

CLEAR STORAGE 1	,008015,022026,030037,044,049,053053N0000000N00001026	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	FORMAT PACKAGE	5054A	PAGE	1
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SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
101	1	01		JOB	1401 FORTRAN FORMAT PACKAGE						
102	1	02		CTL	645 11						
103	1	03		SFX	Q	Q					
104	1	04	110	DCW	@FORMATPAK@	Q	9	0110			4
105	1	05	X1	EQU	089	Q		0089			
106	1	06	X2	EQU	094	Q		0094			
107	1	07	X3	EQU	099	Q		0099			
108	1	08	PARAM	EQU	686	Q		0686			
109	1	09	MONTER	EQU	700	Q		0700			
110	1	10	TCLEAR	EQU	710	Q		0710			
111	1	11	MONTOR	EQU	769	Q		0769			
112	1	12	STARTR	EQU	934	Q		0934			
113	1	13		ORG	STARTR	Q			0934		
114	1	14	FOMAT	SW	GMWM,FORMAT	Q	7	0934	, S53 W97		5
115	1	15		BCE	TPSYS,MONTOR,N	Q	8	0941	B | 59 769 N		5
116	1	16	CDSYS	BCE	CDLIO,PARAM&10,L	Q	8	0949	B | 26 696 L		5
117	1	17	SKLIO	R		Q	1	0957	1		5
118	1	18		BCE	NTEST,68,B	Q	8	0958	B 970 068 B		5
119	1	19		B	SKLIO	Q	4	0966	B 957		5
120	1	20	NTEST	BCE	SKFIO,PARAM&10,X	Q	8	0970	B | 34 696 X		6
121	1	21		R	040	Q	4	0978	1 040		6
122	1	22	CWFIO	CW	GMK	Q	4	0982	) 26Z		6
123	1	23		C	PARAM&4,@01@	Q	7	0986	C 690 S39		6
124	1	24		BU	ATEST	Q	5	0993	B | 05 /		6
125	1	25		LCA	@N@,CWMKS	Q	7	0998	L S40 A38		6
126	1	26	ATEST	BCE	CDAF,PARAM&10,A	Q	8	1005	B | 47 696 A		7
127	1	27	SKAIO	R		Q	1	1013	1		7
128	1	28		BCE	EXITA,68,B	Q	8	1014	B / 41 068 B		7
129	1	29		B	SKAIO	Q	4	1022	B | 13		7
130	1	30	CDLIO	R	040	Q	4	1026	1 040		7
131	1	31	CWLIO	CW	GPWDMK	Q	4	1030	) !15		7
132	1	32	SKFIO	R		Q	1	1034	1		7
133	1	33		BCE	ATEST,68,B	Q	8	1035	B | 05 068 B		8
134	1	34		B	SKFIO	Q	4	1043	B | 34		8
135	1	35	CDAF	R	040	Q	4	1047	1 040		8
136	1	36	CWAF	CW	GM54D	Q	4	1051	) 61W		8
137	1	37		B	EXITA	Q	4	1055	B / 41		8
138	1	38	TPSYS	BCE	TPLIO,PARAM&10,L	Q	8	1059	B / 64 696 L		8
139	1	39	SKPL	RTW	1,GMWM	Q	8	1067	L %U1 S53 R		9
140	1	40		BER	TPER	Q	5	1075	B S11 L		9
141	1	41		BCE	SKPF,PARAM&10,X	Q	8	1080	B / 77 696 X		9
142	1	42	FULIO	RTW	1,FORMAT	Q	8	1088	L %U1 W97 R		9
143	1	43		BER	TPER	Q	5	1096	B S11 L		9
144	1	44		C	PARAM&4,@01@	Q	7	1101	C 690 S39		10
145	1	45		BU	TSTAF	Q	5	1108	B / 20 /		10
146	1	46		LCA	@N@,CWMKS	Q	7	1113	L S40 A38		10
147	1	47	TSTAF	BCE	TPAF,PARAM&10,A	Q	8	1120	B / 94 696 A		10

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	1	48	SKPAF	RTW	1,GMWM	Q	8	1128	L %U1 S53 R		10
149	1	49		BER	TPER	Q	5	1136	B S11 L		11
150	1	50	EXITA	FENDX	C , , , , , GMWM, REPLACE 2	Q				MACRO	
151			EXITA	BSS	333,C	Q	5	1141	B 333 C	GEN	11
152				SBR	TCLEAR,GMWM	Q	7	1146	H 710 S53	GEN	11
153				LCA	@REPLACE 2@,110	Q	7	1153	L S49 110	GEN	11
154				B	MONTER	Q	4	1160	B 700	GEN	11
155	1	51	TPLIO	RTW	1,FORMAT	Q	8	1164	L %U1 W97 R		11
156	1	52		BER	TPER	Q	5	1172	B S11 L		12
157	1	53	SKPF	RTW	1,GMWM	Q	8	1177	L %U1 S53 R		12
158	1	54		BER	TPER	Q	5	1185	B S11 L		12
159	1	55		B	SKPAF	Q	4	1190	B /28		12
160	1	56	TPAF	RTW	1,ABEGN	Q	8	1194	L %U1 28 | R		12
161	1	57		BER	TPER	Q	5	1202	B S11 L		12
162	1	58		B	EXITA	Q	4	1207	B /41		12
163	1	59	TPER	SBR	BBACK&3	Q	4	1211	H S37		13
164	1	60		MA	@I8G@,BBACK&3	Q	7	1215	# S52 S37		13
165	1	61		BSP	1	Q	5	1222	U %U1 B		13
166	1	62		H	3333,3333	Q	7	1227	. C33 C33		13
167	1	63	BBACK	B	0	Q	4	1234	B 000		13
168	1	64		LTORG	*	Q			1238		
				DCW	@01@	Q	2	1239		LIT	13
				DCW	@N@	Q	1	1240		LIT	13
				DCW	@REPLACE 2@	Q	9	1249		LIT	14
				DCW	@I8G@	Q	3	1252		LIT	14
169	1	65	GMWM	DCW	@}@	Q	1	1253		GMARK	14
170	1	66		XFR	FOMAT	Q			B 934		15

