEN	1709
8963			091	DC	00	V	2	0091		GEN	1709
8964			X2	EQU	094	V		0094		GEN	
8965			X3	EQU	099	V		0099		GEN	
8966	68	00		ORG	XBEGIN	V			0838		
8967	68	01	INIT	MCW	X3,GARY#3	V	7	0838	M 099 S57		1710
8968	68	02		MCW	BSAUCE,*&7	V	7	0845	M 148 858		1710
8969	68	03		MCW	@>@,0	V	7	0852	M S58 000		1710
8970	68	04		MCW	PERIOD,X2	V	7	0859	M 154 094		1710
8971	68	05		MCW	@>@,1600	V	7	0866	M S58 W00		1710
8972	68	06	SCNDL	BCE	DOLR,0&X2,\$	V	8	0873	B 915 0!0 \$		1711
8973	68	07		CHAIN	9	V				MACRO	
8974				BCE		V	1	0881	B	GEN	1711
8975				BCE		V	1	0882	B	GEN	1711
8976				BCE		V	1	0883	B	GEN	1711
8977				BCE		V	1	0884	B	GEN	1711
8978				BCE		V	1	0885	B	GEN	1711
8979				BCE		V	1	0886	B	GEN	1711
8980				BCE		V	1	0887	B	GEN	1712
8981				BCE		V	1	0888	B	GEN	1712
8982				BCE		V	1	0889	B	GEN	1712
8983	68	08	RU68	BCE	SKGBG,0&X2,>	V	8	0890	B |23 0!0 >		1712
8984	66	09		CHAIN	9	V				MACRO	
8985				BCE		V	1	0898	B	GEN	1712
8986				BCE		V	1	0899	B	GEN	1712
8987				BCE		V	1	0900	B	GEN	1712
8988				BCE		V	1	0901	B	GEN	1713
8989				BCE		V	1	0902	B	GEN	1713
8990				BCE		V	1	0903	B	GEN	1713
8991				BCE		V	1	0904	B	GEN	1713
8992				BCE		V	1	0905	B	GEN	1713
8993				BCE		V	1	0906	B	GEN	1713
8994	66	10		SBR	X2	V	4	0907	H 094		1713
8995	68	11		B	SCNDL	V	4	0911	B 873		1714
8996	68	114	DOLR	BCE	RU68,0&X2,>	V3M4	8	0915	B 890 0!0 >		1714
8997	68	124		BCE	FND,0&X2,\$	V3M4	8	0923	B 939 0!0 \$		1714
8998	68	13		SBR	X2	V	4	0931	H 094		1714
8999	68	14		B	DOLR	V	4	0935	B 915		1714
9000	68	15	FND	MN	0&X2	V	4	0939	D 0!0		1714
9001	68	16		SAR	X2	V	4	0943	Q 094		1714
9002	68	17		BCE	SETSW,0&X2,\$	V	8	0947	B 974 0!0 \$		1715
9003	68	18		CHAIN	15	V				MACRO	
9004				BCE		V	1	0955	B	GEN	1715
9005				BCE		V	1	0956	B	GEN	1715
9006				BCE		V	1	0957	B	GEN	1715

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
9007				BCE		V	1	0958	B	GEN	1715
9008				BCE		V	1	0959	B	GEN	1715
9009				BCE		V	1	0960	B	GEN	1715
9010				BCE		V	1	0961	B	GEN	1716
9011				BCE		V	1	0962	B	GEN	1716
9012				BCE		V	1	0963	B	GEN	1716
9013				BCE		V	1	0964	B	GEN	1716
9014				BCE		V	1	0965	B	GEN	1716
9015				BCE		V	1	0966	B	GEN	1716
9016				BCE		V	1	0967	B	GEN	1716
9017				BCE		V	1	0968	B	GEN	1717
9018				BCE		V	1	0969	B	GEN	1717
9019	68	19		B	SCNDL	V	4	0970	B 873		1717
9020	68	20	SETSW	CW	XDOSBS	V	4	0974	) 116		1717
9021	68	21	DLOOP	MN	0&X2	V	4	0978	D 0!0		1717
9022	68	22		CHAIN	2	V				MACRO	
9023				MN		V	1	0982	D	GEN	1717
9024				MN		V	1	0983	D	GEN	1717
9025	68	23		SAR	X2	V	4	0984	Q 094		1718
9026	68	24		SW	1&X2	V	4	0988	, 0!1		1718
9027	68	25		BCE	NDOLR, 0&X2, \$	V	8	0992	B |11 0!0 \$		1718
9028	68	26		MZ	*-4, 2&X2	V	7	1000	Y |02 0!2		1718
9029	68	27		B	DLOOP	V	4	1007	B 978		1718
9030	68	28	NDOLR	MN	0&X2	V	4	1011	D 0!0		1718
9031	68	29		SAR	X2	V	4	1015	Q 094		1718
9032	68	30		B	SCNDL	V	4	1019	B 873		1719
9033	68	31	SKGBG	MCW	&TEST5, RU68&3	V	7	1023	M S61 893		1719
9034	68	32		MCW	X3, X2	V	7	1030	M 099 094		1719
9035	68	33		B	SCNDL	V	4	1037	B 873		1719
9036	68	34	TEST5	BCE	EXIT, 0&X3, BLANK	V	8	1041	B S18 0?0		1719
9037	68	35		MCW	X3, SBR&6	V	7	1049	M 099 /45		1719
9038	68	36		C	0&X3 MOVE POINTER	V	4	1056	C 0?0		1720
9039	68	37		SBR	X2	V	4	1060	H 094		1720
9040	68	38		SBR	X3	V	4	1064	H 099		1720
9041	68	39		BCE	PSKIP, 1&X3, |	V	8	1068	B /82 0?1 |		1720
9042	68	40	TEST2	BWZ	TEST5, 4&X2, 1	V	8	1076	V |41 0!4 1		1720
9043	68	41		BWZ		V	1	1084	V		1720
9044	68	42		BWZ		V	1	1085	V		1720
9045	68	43		BM	REPLC, 3&X2	V	8	1086	V /50 0!3 K		1721
9046	68	44		C	4&X2, @2G7@ CHANGE ON REAS. OF OBJ ARITH	V	7	1094	C 0!4 S64		1721
9047	68	45		BE	TEST5	V	5	1101	B |41 S		1721
9048	68	46		BWZ	ADDU, 3&X2, B	V	8	1106	V /25 0!3 B		1721
9049	68	47	RIGHT	SBR	X2, 3&X2	V	7	1114	H 094 0!3		1721
9050	68	48		B	TEST2	V	4	1121	B |76		1721
9051	68	49	ADDU	MCW	4&X2, X1	V	7	1125	M 0!4 089		1722
9052	68	50		MZ	*-6, SBR&5	V	7	1132	Y /32 /44		1722
9053	68	51	SBR	SBR	4&X2, 0	V	7	1139	H 0!4 000		1722
9054	68	52		B	RIGHT	V	4	1146	B /14		1722
9055	68	53	REPLC	MCW	4&X2, X1	V	7	1150	M 0!4 089		1722
9056	68	54		MA	MACFLS, X1	V	7	1157	# 163 089		1722

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
9057	68	55		MCW	0&X1,X1	V	7	1164	M 0|0 089		1723
9058	68	56		MCW	X1,4&X2	V	7	1171	M 089 0!4		1723
9059	68	57		B	RIGHT	V	4	1178	B /14		1723
9060	68	58	PSKIP	BW	SKIP,2&X3	V	8	1182	V /94 0?2 1		1723
9061	68	59		B	TEST5	V	4	1190	B |41		1723
9062	68	60	SKIP	C	0&X3	V	4	1194	C 0?0		1723
9063	68	61		SBR	X3	V	4	1198	H 099		1723
9064	68	62		C	4&X3,@B700@	V	7	1202	C 0?4 S68		1724
9065	68	63		BE	TEST5	V	5	1209	B |41 S		1724
9066	68	64		B	SKIP	V	4	1214	B /94		1724
9067	68	65	EXIT	MCW	GARY,X3	V	7	1218	M S57 099		1724
9068	68	66		FENDX	C,,,STARTR,,SYS1,LOAD 52B&C	V				MACRO	
9069				BSS	333,C	V	5	1225	B 333 C	GEN	1724
9070				SBR	INITXT&3,STARTR	V	7	1230	H 796 934	GEN	1724
9071				SBR	TCLEAR,SYS1	V	7	1237	H 710 S79	GEN	1725
9072				LCA	@LOAD 52B&C@,110	V	7	1244	L S78 110	GEN	1725
9073				B	MONTER	V	4	1251	B 700	GEN	1725
9074	68	67		LTORG	*	V			1255		
			GARY V	DCW	#03	V	3	1257		AREA	1725
				DCW	@>@	V	1	1258		LIT	1725
				DCW	&TEST5V	V	3	1261	|41	ADCON	1725
				DCW	@2G7@	V	3	1264		LIT	1725
				DCW	@B700@	V	4	1268		LIT	1726
				DCW	@LOAD 52B&C@	V	10	1278		LIT	1726
9075	68	68	SYS1	DCW	@}@	V	1	1279		GMARK	1726
9076	68	69		XFR	INIT	V			B 838		1727

SYSTEM GROUP MARK

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
9077	68	70		JOB	LOAD PHASE 52-SECTIONS B & C	V					
9078	68	71		SFX	R	R					
9079	68	72	110	DCW	@LOAD 52B&C@	R	10	0110			1730
9080	68	73		ORG	XBEGIN	R			0838		
9081	68	74	XLINKS	DCW	#3	R	3	0840			1731
9082	68	75	YUSR12	DCW	#3	R	3	0843			1731
9083	68	76	YUSR11	DCW	#3	R	3	0846			1731
9084	68	77	YUSR10	DCW	#3	R	3	0849			1731
9085	68	78	YUSER9	DCW	#3	R	3	0852			1731
9086	68	79	YUSER8	DCW	#3	R	3	0855			1731
9087	68	80	YUSER7	DCW	#3	R	3	0858			1731
9088	68	81	YUSER6	DCW	#3	R	3	0861			1732
9089	68	82	YUSER5	DCW	#3	R	3	0864			1732
9090	68	83	YUSER4	DCW	#3	R	3	0867			1732
9091	68	84	YUSER3	DCW	#3	R	3	0870			1732
9092	68	85	YUSER2	DCW	#3	R	3	0873			1732
9093	68	86	YUSER1	DCW	#3	R	3	0876			1732
9094	68	87	SQRTFN	DCW	#3	R	3	0879			1732
9095	68	88	FLTFUN	DCW	#3	R	3	0882			1733
9096	68	89	FIXFUN	DCW	#3	R	3	0885			1733
9097	68	90	NEGTFN	DCW	#3	R	3	0888			1733
9098	68	91	ABSVAL	DCW	#3	R	3	0891			1733
9099	68	92	ATANFN	DCW	#3	R	3	0894			1733
9100	68	93	XPNETL	DCW	#3	R	3	0897			1733
9101	68	94	LOGFUN	DCW	#3	R	3	0900			1733
9102	68	95	SINFUN	DCW	#3	R	3	0903			1734
9103	68	96	COMFN1	DCW	#3	R	3	0906			1734
9104	68	97	DOSBSC	DCW	#3	R	3	0909			1734
9105	68	98	OBLIST	DCW	@J32@ FMTXT CHANGE IF OBJ FORMAT REASSEMBLED	R	3	0912			1734
9106	68	99	DOINIT	DCW	#3	R	3	0915			1734
9107	69	00	DOADR3	DCW	#3	R	3	0918			1734
9108	69	01	DOADR2	DCW	#3	R	3	0921			1734
9109	69	02	DOADR1	DCW	#3	R	3	0924			1735
9110	69	03	TBLAD	DCW	DOADR1	R	3	0927	924		1735
9111	69	04	FIXWD	DCW	#3	R	3	0930			1735
9112	69	05	FLTWD	DCW	#3	R	3	0933			1735
9113	69	064	START	B	ADJX3	V3M4	4	0934	B |27		1735
9114	69	07	LD52C	FENDX	,,,START,START1,,GMWM,FUNLOAD C	R				MACRO	
9115			LD52C	SBR	INITAP&6,START	R	7	0938	H 786 934	GEN	1735
9116				SBR	BCLEAR	R	4	0945	H 833	GEN	1735
9117				SBR	INITXT&3,START1	R	7	0949	H 796 337	GEN	1736
9118				SBR	TCLEAR,GMWM	R	7	0956	H 710 W96	GEN	1736
9119				LCA	@FUNLOAD C@,110	R	7	0963	L 982 110	GEN	1736
9120				B	MONTER	R	4	0970	B 700	GEN	1736
9121	69	08		LTORG	*	R			0974		
				DCW	@FUNLOAD C@	R	9	0982		LIT	1736
9122	69	09	EXIT3	SBR	INITAP&6,333	R	7	0983	H 786 333		1737
9123	69	10		SBR	BCLEAR,EXIT3	R	7	0990	H 833 983		1737
9124	69	11		FENDX	C,,,LD52C,,GMWM,FUNLOAD B	R				MACRO	
9125				BSS	333,C	R	5	0997	B 333 C	GEN	1737

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
9126				SBR	INITXT&3,LD52C	R	7	1002	H 796 938	GEN	1737
9127				SBR	TCLEAR,GMWM	R	7	1009	H 710 W96	GEN	1737
9128				LCA	@FUNLOAD B@,110	R	7	1016	L | 70 110	GEN	1738
9129				B	MONTER	R	4	1023	B 700	GEN	1738
9130	69	111	ADJX3	BWZ	CKX3,X3,2	V3M4	R	8	1027	V | 39 099 2	1738
9131	69	112		B	EXIT3	V3M4	R	4	1035	B 983	1738
9132	69	113	CKX3	BWZ	CHGX3,X3-2,S	V3M4	R	8	1039	V | 51 097 S	1738
9133	69	114		B	EXIT3	V3M4	R	4	1047	B 983	1738
9134	69	115	CHGX3	SBR	X3,2000	V3M4	R	7	1051	H 099 !00	1739
9135	69	116		B	EXIT3	V3M4	R	4	1058	B 983	1739
9136	69	12		LTORG	*	R			1062		
				DCW	@FUNLOAD B@	R	9	1070		LIT	1739
9137	69	13		ORG	1696	R			1696		
9138	69	14	GMWM	DCW	@}@	R	1	1696		GMARK	1740
9139	69	15		XFR	START	R			B 934		1741

GROUP MARK

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
9140	69	16		JOB	1401 FORTRAN FUNCTION/SUBROUTINE LOADER-B	R					
9141	69	17		FBEGN	FUNLOAD B,X1,R,X2,R,X3,,R	R				MACRO	
9142				SFX	R	R				GEN	
9143		110		DCW	@FUNLOAD B@	R	9	0110		GEN	1744
9144		X1		EQU	089	R		0089		GEN	
9145		089		DCW	000	R	3	0089		GEN	1745
9146		091		DC	00	R	2	0091		GEN	1745
9147		X2		EQU	094	R		0094		GEN	
9148		094		DCW	000	R	3	0094		GEN	1745
9149		096		DC	00	R	2	0096		GEN	1745
9150		X3		EQU	099	R		0099		GEN	
9151	69	18	NXBTM	EQU	83	R		0083			
9152	69	19		ORG	333	R			0333		
9153	69	20		H	333	R	4	0333	. 333		1746
9154	69	21	START1	CS	080	R	4	0337	/ 080		1746
9155	69	22		MCW	X3,HEX3	R	7	0341	M 099 W35		1746
9156	69	23		SBR	X3,1&X3	R	7	0348	H 099 0?1		1746
9157	69	24		SW	1,40	R	7	0355	, 001 040		1746
9158	69	25		SW	47,54	R	7	0362	, 047 054		1746
9159	69	26		SW	61,68	R	7	0369	, 061 068		1747
9160	69	27		SW	72	R	4	0376	, 072		1747
9161	69	28		MCW	MONITOR,READ	R	7	0380	M 769 /60		1747
9162	69	29		B	GET	R	4	0387	B /49		1747
9163	69	30		MCW	NXBTM,X2	R	7	0391	M 083 094		1747
9164	69	31		MN	0&X2	R	4	0398	D 0!0		1747
9165	69	32		MN		R	1	0402	D		1747
9166	69	33		SBR	KLOBR&6	R	4	0403	H |95		1748
9167	69	34		MCW	@_@	R	4	0407	M V65		1748
9168	69	35		NOP		R	1	0411	N		1748
9169	69	36	LOOP2	MCW	X3,NOP4&3	R	7	0412	M 099 436		1748
9170	69	37		MZ	@B@,NOP4&2	R	7	0419	Y V66 435		1748
9171	69	38		MCW	DSA,X3	R	7	0426	M V60 099		1748
9172	59	39	NOP4	NOP	0	R	4	0433	N 000		1748
9173	59	40		SAR	X3	R	4	0437	Q 099		1749
9174	59	41	GET2	B	GET	R	4	0441	B /49		1749
9175	59	42	AGET2	C	005,@____@	R	7	0445	C 005 V70		1749
9176	59	43		BU	MVAD	R	5	0452	B 468 /		1749
9177	69	44		MCW	X3,HXCMN#3	R	7	0457	M 099 V73		1749
9178	69	45		B	GET2	R	4	0464	B 441		1749
9179	69	46	MVAD	MCW	TBAD2,X1	R	7	0468	M V63 089		1749
9180	69	47	BMPT2	SBR	TBAD2,1&X1	R	7	0475	H V63 0|1		1750
9181	69	48	CX1	C	X1,&NDTABL	R	7	0482	C 089 V76		1750
9182	69	49		BE	OUT	R	5	0489	B T59 S		1750
9183	69	50		MCW	@H@,BMPT2	R	7	0494	M V77 475		1750
9184	69	51		C	TBLAD,&YUSER1	R	7	0501	C 927 V80		1750
9185	69	52	CKUSR	BE	STOTP	R	5	0508	B U23 S		1750
9186	69	53		MCW	TBLAD,X2	R	7	0513	M 927 094		1751
9187	69	54		C	0&X2	R	4	0520	C 0!0		1751
9188	69	55		SAR	TBLAD	R	4	0524	Q 927		1751
9189	69	56		BW	NODIC,0&X1	R	8	0528	V T35 0 0 1		1751

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ALL 11-7-8

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
9190	69	57	NOPSW	MCW	@N@,SW1	R	7	0536	M V81 583		1751
9191	69	58	CKZN	BWZ	PURE,42,2	R	8	0543	V /31 042 2		1751
9192	69	59		MN	46,LOAD&6	R	7	0551	D 046 578		1752
9193	69	60		CHAIN	5	R				MACRO	
9194				MN		R	1	0558	D	GEN	1752
9195				MN		R	1	0559	D	GEN	1752
9196				MN		R	1	0560	D	GEN	1752
9197				MN		R	1	0561	D	GEN	1752
9198				MN		R	1	0562	D	GEN	1752
9199	69	61		MZ	46,LOAD&6	R	7	0563	Y 046 578		1752
9200	69	62		MN		R	1	0570	D		1753
9201	69	63		MZ		R	1	0571	Y		1753
9202	69	64	LOAD	LCA	0,0&X3	R	7	0572	L 000 0?0		1753
9203	69	65		SBR	X2	R	4	0579	H 094		1753
9204	69	66	SW1	NOP	CTU1	R	4	0583	N 608		1753
9205	69	67		MCW	TBLAD,X1	R	7	0587	M 927 089		1753
9206	69	68		SBR	3&X1,1&X2	R	7	0594	H 0|3 0|1		1753
9207	69	69		MCW	@B@,SW1	R	7	0601	M V66 583		1754
9208	69	70	CTU1	MZ	45,HLDZN#1	R	7	0608	Y 045 V82		1754
9209	69	71		B	RELOC	R	4	0615	B S17		1754
9210	69	72		S	X1&1	R	4	0619	S 090		1754
9211	69	73	DOWM	C	50&X1,@040@	R	7	0623	C 0V0 V85		1754
9212	69	74		BE	READ2	R	5	0630	B |11 S		1754
9213	69	75		MCW	50&X1,SETWM&3	R	7	0635	M 0V0 667		1755
9214	69	76		MZ	@B@,SETWM&2	R	7	0642	Y V66 666		1755
9215	69	77		BCE	SETWM,SETWM,)	R	8	0649	B 664 664)		1755
9216	69	78		MCW	@,@,SETWM	R	7	0657	M V86 664		1755
9217	69	79	SETWM	SW	0&X3	R	4	0664	, 0?0		1755
9218	69	80		SAR	X2	R	4	0668	Q 094		1755
9219	69	81		B	BRELC	R	4	0672	B 934		1756
9220	69	82		NOP	000	R	4	0676	N 000		1756
9221	69	83	GMK1	DCW	@}@	R	1	0680		GMARK	1756
9222	69	84		XFR	LD52CR	R			B 938		1757