GROUP MARK
NEXT COMES LIO, THEN FULL I/O

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
171	1	67		JOB	OBJECT TIME FORMAT	Q					
172	1	68		ORG	1697	Q			1697		
173	1	69	START	SBR	X1	Q	4	1697	H 089		18
174	1	70		SW	GPWDMK	Q	4	1701	, !15		18
175	1	71		CW	0&X1	Q	4	1705	) 0|0		18
176	1	72		MCW	X3, SAVX3#3	Q	7	1709	M 099 Z92		18
177	1	73		LCA	@001@, X3	Q	7	1716	L Z95 099		18
178	1	74		BWZ	WRTAP, 0&X1, S	Q	8	1723	V Z10 0|0 S		18
179	1	75		MCW	@R@, IO4&7	Q	7	1731	M Z96 Y55		19
180	1	76	RDTAP	MCW	6&X1, LOC#3	Q	7	1738	M 0|6 Z99		19
181	1	77	IO1	MCW	LOC, IO12&6	Q	7	1745	M Z99 X58		19
182	1	78	IO12	BCE	RET, 000, .	Q	8	1752	B Y95 000 .		19
183	1	79		MA	@006@, LOC	Q	7	1760	# !02 Z99		19
184	1	80		MCW	LOC, IO15&3	Q	7	1767	M Z99 X77		20
185	1	81	IO15	MCW	000, ADDR#6	Q	7	1774	M 000 !08		20
186	1	82		SW	ADDR-2	Q	4	1781	, !06		20
187	1	83		MA	@001@, ADDR	Q	7	1785	# Z95 !08		20
188	1	84		MCW	ADDR, IO2&3	Q	7	1792	M !08 Y02		20
189	1	85	IO2	MCW	000, SAVCH#1	Q	7	1799	M 000 !09		20
190	1	86		MCW	ADDR, IO3&6	Q	7	1806	M !08 Y19		21
191	1	87	IO3	LCA	GPWDMK, 000	Q	7	1813	L !15 000		21
192	1	88		MCW	ADDR-3, IO4&6	Q	7	1820	M !05 Y54		21
193	1	89		MN	0&X1, IO4&3	Q	7	1827	D 0|0 Y51		21
194	1	90		S	COUNT#1, COUNT	Q	7	1834	S !10 !10		21
195	1	91		MZ	@A@, IO4&5	Q	7	1841	Y !11 Y53		22
196	1	92	IO4	RTW	1, 000	Q	8	1848	L %U1 000 R		22
197	1	93		BEF	RWT78	Q	5	1856	B Z83 K		22
198	1	94		BER	RWT31	Q	5	1861	B Z21 L		22
199	1	95		MCW	ADDR, IO5&6	Q	7	1866	M !08 Y79		22
200	1	96	IO5	MCW	SAVCH, 000	Q	7	1873	M !09 000		22
201	1	97		MA	@001@, LOC	Q	7	1880	# Z95 Z99		23
202	1	98		CW	ADDR-2	Q	4	1887	) !06		23
203	1	99		B	IO1	Q	4	1891	B X45		23
204	2	00	RET	MCW	SAVX3, X3	Q	7	1895	M Z92 099		23
205	2	01		SW	0&X1	Q	4	1902	, 0|0		23
206	2	02		B	7&X1	Q	4	1906	B 0|7		23
207	2	03	WRTAP	MCW	@W@, IO4&7	Q	7	1910	M !12 Y55		23
208	2	04		B	RDTAP	Q	4	1917	B X38		24
209	2	05	RWT31	BCE	RWT77, COUNT, I	Q	8	1921	B Z76 !10 I		24
210	2	06		MN	IO4&3, *&4	Q	7	1929	D Y51 Z39		24
211	2	07		UB	%U0	Q	5	1936	U %U0 B		24
212	2	08		BCE	RWT41, IO4&7, W	Q	8	1941	B Z60 Y55 W		24
213	2	09		A	@1@, COUNT	Q	7	1949	A !13 !10		24
214	2	10		B	IO4	Q	4	1956	B Y48		25
215	2	11	RWT41	MN	IO4&3, *&4	Q	7	1960	D Y51 Z70		25
216	2	12		UE	%U0	Q	5	1967	U %U0 E		25
217	2	13		B	IO4	Q	4	1972	B Y48		25
218	2	14	RWT77	H	*-6, 777	Q	7	1976	. Z76 777		25
219	2	15	RWT78	H	*-6, 888	Q	7	1983	. Z83 888		25
220	2	16		LTORG	*	Q			1990		

				OBJECT TIME FORMAT	5054B			PAGE	4		
SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
			SAVX3Q	DCW	#03	Q	3	1992		AREA	25
				DCW	@001@	Q	3	1995		LIT	26
				DCW	@R@	Q	1	1996		LIT	26
			LOC	Q	DCW #03	Q	3	1999		AREA	26
				DCW	@006@	Q	3	2002		LIT	26
			ADDR	Q	DCW #06	Q	6	2008		AREA	26
			SAVCHQ	DCW	#01	Q	1	2009		AREA	26
			COUNTQ	DCW	#01	Q	1	2010		AREA	26
				DCW	@A@	Q	1	2011		LIT	27
				DCW	@W@	Q	1	2012		LIT	27
				DCW	@1@	Q	1	2013		LIT	27
221	2	17		DCW	@ @	Q	1	2014			27
222	2	18	GPWDMK	DCW	@}@	Q	1	2015		GMARK	27
223	2	19		XFR	CWLIO	Q			B | 30		28
					GROUP MARK						