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
9223	69	85		JOB	1401 FORTRAN FUNCTION/SUBROUTINE LOADER-C	R					
9224	69	86	110	DCW	@FUNLOAD C@	R	9	0110			1760
9225	69	87		ORG	STARTR	R			0934		
9226	69	88	BRELC	MZ	49&X1,HL DZN	R	7	0934	Y 0U9 V82		1761
9227	59	89		BZ	RELOC RELOCATE OPERANDS	R	4	0941	B S17		1761
9228	69	90	ADDS	NOP	@4@,X1	R	7	0945	N V87 089		1761
9229	69	91	ADDS2	A	@3@,X1	R	7	0952	A V88 089		1761
9230	69	92		BCE	TYPE1,ADDS,A	R	8	0959	B 993 945 A		1761
9231	69	93		MCW	@A@,ADDS	R	7	0967	M V89 945		1762
9232	69	94		MCW	@N@,ADDS2	R	7	0974	M V81 952		1762
9233	69	95		BCE	ADDS,SETWM,)	R	8	0981	B 945 664)		1762
9234	69	96		B	DOWM	R	4	0989	B 623		1762
9235	69	97	TYPE1	MCW	@N@,ADDS	R	7	0993	M V81 945		1762
9236	69	98		MCW	@A@,ADDS2	R	7	1000	M V89 952		1763
9237	69	99		B	DOWM	R	4	1007	B 623		1763
9238	70	00	READ2	MCW	46, LAST#3	R	7	1011	M 046 V92		1763
9239	70	01		MCW	@N@,ADDS	R	7	1018	M V81 945		1763
9240	70	02		MCW	@A@,ADDS2	R	7	1025	M V89 952		1763
9241	70	03		B	GET	R	4	1032	B /49		1763
9242	70	04	CKEX	BCE	END,68,B	R	8	1036	B |56 068 B		1764
9243	70	05		BCE	END,40,/	R	8	1044	B |56 040 /		1764
9244	70	06		B	CKZN	R	4	1052	B 543		1764
9245	70	07	END	MCW	LAST,NOP3&3	R	7	1056	M V92 |73		1764
9246	70	08		MZ	@B@,NOP3&2	R	7	1063	Y V66 |72		1764
9247	70	09	NOP3	NOP	0&X3	R	4	1070	N 0?0		1764
9248	70	10		SAR	X3	R	4	1074	Q 099		1765
9249	70	11		SBR	HEX3	R	4	1078	H W35		1765
9250	70	12		SBR	X3,1&X3	R	7	1082	H 099 0?1		1765
9251	70	13	KLOBR	BCE	LOOP2,0, _	R	8	1089	B 412 000 _		1765
9252	70	14		CS	332	R	4	1097	/ 332		1765
9253	70	15		CS		R	1	1101	/		1765
9254	70	16		CC	1	R	2	1102	F 1		1765
9255	70	17		MCW	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@,270	R	7	1104	M W28 270		1766
9256	70	18		W		R	1	1111	2		1766
9257	70	19		CC	1	R	2	1112	F 1		1766
9258	70	20		BCE	*&6,MONTOR,1	R	8	1114	B /27 769 1		1766
9259	70	21		RWD	1	R	5	1122	U %U1 R		1766
9260	70	22		H	*-3	R	4	1127	. /27		1766
9261	70	23	PURE	SBR	71,READ2	R	7	1131	H 071 |11		1766
9262	70	24		MCW	@B@,68	R	7	1138	M V66 068		1767
9263	70	25		B	40	R	4	1145	B 040		1767
9264	70	26	GET	SBR	GETXT&3	R	4	1149	H /87		1767
9265	70	27		MCW	@ @,001	R	7	1153	M W29 001		1767
9266	70	28	READ	R	GETXT	R	4	1160	1 /84		1767
9267	70	29	MVNIN	MCW	&9,RDCNT#1	R	7	1164	M W30 W31		1767
9268	70	30	RDTAP	RT	1,1	R	8	1171	M %U1 001 R		1768
9269	70	31		BER	TPERR	R	5	1179	B /88 L		1768
9270	70	32	GETXT	B	0	R	4	1184	B 000		1768
9271	70	33	TPERR	BSP	1	R	5	1188	U %U1 B		1768
9272	70	34		S	&1,RDCNT	R	7	1193	S W32 W31		1768

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
9273	70	35		BWZ	RDTAP,RDCNT,B	R	8	1200	V /71 W31 B		1768
9274	70	36		NOP	3333	R	4	1208	N C33		1769
9275	70	37		H		R	1	1212	.		1769
9276	70	38		B	MVNIN	R	4	1213	B /64		1769
9277	70	39	RELOC	SBR	RELXT&3	R	4	1217	H T34		1769
9278	70	40		BWZ	RELXT,HLDZN,2	R	8	1221	V T31 V82 2		1769
9279	70	41		BWZ	ISB,HLDZN,S	R	8	1229	V S88 V82 S		1769
9280	70	42		MCW	X3,HEX3#3	R	7	1237	M 099 W35		1769
9281	70	43		BWZ	SW2X2,4&X2,2	R	8	1244	V S66 0!4 2		1770
9282	70	44		MCW	HXCMN,X3	R	7	1252	M V73 099		1770
9283	70	45		MZ	*-4,4&X2	R	7	1259	Y S61 0!4		1770
9284	70	46	SW2X2	MA	X3,4&X2	R	7	1266	# 099 0!4		1770
9285	70	67		MCW	HEX3,X3	R	7	1273	M W35 099		1770
9286	70	48		BWZ	RELXT,HLDZN,K	R	8	1280	V T31 V82 K		1771
9287	70	49	ISB	MCW	X3,HEX3	R	7	1288	M 099 W35		1771
9288	70	50		BWZ	MCWX2,7&X2,2	R	8	1295	V T17 0!7 2		1771
9289	70	51		MCW	HXCMN,X3	R	7	1303	M V73 099		1771
9290	70	52		MZ	*-4,7&X2	R	7	1310	Y T12 0!7		1771
9291	70	53	MCWX2	MA	X3,7&X2	R	7	1317	# 099 0!7		1772
9292	70	54		MCW	HEX3,X3	R	7	1324	M W35 099		1772
9293	70	55	RELXT	B	0	R	4	1331	B 000		1772
9294	70	56	NODIC	B	GET	R	4	1335	B /49		1772
9295	70	57		BCE	GET2,40,/	R	8	1339	B 441 040 /		1772
9296	70	58		BCE	GET2,68,B	R	8	1347	B 441 068 B		1772
9297	70	59		B	NODIC	R	4	1355	B T35		1773
9298	70	60	OUT	NOP	OUT2	R	4	1359	N U41		1773
9299	70	61		MCW	@B@,OUT	R	7	1363	M V66 T59		1773
9300	70	62		SBR	TBAD2,XSINFU	R	7	1370	H V63 118		1773
9301	70	63		MCW	HEX3,X2	R	7	1377	M W35 094		1773
9302	70	64		SBR	GOTOFN,1&X2	R	7	1384	H 188 0!1		1773
9303	70	65		MCW	@N@,BMPT2	R	7	1391	M V81 475		1774
9304	70	66		MCW	@N@,NOPSW	R	7	1398	M V81 536		1774
9305	70	67		MCW	@B@,SW1	R	7	1405	M V66 583		1774
9306	70	68		MCW	HEX3,BTM#3	R	7	1412	M W35 W38		1774
9307	70	69		B	AGET2	R	4	1419	B 445		1774
9308	70	70	STOTP	MCW	HEX3,TOP#3	R	7	1423	M W35 W41		1774
9309	70	71		MCW	@N@,CKUSR	R	7	1430	M V81 508		1775
9310	70	72		B	CKUSR&5	R	4	1437	B 513		1775
9311	70	73	OUT2	MCW	HEX3,X3	R	7	1441	M W35 099		1775
9312	70	74		MCW	PARAM&2,X2	R	7	1448	M 688 094		1775
9313	70	75		C	0&X2	R	4	1455	C 0!0		1775
9314	70	76		SAR	X2	R	4	1459	Q 094		1775
9315	70	77		SBR	FLTWD	R	4	1463	H 933		1775
9316	70	78		C	0&X2	R	4	1467	C 0!0		1776
9317	70	79		SAR	FIXWD	R	4	1471	Q 930		1776
9318	70	80		BCE	MTPX1,XLINKS,	R	8	1475	B V08 840		1776
9319	70	81		MCW	XLINKS,X1	R	7	1483	M 840 089		1776
9320	70	82		MA	@013@,X1	R	7	1490	# W44 089		1776
9321	70	83		MLC	CONLST,0&X1	R	7	1497	M 194 0!0		1776
9322	70	84		CW	XLINKW	R	4	1504	) 185		1777

BLANK

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
9323	70	85	MTPX1	MCW	TOP,X1	R	7	1508	M W41 089		1777
9324	70	86		MCW	BTM,X2	R	7	1515	M W38 094		1777
9325	70	87		FENDX	,,,START,START,,1696,RELOAD SS	R				MACRO	
9326				SBR	INITAP&6,START	R	7	1522	H 786 934	GEN	1777
9327				SBR	BCLEAR	R	4	1529	H 833	GEN	1777
9328				SBR	INITXT&3,START	R	7	1533	H 796 934	GEN	1777
9329				SBR	TCLEAR,1696	R	7	1540	H 710 W96	GEN	1778
9330				LCA	@RELOAD SS@,110	R	7	1547	L W53 110	GEN	1778
9331				B	MONTER	R	4	1554	B 700	GEN	1778
9332	70	88	DSA	DSA	-2000	R	3	1560	!0?		1778
9333	70	89	TBAD2	DCW	XDOAD1	R	3	1563	111		1778
9334	70	90	LOGSW	DC	#1	R	1	1564			1778
9335	70	91		LTORG	*	R			1565		
				DCW	@_@	R	1	1565		LIT	1778
				DCW	@B@	R	1	1566		LIT	1778
				DCW	@____@	R	4	1570		LIT	1779
			HXCMNR	DCW	#03	R	3	1573		AREA	1779
				DCW	&NDTABL	R	3	1576	140	ADCON	1779
				DCW	@H@	R	1	1577		LIT	1779
				DCW	&YUSER1	R	3	1580	876	ADCON	1779
				DCW	@N@	R	1	1581		LIT	1779
			HLDZNR	DCW	#01	R	1	1582		AREA	1779
				DCW	@040@	R	3	1585		LIT	1780
				DCW	,@	R	1	1586		LIT	1780
				DCW	@4@	R	1	1587		LIT	1780
				DCW	@3@	R	1	1588		LIT	1780
				DCW	@A@	R	1	1589		LIT	1780
			LAST R	DCW	#03	R	3	1592		AREA	1780
				DCW	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@	R	36	1628		LIT	1781
				DCW	@ @	R	1	1629		LIT	1781
				DCW	&9	R	1	1630		LIT	1781
			RDCNTR	DCW	#01	R	1	1631		AREA	1781
				DCW	&1	R	1	1632		LIT	1782
			HEX3 R	DCW	#03	R	3	1635		AREA	1782
			BTM R	DCW	#03	R	3	1638		AREA	1782
			TOP R	DCW	#03	R	3	1641		AREA	1782
				DCW	@013@	R	3	1644		LIT	1782
				DCW	@RELOAD SS@	R	9	1653		LIT	1782
9336	70	92		DCW	@}@	R	1	1654		GMARK	1782
9337	70	93		XFR	START1	R			B 337		1783

SYSTEM GROUP MARK

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
9338	70	94		JOB	1401 FORTRAN RELOCATABLE PACKAGE	R					
9339	70	95	110	DCW	@]]]]@	R	5	0110			1786
9340	70	96	*								
9341	70	97	*								
9342	70	98	*		RELOCATABLE PACKAGE APPEARS HERE IN SYSTEM DECK						
9343	70	99	*		MUST MANUALLY ZONE ADDRESS IN OBLST TO RELOCATE						
9344	71	00	*								
9345	71	01	*								
9346	71	02	110	DCW	@:~::~@	R	5	0110			1787

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
9347	71	03		JOB	1401 FORTRAN RELOADING SNAPSHOT	R					
9348	71	04		SFX	#	#					
9349	71	05	110	DCW	@RELOAD SS@	#	9	0110			1788
9350	71	06		ORG	STARTR	#			0934		
9351	71	07	BEGIN	B	EXIT1	#	4	0934	B |00		1789
9352	71	08	RETRN	MCW	@D@,WORD	#	7	0938	M 990 680		1789
9353	71	09		CW	WORD	#	4	0945	) 680		1789
9354	71	10		FENDX	C, , , STARTR, STARTR, , GM53S, FORMATPAK	#				MACRO	
9355				BSS	333,C	#	5	0949	B 333 C	GEN	1789
9356				SBR	INITAP&6, STARTR	#	7	0954	H 786 934	GEN	1789
9357				SBR	BCLEAR	#	4	0961	H 833	GEN	1789
9358				SBR	INITXT&3, STARTR	#	7	0965	H 796 934	GEN	1789
9359				SBR	TCLEAR, GM53S	#	7	0972	H 710 W96	GEN	1790
9360				LCA	@FORMATPAK@, 110	#	7	0979	L 999 110	GEN	1790
9361				B	MONTER	#	4	0986	B 700	GEN	1790
9362	71	11		LTORG	*	#			0990		
				DCW	@D@	#	1	0990		LIT	1790
				DCW	@FORMATPAK@	#	9	0999		LIT	1790
9363	71	12	EXIT1	SBR	INITAP&6, 333	#	7	1000	H 786 333		1790
9364	71	13		SBR	BCLEAR, EXIT1	#	7	1007	H 833 |00		1791
9365	71	14		SBR	INITXT&3, RETRN	#	7	1014	H 796 938		1791
9366	71	15		SBR	TCLEAR, GM53S	#	7	1021	H 710 W96		1791
9367	71	16		LCA	@SNAPSHOT53@, 110	#	7	1028	L |48 110		1791
9368	71	17		B	MONTER	#	4	1035	B 700		1791
9369	71	18		LTORG	*	#			1039		
				DCW	@SNAPSHOT53@	#	10	1048		LIT	1792
9370	71	19		ORG	1696	#			1696		
9371	71	20	GM53S	DCW	@}@	#	1	1696		GMARK	1793
9372	71	21		XFR	BEGIN	#			B 934		1794

GROUP MARK

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
9373	71	22		JOB	1401 FORTRAN SNAPSHOT 53S	#					
9374	71	23	XXX	EQU	0	#		0000			
9375	71	24	XL1	EQU	089	#		0089			
9376	71	25	XL2	EQU	094	#		0094			
9377	71	26	XL3	EQU	099	#		0099			
9378	71	27		ORG	333	#			0333		
9379	71	28		SBR	PRTXT&3	#	4	0333	H 567		1797
9380	71	29		SBR	HLDXT&6	#	4	0337	H 408		1797
9381	71	30		MCW	@000@,LINCT-2	#	7	0341	M 661 656		1797
9382	71	31		MCW	XL3, HLD32&6	#	7	0348	M 099 415		1797
9383	71	32		MCW	XL1, HLD31&6	#	7	0355	M 089 422		1797
9384	71	33		SBR	XL1, 1	#	7	0362	H 089 001		1797
9385	71	34		SBR	XL3, 202	#	7	0369	H 099 202		1798
9386	71	35		CS	332	#	4	0376	/ 332		1798
9387	71	36		CS		#	1	0380	/		1798
9388	71	37		MCW	110,210	#	7	0381	M 110 210		1798
9389	71	38		BSS	ONLY,F	#	5	0388	B 621 F		1798
9390	71	39		CC	1	#	2	0393	F 1		1798
9391	71	40		MCW	094,250	#	7	0395	M 094 250		1798
9392	71	41	HLDXT	SBR	216,XXX	#	7	0402	H 216 000		1799
9393	71	42	HLD32	SBR	256,XXX	#	7	0409	H 256 000		1799
9394	71	43	HLD31	SBR	244,XXX	#	7	0416	H 244 000		1799
9395	71	44		W		#	1	0423	2		1799
9396	71	45		CC	K	#	2	0424	F K		1799
9397	71	46		ZA	&2,PGCTR#2	#	7	0426	? 662 664		1799
9398	71	47	NULIN	CS	332	#	4	0433	/ 332		1799
9399	71	48		CS		#	1	0437	/		1800
9400	71	49		CC	J	#	2	0438	F J		1800
9401	71	50		MCW	LINCT,306	#	7	0440	M 658 306		1800
9402	71	51		MCW		#	1	0447	M		1800
9403	71	52		SBR	MVHED&6	#	4	0448	H 465		1800
9404	71	53		MCW	@9@, CTR-1	#	7	0452	M 665 668		1800
9405	71	54	MVHED	MCW	CTR-1,XXX	#	7	0459	M 668 000		1800
9406	71	55		MCW	HEAD	#	4	0466	M 651		1801
9407	71	56		SBR	MVHED&6	#	4	0470	H 465		1801
9408	71	57		A	@I0@, CTR#2	#	7	0474	A 667 669		1801
9409	71	58		BWZ	MVHED, CTR-1, 2	#	8	0481	V 459 668 2		1801
9410	71	59		A	&1,LINCT-2	#	7	0489	A 670 656		1801
9411	71	60		W		#	1	0496	2		1801
9412	71	61	LOOP	SW	0&X3	#	4	0497	, 0?0		1801
9413	71	62		MCW	0&X1,0&X3	#	7	0501	M 0|0 0?0		1802
9414	71	63		BW	CMPAB,0&X1	#	8	0508	V 520 0|0 1		1802
9415	71	64		CW	0&X3	#	4	0516	) 0?0		1802
9416	71	65	CMPAB	C	XL1,PARAM&2	#	7	0520	C 089 688		1802
9417	71	66		BU	CPL	#	5	0527	B 568 /		1802
9418	71	67		W		#	1	0532	2		1802
9419	71	68		WM		#	2	0533	2)		1802
9420	71	69	RSTRX	MCW	HLD31&6,XL1	#	7	0535	M 422 089		1803
9421	71	70		MCW	HLD32&6,XL3	#	7	0542	M 415 099		1803
9422	71	71		CS	332	#	4	0549	/ 332		1803