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
224	2	20		JOB	OBJECT TIME FORMAT	Q					
225	2	21		ORG	1697	Q			1697		
226	2	22	FORMAT	SBR	X1	Q	4	1697	H 089		31
227	2	23		MLC	0&X1,FMTZON	Q	7	1701	M 0|0 J36		31
228	2	24		MLC	*-6,IO	Q	7	1708	M X08 D34		31
229	2	25		SBR	FMTXT&3, 7&X1	Q	7	1715	H J35 0|7		31
230	2	26		MCW	6&X1,LIST&6	Q	7	1722	M 0|6 Z68		31
231	2	27		ZA	*-6,PCTR	Q	7	1729	? X29 L27		31
232	2	28		CW	INSW#1	Q	4	1736	) 23V		32
233	2	29		SW	GMK	Q	4	1740	, 26Z		32
234	2	30		MCW	3&X1, XL2	Q	7	1744	M 0|3 094		32
235	2	31		SBR	X3, 200	Q	7	1751	H 099 200		32
236	2	32		SBR	TUMUCH#3,334	Q	7	1758	H 23Y 334		32
237	2	33		BCE	READC, 0&X1, &	Q	8	1765	B E56 0|0 &		32
238	2	34		BCE	PUNCH, 0&X1, -	Q	8	1773	B E25 0|0 -		33
239	2	35		BCE	PRINT, 0&X1, *	Q	8	1781	B D71 0|0 *		33
240	2	36		BWZ	RDITP, 0&X1, K	Q	8	1789	V C12 0|0 K		33
241	2	37		BWZ	WT2,0&X1,B	Q	8	1797	V C75 0|0 B		33
242	2	38		SBR	X2,RDRTB	Q	7	1805	H 094 Z16		33
243	2	39		CS	332	Q	4	1812	/ 332		34
244	2	40		CS		Q	1	1816	/		34
245	2	41		CS		Q	1	1817	/		34
246	2	42		SBR	X3,100	Q	7	1818	H 099 100		34
247	2	43		MLC	ELL,IO	Q	7	1825	M !79 D34		34
248	2	44	LOOP2	SW	0&X3	Q	4	1832	, 0?0		34
249	2	45		B	GETAD	Q	4	1836	B Z43		34
250	2	46		BWZ	RDITP,FMTZON,2	Q	8	1840	V C12 J36 2		35
251	2	47		SBR	BUCKT,100	Q	7	1848	H 24/ 100		35
252	2	48	MVAGN	MLC	0&X1,0&X3	Q	7	1855	M 0|0 0?0		35
253	2	49		SAR	X2	Q	4	1862	Q 094		35
254	2	50		B	SBRX3	Q	4	1866	B J37		35
255	2	51		BW	*&5,1&X2	Q	8	1870	V Y82 0!1 1		35
256	2	52		B	MVAGN	Q	4	1878	B Y55		36
257	2	53		B	CKOVF	Q	4	1882	B Q08		36
258	2	54		SBR	OUTPT&3,TPCMND	Q	7	1886	H K22 C84		36
259	2	55		B	LOOP2	Q	4	1893	B Y32		36
260	2	56	OUT	B	CKOVF	Q	4	1897	B Q08		36
261	2	57		MLCWA	0&X3,0&X1	Q	7	1901	L 0?0 0|0		36
262	2	58		B	GETAD	Q	4	1908	B Z43		36
263	2	59	RDRTN	B	SBRX3	Q	4	1912	B J37		37
264	2	60	RDRTB	BW	OUT,1&X3	Q	8	1916	V Y97 0?1 1		37
265	2	61		B	RDRTN	Q	4	1924	B Z12		37
266	2	62	FMAIN	SBR	OUTPT&3	Q	4	1928	H K22		37
267	2	63		MLC	X3,BUCKT#3	Q	7	1932	M 099 24/		37
268	2	64		B	0&X2	Q	4	1939	B 0!0		37
269	2	65	GETAD	SBR	GTXT&3	Q	4	1943	H !06		37
270	2	66		MLC	X2,SAVE2&6	Q	7	1947	M 094 !02		38
271	2	67		BW	ALRDY,LKHED	Q	8	1954	V !31 23U 1		38
272	2	68	LIST	T	OBLIST	Q	4	1962	T 912		38
273	2	69	MLBOX	DCW	#3	Q	3	1968			38

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
274	2	70		SBR	X2						
275	2	71	RMVZN	MZ	NOZN,X1-1						
276	2	72		BCE	NTRAY,X1,.						
277	2	73		BCE	UNDUN,X1,						
278	2	74	SAVE2	SBR	X2,XXX						
279	2	75	GTXT	B	XXX						
280	2	76	UNDUN	BW	FMTXT,INSW						
281	2	77		C	BUCKT,X3						
282	2	78		BU	NDLIN						
283	2	79		B	FMTXT						
284	2	80	ALRDY	CW	LKHED						
285	2	81		MLC	SAVE1,X1						
286	2	82		B	RMVZN						
287	2	83	NTRAY	MLC	2&X2,X3						
288	2	84		MLC	5&X2,X1						
289	2	85		MLC	1&X1,GMKHD#1						
290	2	86		BW	*5,1&X1						
291	2	87		CW	GMKSW#1						
292	2	88	ELL	MLCWA	GMK,1&X1						
293	2	89		B	SBRX3						
294	2	90		SBR	X2,ARRTN						
295	2	91		BWZ	RDITP,FMTZON,2						
296	2	92		B	TPCMND						
297	2	93	ARRTN	MLC	GMKHD,1&X1						
298	2	94		BW	FMTXT,GMKSW						
299	2	95		CW	1&X1						
300	2	96		SW	GMKSW						
301	2	97	FMTXT	B	XXX						
302	2	98	FMTZON	DCW	@ @						
303	2	99	SBRX3	SBR	SBRX3&14						
304	3	00		SBR	X3,1&X3						
305	3	01		B	0						
306	3	02	OPNPR	SBR	X2						
307	3	03		MN	0&X2						
308	3	04		MN							
309	3	05		MN							
310	3	06		MN							
311	3	07		SAR	REPEAT&3						
312	3	08		MCW	2&X2,RTPA#3						
313	3	09		SBR	LAST1&3,3&X2						
314	3	10		B	DECRA						
315	3	11	CLSPR	SBR	X2						
316	3	12	DECRA	S	ONE,RTPA						
317	3	13		BM	0&X2,RTPA						
318	3	14	LAST1	B	XXX						
319	3	15	NDLIN	SBR	X2						
320	3	16		MLC	BUCKT,X3						
321	3	17	OUTPT	B	XXX						
322	3	18	EOJ1	BW	NOPSW,INSW						
323	3	19		C	BUCKT,X3						

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
324	3	20		BU	NDLIN	Q	5	2238	B K08 /		46
325	3	21	NOPSW	MLC	LIST&6,*&7	Q	7	2243	M Z68 K56		46
326	3	22		BCE	NOPBR,0,,	Q	8	2250	B K98 000 ,		46
327	3	23		MLC	LIST&6,*&7	Q	7	2258	M Z68 K71		47
328	3	24		T	OBLIST	Q	4	2265	T 912		47
329	3	25	EJBOX	DCW	#3	Q	3	2271			47
330	3	26		BCE	FMTXT,X1,	Q	8	2272	B J32 089		47
331	3	27		MLC	EJBOX,MLBOX	Q	7	2280	M K71 Z68		47
332	3	28		MLC	X1,SAVE1#3	Q	7	2287	M 089 24Z		47
333	3	29		SW	LKHED	Q	4	2294	, 23U		48
334	3	30	NOPBR	BW	NDLIN,INSW	Q	8	2298	V K08 23V 1		48
335	3	31	REPEAT	B	XXX	Q	4	2306	B 000		48
336	3	32	SCALE	SBR	X2	Q	4	2310	H 094		48
337	3	33		ZA	2&X2,PCTR	Q	7	2314	? 0!2 L27		48
338	3	34		B	3&X2	Q	4	2321	B 0!3		48
339	3	35	PCTR	DCW	&000	Q	3	2327			48
340	3	36	HOLLR	SBR	X2	Q	4	2328	H 094		49
341	3	37	TESTH	BW	HOLIN,INSW	Q	8	2332	V L47 23V 1		49
342	3	38	HLOUT	MLC	0&X2,0&X3	Q	7	2340	M 0!0 0?0		49
343	3	39	HOLIN	MLC	0&X3,0&X2	Q	7	2347	M 0?0 0!0		49
344	3	40		B	SBRX3	Q	4	2354	B J37		49
345	3	41		SBR	X2,1&X2	Q	7	2358	H 094 0!1		49
346	3	42		BW	*&5,0&X2	Q	8	2365	V L77 0!0 1		50
347	3	43		B	TESTH	Q	4	2373	B L32		50
348	3	44		B	CKOVF	Q	4	2377	B Q08		50
349	3	45		B	0&X2	Q	4	2381	B 0!0		50
350	3	46	GETW	SBR	X2	Q	4	2385	H 094		50
351	3	47		MCW	3&X2, RPTB#3	Q	7	2389	M 0!3 25S		50
352	3	48	DCRPB	S	ONE,RPTB	Q	7	2396	S E74 25S		50
353	3	49		BWZ	GTRTN,RPTB,B	Q	8	2403	V M31 25S B		51
354	3	50		BCE	7&X2,0&X2,I	Q	8	2411	B 0!7 0!0 I		51
355	3	51		BCE	7&X2,0&X2,A	Q	8	2419	B 0!7 0!0 A		51
356	3	52		B	10&X2	Q	4	2427	B 0J0		51
357	3	53	GTRTN	B	GETAD	Q	4	2431	B Z43		51
358	3	54		AFIXW	S,FIXWD	Q				MACRO	
359				S		Q	1	2435	S	GEN	51
360				DC	@_0@	Q	2	2437		GEN	51
361				DC	0	Q	1	2438		GEN	51
362	3	55	EFNTN	AFLTW	SW,FLTWD,-1	Q				MACRO	
363			EFNTN	SW		Q	1	2439	,	GEN	51
364				DC	@;0@ 11-6-8,0	Q	2	2441		GEN	51
365				DC	-1	Q	1	2442		GEN	52
366	3	56		BW	INEFI, INSW	Q	8	2443	V F51 23V 1		52
367	3	57		CS	24	Q	4	2451	/ 024		52
368	3	58		SW	0&X3	Q	4	2455	, 0?0		52
369	3	59		MN		Q	1	2459	D		52
370	3	60		SBR	X3	Q	4	2460	H 099		53
371	3	61		SBR	JOE4&3,2&X3	Q	7	2464	H Q97 0?2		53
372	3	62		SBR	FINS&3	Q	4	2471	H A49		53
373	3	63		SW	001	Q	4	2475	, 001		53

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SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
374	3	64	EFOUT EFOUT	BCE	INOTN, 0&X2, I	Q	8	2479	B Q33 0!0 I	MACRO GEN GEN GEN GEN	53
375	3	65		BCE	AOUT, 0&X2, A	Q	8	2487	B 41Z 0!0 A		53
376	3	66		BFLTW	MLC, @0|0@, FLTWD	Q					
377				MLC		Q	1	2495	M		53
378				DC	@0|0@	Q	3	2498			53
379				DC	@;0@ 11-6-8, 0	Q	2	2500			54
380				DC	0	Q	1	2501			54
381	3	67		MCW		Q	1	2502	M		54
382	3	68		SBR	XL1	Q	4	2503	H 089		54
383	3	69		SW	0&X1	Q	4	2507	, 0|0		54
384	3	70	A	WD, XL3	Q	7	2511	A 0!6 099	54		
385	3	71	SBR	FINS-1, 2&X3	Q	7	2518	H A45 0?2	55		
386	3	72	MLC	@0.0@	Q	4	2525	M 25V	55		
387	3	73	SW	2&X3	Q	4	2529	, 0?2	55		
388	3	74	BCE	EFTI, 1&X1, 0	Q	8	2533	B N49 0|1 0	55		
389	3	75	BFLTW	BWZ, FOVFL, FLTWD, -2, 2	Q				MACRO		
390			BWZ		Q	1	2541	V	GEN	55	
391			DC	FOVFL	Q	3	2544	O74	GEN	55	
392			DC	@;0@ 11-6-8, 0	Q	2	2546		GEN	55	
393			DC	-2	Q	1	2547		GEN	55	
394			DC	2	Q	1	2548		GEN	55	
395	3	76	EFTI	BCE	*&12, 0&X2, E	Q	8	2549	B N68 0!0 E		55
396	3	77		BFLTW	A, PCTR, FLTWD	Q				MACRO	
397				A		Q	1	2557	A	GEN	56
398				DC	PCTR	Q	3	2560	L27	GEN	56
399				DC	@;0@ 11-6-8, 0	Q	2	2562		GEN	56
400				DC	0	Q	1	2563		GEN	56
401	3	78		B	*&8	Q	4	2564	B N75		56
402	3	79		BFLTW	S, PCTR, FLTWD	Q				MACRO	
403				S		Q	1	2568	S	GEN	56
404				DC	PCTR	Q	3	2571	L27	GEN	56
405			DC	@;0@ 11-6-8, 0	Q	2	2573		GEN	56	
406			DC	0	Q	1	2574		GEN	56	
407	3	80	AFLTW	MLNS, FLTWD, , ECON	Q				MACRO		
408			MLNS		Q	1	2575	D	GEN	56	
409			DC	@;0@ 11-6-8, 0	Q	2	2577		GEN	56	
410			DC	0	Q	1	2578		GEN	56	
411			DC	ECON	Q	3	2581	F50	GEN	56	
412	3	81	MN		Q	1	2582	D		56	
413	3	82	AFLTW	MLC, FLTWD	Q				MACRO		
414			MLC		Q	1	2583	M	GEN	56	
415			DC	@;0@ 11-6-8, 0	Q	2	2585		GEN	56	
416			DC	0	Q	1	2586		GEN	56	
417	3	83	BCE	FTYP, 0&X2, F	Q	8	2587	B P04 0!0 F		56	
418	3	84	C	ECON, ZERO4-2	Q	7	2595	C F50 B64		57	
419	3	85	BE	*&9	Q	5	2602	B 015 S		57	
420	3	86	BWZ	*&8, ECON-2, K	Q	8	2607	V 022 F48 K		57	
421	3	87	MLZS	NOZN, ECON-2	Q	7	2615	Y B62 F48		57	
422	3	88	BFLTW	ZA, PCTR, FLTWD	Q				MACRO		
423			ZA		Q	1	2622	?	GEN	57	