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
9423	71	71		CS		#	1	0553	/		1803
9424	71	73		BSS	*&5,G	#	5	0554	B 563 G		1803
9425	71	74		B	PRTXT	#	4	0559	B 564		1803
9426	71	75		H		#	1	0563	.		1803
9427	71	76	PRTXT	B	0	#	4	0564	B 000		1804
9428	71	77	CPL	SBR	XL1, 1&X1	#	7	0568	H 089 0|1		1804
9429	71	78		BCE	INC, XL3-2, 2	#	8	0575	B 632 097 2		1804
9430	71	79		SBR	XL3, 201	#	7	0583	H 099 201		1804
9431	71	80		W		#	1	0590	2		1804
9432	71	81		WM		#	2	0591	2)		1804
9433	71	82		A	&1,PGCTR	#	7	0593	A 670 664		1804
9434	71	83		C	PGCTR,&15	#	7	0600	C 664 672		1805
9435	71	84		BU	NULIN	#	5	0607	B 433 /		1805
9436	71	85		S	PGCTR	#	4	0612	S 664		1805
9437	71	86		CCB	NULIN,1	#	5	0616	F 433 1		1805
9438	71	87	ONLY	MCW	WORD,220	#	7	0621	M 680 220		1805
9439	71	88		W	RSTRX	#	4	0628	2 535		1805
9440	71	89	INC	A	&1,XL3	#	7	0632	A 670 099		1805
9441	71	90		B	LOOP	#	4	0639	B 497		1806
9442	71	91	HEAD	DCW	@9.....@	#	9	0651			1806
9443	71	92		DCW	@9-@	#	2	0653			1806
9444	71	93	LINCT	DCW	00000	#	5	0658			1806
9445	71	94		LTORG	*	#			0659		
				DCW	@000@	#	3	0661		LIT	1806
				DCW	&2	#	1	0662		LIT	1806
			PGCTR#	DCW	#02	#	2	0664		AREA	1806
				DCW	@9@	#	1	0665		LIT	1807
				DCW	@I0@	#	2	0667		LIT	1807
			CTR #	DCW	#02	#	2	0669		AREA	1807
				DCW	&1	#	1	0670		LIT	1807
				DCW	&15	#	2	0672		LIT	1807
9446	71	95		DCW	@EXECUTE@	#	7	0679			1807
9447	71	96	WORD	DCW	@}@	#	1	0680		GMARK	1807
9448	71	97		XFR	RETRN	#			B 938		1808

GROUP MARK IN 680

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
9449	71	98		JOB	1401 FORTRAN REPLACE PHASE TWO	#					
9450	71	99		SFX	Q	Q					
9451	72	00	NXTOP	EQU	086	Q		0086			
9452	72	01	NXBTM	EQU	083	Q		0083			
9453	72	02	X1	EQU	089	Q		0089			
9454	72	03	X2	EQU	094	Q		0094			
9455	72	04	X3	EQU	099	Q		0099			
9456	72	05	FIXWD	EQU	FIXWDR	Q		0930			
9457	72	06	FLTWD	EQU	FLTWDR	Q		0933			
9458	72	07		ORG	STARTR	Q			0934		
9459	72	08	INIT	SBR	GARY#3,1&X3	Q	7	0934	H V13	0?1	1811
9460	72	09		SW	1&X3	Q	4	0941	,	0?1	1811
9461	72	10		SBR	LIMIT#3,0&X2	Q	7	0945	H V16	0!0	1811
9462	72	11		SBR	TOP#3,0&X1	Q	7	0952	H V19	0!0	1811
9463	72	12		MCW	PARAM&2,X2	Q	7	0959	M 688	094	1811
9464	72	13		C	0&X2	Q	4	0966	C 0!0		1811
9465	72	14		C		Q	1	0970	C		1811
9466	72	15		C		Q	1	0971	C		1812
9467	72	16		SBR	RON&6	Q	4	0972	H T93		1812
9468	72	17		MCW	NXTOP,X2	Q	7	0976	M 086	094	1812
9469	72	18		MN	0&X2	Q	4	0983	D 0!0		1812
9470	72	19		SAR	TOP2#3	Q	4	0987	Q V22		1812
9471	72	20	TEST5	C	X3,LIMIT	Q	7	0991	C 099	V16	1812
9472	72	21	SWTCH	BE	EXITA	Q	5	0998	B /57	S	1812
9473	72	22		C	0&X3	Q	4	1003	C 0?0		1813
9474	72	23		SBR	X2	Q	4	1007	H 094		1813
9475	72	24		SBR	X3	Q	4	1011	H 099		1813
9476	72	25		BCE	TEST2,1&X3,T	Q	8	1015	B |95	0?1 T	1813
9477	72	26	CKFX	MCW	4&X3,BOX	Q	7	1023	M 0?4	V25	1813
9478	72	27		BCE	FXFLT,BOX-2,;	Q	8	1030	B T98	V23 ;	1813
9479	72	28		BCE	FXFLT,BOX-2, _	Q	8	1038	B T98	V23 _	1814
9480	72	29		BCE	RON,BOX-2,]	Q	8	1046	B T87	V23]	1814
9481	72	30		MCW	BOX,4&X3	Q	7	1054	M V25	0?4	1814
9482	72	31	CKBOP	MCW	7&X3,BOX#3	Q	7	1061	M 0?7	V25	1814
9483	72	32		BCE	FXFLT,BOX-2,;	Q	8	1068	B T98	V23 ;	1814
9484	72	33		BCE	FXFLT,BOX-2, _	Q	8	1076	B T98	V23 _	1815
9485	72	34		MCW	BOX,7&X3	Q	7	1084	M V25	0?7	1815
9486	72	35		B	TEST5	Q	4	1091	B 991		1815
9487	72	36	TEST2	BCE	TEST5,4&X3,\$	Q	8	1095	B 991	0?4 \$	1815
9488	72	37		C	0&X3,@B700@	Q	7	1103	C 0?0	V29	1815
9489	72	38		BE	TEST5	Q	5	1110	B 991	S	1815
9490	72	39		BWZ	CKFX,4&X2,1	Q	8	1115	V |23	0!4 1	1816
9491	72	40		BWZ		Q	1	1123	V		1816
9492	72	41		BWZ		Q	1	1124	V		1816
9493	72	42		MCW	@B@,1&X3	Q	7	1125	M V30	0?1	1816
9494	72	43		MCW	4&X2,X1	Q	7	1132	M 0!4	089	1816
9495	72	44		MCW	0&X1,X1	Q	7	1139	M 0!0	089	1816
9496	72	45		MCW	X1,4&X2	Q	7	1146	M 089	0!4	1816
9497	72	46		B	CKFX	Q	4	1153	B |23		1817
9498	72	47	EXITA	MCW	&EXIT,SWTCH&3	Q	7	1157	M V33	|01	1817

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
9499	72	48		MCW	TOP,X3	Q	7	1164	M V19 099		1817
9500	72	49		MCW	@W96@,LIMIT FORM-1 CHG ON REASSM OF OBJ FORMAT	Q	7	1171	M V36 V16		1817
9501	72	50		B	TEST5	Q	4	1178	B 991		1817
9502	72	51	EXIT	MCW	GARY,X3	Q	7	1182	M V13 099		1817
9503	72	52		SBR	X3,1&X3	Q	7	1189	H 099 0?1		1818
9504	72	53		MZ	X3,ALL9	Q	7	1196	Y 099 V07		1818
9505	72	54		MZ		Q	1	1203	Y		1818
9506	72	55		MCW		Q	1	1204	M		1818
9507	72	56		MZ	NXBTM,ALL91	Q	7	1205	Y 083 V10		1818
9508	72	57		MZ		Q	1	1212	Y		1818
9509	72	58		MCW		Q	1	1213	M		1818
9510	72	59		C	ALL9,ALL91	Q	7	1214	C V07 V10		1819
9511	72	60		BE	SPCL	Q	5	1221	B S84 S		1819
9512	72	61		MCW	NXBTM,X3	Q	7	1226	M 083 099		1819
9513	72	62	CLEER	CS	0&X3	Q	4	1233	/ 0?0		1819
9514	72	63		SBR	X3	Q	4	1237	H 099		1819
9515	72	64		C	X3,ALL9	Q	7	1241	C 099 V07		1819
9516	72	65		BU	CLEER	Q	5	1248	B S33 /		1819
9517	72	66	SNGL	C	X3,GARY	Q	7	1253	C 099 V13		1820
9518	72	67		BE	EOJ	Q	5	1260	B S95 S		1820
9519	72	68		LCA	BLNK#1,0&X3	Q	7	1265	L V37 0?0		1820
9520	72	69		SBR	X3	Q	4	1272	H 099		1820
9521	72	70		CW	1&X3	Q	4	1276	) 0?1		1820
9522	72	71		B	SNGL	Q	4	1280	B S53		1820
9523	72	72	SPCL	MCW	NXBTM,X3	Q	7	1284	M 083 099		1820
9524	72	73		B	SNGL	Q	4	1291	B S53		1821
9525	72	74	EOJ	MCW	NXBTM,X3	Q	7	1295	M 083 099		1821
9526	72	75		MCW	@|@,0&X3	Q	7	1302	M V38 0?0		1821
9527	72	76		SBR	X3	Q	4	1309	H 099		1821
9528	72	77		MCW	@|@,0&X3 11-5-8	Q	7	1313	M V39 0?0		1821
9529	72	78		MCW	0&X3	Q	4	1320	M 0?0		1821
9530	72	79		SBR	X3	Q	4	1324	H 099		1821
9531	72	80		LCA	BLNK,2&X3	Q	7	1328	L V37 0?2		1822
9532	72	81		LCA	BLNK	Q	4	1335	L V37		1822
9533	72	82		MCW	DOSBSC,SUBSCR	Q	7	1339	M 909 191		1822
9534	72	83		FENDX	C,, ,XBEGIN,XBEGIN,XBEGIN,SYS2,SNAPSHOT	Q				MACRO	
9535				BSS	333,C	Q	5	1346	B 333 C	GEN	1822
9536				SBR	INITAP&6,XBEGIN	Q	7	1351	H 786 838	GEN	1822
9537				SBR	BCLEAR	Q	4	1358	H 833	GEN	1822
9538				SBR	INITXT&3,XBEGIN	Q	7	1362	H 796 838	GEN	1823
9539				SBR	TCLEAR,SYS2	Q	7	1369	H 710 V49	GEN	1823
9540				LCA	@SNAPSHOT@,110	Q	7	1376	L V47 110	GEN	1823
9541				B	MONTER	Q	4	1383	B 700	GEN	1823
9542	72	84	RON	SBR	4&X3,0	Q	7	1387	H 0?4 000		1823
9543	72	85		B	CKBOP	Q	4	1394	B |61		1823
9544	72	86	FXFLT	SBR	FXT&3	Q	4	1398	H U85		1824
9545	72	87		MCW	FIXWD,BOX2	Q	7	1402	M 930 094		1824
9546	72	88		BCE	*&8,BOX-2,_ 11-7-8	Q	8	1409	B U24 V23 _		1824
9547	72	89		MCW	FLTWD,BOX2	Q	7	1417	M 933 094		1824
9548	72	90		BCE	EOFX,BOX,0	Q	8	1424	B U75 V25 0		1824

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
9549	72	91		BWZ	POSTV,BOX,B	Q	8	1432	V U86 V25 B		1825
9550	72	92	BOX2	EQU	X2	Q		0094			
9551	72	93		SW	BOX-1	Q	4	1440	, V24		1825
9552	72	94	LOOP	A	&1,BOX	Q	7	1444	A V48 V25		1825
9553	72	95		BWZ	DUN2,BOX,B	Q	8	1451	V U71 V25 B		1825
9554	72	96		MN	0&X2	Q	4	1459	D 0!0		1825
9555	72	97		SAR	X2	Q	4	1463	Q 094		1825
9556	72	98		B	LOOP	Q	4	1467	B U44		1825
9557	72	99	DUN2	CW	BOX-1	Q	4	1471	) V24		1826
9558	73	00	EOFX	MCW	BOX2,BOX	Q	7	1475	M 094 V25		1826
9559	73	01	FXT	B	0	Q	4	1482	B 000		1826
9560	73	02	POSTV	MN	BOX,SBR&6	Q	7	1486	D V25 V00		1826
9561	73	03		MN		Q	1	1493	D		1826
9562	73	04	SBR	SBR	BOX,0&X2	Q	7	1494	H V25 0!0		1826
9563	73	05		B	FXT	Q	4	1501	B U82		1826
9564	73	06	ALL9	DCW	999	Q	3	1507			1827
9565	73	07	ALL91	DCW	999	Q	3	1510			1827
9566	73	08		LTORG	*	Q			1511		
			GARY	Q	DCW #03	Q	3	1513		AREA	1827
			LIMIT	Q	DCW #03	Q	3	1516		AREA	1827
			TOP	Q	DCW #03	Q	3	1519		AREA	1827
			TOP2	Q	DCW #03	Q	3	1522		AREA	1827
			BOX	Q	DCW #03	Q	3	1525		AREA	1827
					DCW @B700@	Q	4	1529		LIT	1828
					DCW @B@	Q	1	1530		LIT	1828
					DCW &EXIT Q	Q	3	1533	/82	ADCON	1828
					DCW @W96@	Q	3	1536		LIT	1828
			BLNK	Q	DCW #01	Q	1	1537		AREA	1828
					DCW @|@	Q	1	1538		LIT	1828
					DCW @]@	Q	1	1539		LIT	1828
					DCW @SNAPSHOT@	Q	8	1547		LIT	1829
					DCW &1	Q	1	1548		LIT	1829
9567	73	09	SYS2	DCW	@}@	Q	1	1549		GMARK	1829
9568	73	10		XFR	INIT	Q			B 934		1830

SYSTEM GROUP MARK

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
9569	73	11		JOB	1401 FORTRAN SNAPSHOT PHASE	Q					
9570	73	12		FBEGN	SNAPSHOT,X1,R,,X3,R,8,XXX	Q				MACRO	
9571				SFX	8	8				GEN	
9572			XXX	EQU	0	8		0000		GEN	
9573			110	DCW	@SNAPSHOT@	8	8	0110		GEN	1833
9574			X1	EQU	089	8		0089		GEN	
9575			089	DCW	000	8	3	0089		GEN	1834
9576			091	DC	00	8	2	0091		GEN	1834
9577			X3	EQU	099	8		0099		GEN	
9578			099	DCW	000	8	3	0099		GEN	1835
9579			100	DC	0	8	1	0100		GEN	1835
9580	73	13		ORG	XBEGIN	8			0838		
9581	73	14	START	BCE	*&5,PARAM&8,S	8	8	0838	B 850 694 S		1836
9582	73	15		B	RSTRX	8	4	0846	B /28		1836
9583	73	16		BW	NOGUD,FAILSW	8	8	0850	V /58 184 1		1836
9584	73	17		SBR	X1,4200	8	7	0858	H 089 20|		1836
9585	73	18		SBR	X3,201	8	7	0865	H 099 201		1836
9586	73	19		BCE	NOIO,PARAM&10,X	8	8	0872	B 900 696 X		1837
9587	73	20		BCE	LIO,PARAM&10,L	8	8	0880	B 925 696 L		1837
9588	73	21		BCE	AFORM,PARAM&10,A	8	8	0888	B 950 696 A		1837
9589	73	22		B	PRINT	8	4	0896	B 971		1837
9590	73	23	NOIO	SBR	X1,1600	8	7	0900	H 089 W00		1837
9591	73	24		MCW	@01600@,LINCT	8	7	0907	M T26 T21		1838
9592	73	25		MCW	@1696@,BIGMS	8	7	0914	M T30 T00		1838
9593	73	26		B	PRINT	8	4	0921	B 971		1838
9594	73	27	LIO	SBR	X1,2000	8	7	0925	H 089 !00		1838
9595	73	28		MCW	@02000@,LINCT	8	7	0932	M T35 T21		1838
9596	73	29		MCW	@2015@,BIGMS	8	7	0939	M T39 T00		1838
9597	73	30		B	PRINT	8	4	0946	B 971		1839
9598	73	31	AFORM	SBR	X1,4600	8	7	0950	H 089 60|		1839
9599	73	32		MCW	@04600@,LINCT	8	7	0957	M T44 T21		1839
9600	73	33		MCW	@4616@,BIGMS	8	7	0964	M T48 T00		1839
9601	73	34	PRINT	MESSG	@SNAPSHOT OF OBJECT PROGRAM@,60,1,J	8				MACRO	
9602			PRINT	CC	1	8	2	0971	F 1	GEN	1839
9603				CS	332	8	4	0973	/ 332	GEN	1839
9604				CS		8	1	0977	/	GEN	1839
9605				MCW	@SNAPSHOT OF OBJECT PROGRAM@,60&200	8	7	0978	M T74 260	GEN	1840
9606				W		8	1	0985	2	GEN	1840
9607				CC	J	8	2	0986	F J	GEN	1840
9608	73	35		MESSG	@INPUT/OUTPUT AREAS LOCATED FROM 001-332@,39,,J	8				MACRO	
9609				CS	332	8	4	0988	/ 332	GEN	1840
9610				CS		8	1	0992	/	GEN	1840
9611				MCW	@INPUT/OUTPUT AREAS LOCATED FROM 001-332@,39&200	8	7	0993	M U13 239	GEN	1840
9612				W		8	1	1000	2	GEN	1840
9613				CC	J	8	2	1001	F J	GEN	1841
9614	73	36		MESSG	BIGMS,48,,K	8				MACRO	
9615				CS	332	8	4	1003	/ 332	GEN	1841
9616				CS		8	1	1007	/	GEN	1841
9617				MCW	BIGMS,48&200	8	7	1008	M T00 248	GEN	1841
9618				W		8	1	1015	2	GEN	1841

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
9619				CC	K	8	2	1016	F K	GEN	1841
9620	73	37		ZA	&3,PGCTR	8	7	1018	? U14 U67		1841
9621	73	38	NULIN	CS	332	8	4	1025	/ 332		1842
9622	73	39		CS		8	1	1029	/		1842
9623	73	40		CC	J	8	2	1030	F J		1842
9624	73	41		MCW	LINCT,311	8	7	1032	M T21 311		1842
9625	73	42		MCW		8	1	1039	M		1842
9626	73	43		MCW		8	1	1040	M		1842
9627	73	44		SBR	MVHED&6	8	4	1041	H |58		1842
9628	73	45		MCW	@9@,CTR-1	8	7	1045	M U15 U18		1843
9629	73	46	MVHED	MCW	CTR-1,XXX	8	7	1052	M U18 000		1843
9630	73	47		MCW	HEAD	8	4	1059	M T09		1843
9631	73	48		SBR	MVHED&6	8	4	1063	H |58		1843
9632	73	49		A	@I0@,CTR#2	8	7	1067	A U17 U19		1843
9633	73	50		BWZ	MVHED,CTR-1,2	8	8	1074	V |52 U18 2		1843
9634	73	51		A	&1,LINCT-2	8	7	1082	A U20 T19		1844
9635	73	52		W		8	1	1089	2		1844
9636	73	53	LOOP	SW	0&X3	8	4	1090	, 0?0		1844
9637	73	54		MCW	0&X1,0&X3	8	7	1094	M 0|0 0?0		1844
9638	73	55		BW	CMPAB,0&X1	8	8	1101	V /13 0|0 1		1844
9639	73	56		CW	0&X3	8	4	1109	) 0?0		1844
9640	73	57	CMPAB	C	X1,PARAM&2	8	7	1113	C 089 688		1844
9641	73	58		BU	CPL	8	5	1120	B /88 /		1845
9642	73	59		W		8	1	1125	2		1845
9643	73	60		WM		8	2	1126	2)		1845
9644	73	61	RSTRX	FENDX	C,,,BEGIN/, ,SYSG,CONDECK1	8				MACRO	
9645			RSTRX	BSS	333,C	8	5	1128	B 333 C	GEN	1845
9646				SBR	INITXT&3,BEGIN/	8	7	1133	H 796 884	GEN	1845
9647				SBR	TCLEAR,SYSG	8	7	1140	H 710 U70	GEN	1845
9648				LCA	@CONDECK1@,110	8	7	1147	L U28 110	GEN	1845
9649				B	MONTER	8	4	1154	B 700	GEN	1846
9650	73	62	NOGUD	MESSG	@SNAPSHOT DEFERRED DUE TO INPUT ERRORS@,37,J	8				MACRO	
9651			NOGUD	CC	J	8	2	1158	F J	GEN	1846
9652				CS	332	8	4	1160	/ 332	GEN	1846
9653				CS		8	1	1164	/	GEN	1846
9654				MCW	@SNAPSHOT DEFERRED DUE TO INPUT ERRORS@,37&200	8	7	1165	M U65 237	GEN	1846
9655				W		8	1	1172	2	GEN	1846
9656	73	63		FORMS		8				MACRO	
9657				BCV	*&5	8	5	1173	B /82 @	GEN	1846
9658				B	*&3	8	4	1178	B /84	GEN	1847
9659				CC	1	8	2	1182	F 1	GEN	1847
9660	73	64		B	RSTRX	8	4	1184	B /28		1847
9661	73	65	CPL	SBR	X1,1&X1	8	7	1188	H 089 0|1		1847
9662	73	66		BCE	INC,X3-2,2	8	8	1195	B S42 097 2		1847
9663	73	67		SBR	X3,201	8	7	1203	H 099 201		1847
9664	73	68		W		8	1	1210	2		1847
9665	73	69		WM		8	2	1211	2)		1848
9666	73	70		A	&1,PGCTR#2	8	7	1213	A U20 U67		1848
9667	73	71		C	PGCTR,&15	8	7	1220	C U67 U69		1848
9668	73	72		BU	NULIN	8	5	1227	B |25 /		1848