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SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
424				DC	PCTR	Q	3	2625	L27	GEN	57
425				DC	@;0@ 11-6-8,0	Q	2	2627		GEN	57
426				DC	0	Q	1	2628		GEN	57
427	3	89	UPX1	AFLTW	MLNS,FLTWD,,*&8	Q				MACRO	
428			UPX1	MLNS		Q	1	2629	D	GEN	57
429				DC	@;0@ 11-6-8,0	Q	2	2631		GEN	57
430				DC	0	Q	1	2632		GEN	57
431				DC	*&8	Q	3	2635	O43	GEN	58
432	3	90		MN		Q	1	2636	D		58
433	3	91		SBR	X1, XXX&X1	Q	7	2637	H 089 0|0		58
434	3	92		ZA	837,POINT CHANGE IF ARITH REASSEMBLED	Q	7	2644	? 837 23S		58
435	3	93		S	DOPRT,POINT	Q	7	2651	S E05 23S		58
436	3	94		BFLTW	C,POINT,FLTWD	Q				MACRO	
437				C		Q	1	2658	C	GEN	59
438				DC	POINT	Q	3	2661	23S	GEN	59
439				DC	@;0@ 11-6-8,0	Q	2	2663		GEN	59
440				DC	0	Q	1	2664		GEN	59
441	3	95		BH	INTEG	Q	5	2665	B P28 U		59
442	3	96		B	OK1	Q	4	2670	B P97		59
443	3	97	FOVFL	MLC	@ X @,2&X3	Q	7	2674	M 25Y 0?2		59
444	3	98		MLC		Q	1	2681	M		59
445	3	99		SBR	X3,2&X3	Q	7	2682	H 099 0?2		59
446	4	00		SBR	FINSI-1	Q	4	2689	H A53		59
447	4	01		A	D, X3	Q	7	2693	A 0!9 099		60
448	4	02		B	CWMKS	Q	4	2700	B A38		60
449	4	03	FTYP	BM	NEGX,ECON-2	Q	8	2704	V P66 F48 K		60
450	4	04		C	WD, ECON	Q	7	2712	C 0!6 F50		60
451	4	05		BL	UPX1	Q	5	2719	B 029 T		60
452	4	06		B	FOVFL	Q	4	2724	B 074		60
453	4	07	INTEG	S	23	Q	4	2728	S 023		60
454	4	08		AFIXW	MCM,FIXWD,&1,001	Q				MACRO	
455				MCM		Q	1	2732	P	GEN	61
456				DC	@_0@ 11-7-8,0	Q	2	2734		GEN	61
457				DC	&1	Q	1	2735		GEN	61
458				DC	001	Q	3	2738		GEN	61
459	4	09		MLC	ZERO4	Q	4	2739	M B66		61
460	4	10		MZ		Q	1	2743	Y		61
461	4	11		MLC	ECON,X1	Q	7	2744	M F50 089		61
462	4	12		MLC	ZERO4-3	Q	4	2751	M B63		61
463	4	13		MLC	GMK,3&X1	Q	7	2755	M 26Z 0|3		61
464	4	14		B	OK1	Q	4	2762	B P97		61
465	4	15	NEGX	MZ	NOZN,0&X1	Q	7	2766	Y B62 0|0		62
466	4	16		C	D,ECON	Q	7	2773	C 0!9 F50		62
467	4	17		BU	BRHI	Q	5	2780	B P92 /		62
468	4	18		AFIXW	C,FIXWD,&1,FIVE	Q				MACRO	
469				C		Q	1	2785	C	GEN	62
470				DC	@_0@ 11-7-8,0	Q	2	2787		GEN	62
471				DC	&1	Q	1	2788		GEN	62
472				DC	FIVE	Q	3	2791	23T	GEN	62
473	4	19	BRHI	BH	MVDAT	Q	5	2792	B Q65 U		62