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
9669	73	73		S	PGCTR	8	4	1232	S U67		1848
9670	73	74		CC	1	8	2	1236	F 1		1848
9671	73	75		B	NULIN	8	4	1238	B |25		1848
9672	73	76	INC	A	&1,X3	8	7	1242	A U20 099		1849
9673	73	77		B	LOOP	8	4	1249	B |90		1849
9674	73	78	BIGMS	DCW	@FIXED OBJECT TIME ROUTINES LOCATED FROM 333-4279@	8	48	1300			1851
9675	73	79	HEAD	DCW	@9.....@	8	9	1309			1851
9676	73	80		DCW	@9@	8	1	1310			1851
9677	73	81		DCW	@-AREA-@	8	6	1316			1851
9678	73	82	LINCT	DCW	04200	8	5	1321			1851
9679	73	83		LTORG	*	8			1322		
				DCW	@01600@	8	5	1326		LIT	1852
				DCW	@1696@	8	4	1330		LIT	1852
				DCW	@02000@	8	5	1335		LIT	1852
				DCW	@2015@	8	4	1339		LIT	1852
				DCW	@04600@	8	5	1344		LIT	1852
				DCW	@4616@	8	4	1348		LIT	1852
				DCW	@SNAPSHOT OF OBJECT PROGRAM@	8	26	1374		LIT	1853
				DCW	@INPUT/OUTPUT AREAS LOCATED FROM 001-332@	8	39	1413		LIT	1854
				DCW	&3	8	1	1414		LIT	1855
				DCW	@9@	8	1	1415		LIT	1855
				DCW	@I0@	8	2	1417		LIT	1855
			CTR 8	DCW	#02	8	2	1419		AREA	1855
				DCW	&1	8	1	1420		LIT	1855
				DCW	@CONDECK1@	8	8	1428		LIT	1855
				DCW	@SNAPSHOT DEFERRED DUE TO INPUT ERRORS@	8	37	1465		LIT	1856
			PGCTR8	DCW	#02	8	2	1467		AREA	1856
				DCW	&15	8	2	1469		LIT	1857
9680	73	84	SYSG	DCW	@}@	8	1	1470		GMARK	1857
9681	73	85		XFR	START	8			B 838		1858

SYSTEM GROUP MARK

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
9682	73	86		JOB	1401 FORTRAN CONDENSED DECK PHASE ONE	8					
9683	73	87		FBEGN	CONDECK1,,,,,,,,/	8				MACRO	
9684				SFX	/	/				GEN	
9685			110	DCW	@CONDECK1@	/	8	0110		GEN	1861
9686	73	88	LAST	EQU	CONLST	/		0194			
9687	73	89		ORG	XBEGIN	/			0838		
9688	73	90	PCHCD	SBR	PXT&3	/	4	0838	H 858		1862
9689	73	91		A	&1,175	/	7	0842	A 883 175		1862
9690	73	92		BSS	MCW18,B	/	5	0849	B 859 B		1862
9691	73	93		P		/	1	0854	4		1862
9692	73	94	PXT	B	0	/	4	0855	B 000		1862
9693	73	95	MCW18	MCW	180,280	/	7	0859	M 180 280		1862
9694	73	96		MCW		/	1	0866	M		1862
9695	73	97		WP		/	1	0867	6		1863
9696	73	98		FORMS		/				MACRO	
9697				BCV	*&5	/	5	0868	B 877 @	GEN	1863
9698				B	*&3	/	4	0873	B 879	GEN	1863
9699				CC	1	/	2	0877	F 1	GEN	1863
9700	73	99		B	PXT	/	4	0879	B 855		1863
9701	74	00		LTORG	*	/			0883		
				DCW	&1	/	1	0883		LIT	1863
9702	74	01	BEGIN	BCE	GOTTA,PARAM&7,P	/	8	0884	B 896 693 P		1863
9703	74	02		B	FENDX	/	4	0892	B 956		1864
9704	74	03	GOTTA	BW	FENDX,FAILSW	/	8	0896	V 956 184 1		1864
9705	74	04		LCA	CONLST, LAST	/	7	0904	L 194 194		1864
9706	74	05		CS	180	/	4	0911	/ 180		1864
9707	74	06		SW	101	/	4	0915	, 101		1864
9708	74	07		MCW	PARAM&-1,180	/	7	0919	M 685 180		1864
9709	74	08		BSS	MESSG,B	/	5	0926	B 935 B		1864
9710	74	09		B	CDDMP	/	4	0931	B 997		1865
9711	74	10	MESSG	MESSG	@CONDENSED DECK@,60,1,J	/				MACRO	
9712			MESSG	CC	1	/	2	0935	F 1	GEN	1865
9713				CS	332	/	4	0937	/ 332	GEN	1865
9714				CS		/	1	0941	/	GEN	1865
9715				MCW	@CONDENSED DECK@,60&200	/	7	0942	M U04 260	GEN	1865
9716				W		/	1	0949	2	GEN	1865
9717				CC	J	/	2	0950	F J	GEN	1865
9718	74	11		B	CDDMP	/	4	0952	B 997		1866
9719	74	12	FENDX	FENDX	C, , , BEGIN, BEGIN, BEGIN, SYS1, CONDECK2	/				MACRO	
9720			FENDX	BSS	333,C	/	5	0956	B 333 C	GEN	1866
9721				SBR	INITAP&6,BEGIN	/	7	0961	H 786 884	GEN	1866
9722				SBR	BCLEAR	/	4	0968	H 833	GEN	1866
9723				SBR	INITXT&3,BEGIN	/	7	0972	H 796 884	GEN	1866
9724				SBR	TCLEAR, SYS1	/	7	0979	H 710 U17	GEN	1866
9725				LCA	@CONDECK2@, 110	/	7	0986	L U12 110	GEN	1867
9726				B	MONTER	/	4	0993	B 700	GEN	1867
9727	74	13	CDDMP	LCA	@0000@,175	/	7	0997	L U16 175		1867
9728	74	14		BWZ	LITCS,PARAM&2,2	/	8	1004	V |45 688 2		1867
9729	74	15		MCW	CS1A,152	/	7	1012	M T19 152		1867
9730	74	16		B	PCHCD	/	4	1019	B 838		1867

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
9731	74	17		MCW	PARAM&2,CS2XA	/	7	1023	M 688 T48		1868
9732	74	18		MCW	CS2A,171	/	7	1030	M T90 171		1868
9733	74	19		B	PCHCD	/	4	1037	B 838		1868
9734	74	20		B	DOBC1	/	4	1041	B |74		1868
9735	74	21	LITCS	MCW	CS1,144	/	7	1045	M /40 144		1868
9736	74	22		B	PCHCD	/	4	1052	B 838		1868
9737	74	23		MCW	PARAM&2,CS2X	/	7	1056	M 688 /69		1869
9738	74	24		MCW	CS2, 170	/	7	1063	M S10 170		1869
9739	74	25		B	PCHCD	/	4	1070	B 838		1869
9740	74	26	DOBC1	MCW	BC1,171	/	7	1074	M S21 171		1869
9741	74	27		CS		/	1	1081	/		1869
9742	74	28		LCA	BC2,146	/	7	1082	L S67 146		1869
9743	74	29		B	PCHCD	/	4	1089	B 838		1869
9744	74	30		B	FENDX	/	4	1093	B 956		1870
9745	74	31	CS1	DCW	@,008015,019026,030,034041,045,053,0570571026@	/	44	1140			1872
9746	74	32	CS2X	DCW	@L068112,102106,113/101099/I99@	/	29	1169			1872
9747	74	33	CS2	DC	@,027A070028)027B0010270B0261,001/001113I0@	/	41	1210			1874
9748	74	34	BC1	DCW	@,0010011040@	/	11	1221			1874
9749	74	35	BC2	DCW	@,008015,022029,036040,047054,061068,072/061039@	/	46	1267			1876
9750	74	364		DCW	@,008015,022026,030037,044,049,053034@	V3M4	/	36	1303		1877
9751	74	37	CS1A	DC	@,035036N00001026@	V3M4	/	16	1319		1878
9752	74	38	CS2XA	DCW	@L068116,105106,110117B101/I9I@	/	29	1348			1879
9753	74	39	CS2A	DC	@H029NNNC029056B026/B001/0991,001/001117I0?@	V3M4	/	42	1390		1881
9754	74	40		LTORG	*	/			1391		
				DCW	@CONDENSED DECK@	/	14	1404		LIT	1881
				DCW	@CONDECK2@	/	8	1412		LIT	1881
				DCW	@0000@	/	4	1416		LIT	1881
9755	74	41	SYS1	DCW	@}@	/	1	1417		GMARK	1881
9756	74	42		XFR	BEGIN	/			B 884		1882

SYSTEM GROUP MARK

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
9757	74	43		JOB	1401 FORTRAN CONDENSED DECK PHASE TWO	/					
9758	74	44		FBEGN	CONDECK2,,,,,,2	/				MACRO	
9759				SFX	2	2				GEN	
9760			110	DCW	@CONDECK2@	2	8	0110		GEN	1885
9761	74	45		ORG	BEGIN/	2			0884		
9762	74	46	START	MCW	MONITOR,READ	2	7	0884	M 769 |74		1886
9763	74	47		BW	PCHTS,XLINKW	2	8	0891	V 984 185 1		1886
9764	74	48		MCW	MONITOR,SKPSS	2	7	0899	M 769 920		1886
9765	74	49		SBR	TPERR&15,RDTPS	2	7	0906	H /17 931		1886
9766	74	50		SBR	CK4B-1,MVNSS	2	7	0913	H /30 924		1886
9767	74	51	SKPSS	R	ENDSS	2	4	0920	1 944		1887
9768	74	52	MVNSS	MCW	&9,RDCNT	2	7	0924	M V36 V85		1887
9769	74	53	RDTPS	RT	1,1	2	8	0931	M %U1 001 R		1887
9770	74	54		BER	TPERR	2	5	0939	B /02 L		1887
9771	74	55	ENDSS	BCE	*&5,68,B	2	8	0944	B 956 068 B		1887
9772	74	56		B	SKPSS	2	4	0952	B 920		1887
9773	74	57		SBR	GETXT&3,CK4B	2	7	0956	H /01 /31		1888
9774	74	58		SBR	TPERR&15,RDTAP	2	7	0963	H /17 |85		1888
9775	74	59		SBR	CK4B-1,MVNIN	2	7	0970	H /30 |78		1888
9776	74	60		A	&1,NBRWS	2	7	0977	A V37 V86		1888
9777	74	61	PCHTS	BCE	*&5,PARAM&7,P	2	8	0984	B 996 693 P		1888
9778	74	62		B	READ	2	4	0992	B |74		1889
9779	74	63		BW	NOPUN,FAILSW	2	8	0996	V /66 184 1		1889
9780	74	64		MCW	@1040@,171	2	7	1004	M V41 171		1889
9781	74	65		MCW	@L014100,092097,081082,083084@	2	4	1011	M V69		1889
9782	74	66		CS		2	1	1015	/		1889
9783	74	67		LCA	@0000000000000000@, 114	2	7	1016	L V83 114		1889
9784	74	68		MCW	@B@,RETRN	2	7	1023	M V84 |70		1889
9785	74	69		B	PCHCD	2	4	1030	B 838		1890
9786	74	70		MCW	@1040@,171	2	7	1034	M V41 171		1890
9787	74	71		MCW	LDFMT-1	2	4	1041	M V34		1890
9788	74	72		CS		2	1	1045	/		1890
9789	74	73		MCW	MASK,157	2	7	1046	M U63 157		1890
9790	74	74		SW	SYSC2	2	4	1053	, W12		1890
9791	74	75		MCW	SYSC2,108	2	7	1057	M W12 108		1890
9792	75	76		MCW	PARAM&6	2	4	1064	M 692		1891
9793	75	77		MCW		2	1	1068	M		1891
9794	75	78		LCA		2	1	1069	L		1891
9795	74	79	RETRN	NOP	PCHCD	2	4	1070	N 838		1891
9796	74	80	READ	R	GETXT	2	4	1074	1 |98		1891
9797	74	81	MVNIN	MCW	&9,RDCNT#1	2	7	1078	M V36 V85		1891
9798	74	82	RDTAP	RT	1,1	2	8	1085	M %U1 001 R		1891
9799	74	83		BER	TPERR	2	5	1093	B /02 L		1892
9800	74	84	GETXT	B	ONCE	2	4	1098	B /55		1892
9801	74	85	TPERR	BSP	1	2	5	1102	U %U1 B		1892
9802	74	86		S	&1,RDCNT	2	7	1107	S V37 V85		1892
9803	74	87		BWZ	RDTAP,RDCNT,B	2	8	1114	V |85 V85 B		1892
9804	74	88		NOP	3333	2	4	1122	N C33		1892
9805	74	89		H		2	1	1126	.		1892
9806	74	90		B	MVNIN	2	4	1127	B |78		1893

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
9807	74	91	CK4B	BCE	FENDX,68,B	2	8	1131	B /85 068 B		1893
9808	74	92		MCW	71,171	2	7	1139	M 071 171		1893
9809	74	93		CHAIN	5	2				MACRO	
9810				MCW		2	1	1146	M	GEN	1893
9811				MCW		2	1	1147	M	GEN	1893
9812				MCW		2	1	1148	M	GEN	1893
9813				MCW		2	1	1149	M	GEN	1893
9814				MCW		2	1	1150	M	GEN	1894
9815	74	94		B	RETRN	2	4	1151	B |70		1894
9816	74	95	ONCE	SBR	GETXT&3,CK4B	2	7	1155	H /01 /31		1894
9817	74	96		B	READ	2	4	1162	B |74		1894
9818	74	97	NOPUN	MESSG	MESSG,43,,J	2				MACRO	
9819			NOPUN	CS	332	2	4	1166	/ 332	GEN	1894
9820				CS		2	1	1170	/	GEN	1894
9821				MCW	MESSG,43&200	2	7	1171	M V06 243	GEN	1894
9822				W		2	1	1178	2	GEN	1895
9823				CC	J	2	2	1179	F J	GEN	1895
9824	74	98		B	READ	2	4	1181	B |74		1895
9825	74	99	FENDX	A	&1,NBRWSW#1	2	7	1185	A V37 V86		1895
9826	75	00		BCE	EXIT,NBRWSW,3	2	8	1192	B S95 V86 3		1895
9827	75	01		BCE	READ,NBRWSW,2	2	8	1200	B |74 V86 2		1895
9828	75	02		BW	*&5,XLINKW	2	8	1208	V S20 185 1		1895
9829	75	03		B	READ	2	4	1216	B |74		1896
9830	75	04		MCW	MONITOR,SKPXL	2	7	1220	M 769 S41		1896
9831	75	05		SBR	TPERR&15,RDTPX	2	7	1227	H /17 S52		1896
9832	75	06		SBR	CK4B-1,MVNXL	2	7	1234	H /30 S45		1896
9833	75	07	SKPXL	R	ENDXL	2	4	1241	1 S65		1896
9834	75	08	MVNXL	MCW	&9,RDCNT	2	7	1245	M V36 V85		1896
9835	75	09	RDTPX	RT	1,1	2	8	1252	M %U1 001 R		1897
9836	75	10		BER	TPERR	2	5	1260	B /02 L		1897
9837	75	11	ENDXL	BCE	*&5,68,B	2	8	1265	B S77 068 B		1897
9838	75	12		B	SKPXL	2	4	1273	B S41		1897
9839	75	13		SBR	TPERR&15,RDTAP	2	7	1277	H /17 |85		1897
9840	75	14		SBR	CK4B-1,MVNIN	2	7	1284	H /30 |78		1897
9841	75	15		B	FENDX	2	4	1291	B /85		1898
9842	75	16	EXIT	SBR	GETXT&3,FEND2	2	7	1295	H /01 T06		1898
9843	75	17		B	READ	2	4	1302	B |74		1898
9844	75	18	FEND2	BCE	FEND3,RETRN,N	2	8	1306	B U05 |70 N		1898
9845	75	19		CS	171	2	4	1314	/ 171		1898
9846	75	20		SW	101	2	4	1318	, 101		1898
9847	75	21		MCW	@1040@,171	2	7	1322	M V41 171		1898
9848	75	22		MCW	LDFMT-1	2	4	1329	M V34		1899
9849	75	23		MCW	@M002V36@,146	2	7	1333	M V93 146		1899
9850	75	24		MCW	PARAM&4,102	2	7	1340	M 690 102		1899
9851	75	25		B	PCHCD	2	4	1347	B 838		1899
9852	75	26		MCW	@837@,146	2	7	1351	M V96 146		1899
9853	75	27		MCW	PARAM&6,102	2	7	1358	M 692 102		1899
9854	75	28		B	PCHCD	2	4	1365	B 838		1900
9855	75	29		MCW	@3T30@,146	2	7	1369	M W00 146		1900
9856	75	30		MCW	GOTOFN,103	2	7	1376	M 188 103		1900