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SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX CT	LOCN	INSTRUCTION TYPE CARD
474	4	20	OK1	AFLTW	MLZS,FLTWD,-2,@0 0@	Q		MACRO
475			OK1	MLZS		Q 1	2797	GEN 62
476				DC	@;0@ 11-6-8,0	Q 2	2799	GEN 62
477				DC	-2	Q 1	2800	GEN 62
478				DC	@0|0@	Q 3	2803	GEN 62
479	4	21		B	MVDAT	Q 4	2804	B Q65 63
480	4	22	CKOVF	SBR	OVFEX&3	Q 4	2808	H Q32 63
481	4	23		C	TUMUCH,X3	Q 7	2812	C 23Y 099 63
482	4	24		BL	OVFEX	Q 5	2819	B Q29 T 63
483	4	25		NOP	3700	Q 4	2824	N G00 63
484	4	26		H		Q 1	2828	. 63
485	4	27	OVFEX	B	XXX	Q 4	2829	B 000 63
486	4	28	INOTN	BFIXW	MLC,@0|0@,FIXWD	Q		MACRO
487			INOTN	MLC		Q 1	2833	M GEN 64
488				DC	@0|0@	Q 3	2836	GEN 64
489				DC	@_0@ 11-7-8,0	Q 2	2838	GEN 64
490				DC	0	Q 1	2839	GEN 64
491	4	29		A	W, XL3	Q 7	2840	A 0!6 099 64
492	4	30		MCW	W, XL1	Q 7	2847	M 0!6 089 64
493	4	31		AFIXW	ZA,FIXWD,,@0|0@	Q		MACRO
494				ZA		Q 1	2854	? GEN 64
495				DC	@_0@ 11-7-8,0	Q 2	2856	GEN 64
496				DC	0	Q 1	2857	GEN 64
497				DC	@0|0@	Q 3	2860	GEN 64
498	4	32		B	SBRX3	Q 4	2861	B J37 64
499	4	33	MVDAT	MCS	0&X1,0&X3	Q 7	2865	Z 0|0 0?0 64
500	4	34		SBR	SAVE&6	Q 4	2872	H R58 65
501	4	35		MLNS	0&X1,0&X3	Q 7	2876	D 0|0 0?0 65
502	4	36		SBR	MCS&3,0&X3	Q 7	2883	H A90 0?0 65
503	4	37		SBR	FINSI-1	Q 4	2890	H A53 65
504	4	38	JOE4	SW	XXX	Q 4	2894	, 000 65
505	4	39		BWZ	BACK,0&X1,K	Q 8	2898	V R10 0|0 K 65
506	4	40		B	SAVE	Q 4	2906	B R52 65
507	4	41	BACK	BCE	EXIT,0&X3, BLANK	Q 8	2910	B R34 0?0 66
508	4	42		SBR	X3	Q 4	2918	H 099 66
509	4	43		BW	SAVE,1&X3 NO ROOM FOR SIGN	Q 8	2922	V R52 0?1 1 66
510	4	44		B	BACK	Q 4	2930	B R10 66
511	4	45	EXIT	MLZS	MINUS,0&X3	Q 7	2934	Y G46 0?0 66
512	4	46		SW	1&X3	Q 4	2941	, 0?1 66
513	4	47		SBR	FINSI-1,1&X3	Q 7	2945	H A53 0?1 67
514	4	48	SAVE	SBR	X3,111 DUMMY ADDRESS	Q 7	2952	H 099 111 67
515	4	49		BCE	FINS,0&X2,I	Q 8	2959	B A46 0!0 I 67
516	4	50		A	D,X3	Q 7	2967	A 0!9 099 67
517	4	51		BCE	JUMPF,0&X2,F	Q 8	2974	B R93 0!0 F 67
518	4	52		MLNS	0&X3	Q 4	2982	D 0?0 68
519	4	53		MLNS		Q 1	2986	D 68
520	4	54		MLNS		Q 1	2987	D 68
521	4	55		MLNS		Q 1	2988	D 68
522	4	56		SBR	X3	Q 4	2989	H 099 68
523	4	57	JUMPF	SBR	OVR1&6,1&X3	Q 7	2993	H ?88 0?1 68

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
524	4	58		S	1&X3	Q	4	3000	S 0?1		68
525	4	59		MLNS		Q	1	3004	D		69
526	4	60		SAR	X3	Q	4	3005	Q 099		69
527	4	61		BCE	MDIG,0&X2,E	Q	8	3009	B ?44 0!0 E		69
528	4	62		BWZ	MDIG,ECON-2,B	Q	8	3017	V ?44 F48 B		69
529	4	63		C	D,ECON	Q	7	3025	C 0!9 F50		69
530	4	64		BH	OVR1	Q	5	3032	B ?82 U		69
531	4	65		A	ECON,X3	Q	7	3037	A F50 099		70
532	4	66	MDIG	BCE	OVR1,3&X1,}	Q	8	3044	B ?82 0!3 }	GMARK	70
533	4	67		MLNS	1&X1,2&X3	Q	7	3052	D 0!1 0?2		70
534	4	68		SBR	X1,1&X1	Q	7	3059	H 089 0!1		70
535	4	69		BWZ	OVR1,2&X3,B	Q	8	3066	V ?82 0?2 B		70
536	4	70		SBR	X3	Q	4	3074	H 099		71
537	4	71		B	MDIG	Q	4	3078	B ?44		71
538	4	72	OVR1	SBR	X3,XXX	Q	7	3082	H 099 000		71
539	4	73		BAV	*&1	Q	5	3089	B ?94 Z		71
540	4	74		A	ECON-3,0&X3	Q	7	3094	A F47 0?0		71
541	4	75		MLC	NOZN,0&X3	Q	7	3101	M B62 0?0		71
542	4	76		BCE	CWMKS-5,0&X2,F	Q	8	3108	B A33 0!0 F		72
543	4	77		SBR	X3,4&X3	Q	7	3116	H 099 0?4		72
544	4	78		MLNS	0&X3	Q	4	3123	D 0?0		72
545	4	79		MCW	ECON	Q	4	3127	M F50		72
546	4	80		MZ		Q	1	3131	Y		72
547	4	81		MCW		Q	1	3132	M		72
548	4	82		BAV	ARRAV	Q	5	3133	B A66 Z		72
549	4	83	CWMKS	AFIXW	CW,FIXWD	Q				MACRO	
550			CWMKS	CW		Q	1	3138	)	GEN	73
551				DC	@_0@	Q	2	3140		GEN	73
552				DC	0	Q	1	3141		GEN	73
553	4	84		CW	XXX	Q	4	3142	) 000		73
554	4	85	FINS	CW	000	Q	4	3146	) 000		73
555	4	86		CW	XXX	Q	4	3150	) 000		73
556	4	87	FINSI	AFIXW	SW,FIXWD,&1	Q				MACRO	
557			FINSI	SW		Q	1	3154	,	GEN	73
558				DC	@_0@	Q	2	3156		GEN	73
559				DC	&1	Q	1	3157		GEN	73
560	4	88		B	CKOVF	Q	4	3158	B Q08		73
561	4	89		B	DCRPB	Q	4	3162	B L96		73
562	4	90	ARRAV	MLC	FINS-1,X1	Q	7	3166	M A45 089		74
563	4	91		MLZS	NOZN,0&X1	Q	7	3173	Y B62 0!0		74
564	4	92		MLC		Q	1	3180	M		74
565	4	93		A		Q	1	3181	A		74
566	4	94		BAV	OVR9S	Q	5	3182	B A95 Z		74
567	4	95	MCS	MCS	0	Q	4	3187	Z 000		74
568	4	96		B	CWMKS	Q	4	3191	B A38		74
569	4	97	OVR9S	MN	0&X1	Q	4	3195	D 0!0		75
570	4	98		C		Q	1	3199	C		75
571	4	99		MN		Q	1	3200	D		75
572	5	00		SBR	X1	Q	4	3201	H 089		75
573	5	01		C	FINS&3,X1	Q	7	3205	C A49 089		75