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
9857	75	31		B	PCHCD	2	4	1383	B 838		1900
9858	75	32		MCW	@S09@,146 CHANGE ON REASM OF OB ARITH STSUB&3	2	7	1387	M W03 146		1900
9859	75	33		MCW	SUBSCR,103	2	7	1394	M 191 103		1900
9860	75	34		B	PCHCD	2	4	1401	B 838		1901
9861	75	35	FEND3	FENDX	C, , ,XBEGIN,XBEGIN,XBEGIN,SYSC2,CONDECK3	2				MACRO	
9862			FEND3	BSS	333,C	2	5	1405	B 333 C	GEN	1901
9863				SBR	INITAP&6,XBEGIN	2	7	1410	H 786 838	GEN	1901
9864				SBR	BCLEAR	2	4	1417	H 833	GEN	1901
9865				SBR	INITXT&3,XBEGIN	2	7	1421	H 796 838	GEN	1901
9866				SBR	TCLEAR,SYSC2	2	7	1428	H 710 W12	GEN	1901
9867				LCA	@CONDECK3@,110	2	7	1435	L W11 110	GEN	1902
9868				B	MONTER	2	4	1442	B 700	GEN	1902
9869	75	36		DCW	@L008@	2	4	1449			1902
9870	75	37		DC	PARAM&7	2	3	1452	693		1902
9871	75	38		DC	@,@	2	1	1453			1902
9872	75	39		DC	PARAM&3	2	3	1456	689		1902
9873	75	40		DC	PARAM&5	2	3	1459	691		1902
9874	75	41		DC	@,@	2	1	1460			1902
9875	75	42	MASK	DC	PARAM&7	2	3	1463	693		1902
9876	75	43	MESSG	DCW	@CONDENSED DECK DEFERRED DUE TO INPUT ERRORS@	2	43	1506			1904
9877	75	44	LDFMT	DCW	@L039000,040040,040040,040040\$@	2	29	1535			1904
9878	75	45		LTORG	*	2			1536		
				DCW	&9	2	1	1536		LIT	1904
				DCW	&1	2	1	1537		LIT	1904
				DCW	@1040@	2	4	1541		LIT	1904
				DCW	@L014100,092097,081082,083084@	2	28	1569		LIT	1905
				DCW	@000000000000000@	2	14	1583		LIT	1906
				DCW	@B@	2	1	1584		LIT	1906
			RDCNT2	DCW	#01	2	1	1585		AREA	1906
			NBRW2	DCW	#01	2	1	1586		AREA	1906
				DCW	@M002V36@	2	7	1593		LIT	1906
				DCW	@837@	2	3	1596		LIT	1906
				DCW	@3T30@	2	4	1600		LIT	1906
				DCW	@S09@	2	3	1603		LIT	1907
				DCW	@CONDECK3@	2	8	1611		LIT	1907
9879	75	46	SYSC2	DCW	@}@	2	1	1612		GMARK	1907
9880	75	47	PCHCD	EQU	PCHCD/	2		0838			
9881	75	48		XFR	START	2			B 884		1908

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
9882	75	49		JOB	1401 FORTRAN FIXED ROUTINE FOR CONDENSING ROUTINE	2					
9883	75	50	110	DCW	@]]]]@ ALL 11-5-8 FIRST CARD	2	5	0110			1911
9884	75	51	*								
9885	75	52	*								
9886	75	53	*		COPY OF FIXED PACKAGE						
9887	75	54	*		SNAPSHOT - XLINK - ARITH						
9888	75	55	*								
9889	75	56	110	DCW	@; ; ; ; @ ALL 11-6-8 LAST CARD	2	5	0110			1912

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
9890	75	57		JOB	1401 FORTRAN CONDENSED DECK PHASE THREE	2					
9891	75	58		FBEGN	CONDECK3,X1,R,X2,R,X3,R,1	2				MACRO	
9892				SFX	1	1				GEN	
9893		110		DCW	@CONDECK3@	1	8	0110		GEN	1913
9894		X1		EQU	089	1		0089		GEN	
9895		089		DCW	000	1	3	0089		GEN	1914
9896		091		DC	00	1	2	0091		GEN	1914
9897		X2		EQU	094	1		0094		GEN	
9898		094		DCW	000	1	3	0094		GEN	1914
9899		096		DC	00	1	2	0096		GEN	1914
9900		X3		EQU	099	1		0099		GEN	
9901		099		DCW	000	1	3	0099		GEN	1914
9902		100		DC	0	1	1	0100		GEN	1914
9903	75	59	LAST	EQU	CONLST	1		0194			
9904	75	60		ORG	XBEGIN	1			0838		
9905	75	61	BEGIN	MCW	GOGOGO,X1	1	7	0838	M 183 089		1915
9906	75	62		BCE	*&5,PARAM&7,P	1	8	0845	B 857 693 P		1915
9907	75	63		B	GARY	1	4	0853	B U74		1915
9908	75	64		BW	GARY,FAILSW	1	8	0857	V U74 184 1		1915
9909	75	65	REST	SBR	WPB&3,RESET	1	7	0865	H /55 893		1915
9910	75	66		MCW	CON40-11,BOX1	1	7	0872	M V10 V38		1916
9911	75	67		MCW	@146@,X3	1	7	0879	M V25 099		1916
9912	75	68		MCW	@L@,140	1	7	0886	M V26 140		1916
9913	75	69	RESET	CS	139	1	4	0893	/ 139		1916
9914	75	70		FORMS		1				MACRO	
9915				BCV	*&5	1	5	0897	B 906 @	GEN	1916
9916				B	*&3	1	4	0902	B 908	GEN	1916
9917				CC	1	1	2	0906	F 1	GEN	1916
9918	75	71		MCW	CON40,171	1	7	0908	M V21 171		1917
9919	75	72		SW	140	1	4	0915	, 140		1917
9920	75	73		CS	332	1	4	0919	/ 332		1917
9921	75	74		CS		1	1	0923	/		1917
9922	75	75		SW	101	1	4	0924	, 101		1917
9923	75	76		MCW	@001@,X2	1	7	0928	M V29 094		1917
9924	75	77		MCW	@1@,FLIP#1	1	7	0935	M V30 V31		1917
9925	75	78		MCW	BOX1#7,153	1	7	0942	M V38 153		1918
9926	75	79		BW	SKIP2,SKPSW	1	8	0949	V S91 V22 1		1918
9927	75	80	MOVE	MN	0&X1,100&X2	1	7	0957	D 0|0 1!0		1918
9928	75	81		MZ	0&X1,100&X2	1	7	0964	Y 0|0 1!0		1918
9929	75	82	CPAR	C	LAST,X1	1	7	0971	C 194 089		1918
9930	75	83		BE	TERM	1	5	0978	B S04 S		1919
9931	75	84		SBR	X1,1&X1	1	7	0983	H 089 0|1		1919
9932	75	85		SBR	X2,1&X2	1	7	0990	H 094 0!1		1919
9933	75	86		BCE	SKIP,0&X1,]	1	8	0997	B S83 0|0]		1919
9934	75	87		BW	CDFUL,0&X1	1	8	1005	V S15 0|0 1		1919
9935	75	88	TBKFF	C	@040@,X2	1	7	1013	C V41 094		1920
9936	75	89		BL	MOVE	1	5	1020	B 957 T		1920
9937	75	90		C	@160@,X3	1	7	1025	C V44 099		1920
9938	75	91		BL	LOZNG	1	5	1032	B /75 T		1920
9939	75	92		MCW	@040@,167	1	7	1037	M V41 167		1920

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
9940	75	93		BH	* & 8	1	5	1044	B | 56 U		1920
9941	75	94		MCW	@040@, 164	1	7	1049	M V41 164		1921
9942	75	95		CW	140	1	4	1056	) 140		1921
9943	75	96	SW	SW	000	1	4	1060	, 000		1921
9944	75	97		SBR	X2	1	4	1064	H 094		1921
9945	75	98		A	-990,X2&1	1	7	1068	A V47 095		1921
9946	75	99		MCW	239,139	1	7	1075	M 239 139		1921
9947	76	00	SBR	SBR	X1,000	1	7	1082	H 089 000		1922
9948	76	01	COMMA	MCW	CON40-11,BOX1	1	7	1089	M V10 V38		1922
9949	76	02		MCW	@146@,X3	1	7	1096	M V25 099		1922
9950	76	03	WP	A	@1@,CDNO	1	7	1103	A V30 175		1922
9951	76	04		MN	0&X2	1	4	1110	D 0!0		1922
9952	76	05		SBR	143	1	4	1114	H 143		1922
9953	76	06		C	143,@000@	1	7	1118	C 143 V50		1923
9954	76	07		BE	END1	V3M4 1	5	1125	B T48 S		1923
9955	76	08		MN	0&X1	1	4	1130	D 0!0		1923
9956	76	09		SBR	146	1	4	1134	H 146		1923
9957	76	10		LCA	180,280	1	7	1138	L 180 280		1923
9958	76	11		LCA		1	1	1145	L		1923
9959	76	12		LCA		1	1	1146	L		1923
9960	76	13		BSS	SWLWP,B	1	5	1147	B /56 B		1924
9961	76	14	WPB	P	RESET	1	4	1152	4 893		1924
9962	76	15	SWLWP	SW	LWPB&1	1	4	1156	, /72		1924
9963	76	16		MCW	WPB&3,LWPB&3	1	7	1160	M /55 /74		1924
9964	76	17		CW	LWPB&1	1	4	1167	) /72		1924
9965	76	18	LWPB	WP	RESET	1	4	1171	6 893		1924
9966	76	19	LOZNG	MCW	@)@,BOX1-6	1	7	1175	M V51 V32		1924
9967	76	20		MCW	X1,BOX1	1	7	1182	M 089 V38		1925
9968	76	21		MCW	X1	1	4	1189	M 089		1925
9969	76	22		MCW	@153@,X3	1	7	1193	M V54 099		1925
9970	76	23		B	WP	1	4	1200	B /03		1925
9971	76	24	TERM	SBR	WPB&3,END1	1	7	1204	H /55 T48		1925
9972	76	25		B	WP	1	4	1211	B /03		1925
9973	76	26	CDFUL	MCW	X1,SBR&6	1	7	1215	M 089 |88		1926
9974	76	27		SBR	SW&3,100&X2	1	7	1222	H |63 1!0		1926
9975	76	28		C	@040@,X2	1	7	1229	C V41 094		1926
9976	76	29		BE	COMMA	1	5	1236	B |89 S		1926
9977	76	30		C	@167@,X3	1	7	1241	C V57 099		1926
9978	76	31		BE	COMMA	1	5	1248	B |89 S		1926
9979	76	32		SBR	X3,3&X3	1	7	1253	H 099 0?3		1927
9980	76	33		ZS	FLIP	1	4	1260	! V31		1927
9981	76	34		BM	PLUS1,FLIP	1	8	1264	V T37 V31 K		1927
9982	76	25	MCW	MCW	X1,0&X3	1	7	1272	M 089 0?0		1927
9983	76	36		B	MOVE	1	4	1279	B 957		1927
9984	76	37	SKIP	SW	SKPSW	1	4	1283	, V22		1927
9985	76	38		B	COMMA	1	4	1287	B |89		1927
9986	76	39	SKIP2	CW	SKPSW	1	4	1291	) V22		1928
9987	76	40		MCM	0&X1	1	4	1295	P 0!0		1928
9988	76	41		SBR	X1	1	4	1299	H 089		1928
9989	76	42		BW	MOVE,0&X1	1	8	1303	V 957 0!0 1		1928

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD	
9990	76	43		MCW	X1,153	1	7	1311	M 089 153		1928	
9991	76	44		MCW	X1	1	4	1318	M 089		1928	
9992	76	45		MCW	@)@	1	4	1322	M V51		1928	
9993	76	46		MCW	@153@,X3	1	7	1326	M V54 099		1929	
9994	76	47		B	MOVE	1	4	1333	B 957		1929	
9995	76	48	PLUS1	SBR	X3,1&X3	1	7	1337	H 099 0?1		1929	
9996	76	49		B	MCW	1	4	1344	B S72		1929	
9997	76	50	END1	SBR	X1,1697 FORMAT	1	7	1348	H 089 W97		1929	
9998	76	51		BCE	END2,PARAM&10,X	1	8	1355	B U26 696 X		1929	
9999	76	52		BCE	LIO,PARAM&10,L	1	8	1363	B U04 696 L		1930	
	76	53		BCE	AFORM,PARAM&10,A	1	8	1371	B U15 696 A		1930	
1	76	54	NEXT1	SBR	CPAR&3,HIFMT	1	7	1379	H 974 V03		1930	
2	76	55		SBR	WP&25,END2	V3M4	1	7	1386	H /28 U26		1930
3	76	56		SBR	TERM&6,END2	1	7	1393	H S10 U26		1930	
4	76	57		B	REST	1	4	1400	B 865		1931	
5	76	58	LIO	SBR	HIFMT,2016	1	7	1404	H V03 !16		1931	
6	76	59		B	NEXT1	1	4	1411	B T79		1931	
7	76	60	AFORM	SBR	HIFMT,4617	1	7	1415	H V03 61X		1931	
8	76	61		B	NEXT1	1	4	1422	B T79		1931	
9	76	62	END2	CS	171	1	4	1426	/ 171		1931	
10	76	63		MCW	@080@,146	1	7	1430	M V60 146		1931	
11	76	64		MCW	GOGOGO	1	4	1437	M 183		1932	
12	76	65		LCA	@/@	1	4	1441	L V61		1932	
13	76	66		A	@1@,CDNO	1	7	1445	A V30 175		1932	
14	76	67		LCA	180,280	1	7	1452	L 180 280		1932	
15	76	68		LCA		1	1	1459	L		1932	
16	76	69		CS		1	1	1460	/		1932	
17	76	70		BSS	WPCS,B	1	5	1461	B U97 B		1932	
18	76	71		P		1	1	1466	4		1933	
19	76	72	CS180	CS	180	1	4	1467	/ 180		1933	
20	76	73		P		1	1	1471	4		1933	
21	76	74		SS	8	1	2	1472	K 8		1933	
22	76	75	GARY	FENDX	C,,,,,SYS2,GAUX ONE	1				MACRO		
23			GARY	BSS	333,C	1	5	1474	B 333 C	GEN	1933	
24				SBR	TCLEAR,SYS2	1	7	1479	H 710 V73	GEN	1933	
25				LCA	@GAUX ONE@,110	1	7	1486	L V69 110	GEN	1933	
26				B	MONTER	1	4	1493	B 700	GEN	1934	
27	76	76	WPCS	WP	CS180	1	4	1497	6 U67		1934	
28	76	77	HIFMT	DSA	4280 CHANGE IF ARRAYS DONOT ORIGIN AT 4280	1	3	1503	28|		1934	
29	76	78	CON40	DCW	@,040040,0400401040@	1	18	1521			1934	
30	76	79	SKPSW	DC	#1	1	1	1522			1934	
31	76	80		LTORG	*	1			1523			
				DCW	@146@	1	3	1525		LIT	1934	
				DCW	@L@	1	1	1526		LIT	1934	
				DCW	@001@	1	3	1529		LIT	1934	
				DCW	@1@	1	1	1530		LIT	1935	
			FLIP 1	DCW	#01	1	1	1531		AREA	1935	
			BOX1 1	DCW	#07	1	7	1538		AREA	1935	
				DCW	@040@	1	3	1541		LIT	1935	
				DCW	@160@	1	3	1544		LIT	1935	

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
				DCW	-990	1	3	1547		LIT	1935
				DCW	@000@	1	3	1550		LIT	1935
				DCW	@)@	1	1	1551		LIT	1936
				DCW	@153@	1	3	1554		LIT	1936
				DCW	@167@	1	3	1557		LIT	1936
				DCW	@080@	1	3	1560		LIT	1936
				DCW	@/@	1	1	1561		LIT	1936
				DCW	@GAUX ONE@	1	8	1569		LIT	1936
				DCW	@I99@	1	3	1572			1936
32	76	81		DCW	@}@	1	1	1573		GMARK	1937
33	76	82	SYS2	DCW	@}@	1	1	1573		GMARK	1937
34	76	83	CDNO	EQU	175	1		0175			
35	76	84		XFR	BEGIN	1			B 838		1938

SYSTEM GROUP MARK

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
36	76	85		JOB	1401 FORTRAN GEAUX PHASE ONE	1					
37	76	86		FBEGN	GEAUX 1,X1,R,,,,,6	1				MACRO	
38				SFX	6	6				GEN	
39			110	DCW	@GEAUX 1@	6	7	0110		GEN	1941
40			X1	EQU	089	6		0089		GEN	
41			089	DCW	000	6	3	0089		GEN	1942
42			091	DC	00	6	2	0091		GEN	1942
43	76	87		ORG	XBEGIN	6			0838		
44	76	88	START	LCA	BLNK4#4,84	6	7	0838	L | 78 084		1943
45	76	89		SW	84	6	4	0845	, 084		1943
46	76	90		SW		6	1	0849	,		1943
47	76	91		SW		6	1	0850	,		1943
48	76	92		MESSG	@END OF COMPILATION@,18,1	6				MACRO	
49				CC	1	6	2	0851	F 1	GEN	1943
50				CS	332	6	4	0853	/ 332	GEN	1943
51				CS		6	1	0857	/	GEN	1943
52				MCW	@END OF COMPILATION@,18&200	6	7	0858	M | 96 218	GEN	1944
53				W		6	1	0865	2	GEN	1944
54	76	93		MCW	GOGOGO,X1	6	7	0866	M 183 089		1944
55	76	94		BW	BAD,FAILSW	6	8	0873	V | 56 184 1		1944
56	76	95		MESSG	@PRESS START TO GO@,17,J	6				MACRO	
57				CC	J	6	2	0881	F J	GEN	1944
58				CS	332	6	4	0883	/ 332	GEN	1944
59				CS		6	1	0887	/	GEN	1944
60				MCW	@PRESS START TO GO@,17&200	6	7	0888	M /13 217	GEN	1945
61				W		6	1	0895	2	GEN	1945
62	76	96	OUT	SW	SYS2	6	4	0896	, /44		1945
63	76	97		LCA	SYS2,693	6	7	0900	L /44 693		1945
64	76	98		BCE	CDSYS,MONTOR,1	6	8	0907	B 963 769 1		1945
65	76	99		BW	SKPXL,XLINKW	6	8	0915	V 988 185 1		1945
66	77	00		SBR	TPERX&15,RTPXL	6	7	0923	H 962 930		1946
67	77	01	RTPXL	RTW	1,333	6	8	0930	L %U1 333 R		1946
68	77	02		BER	TPERX	6	5	0938	B 947 L		1946
69	77	03		B	OUT33	6	4	0943	B | 20		1946
70	77	04	TPERX	BSP	1	6	5	0947	U %U1 B		1946
71	77	05		H	4444,4444	6	7	0952	. 44U 44U		1946
72	77	06		B	SKPXL	6	4	0959	B 988		1947
73	77	07	CDSYS	BW	SKPXC,XLINKW	6	8	0963	V 975 185 1		1947
74	77	08		R	040	6	4	0971	1 040		1947
75	77	09	SKPXC	R		6	1	0975	1		1947
76	77	10		BCE	OUT2,68,B	6	8	0976	B | 01 068 B		1947
77	77	11		B	SKPXC	6	4	0984	B 975		1947
78	77	12	SKPXL	RTW	1,SYS2	6	8	0988	L %U1 /44 R		1947
79	77	13		BER	TPERX	6	5	0996	B 947 L		1948
80	77	14	OUT2	BSS	333,C	6	5	1001	B 333 C		1948
81	77	15		LCA	@N@,381	6	7	1006	L /14 381		1948
82	77	16		LCA	@.,564	6	7	1013	L /15 564		1948
83	77	17	OUT33	CW	680	6	4	1020	) 680		1948
84	77	18		SBR	TCLEAR,SYS2	6	7	1024	H 710 /44		1948
85	77	19		SBR	INITAP&6,201	6	7	1031	H 786 201		1949

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
86	77	20		SBR	INITXT&3,201	6	7	1038	H 796 201		1949
87	77	21		SBR	BCLEAR,XBEGIN	6	7	1045	H 833 838		1949
88	77	22		B	MONTER	6	4	1052	B 700		1949
89	77	23	BAD	MESSG	@CORRECT ERRORS AND RECOMPILE@,28,J	6				MACRO	
90			BAD	CC	J	6	2	1056	F J	GEN	1949
91				CS	332	6	4	1058	/ 332	GEN	1949
92				CS		6	1	1062	/	GEN	1949
93				MCW	@CORRECT ERRORS AND RECOMPILE@,28&200	6	7	1063	M /43 228	GEN	1950
94				W		6	1	1070	2	GEN	1950
95	77	24		B	OUT	6	4	1071	B 896		1950
96	77	25		LTORG	*	6			1075		
			BLNK46	DCW	#04	6	4	1078		AREA	1950
				DCW	@END OF COMPILATION@	6	18	1096		LIT	1950
				DCW	@PRESS START TO GO@	6	17	1113		LIT	1951
				DCW	@N@	6	1	1114		LIT	1951
				DCW	@.@	6	1	1115		LIT	1951
				DCW	@CORRECT ERRORS AND RECOMPILE@	6	28	1143		LIT	1952
97	77	26	SYS2	DCW	@}@	6	1	1144		GMARK	1952
98	77	27		XFR	START	6			B 838		1953

SYSTEM GROUP MARK

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
99	77	28		JOB	1401 FORTRAN FIXED XLINK ROUTINE	6					
100	77	29		SFX	# AS IN SNAPSHOTS	#					
101	77	30		ORG	333	#			0333		
102	77	31		H	333	#	4	0333	. 333		1956
103	77	32	START	MCW	86,XL2 X2 FOLLOWS B700	#	7	0337	M 086 094		1956
104	77	33		CS	80	#	4	0344	/ 080		1956
105	77	34		BCE	ARRAY,0&X2,\$	#	8	0348	B 585 010 \$		1956
106	77	35	CLEAR	CS	000	#	4	0356	/ 000		1956
107	77	36		SBR	ADR3	#	4	0360	H 359		1956
108	77	37		C	ADR3,@699@	#	7	0364	C 359 645		1956
109	77	38		BU	CLEAR	#	5	0371	B 356 /		1957
110	77	39		SW	ACCHI-5&X3	#	4	0376	, 2G4		1957
111	77	40		MZ	ACCHI&X3,FIELD	#	7	0380	Y 2G9 642		1957
112	77	41		C	FIELD,ACCHI&X3	#	7	0387	C 642 2G9		1957
113	77	42		BE	CARDS	#	5	0394	B 603 S		1957
114	77	43		BM	GETM,ACCHI&X3	#	8	0399	V 620 2G9 K		1957
115	77	44		MZ	ZERO,ACCHI&X3	#	7	0407	Y 637 2G9		1958
116	77	45		C	699,ACCHI&X3	#	7	0414	C 699 2G9		1958
117	77	46		BE	GETM	#	5	0421	B 620 S		1958
118	77	47		SW	22	#	4	0426	, 022		1958
119	77	48		MCW	GM,22	#	7	0430	M 680 022		1958
120	77	49	SERCH	RT	1,1	#	8	0437	M %U1 001 R		1958
121	77	50		BEF	OUT	#	5	0445	B 478 K		1959
122	77	51		C	10,@LIB@	#	7	0450	C 010 648		1959
123	77	52		BU	SERCH	#	5	0457	B 437 /		1959
124	77	53		C	17,ACCHI&X3	#	7	0462	C 017 2G9		1959
125	77	54		BE	T1	#	5	0469	B 498 S		1959
126	77	55		B	SERCH	#	4	0474	B 437		1959
127	77	56	OUT	NOP	CARDS	#	4	0478	N 603		1959
128	77	57		MCW	TPERM,OUT	V3M4 #	7	0482	M 581 478		1960
129	77	58		RWD	1	#	5	0489	U %U1 R		1960
130	77	59		B	SERCH	#	4	0494	B 437		1960
131	77	60	T1	LCA	ZEROS,101	#	7	0498	L 641 101		1960
132	77	61		LCA	ZEROS	#	4	0505	L 641		1960
133	77	62		LCA	ZEROS	#	4	0509	L 641		1960
134	77	63		RTW	1,333	#	8	0513	L %U1 333 R		1960
135	77	64		BER	ERR	#	5	0521	B 557 L		1961
136	77	65		MCW	ZERO,CTRR	#	7	0526	M 637 641		1961
137	77	66		SBR	TPERM-1,T2	#	7	0533	H 580 540		1961
138	77	67	T2	RTW	1,700	#	8	0540	L %U1 700 R		1961
139	77	68		BER	ERR	#	5	0548	B 557 L		1961
140	77	69	TBOOT	B	000 FROM LIBED	#	4	0553	B 000		1961
141	77	70	ERR	A	ONE,CTRR	#	7	0557	A 679 641		1962
142	77	71		BCE	TPERM,CTRR,9	#	8	0564	B 581 641 9		1962
143	77	72		BSP	1	#	5	0572	U %U1 B		1962
144	77	73		B	T1	#	4	0577	B 498		1962
145	77	74	TPERM	H	TPERM	#	4	0581	. 581		1962
146	77	75	ARRAY	MCW	3&X2,ADR3	#	7	0585	M 013 359		1962
147	77	76		MZ	ZERO,ADR3-1	#	7	0592	Y 637 358		1963
148	77	77		B	CLEAR	#	4	0599	B 356		1963

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
149	77	78	CARDS	SW	1	#	4	0603	, 001		1963
150	77	79		R		#	1	0607	1		1963
151	77	80		BCE	1,1,,	#	8	0608	B 001 001 ,		1963
152	77	81		B	CARDS	#	4	0616	B 603		1963
153	77	82	GETM	RWD	1	#	5	0620	U %U1 R		1963
154	77	83		RTW	1,1	#	8	0625	L %U1 001 R		1964
155	77	84		B	1 EXECUTE MONITOR PROGRAM	#	4	0633	B 001		1964
156	77	85	ADR3	EQU	CLEAR&3	#		0359			
157	77	86	FIELD	DCW	@000000@	#	6	0642			1964
158	77	87	ZEROS	EQU	FIELD-1	#		0641			
159	77	88	ZERO	EQU	ZEROS-4	#		0637			
160	77	89	CTRR	EQU	ZEROS	#		0641			
161	77	90	ACCHI	EQU	279	#		0279			
162	77	91		LTORG	*	#			0643		
				DCW	@699@	#	3	0645		LIT	1964
				DCW	@LIB@	#	3	0648		LIT	1964
163	77	92		ORG	679	#			0679		
164	77	93	ONE	DCW	@1@	#	1	0679			1965
165	77	94	GM	DCW	@}@	#	1	0680		GMARK	1965
166	77	95		XFR	OUT336 GROUP MARK IN 680	#			B |20		1966

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
167	77	96		JOB	1401 FORTRAN GEAUX PHASE TWO	#					
168	77	97		SFX	6	6					
169	77	98	110	DCW	@GEAUX TWO@	6	9	0110			1969
170	77	99		ORG	201	6			0201		
171	78	00	YIPEE	BCE	MONTOR,MONTOR,1	6	8	0201	B 769	769 1	1970
172	78	01	RTP	RTW	1,MONTER	6	8	0209	L %U1	700 R	1970
173	78	02		BER	TPERR	6	5	0217	B 284	L	1970
174	78	03		RWD	1	6	5	0222	U %U1	R	1970
175	78	04	INIT	MCW	SUBSCR,ARSUB	6	7	0227	M 191	S09	1970
176	78	05		CW	1696	6	4	0234	) W96		1970
177	78	06		MCW	GOTOFN,FUNC	6	7	0238	M 188	T30	1971
178	78	07		MCW	PARAM&4, FIXSZ	6	7	0245	M 690	V36	1971
179	78	08		MCW	PARAM&6, FLTSZ	6	7	0252	M 692	837	1971
180	78	09		CC	1	6	2	0259	F 1		1971
181	78	10		BW	HALT,FAILSW	6	8	0261	V 280	184 1	1971
182	78	11		MCW	GOGOGO,X1	6	7	0269	M 183	089	1971
183	78	12		H	0&X1	6	4	0276	. 0|0		1972
184	78	13	HALT	H	*-3	6	4	0280	. 280		1972
185	78	14	TPERR	BSP	1	6	5	0284	U %U1	B	1972
186	78	15		H	3333,3333	6	7	0289	. C33	C33	1972
187	78	16		B	RTP	6	4	0296	B 209		1972
188	78	17		DCW	0	6	1	0300			1972
189	78	18	FUNC	EQU	1330	6		1330			
190	78	19	FIXSZ	EQU	1536	6		1536			
191	78	20	FLTSZ	EQU	837	6		0837			
192	78	21	ARSUB	EQU	1209	6		1209			
193	78	22		LTORG	*	6			0301		
194	78	23		DCW	@}@	6	1	0301			
195	78	24		XFR	YIPEE	6			B 201		
196	78	25	*								
197	78	26	*		PHASE 63 GOES HERE						
198	78	27	*								
199	78	28		END	INIT	6			/ 227	080	

THE DEED IS DONE

SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS
)0J005	1902	)0J013	1180	)0J050	1412	)0J054	1815	)0J065	913	)0J070	910	)0J091	895
)0J093	871	)0J094	967	)0J099	1817	)0J114	1094	)0J131	865	)0J163	961	)0K005	1921
)0K013	1199	)0K028	1207	)0K029	1395	)0K039	1539	)0K043	1608	)0K050	1431	)0K053	1702
)0K054	1834	)0K070	929	)0K073	1518	)0K076	1855	)0K081	1019	)0K093	890	)0K094	986
)0K099	1836	)0K212	968	)0L005	2842	)0L013	1375	)0L028	1719	)0L029	1750	)0L039	1928
)0L043	2004	)0L050	2166	)0L053	2252	)0L054	2256	)0L065	933	)0L070	1052	)0L073	2395
)0L076	2430	)0L081	1122	)0L091	915	)0L093	2050	)0L094	2061	)0L099	2202	)0L114	1114
)0L131	885	)0L163	981	)0L212	1609	)0M005	2840	)0M013	1373	)0M028	1257	)0M029	1429
)0M039	1573	)0M043	1642	)0M050	2164	)0M053	1736	)0M054	2254	)0M070	1050	)0M073	1552
)0M076	1889	)0M081	1053	)0M093	2048	)0M094	2059	)0M099	2200	)0M212	1002	)0P005	1940
)0P013	1218	)0P050	1450	)0P054	1853	)0P070	948	)0P093	909	)0P094	1005	)0P099	1855
A K	2341	A1 G	1126	A2 G	1142	A3 G	1022	ABIT A	1700	ABIT2A	1973	ABOTMX	844
ABSVAL	891	ABSVL<	1872	ACCHI#	279	ACCUM%	1648	ACCUMG	873	ACCUMH	2136	ACCUMI	2762
ACCUMN	1322	ACCUMO	1380	ACCUMP	1357	ACCUMS	2572	ACHCKZ	2268	ACLEAR	707	ACTL	9
ADD I	2048	ADD1 7	2917	ADD1 L	1167	ADD1 Z	1507	ADD3 7	948	ADDINZ	862	ADDR1Z	1527
ADDS R	945	ADDS2R	952	ADDU V	1125	ADJST7	1360	ADJSTH	2084	ADJX3R	1027	ADNL	7
ADONEX	142	ADONEZ	1922	ADR 9	1714	ADR3 #	359	ADRESZ	148	ADRSSJ	2394	ADRSSX	2145
ADTBLL	145	AFORM1	1415	AFORM8	950	AFORMH	2060	AGAINC	1022	AGAINN	1544	AGET2R	445
ALCONI	2335	ALL3 Y	1736	ALL9 9	1616	ALL9 C	1802	ALL9 D	1090	ALL9 Q	1507	ALL919	1619
ALL91Q	1510	ALL92C	1805	ALPH N	1051	ALPHAM	1610	ALTERH	1354	ALTERX	1157	ANYMO.	982
ANYMOG	1309	AOK 3	1170	AOK 4	1020	AOK1 C	1127	AOK2 4	1102	AOK3 4	1317	AOP 7	3088
AREA1Z	880	AREA2Z	2434	ARIT T	1664	ARITH0	1153	ARITH1	1075	ARITH2	1119	ARITHE	1156
ARRAY#	585	ARRAYI	1358	ARSUB6	1209	ARTYP<	1085	ASIDEZ	844	ASSGNS	1060	ATANFN	894
ATSGNA	1689	AUNIQB	1217	AVOID%	1431	B A	2511	BACK2M	1299	BACK39	950	BACK5C	1134
BAD 5	1015	BAD 6	1056	BADSTM	1848	BADSWM	1942	BAKUPK	2232	BASE .	1308	BASE J	840
BASE N	840	BASE O	840	BASE P	840	BASE Y	2793	BC1 /	1221	BC2 /	1267	BCE1 7	1317
BCE3 7	2655	BCE5 Y	992	BCEQ T	2035	BCLEAR	833	BEGIN#	934	BEGIN/	884	BEGIN1	838
BEGIN9	838	BEGINC	1010	BEGINE	838	BEGINJ	857	BEGINX	867	BEGINZ	1175	BGIN T	1510
BGMSG0	2631	BIG 7	1302	BIG N	1436	BIGMS8	1300	BLANK.	1419	BLANK3	1617	BLANK5	1797
BLANK9	1711	BLANKD	1099	BLANKE	1503	BLANKF	1701	BLANKH	2096	BLANKI	2787	BLANKK	2504
BLANKP	1404	BLK10<	2475	BLK20Y	2749	BLK4 7	3045	BLK4 Y	2775	BLK6 Y	2872	BLK8 Y	2866
BLKOP7	901	BLNK 9	1673	BLNK Q	1537	BLNK1<	2595	BLNK2I	2788	BLNK33	1619	BLNK3A	2971
BLNK3C	1825	BLNK3F	1792	BLNK46	1078	BLNK5G	1887	BLNK6I	2792	BLNKS0	2814	BLWUPS	1274
BMOD Y	2776	BMP4 Y	1039	BMP22R	475	BMPUMS	1016	BMPUMY	1135	BMPX17	2032	BMPX1K	1165
BOP 7	3063	BOTH T	1161	BOTM %	1645	BOTM .	1064	BOTM I	1445	BOTM J	2193	BOTM K	2089
BOTM M	958	BOTM N	1367	BOTM O	1611	BOTM2I	1453	BOTM2K	2100	BOTOMZ	1753	BOX 4	1472
BOX <	2502	BOX H	2141	BOX I	2655	BOX J	2301	BOX K	2347	BOX M	1938	BOX O	2107
BOX Q	1525	BOX1 1	1538	BOX2 <	2518	BOX2 I	2664	BOX2 Q	94	BPDWNG	1329	BRANCH	1631
BRELCR	934	BRNCH.	1350	BSAUCE	148	BSFLTY	2425	BSP E	1434	BSTARG	1446	BSUB Y	2578
BTESTD	857	BTM R	1638	BTMCGN	1428	BTMNLN	1313	BUMP D	926	BUMP H	1209	BUMP J	1186
BUMP K	2547	BUMP N	1036	BUMP O	1479	BUMP X	1590	BUMP1K	1055	BUMPRK	1912	BX2B2T	1398
BYP E	882	BYP F	1533	BYP4 Z	1234	CANU 7	1496	CARDS#	603	CASE2Z	1818	CCLEAR	830
CDDMP/	997	CDFUL1	1215	CDINT<	2001	CDNO 1	175	CDSYS6	963	CERR C	1688	CGBTML	1282
CGOTOE	1311	CGOTON	1367	CHAINJ	1201	CHAINL	1001	CHAINN	1533	CHAINO	1494	CHAMPG	857
CHAR A	2388	CHEAP4	1412	CHGX3R	1051	CHKN T	1977	CHKNDT	1044	CHNG U	994	CHNGEZ	1680
CHUMP6	1653	CINCHG	1672	CK A	742	CK4B 2	1131	CKBITT	872	CKBOPQ	1061	CKCMTB	914
CKCOM4	997	CKCOMX	1248	CKDL27	924	CKDONE	1045	CKEX R	1036	CKEXTL	975	CKFIX7	1807
CKFIXJ	1940	CKFIXY	1340	CKFMTD	904	CKFMTT	1315	CKFUN<	1641	CKFUNB	1349	CKFX Q	1023
CKGM 5	969	CKGM <	1268	CKGM F	1307	CKIF K	2183	CKLFPX	1240	CKLHCA	1973	CKLSTX	1798
CKND 7	1527	CKNG <	1598	CKNG X	1092	CKNODF	1545	CKNUMU	1008	CKOP 0	1539	CKPRNG	1146
CKREFJ	857	CKRT 7	1070	CKSIMG	1274	CKSWFY	1316	CKSWXY	1328	CKSYN%	1145	CKTALK	1498
CKTYPX	1822	CKUSR0	2003	CKUSRR	508	CKWMKX	1260	CKX3 R	1039	CKXF Y	936	CKXP <	1431
CKXPNI	2299	CKZN R	543	CKZRO7	1919	CKZROT	1827	CLEAR#	356	CLEARB	1309	CLEARD	965
CLEERC	1422	CLEERQ	1233	CLOSE<	1339	CLR 9	923	CLR A	1103	CLR T	992	CLR1 0	878
CLR1 N	958	CLR1 O	860	CLR1 P	878	CLR2 0	929	CLR2 N	1011	CLR2 O	978	CLR2 P	1009
CLRFCT	2599	CLRI T	1733	CLSCK<	1392	CLZOK<	1378	CMBCKZ	965	CMNT A	2358	CMP2 7	2863
CMP3 7	1019	CMP4 Z	1248	CMP5 Y	1046	CMPAB#	520	CMPAB7	520	CMPAB8	1113	CMPADS	1089