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SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX CT	LOCN	INSTRUCTION TYPE CARD
574	5	02		BL	CLEAR	Q 5	3212	B B40 T 75
575	5	03		SW	0&X1	Q 4	3217	, 0|0 75
576	5	04		MLC	1&X1,0&X1	Q 7	3221	M 0|1 0|0 76
577	5	05		CW		Q 1	3228	) 76
578	5	06		MCW	ONE,1&X1	Q 7	3229	M E74 0|1 76
579	5	07		B	CWMKS	Q 4	3236	B A38 76
580	5	08	CLEAR	MLC	1&X3,0&X3	Q 7	3240	M 0?1 0?0 76
581	5	09		MLC		Q 1	3247	M 76
582	5	10		MLC		Q 1	3248	M 76
583	5	11		MLC	@ X @,3&X1	Q 7	3249	M 25Y 0|3 77
584	5	12		B	CWMKS	Q 4	3256	B A38 77
585	5	13		DCW	1	Q 1	3260	77
586	5	14		DCW	@.@	Q 1	3261	77
587	5	15	NOZN	DCW	@ @	Q 1	3262	77
588	5	16	ZERO4	DCW	0000	Q 4	3266	77
589	5	17	INI	MLC	X1,X3	Q 7	3267	M 089 099 77
590	5	18		MLZS	ZAFILT,*&8	Q 7	3274	Y 06S B88 78
591	5	19		BFIXW	MLNS,@0?0@,FIXWD,&1	Q		MACRO
592				MLNS		Q 1	3281	D GEN 78
593				DC	@0?0@	Q 3	3284	GEN 78
594				DC	@_0@ 11-7-8,0	Q 2	3286	GEN 78
595				DC	&1	Q 1	3287	GEN 78
596	5	20		ZA		Q 1	3288	? 78
597	5	21		MLC	URZRO&6,X1	Q 7	3289	M 14W 089 78
598	5	22		AFIXW	MLCWA,FIXWD,,@0|0@	Q		MACRO
599				MLCWA		Q 1	3296	L GEN 78
600				DC	@_0@ 11-7-8,0	Q 2	3298	GEN 78
601				DC	0	Q 1	3299	GEN 78
602				DC	@0|0@	Q 3	3302	GEN 78
603	5	23		B	MRWM	Q 4	3303	B 15V 78
604	5	24	HLTGO	NOP	4002	Q 4	3307	N 00S 78
605	5	25		H		Q 1	3311	. 79
606	5	26	RDITP	SW	INSW	Q 4	3312	, 23V 79
607	5	27	RD2	CS	332	Q 4	3316	/ 332 79
608	5	28		CS		Q 1	3320	/ 79
609	5	29		B	TPCMND	Q 4	3321	B C84 79
610	5	30	CMBCK	BEF	HLTGO	Q 5	3325	B C07 K 79
611	5	31		BCE	TPCMND,12&X3,} GM	Q 8	3330	B C84 0A2 } GMARK 79
612	5	32		CHAIN	12	Q		MACRO
613				BCE		Q 1	3338	B GEN 80
614				BCE		Q 1	3339	B GEN 80
615				BCE		Q 1	3340	B GEN 80
616				BCE		Q 1	3341	B GEN 80
617				BCE		Q 1	3342	B GEN 80
618				BCE		Q 1	3343	B GEN 80
619				BCE		Q 1	3344	B GEN 80
620				BCE		Q 1	3345	B GEN 81
621				BCE		Q 1	3346	B GEN 81
622				BCE		Q 1	3347	B GEN 81
623				BCE		Q 1	3348	B GEN 81

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SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
624				BCE		Q	1	3349	B	GEN	81
625	5	33		B	FMAIN	Q	4	3350	B Z28		81
626	5	34		B	RD2	Q	4	3354	B C16		81
627	5	35	WTM	MLNS	FMTZON, *&4	Q	7	3358	D J36 C68		82
628	5	36		WTM	0	Q	5	3365	U %U0 M		82
629	5	37		NOP	4003	Q	4	3370	N 00T		82
630	5	38		H		Q	1	3374	.		82
631	5	39	WT2	CS	332	Q	4	3375	/ 332		82
632	5	40		CS		Q	1	3379	/		82
633	5	41		B	FMAIN	Q	4	3380	B Z28		82
634	5	42	TPCMND	MLNS	FMTZON, IO&3	Q	7	3384	D J36 D37		83
635	5	43		MLC	@R@, IO&7	Q	7	3391	M 25Z D41		83
636	5	44		ZA	@R@, POINT	Q	7	3398	? 25Z 23S		83
637	5	45		BW	SVGMK, INSW	Q	8	3405	V D27 23V 1		83
638	5	46		MLC	@W@, IO&7	Q	7	3413	M 26| D41		83
639	5	47		A	&41, POINT	Q	7	3420	A 26S 23S		84
640	5	48	SVGMK	MLCWA	GMK, 333	Q	7	3427	L 26Z 333		84
641	5	49	IO	RT	0, 0&X3	Q	8	3434	M %U0 0?0 R		84
642	5	50		MLCWA	FORMAT, 333	Q	7	3442	L W97 333		84
643	5	51		BER	TPERR	Q	5	3449	B E91 L		84
644	5	52		BCE	CMBCK, IO&7, R	Q	8	3454	B C25 D41 R		85
645	5	53		BEF	WTM	Q	5	3462	B C58 K		85
646	5	54		B	WT2	Q	4	3467	B C75		85
647	5	55	PRINT	CS	333	Q	4	3471	/ 333		85
648	5	56		CS		Q	1	3475	/		85
649	5	57		B	FMAIN	Q	4	3476	B Z28		85
650	5	58	PRZRO	BCE	DOPRT, 200, BLANK	Q	8	3480	B E05 200		85
651	5	59		BCE	SPACE, 200, 0	Q	8	3488	B E20 200 0		86
652	5	60		MN	200, *&2	Q	7	3496	D 200 E04		86
653	5	61		CC	0	Q	2	3503	F 0		86
654	5	62	DOPRT	W		Q	1	3505	2		86
655	5	63		BCV	*&5	Q	5	3506	B E15 @		86
656	5	64		B	PRINT	Q	4	3511	B D71		86
657	5	65		CCB	PRINT, 1	Q	5	3515	F D71 1		86
658	5	66	SPACE	CCB	DOPRT, J	Q	5	3520	F E05 J		87
659	5	67	PUNCH	MLC	@281@, TUMUCH	Q	7	3525	M 26V 23Y		87
660	5	68		CS	FMAIN, 285	Q	7	3532	/ Z28 285		87
661	5	69		SW	200	Q	4	3539	, 200		87
662	5	70		LCA	279, 180	Q	7	3543	L 279 180		87
663	5	71		P		Q	1	3550	4		87
664	5	72		SSB	PUNCH, 4	Q	5	3551	K E25 4		87
665	5	73	READC	CS	80	Q	4	3556	/ 080		88
666	5	74		MLC	@281@, TUMUCH	Q	7	3560	M 26V 23Y		88
667	5	75		SW	1, INSW	Q	7	3567	, 001 23V		88
668	5	76	ONE	R		Q	1	3574	1		88
669	5	77		LCA	80, 279	Q	7	3575	L 080 279		88
670	5	78		SSB	FMAIN, 1	Q	5	3582	K Z28 1		88
671	5	79		B	READC	Q	4	3587	B E56		88
672	5	80	TPERR	MLNS	FMTZON, BSPTP&3	Q	7	3591	D J36 F08		89
673	5	81		MLNS	FMTZON, SKP&3	Q	7	3598	D J36 F21		89