CMPARA	1409	CMPARD	985	CMPSWG	1177	CNLFTK	1720	CNLS50	2066	CNLST5	1613	CNT C	1599
CNTNUZ	1270	CNTR 0	2828	CNTRL0	1381	CNTRLK	2381	CNTU C	1157	CNTU E	1346	CNTU2Z	1646
CNVRTZ	896	CODE &	925	CODE *	962	CODE 0	2761	CODE 3	1602	CODE 4	1445	CODE 5	1188
CODE 9	1649	CODE <	2447	CODE B	2449	CODE I	2646	CODE J	2286	CODE K	2353	CODE L	1286
CODE N	1062	CODE 0	2096	CODE T	879	CODE U	1230	CODE W	1198	CODE X	841	CODE Y	2686
COMFN1	906	COMFN<	1856	COMMA1	1089	COMMAM	1257	COMMAX	1088	COMP F	1084	COMP G	1006
COMP N	1235	COMP 0	1292	COMP P	1267	COMP X	1019	COMPAT	838	COMPLT	1115	COMRTT	1129
COMUT7	1214	CON401	1521	CONLST	194	CONSTB	2465	CONSTI	1851	CONSTU	1204	CONSTZ	1201
COOL M	1750	COPY I	1840	COPY J	1031	COPY 0	1343	COSIN<	1864	COUNT%	1694	COUNT.	1408
COUNTA	2503	COUNTH	2049	COUNTI	2708	COUNTK	2423	COUNTL	1292	COUNTN	1677	COUNTX	2058
COUNTZ	841	CPAR 1	971	CPAR W	1021	CPL #	568	CPL 7	568	CPL 8	1188	CR K	1459
CS1 /	1140	CS1801	1467	CS1A /	1319	CS2 /	1210	CS2A /	1390	CS2X /	1169	CS2XA/	1348
CTNMVZ	1615	CTOALZ	1448	CTR #	669	CTR 7	669	CTR 8	1419	CTRR #	641	CTU *	884
CTU 3	1194	CTU1 R	608	CTU1 U	944	CTU1 Y	2321	CTU3 G	1816	CTU3 H	1062	CTU4 G	1661
CTUCDA	2824	CTUL F	1465	CURDL7	2972	CVT3 7	3091	CVTDL7	2758	CVTXT7	2833	CW 7	2720
CW X	1790	CW1 Y	1101	CW2 7	2928	CW5 7	2614	CWPRT7	908	CWX1 Z	1359	CX1 R	482
CX1CNZ	1522	CX2 7	2001	CZONEZ	1014	D2 7	997	DATA E	1478	DBLOP<	2161	DBLSWT	1439
DECR 7	1927	DELT17	974	DELT27	1166	DELTAI	1682	DIFF Z	859	DIFNT%	1090	DIMENF	979
DIMSWF	1700	DIV <	1446	DIV Y	1463	DIV2 <	1470	DIVCK<	1484	DL2 7	3032	DLOOPV	978
DLVALS	2557	DMSN E	1443	DO B	1521	DO E	1338	DO M	1276	DOADR1	924	DOADR2	921
DOADR3	918	DOBC1/	1074	DOCOD7	2217	DOCOD<	943	DOEND%	1899	DOINIT	915	DOIT 3	896
DOIT 4	893	DOIT 5	884	DOLLRX	1737	DOLR V	915	DOLR1J	1995	DOLR2J	2013	DOLST9	1116
DONE C	1366	DONE E	1057	DONE G	1683	DONE J	1747	DOSBSC	909	DOSPC9	1532	DOWM R	623
DRESSG	852	DRESSI	2636	DROP4W	1098	DSA R	1560	DSW F	1710	DUM3 A	2560	DUM5 A	2565
DUMMYA	1166	DUMMYB	979	DUN %	1526	DUN .	1313	DUN 0	2519	DUN J	2147	DUN L	1052
DUN S	1221	DUN X	1168	DUN Z	1437	DUN2 Q	1471	DUN2 X	1137	EASY B	1422	EINPTT	1870
ELSE Y	2485	EMASQX	1963	ENCODE	1173	END B	1337	END C	2900	END R	1056	END Z	2499
END1 1	1348	END2 1	1426	END2 T	1021	ENDCDCE	1182	ENDPHZ	1260	ENDSS2	944	ENDSWA	2828
ENDXL2	1265	EOF E	1419	EOFX Q	1475	EOJ 0	2458	EOJ C	1647	EOJ D	949	EOJ H	2008
EOJ Q	1295	EOPHSD	1065	EOSTM<	1310	EOSTMT	1612	EOSTR7	2158	EOSTRY	1421	EOTWOC	2000
EQBX1G	1465	EQSCN<	1107	EQUALI	2254	EQUIVE	1454	EQUIVG	1165	ERCTRG	1994	ERR #	557
ERR 9	1487	ERR G	1505	ERR M	1877	ERR1 %	1397	ERR1 .	1165	ERR1 0	2413	ERR2 %	1442
ERR2 0	2375	ERR3 0	2337	ERR4 0	2299	ERR460	1852	ERR5 0	2261	ERR6 0	2223	ERRMSZ	1092
ERROR%	1480	ERROR.	1223	ERRORE	1092	ERRORT	206	ERRORX	1922	ERRSWG	2144	ERRSWI	2504
ERRTPA	797	ERRWTT	1269	ERSIGT	1258	ERVBLI	2600	EXCHNN	1641	EXCMAX	1100	EXDRPW	1120
EXGTL0	1343	EXGTP0	1599	EXIT %	1621	EXIT 2	1295	EXIT A	1096	EXIT C	1486	EXIT I	2134
EXIT N	1265	EXIT 0	1322	EXIT P	1297	EXIT Q	1182	EXIT V	1218	EXIT Z	1553	EXIT1#	1000
EXIT1M	1798	EXIT2M	1606	EXIT3R	983	EXITAQ	1157	EXMVD0	1287	EXMVPN	933	EXPH3X	969
EXPMIX	1693	EXPN Y	1808	EXPNDZ	969	EXRDMN	1044	EXRUA.	1219	EXRUAX	1893	EXRUKX	1901
EXSLDN	960	EXSLDW	1094	EXSLDX	965	EXSNDW	1188	FAIL F	1646	FAILSW	184	FBAD T	2287
FBOX T	1460	FEED I	1693	FEND22	1306	FEND32	1405	FENDX/	956	FENDX2	1185	FENDX7	2937
FENDX<	920	FENDXS	1251	FENDXY	1478	FEWSWI	2598	FIELD#	642	FIGHTG	1269	FIN1SZ	1641
FIND G	980	FIND I	937	FIND M	1137	FIND O	1259	FIND W	889	FIND1J	1723	FIND2J	947
FIND2M	1200	FINI T	1216	FINIST	2054	FINISZ	2396	FIRST7	1663	FIRSTB	2429	FIRSTG	86
FIX 7	2573	FIX1 H	1332	FIXED.	1193	FIXEDA	2831	FIXEDB	2430	FIXEDG	1216	FIXEDH	1365
FIXEDJ	2031	FIXEDK	1931	FIXEDO	1693	FIXFUN	885	FIXITZ	1956	FIXSZ6	1536	FIXT 7	2724
FIXWDQ	930	FIXWDR	930	FIXXPY	2077	FLIP 1	1531	FLIP 4	983	FLIP J	1003	FLIP K	1863
FLIP T	1345	FLOATK	1506	FLT Y	2032	FLTFUN	882	FLTSWG	1828	FLTSZ6	837	FLTWDQ	933
FLTWDR	933	FMAT I	2470	FMTNOT	2429	FNCTRJ	2300	FND V	939	FNDLZI	1571	FNISH0	1761
FNISHW	1124	FNLIZX	1697	FOKAYT	2246	FORCE0	1659	FORK N	1409	FORMAT	2527	FOUNDG	1181
FOUNDJ	997	FOUND0	1309	FOUNDW	939	FQUITP	1197	FRMATE	1353	FROMXZ	856	FRONTB	2440
FSCAN<	1775	FST1 7	1695	FSTMDY	2719	FSTNUA	1260	FSUB Y	2623	FTBL1<	2442	FTMSGY	1998
FULL J	2211	FULL N	1066	FULL O	1712	FUN 0	1981	FUNBX<	2485	FUNC 6	1330	FUNCSW	195
FUNSTJ	1649	FUNY 0	2117	FXFLTQ	1398	FXMOD0	2175	FXPRMD	1016	FXSW G	1827	FXT Q	1482
GARY 1	1474	GARY Q	1513	GARY V	1257	GARY Z	1520	GDLXT7	2870	GENERM	1761	GET F	1066
GET G	988	GET I	2071	GET R	1149	GET2 G	1086	GET2 R	441	GETDL7	2837	GETLF0	1291
GETM #	620	GETSTT	880	GETUMS	935	GETWM7	2890	GETXT2	1098	GETXTR	1184	GM #	680
GM 0	2573	GM A	2529	GM C	1806	GM D	1091	GM F	1691	GM G	839	GM H	2085
GM I	2555	GM J	2493	GM K	2349	GM M	1930	GM N	1725	GM X	1011	GM1 %	1598
GM1 .	1295	GM1 7	2240	GM1 9	1627	GM1 <	2160	GM1 T	1503	GM2 %	1626	GM2 .	1309
GM2 C	1219	GM2 0	1333	GM3 %	1631	GM4 %	1622	GM50AZ	1690	GM50CZ	1628	GM53S#	1696

GMK1 R	680	GMWM R	1696	GMWM Z	2460	GNSTMZ	151	GNTBLZ	1346	GNTMP0	1573	GO X	852
GOBAK%	1630	GOBAKJ	1298	GOBAKS	1199	GOGOGO	183	GOTEQ<	1131	GOTEQY	1232	GOTFN<	1883
GOTO E	1306	GOTOFN	188	GOTOP<	1191	GOTSBY	2542	GOTSQY	1009	GOTTA/	896	GOTUM0	1562
GOTUMS	959	GOTWM7	2906	GRAB10	1180	GRAB1M	1473	GRIEFY	1154	GSTXTT	924	GT1 G	1386
GTADR9	1473	GTNUM0	1516	GTSUBY	2608	GUTS K	1067	HALT 6	280	HEAD #	651	HEAD 7	651
HEAD 8	1309	HEADRN	1507	HERE 9	1569	HERE T	1787	HERE Z	1088	HEX1 7	2965	HEX1 <	2543
HEX1 G	1999	HEX1 I	2711	HEX1 K	2439	HEX1 L	1279	HEX1 M	1941	HEX1 N	1054	HEX1 O	2091
HEX1 S	2549	HEX1 W	1194	HEX1 X	2056	HEX1 Z	2444	HEX1XX	947	HEX2 0	2758	HEX2 7	3024
HEX2 <	2537	HEX2 F	1709	HEX2 G	1927	HEX2 J	2327	HEX2 O	2132	HEX2 S	2543	HEX2 X	2053
HEX2XN	1360	HEX3 %	1637	HEX3 7	3040	HEX3 <	2540	HEX3 G	876	HEX3 K	2366	HEX3 L	1276
HEX3 M	2031	HEX3 N	1684	HEX3 R	1635	HEX3 T	875	HEX3 X	2085	HEX3 Y	2693	HEX31Y	2771
HIFMT1	1503	HLD18Y	2718	HLD2 5	1200	HLD20Y	2484	HLD31#	416	HLD317	416	HLD32#	409
HLD327	409	HLD357	3008	HLD5AC	1363	HLD5T	2966	HLDXT#	402	HLDXT7	402	HLDZNR	1582
HLERRT	1409	HLFT 7	1054	HNOT T	1306	HOLD 5	1198	HOLD C	1922	HOLD F	1703	HOLD Z	891
HOLD1E	1499	HOLD1H	2154	HOLD2Z	2132	HOLD3E	1502	HOLD3G	2003	HOLD3X	2077	HOLD4E	1498
HOLD5C	1357	HOLD5D	1096	HOLD5I	2811	HOLD5J	2382	HOLD5X	2068	HOLD6C	2005	HOLD8J	2390
HOLDXE	1514	HOLLRA	1751	HOPE 7	1476	HOPE27	1555	HSW A	1394	HSW2 A	1402	HUH Y	2218
HUH2 Y	2236	HXCMNR	1573	HYTEST	2575	I %	1618	I .	1302	ID .	1362	IEXITT	1808
IF 0	1221	IF E	1313	IFEXPM	1362	IFMNSY	2512	IFPLSY	2496	IFSL E	1467	IFSSWE	1327
IFTYPY	1522	IFZROY	2504	IMVUPZ	1052	INC #	632	INC 7	632	INC 8	1242	INCTOA	1375
INDIR<	982	INILZ1	2506	INILZ2	2509	INISHG	1724	INISHS	838	INIT 6	227	INIT Q	934
INIT V	838	INIT Z	1186	INITAP	780	INITL%	838	INITL.	838	INITL0	838	INITLF	839
INITLG	1034	INITLH	891	INITLI	838	INITLK	838	INITLL	838	INITLM	838	INITLW	838
INITXT	793	INNERX	1421	INOUTM	1130	INPUTA	2373	INPUTJ	1763	INTNOZ	865	INTSTZ	183
IOBGNT	2153	IOCW U	1226	IOWS T	1438	IOTYP9	1012	IOTYPT	1402	IOWK T	2309	ISB R	1288
ISCTU&	884	ISCEUG	1158	ISFMTD	938	ISFWSJ	2310	ISFUN<	1683	ISGM J	945	ISIN G	1673
ISREDG	1584	ISTRIA	1851	ISTWO7	2683	ISXP <	1513	JUMP A	1425	K5TOK3	929	KARITT	2411
KEEP2J	1079	KEEPX<	1989	KEOJ T	2415	KERR I	2561	KFSM A	2423	KH T	2388	KILL 0	2447
KILL 4	1001	KILL <	2450	KILL K	2369	KILL M	981	KLEAR%	1548	KLEFTT	2399	KLINET	2407
KLOBR%	1259	KLOBR.	1072	KLOBR0	1179	KLOBR3	1252	KLOBR4	1197	KLOBR5	1120	KLOBR9	1349
KLOBRG	1393	KLOBRI	1468	KLOBRK	2111	KLOBRR	1089	KLOBRT	838	KLOBRU	1117	KP T	2419
KPROCA	2548	KRITET	2403	KVSTMI	2582	KWM 7	1379	KWM2 7	2139	KWMXT7	1387	KX T	2395
L2PRMA	1089	LABELM	1003	LARRYA	2557	LAST /	194	LAST 0	2752	LAST 1	194	LAST <	2482
LAST G	1447	LAST R	1592	LAST Z	850	LD52CR	938	LDCOMI	1783	LDFLTO	1165	LDFMT2	1535
LDOLRI	1970	LDRNDA	3000	LDSYMZ	1772	LDWM Z	1386	LDWRDZ	1526	LDZERK	1530	LEADRH	1343
LEFT 7	3063	LENNYB	1059	LFPART	1498	LFPARX	1467	LFTRTK	1962	LGM 9	1323	LGSW H	2095
LGSW J	2248	LGSW S	2507	LIGHT4	1254	LIGHTB	1458	LIMIOH	2068	LIMITI	1171	LIMITJ	1038
LIMITO	1350	LIMITQ	1516	LINCT#	658	LINCT7	658	LINCT8	1321	LINK G	1477	LINK H	2139
LIO 1	1404	LIO 8	925	LIST 9	1641	LIST C	1799	LIST I	2168	LIST X	935	LIST Z	1334
LITCS/	1045	LK4CMT	1839	LOAD M	1174	LOAD R	572	LOAD Y	1910	LOAD Z	1434	LOAD1I	2280
LOAD27	1131	LOAD2I	2265	LOADGM	1622	LOC N	1273	LOC O	1330	LOC P	1305	LOD A	754
LOD E	991	LOD2 I	1767	LODX O	1188	LOGFUN	900	LOGSWR	1564	LOOK I	1216	LOOP #	497
LOOP %	1004	LOOP .	905	LOOP 0	1303	LOOP 7	497	LOOP 8	1090	LOOP G	929	LOOP I	1255
LOOP M	1496	LOOP N	1473	LOOP Q	1444	LOOP X	1752	LOOP Z	2009	LOOP1<	1135	LOOP1C	1329
LOOP1D	849	LOOP2<	1154	LOOP2R	412	LOOP3<	1143	LOOP3H	1010	LOOPAH	1647	LOOPYX	1389
LOPP Z	2036	LOWERG	1416	LOWK 3	1500	LOZNG1	1175	LOZSCF	1441	LSADDY	1703	LSTIOT	1457
LWPB 1	1171	M A	2537	M1 %	1609	M2 %	1612	M2PRTA	1233	M3 %	1615	M3IS1%	1386
M3IS1X	1619	MACFLS	163	MAD Z	1319	MAIN <	998	MAIN G	1359	MAIN X	1020	MANXBZ	1420
MARK A	2534	MARK K	1486	MARTYB	1318	MASK %	1634	MASK .	1312	MASK 2	1463	MASK14	1441
MASK15	1184	MASK19	1626	MASK24	1449	MASK34	1457	MASK44	1461	MATRX0	2643	MATRXS	1318
MAX .	1366	MAX J	844	MAX N	844	MAX O	844	MAX P	844	MAXDL7	3021	MAYBE7	1391
MAYBEK	1091	MAYFNB	1369	MCFL50	2087	MCM2 I	1263	MCW 1	1272	MCW18/	859	MCWX2R	1317
MDIFY%	1120	MDIFYI	960	MESBX<	2642	MESCM<	2072	MESSG/	935	MESSG2	1506	MESUR7	1410
MESUR<	2053	MESXT<	2079	MIDSW7	3018	MINUSY	2508	MIXUPJ	1103	MKFIXY	1364	MKFLTY	1294
MKFMTT	1391	MKND T	1835	MKPLSY	1642	MKTSTM	1559	MLPLYZ	1295	MN F	1695	MNTERB	1495
MOD J	2314	MOD N	1058	MOD O	2120	MODCHY	1085	MODSWY	2690	MONTER	700	MONTOR	769
MOR T	1062	MOV <	1926	MOVE 1	957	MOVE A	1174	MOVE C	1293	MOVE H	2033	MPLR H	1133
MRKRSI	2501	MSERRA	1077	MSG G	1951	MSG1 3	1315	MSG2 3	1333	MTPX1R	1508	MULT Z	2221
MULTYF	1356	MULTYN	1446	MUVE C	1453	MV2GMT	2260	MV2N T	1904	MV2XTT	1994	MVAD R	468
MVADRT	2352	MVAGNZ	2056	MVBALY	1857	MVD Z	1406	MVDIGT	1924	MVDWN0	1257	MVDWNT	2081
MVDWNY	894	MVDWNZ	2093	MVHED#	459	MVHED7	459	MVHED8	1052	MVIPTA	1211	MVLS Y	1662

MVMSKU	1221	MVNIN2	1078	MVNINR	1164	MVNSS2	924	MVNXL2	1245	MVRPTT	1672	MVSW U	1245
MVUP 0	953	MVUP N	853	MVUP2T	1086	MXTMPS	2578	MYB2 A	1817	N A	2528	NAME F	1019
NAME G	969	NBRSW2	1586	NCTR T	2438	NDFNDB	1385	NDOLRV	1011	NDOLRX	1768	NDRITH	3153
NDRPLT	2231	NDTABL	140	NEG 0	1948	NEG2 7	1644	NEG3 7	1269	NEGAT7	1239	NEGAT<	1626
NEGTFN	888	NEST G	1209	NEW A	1546	NEW J	1302	NEW N	1606	NEW O	1626	NEW X	989
NEWCDG	1435	NEXT 0	2766	NEXT <	2465	NEXT F	1344	NEXT N	1065	NEXT Y	974	NEXT Z	1183
NEXT11	1379	NEXT1X	963	NINE A	773	NISH 0	1528	NIX H	1598	NMBR B	2425	NOAD 3	1069
NOAPX%	1216	NOARIY	1499	NOBR Y	1748	NOCOLH	1147	NOCVTY	1382	NODICR	1335	NODUNH	1972
NOFMT9	1439	NOFUN<	1818	NOGUD8	1158	NOINTU	1106	NOIO 8	900	NOIO H	2076	NOLSTX	918
NOMO .	1053	NOMO 0	2745	NOMO <	2453	NOMO G	1247	NOMO I	2243	NOMO N	852	NOMO O	688
NOMO P	1342	NOMO S	2546	NOMO1I	2235	NONUMN	1569	NONUMU	1159	NOP C	1150	NOP3 R	1070
NOP4 R	433	NOPADK	2345	NOPR J	983	NOPRMA	2324	NOPSWR	536	NOPTM7	1887	NOPUN2	1166
NORAYH	1984	NORM M	1637	NORMLI	2029	NORMLK	1379	NORMLN	1274	NORT 7	1101	NOSUBT	1772
NOSWTT	2373	NOTHRN	1243	NOTING	1800	NOTINI	1381	NOTYTN	1294	NOWOPY	1254	NOXTR4	1239
NOZO M	1393	NUERR3	1131	NUFRMZ	1882	NULIN#	433	NULIN8	1025	NULINE	433	NUM 0	2820
NUM N	1316	NUM O	1374	NUM P	1351	NUMBER	2533	NUPOSZ	2294	NUSTM7	871	NUSTM<	883
NUSTMC	1022	NUSTME	852	NUSTMY	866	NUTYP3	842	NUTYPC	1063	NXBTM0	2755	NXBTM5	1608
NXBTMJ	83	NXBTMK	83	NXBTMM	83	NXBTMN	83	NXBTMO	83	NXBTMP	83	NXBTMQ	83
NXBTMR	83	NXBTMT	83	NXBTMX	83	NXBTMZ	83	NXGUYS	1210	NXGUYX	1977	NXTOPH	2052
NXTOPJ	86	NXTOPQ	86	NXTOPS	86	OBLIST	912	ODDBLK	1822	ODDSWK	2544	OFF 4	1433
OK %	1339	OK .	1122	OK 5	1068	OK F	1112	OKAY 0	2099	OKAY23	1042	OLDCDG	1385
ON 4	1436	ONCE 2	1155	ONE #	679	ONE A	2510	ONE B	2426	ONEADR	142	ONLY #	621
ONLY 7	621	OOPS1G	1828	OOPS2G	1972	OP 7	3064	OPMD Y	2700	OPNCK<	1663	OPS 0	2642
OPTM 7	1823	ORGVBI	2814	OTHER9	1421	OTHR29	1428	OUT #	478	OUT %	1533	OUT &	861
OUT *	861	OUT .	1320	OUT 0	2547	OUT 3	873	OUT 4	870	OUT 5	861	OUT 6	896
OUT A	2520	OUT F	1588	OUT G	1735	OUT H	1390	OUT I	2138	OUT J	2057	OUT K	2153
OUT L	1237	OUT M	1899	OUT N	1100	OUT O	1776	OUT R	1359	OUT U	870	OUT W	1139
OUT X	1988	OUT1 G	1685	OUT1 N	1484	OUT2 6	1001	OUT2 9	886	OUT2 R	1441	OUT3 9	981
OUT336	1020	OUTERX	1440	OUTERZ	1484	OUTPT7	1733	OVER M	1118	OVFLWJ	1973	OVFLWN	1645
OVFLWO	1671	PACK C	1295	PACK H	985	PACK J	1385	PACK2J	1425	PAKSWC	1807	PARAMA	686
PARAMH	686	PARENO	1618	PARERT	1569	PAROKT	1584	PARSWT	2431	PART2Z	1850	PASS 0	1244
PASS J	2163	PASS K	2195	PASS O	1746	PASS W	1131	PASS X	1007	PAUSE3	1233	PAUSEE	1332
PCHCD/	838	PCHCD2	838	PCHTS2	984	PERIOD	154	PGCTR#	664	PGCTR7	664	PGCTR8	1467
PGET T	1424	PGNO A	2931	PHEW I	1954	PHEW K	1652	PHEW1K	1659	PHILF0	2815	PHIRT0	2816
PHSE1X	845	PHSE2N	937	PHSE2O	849	PHSE2P	849	PHSE2T	980	PHSE2X	845	PHSE3J	857
PHSE3N	1187	PHSE3O	849	PHSE3X	845	PHSE4N	1187	PICK C	1104	PKXT A	1969	PLACEM	1937
PLUS <	1544	PLUS Y	2492	PLUS11	1337	PLUS1L	1226	PLUSDF	160	PMOV 7	2039	PMOV M	1856
PMOV1C	1213	PMOV2C	1258	PMOV3E	1126	PNOT T	1479	POSTVQ	1486	PRDX B	938	PRED F	1694
PRED G	1826	PREP1Z	2439	PRESZK	2444	PRINT.	1257	PRINT8	971	PRINTE	1380	PRINTL	1094
PRMCDA	681	PRMSGA	1190	PRNTNT	250	PRNUMN	1562	PROBFB	1397	PROD H	2091	PRODL7	1963
PRTHDA	2267	PRTSW7	2936	PRTXT#	564	PRTXT7	564	PSKIPV	1182	PSUDON	1581	PULL1G	1409
PUNCHE	1375	PURE R	1131	PUT1 B	1620	PUT2 B	1631	PUT3 B	1642	PUT4 B	1653	PUT5 B	1664
PUT6 B	1675	PUT7 B	1686	PUTB I	2224	PUTC I	2438	PUTE M	1090	PUTMIX	1652	PUTN T	2010
PUTS X	1280	PXT /	855	PZ Y	1779	QUIT A	2233	QVERRG	1867	QVXT G	1905	RANDMJ	1075
RANDMN	964	RANDMO	1388	RDCNT2	1585	RDCNTA	837	RDCNTR	1631	RDITPE	1370	RDMSGG	1909
RDTAP2	1085	RDTAPE	1403	RDTAPR	1171	RDTPS2	931	RDTPX2	1252	RDXRER	1469	RDXT G	1947
READ 2	1074	READ E	1357	READ R	1160	READ2R	1011	REDUNG	1859	REFSWT	2530	REG %	1240
RELOCH	2081	RELOCR	1217	RELOKT	1697	RELXTR	1331	REMCKZ	1064	REMOVE	1484	REMV B	996
REPLCE	1314	REPLCV	1150	REPLST	2171	RESET0	2508	RESET1	893	RESETF	1191	RESETX	1068
RESETZ	1590	REST 1	865	RESTOI	1347	RESTRJ	1264	RESTRO	1545	RESTRX	1456	RETRN#	938
RETRN2	1070	RETRN4	1178	RETRN9	1176	RETRNT	995	RIGHT7	3088	RIGHTK	2442	RIGHTV	1114
RMVCMX	1817	RON Q	1387	ROOM Z	1361	ROUNDZ	1409	ROWS I	2767	RPLCED	881	RSTRX#	535
RSTRX7	535	RSTRX8	1128	RSX2 O	1161	RSX3 Z	1487	RTLFTK	1549	RTLFTN	1380	RTN 3	1118
RTN 5	1101	RTN2 J	1494	RTNA I	1093	RTNB I	1950	RTNLDD	2348	RTP 6	209	RTPARI	2212
RTPARJ	1795	RTPARM	1369	RTPART	1541	RTPARX	1272	RTPXL6	930	RTR Z	1463	RTREVE	976
RU68 V	890	RUADR.	1114	RUADRX	1842	RUBADL	1178	RUCGTN	1229	RUCOM0	1228	RUCONK	1216
RUDIF%	1071	RUDUNX	922	RUDUPX	978	RUFIX.	1181	RUFIX0	2207	RUFN I	1487	RUINT0	1836
RUIO T	1352	RUOK %	1365	RUOK X	1897	RWD E	1425	S K	2342	SAUCEK	2700	SAUCEN	3200
SAUCEO	2600	SAUCEP	2700	SAUCEZ	856	SAV1 A	2838	SAV2 Y	2842	SAVE Z	1225	SAVE1G	1968
SAVE1N	1143	SAVE1X	2080	SAVE1Z	2405	SAVE2J	856	SAVE33	1616	SAVE3C	2003	SAVE5G	2143
SAVX20	2057	SAVX37	2962	SAVX3Y	2689	SBR 1	1082	SBR Q	1494	SBR V	1139	SBR4 X	1212

SBR6 C	1161	SBRAYI	1743	SBSCR0	1347	SBSCRI	1583	SBVRT0	1890	SCAN J	873	SCAN K	986
SCAN Y	1382	SCAN2G	1609	SCAN2Y	1389	SCANRA	2070	SCFB B	1199	SCNBXT	2435	SCNDLV	873
SCNEQY	1216	SEEK J	981	SEEK O	1293	SEEK W	923	SEL A	1310	SEL B	1134	SEND %	1197
SEND 0	1912	SEND J	1272	SEND W	1169	SENLTE	1477	SENSEB	1260	SENSEM	1193	SERCH#	437
SET K	1266	SET1 T	1533	SET3 M	1671	SETN T	1122	SETP 9	1606	SETSWV	974	SETUP3	1084
SETUPK	1002	SETUPX	1634	SETWMM	1540	SETWMR	664	SETX1Z	1396	SETX2T	2272	SHIFTE	1026
SINFUN	903	SIX0 M	1999	SIXTNZ	1663	SKGBGV	1023	SKIP 0	1603	SKIP 1	1283	SKIP L	956
SKIP V	1194	SKIP Y	1880	SKIP21	1291	SKIPFH	1605	SKLOZI	1547	SKPSS2	920	SKPSW1	1522
SKPXC6	975	SKPXL2	1241	SKPXL6	988	SLASHA	1535	SLASHT	1636	SLIDEI	1415	SLIDEN	937
SLIDEU	1064	SLIDEW	1064	SLIDEX	942	SLIP X	893	SMALL.	901	SNDM2X	1523	SNDPTX	1001
SNDUMY	1128	SNGL 9	943	SNGL Q	1253	SNSE B	2457	SPACEG	878	SPACEX	2140	SPACEZ	1246
SPCL Q	1284	SPEC 9	1644	SPLITI	1656	SQRTFN	879	SQUEZZ	1963	SQUOZ<	1572	SQUOZO	1704
SQUOZW	959	START#	337	START%	859	START&	838	START*	838	START.	845	START0	1060
START1	337	START2	884	START3	838	START4	838	START5	838	START6	838	START7	838
START8	838	START9	842	START<	838	STARTA	838	STARTB	838	STARTC	1022	STARTD	838
STARTF	914	STARTG	1115	STARTH	931	STARTI	856	STARTJ	879	STARTK	877	STARTL	898
STARTM	864	STARTN	1205	STARTO	1210	STARTR	934	STARTS	916	STARTU	838	STARTW	854
STARTX	888	STARTY	838	START[	838	STATEN	2026	STLOCE	83	STMNOA	2822	STMNOE	1494
STO 0	913	STODDK	2264	STOP E	1336	STORE1	1237	STORE2	1271	STOREA	1364	STOREZ	853
STOTPR	1423	STREGZ	1918	STRIPM	1717	STRIPO	1414	STRX1Z	1635	SUB C	1096	SUB1 7	2728
SUB1 Y	2657	SUB2 K	1198	SUB3 7	2147	SUB5 Y	1190	SUBSC<	2199	SUBSCK	1176	SUBSCR	191
SUBSWI	2503	SUBSWK	2038	SUBTRI	2033	SUBTRJ	1131	SUBTRN	989	SUBTRO	1424	SUBXT7	2754
SV1 X	2063	SVORGG	1181	SVZN M	2028	SVZN X	2060	SW 1	1060	SW1 A	1332	SW1 I	1119
SW1 R	583	SW1 T	2430	SW2X2R	1266	SWAP 7	1575	SWCH N	1583	SWCHAI	956	SWCHAJ	1099
SWCHAK	2272	SWCHBI	1332	SWCHBJ	1731	SWCHCJ	1256	SWCHDJ	2076	SWCHEJ	943	SWCHFJ	1806
SWCHGJ	1739	SWCHSK	2243	SWCHXK	1390	SWCHZK	1404	SWEAT5	955	SWEATY	2254	SWIX2J	1594
SWLWP1	1156	SWM Y	2363	SWOFFX	1608	SWTCH%	1212	SWTCH2	1416	SWTCHQ	998	SWTCHX	1543
SYMB U	1032	SYMBLZ	1694	SYN2RI	1938	SYN2SI	2502	SYNER<	2122	SYNERF	1484	SYNERG	883
SYNERM	1802	SYNTAX	1784	SYS1 &	931	SYS1 *	975	SYS1 /	1417	SYS1 3	1661	SYS1 4	1614
SYS1 9	1758	SYS1 D	1112	SYS1 E	1567	SYS1 F	1845	SYS1 G	1979	SYS1 K	2601	SYS1 U	1324
SYS1 V	1279	SYS1 W	1256	SYS1 X	1265	SYS1 Z	1594	SYS2 1	1573	SYS2 6	1144	SYS2 G	2145
SYS2 H	2273	SYS2 O	1397	SYS2 P	1405	SYS2 Q	1549	SYS2 T	2599	SYS2 X	2197	SYS2 Z	1676
SYS3 N	1689	SYS3 X	1018	SYS4 J	2499	SYS4 N	1726	SYS5 L	1361	SYS6 S	2622	SYSC22	1612
SYSCG.	1469	SYSG 8	1470	SYSGM0	3091	SYSGM7	3103	SYSGM<	2768	SYSGMA	2999	SYSGMY	2873
SYSGMZ	2461	SYSGM[	1068	SYSL 5	1292	SYSMKC	1427	T1 #	498	T2 #	540	TABELZ	2499
TABLE7	2241	TABLEC	838	TABLEE	1197	TABLEK	2311	TABLEM	1992	TABLES	2341	TABLEZ	897
TAIL 0	2747	TAIL K	1837	TAKE M	1591	TALLYG	865	TAMAXT	2600	TAMR1T	1599	TAMROF	980
TAPE 9	1710	TBAD2R	1563	TBEGIN	1810	TBKFF1	1013	TBL1 Z	847	TBL2 Z	883	TBLADR	927
TBLR 7	2572	TBOOT#	553	TCLEAR	710	TEMP 0	2572	TEMP O	2136	TEMP2O	2139	TEN A	2536
TERM 1	1204	TEST %	1301	TEST .	1148	TEST H	1313	TEST J	1671	TEST K	1435	TEST M	932
TEST1B	1089	TEST1K	1016	TEST1Z	884	TEST2B	1102	TEST2K	1031	TEST2Q	1095	TEST2V	1076
TEST2Z	2435	TEST3Z	2436	TEST5M	1590	TEST5Q	991	TEST5V	1041	TESTAZ	1570	TESTBZ	1590
TESTCZ	1610	TESTET	1998	THREEZ	838	THRU L	1045	TLGM 9	1282	TLU I	1240	TMPSZS	2552
TMS3 Z	1207	TNMBRB	1598	TOP %	1642	TOP M	914	TOP Q	1519	TOP R	1641	TOP2 Q	1522
TOTALA	2807	TOTALK	2428	TOVL A	1228	TPERM#	581	TPERR2	1102	TPERR6	284	TPERRR	1188
TPERX6	947	TPNAMM	1161	TRACKK	200	TRAP .	1359	TRAWMZ	1722	TRY2 M	1702	TRYITK	972
TSDUNH	1660	TST1 <	1172	TST1 G	1195	TSTCSZ	1806	TSTIOH	838	TSTNDA	1669	TSTMWZ	1404
TSTZNS	1306	TU I	2204	TUBIGH	1566	TUF 7	1328	TUF2 7	1344	TUKIT0	2493	TUNO 9	1638
TUNO I	1336	TUNO U	1225	TURN G	1592	TURN I	1858	TURN K	1994	TUSW I	2599	TWIST1	2097
TWISTK	1603	TWLV58	1043	TWO A	2513	TWO9 N	1275	TWO9 O	1332	TWO9 P	1307	TYPE 0	2870
TYPE1R	993	UNARY7	2672	UNDEFJ	1824	UNIQ F	1050	UNITS0	2819	UNITSK	1894	UNPAKA	1876
UNPAKN	1200	UNPAKO	1256	UNPAKP	1231	UNREFJ	965	UNREFN	1412	UNREFT	1361	UPDATZ	2196
UPLIMJ	848	UPLIMN	849	UPLIMO	848	UPLIMP	848	URFSWT	2562	VARBLI	1992	VARBLM	1283
VBLSWI	2779	VERSEI	2505	VSERRI	1036	VZONEI	2768	VZONEJ	2336	WCTR T	2507	WITCHM	1224
WK5 A	2653	WK5 O	2071	WK51 A	2648	WK51 O	2208	WKBK1Z	870	WKBK2Z	875	WKBK3Z	1668
WMSW Z	1617	WMTSTZ	1514	WORD #	680	WORDLI	2587	WORK 3	1598	WORK A	2425	WORK B	2422
WORK F	1690	WORK G	849	WORK I	2646	WORK J	2296	WORK K	2363	WORK O	2106	WORK U	893
WORK1M	2009	WORK34	1613	WORK3A	2834	WORK3C	1352	WORK3I	2597	WORK5J	853	WORK6A	2817
WORK9C	1820	WORRYL	968	WORRYM	1026	WORRYN	1321	WORRYY	1109	WOW K	2043	WP 1	1103
WPB 1	1152	WPCS 1	1497	WRAP N	1390	WRDMVZ	1397	WRONGX	1116	WRTAPE	1412	WTOTPE	1395
X1 %	89	X1 &	89	X1 *	89	X1 .	89	X1 0	89	X1 1	89	X1 3	89

X1	4	89	X1	5	89	X1	6	89	X1	7	89	X1	8	89	X1	9	89	X1	<	89	
X1	B	89	X1	C	89	X1	D	89	X1	E	89	X1	F	89	X1	G	89	X1	H	89	
X1	I	89	X1	J	89	X1	K	89	X1	L	89	X1	M	89	X1	N	89	X1	O	89	
X1	P	89	X1	Q	89	X1	R	89	X1	S	89	X1	T	89	X1	U	89	X1	V	89	
X1	W	89	X1	X	89	X1	Y	89	X1	Z	89	X2	%	94	X2	.	94	X2	0	94	
X2	1	94	X2	3	94	X2	4	94	X2	5	94	X2	7	94	X2	9	94	X2	<	94	
X2	C	94	X2	D	94	X2	E	94	X2	F	94	X2	G	94	X2	H	94	X2	I	94	
X2	J	94	X2	K	94	X2	L	94	X2	M	94	X2	N	94	X2	O	94	X2	P	94	
X2	Q	94	X2	R	94	X2	S	94	X2	T	94	X2	U	94	X2	V	94	X2	W	94	
X2	X	94	X2	Y	94	X2	Z	94	X25	Z	1598	X3	%	99	X3	&	99	X3	*	99	
X3	.	99	X3	0	99	X3	1	99	X3	3	99	X3	4	99	X3	5	99	X3	7	99	
X3	8	99	X3	9	99	X3	<	99	X3	F	99	X3	G	99	X3	H	99	X3	I	99	
X3	J	99	X3	K	99	X3	L	99	X3	M	99	X3	N	99	X3	O	99	X3	P	99	
X3	Q	99	X3	R	99	X3	S	99	X3	T	99	X3	U	99	X3	V	99	X3	W	99	
X3	X	99	X3	Y	99	X3	Z	99	X35	Z	1603	X3ANDI	7+X3	XABSV	A	122	XATANF		121		
XBEGIN	838		XCOMF1	117		XDOAD1	111		XDOAD2	112		XDOAD3	113		XDOINI	114	XDOSBS		116		
XEUNTK	1683		XEXPON	157		XFIXFU	124		XFLTFU	125		XL1	#	89		XL1	7	89	XL1	A	89
XL1	C	89	XL1	E	89	XL2	#	94	XL2	A	94	XL2	C	94		XL2	E	94	XL2	T	94
XL3	#	99	XL3	7	99	XL3	A	99	XL3	C	99	XL3	E	99		XL3	T	99	XLINKF		139
XLINKS	840		XLINKW	185		XLOGFN	119		XNEGTF	123		XNOT	T	1281		XOBLST	115		XPANDI		1726
XPMODY	2768		XPNETL	897		XPON	Y	2767	XPONTK	2420		XSINFU	118		XSQRTF	126	XSUB	Y	2513		
XTPSW9	1757		XUSER1	127		XUSER2	128		XUSER3	129		XUSER4	130		XUSER5	131	XUSER6		132		
XUSER7	133		XUSER8	134		XUSER9	135		XUSR10	136		XUSR11	137		XUSR12	138	XXPNTL		120		
XXX	#	0	XXX	7	0	XXX	8	0	XXX	9	1165	XXX	T	0	XXXX	C	0	XXXX	E	0	
YEAH	M	1413	YESIOT	1291		YIPEE6	201		YUSER1	876		YUSER2	873		YUSER3	870	YUSER4		867		
YUSER5	864		YUSER6	861		YUSER7	858		YUSER8	855		YUSER9	852		YUSER10	849	YUSR11		846		
YUSR12	843		ZADD	C	1442	ZERO	#	637	ZERO	5	1162	ZERO	M	1644	ZERO	Y	2500	ZEROS#		641	
ZEROZJ	2247		ZNA	J	1929	ZON190	1334		ZONCH<	2035		ZONE	.	1243	ZONE	0	2829	ZONE	C	1009	
ZONE	L	1080	ZONE	N	1627	ZONE	Z	886	ZONESH	2098		ZONESI	2602		ZONESJ	2250	ZONESN		1276		
ZONESO	2015		ZONESP	1308		ZONESS	2509														