OBJECT TIME FORMAT						5054C		PAGE		14	
SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
674	5	82	BSPTP	BSP	0	Q	5	3605	U %U0 B		89
675	5	83		BCE	*&6,IO&7,R	Q	8	3610	B F23 D41 R		89
676	5	84	SKP	SKP	0	Q	5	3618	U %U0 E		89
677	5	85		S	ONE,POINT	Q	7	3623	S E74 23S		89
678	5	86		BWZ	SVGMK,POINT,B	Q	8	3630	V D27 23S B		90
679	5	87		NOP	1111	Q	4	3638	N /11		90
680	5	88		H		Q	1	3642	.		90
681	5	89		B	TPCMND	Q	4	3643	B C84		90
682	5	90		DCW	@E@	Q	1	3647			90
683	5	91		DCW	@ @	Q	1	3648			90
684	5	92	ECON	DCW	00	Q	2	3650			90
685	5	93	INEFI	SW	0&X3	Q	4	3651	, 0?0		91
686	5	94		MLC	X1,URZRO&6	Q	7	3655	M 089 14W		91
687	5	95		MLC	X3,X1	Q	7	3662	M 099 089		91
688	5	96		A	WD,X1	Q	7	3669	A 0!6 089		91
689	5	97		BCE	OUTQ,0&X2,I	Q	8	3676	B F99 0!0 I		91
690	5	98		BCE	OUTQA,0&X2,A	Q	8	3684	B 39| 0!0 A		92
691	5	99		A	D,X1	Q	7	3692	A 0!9 089		92
692	6	00	OUTQ	SW	0&X1	Q	4	3699	, 0|0		92
693	6	01		SBR	MRWM&3,0&X1	Q	7	3703	H 15Y 0|0		92
694	6	02		AFLTW	S,FLTWD	Q				MACRO	
695				S		Q	1	3710	S	GEN	92
696				DC	@;0@ 11-6-8,0	Q	2	3712		GEN	92
697				DC	0	Q	1	3713		GEN	92
698	6	03		S		Q	1	3714	S		92
699	6	04	SCNBL	BCE	BLANK, 0&X3,	Q	8	3715	B G62 0?0		92
700	6	05		MLZS	MINUS,ZAFLT	Q	7	3723	Y G46 06S		93
701	6	06		BCE	KILL,0&X3,-	Q	8	3730	B G78 0?0 -		93
702	6	07		BCE	KILL,0&X3,@	Q	8	3738	B G78 0?0 @		93
703	6	08	MINUS	ZS	ZAFLT	Q	4	3746	! 06S		93
704	6	09		BCE	KILL,0&X3,&	Q	8	3750	B G78 0?0 &		93
705	6	10		B	MV2WK	Q	4	3758	B G86		93
706	6	11	BLANK	BW	URZRO-8,1&X3	Q	8	3762	V 13S 0?1 1		94
707	6	12		B	SBRX3	Q	4	3770	B J37		94
708	6	13		B	SCNBL	Q	4	3774	B G15		94
709	6	14	KILL	SW	1&X3	Q	4	3778	, 0?1		94
710	6	15		B	SBRX3	Q	4	3782	B J37		94
711	6	16	MV2WK	BCE	INI, 0&X2, I	Q	8	3786	B B67 0!0 I		94
712	6	17		BFIXW	SBR,089,FIXWD,-1	Q				MACRO	
713				SBR		Q	1	3794	H	GEN	94
714				DC	089	Q	3	3797		GEN	94
715				DC	@_0@ 11-7-8,0	Q	2	3799		GEN	94
716				DC	-1	Q	1	3800		GEN	94
717	6	18		BFLTW	MLZS,NOZN,FLTWD,-2	Q				MACRO	
718				MLZS		Q	1	3801	Y	GEN	95
719				DC	NOZN	Q	3	3804	B62	GEN	95
720				DC	@;0@ 11-6-8,0	Q	2	3806		GEN	95
721				DC	-2	Q	1	3807		GEN	95
722	6	19		CW	SIGSW#1,SWB#1	Q	7	3808) 26W 26X		95
723	6	20		CW	SWA#1	Q	4	3815) 26Y		95

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SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX CT	LOCN	INSTRUCTION TYPE CARD
724	6	21		S	XPN	Q	4 3819	S 22T 95
725	6	22		BCE	ABEGN,0&X2,A	Q	8 3823	B 28| 0!0 A 95
726	6	23		B	LEWP2	Q	4 3831	B H81 95
727	6	24	PYNT1	SBR	POINT,0&X3	Q	7 3835	H 23S 0?0 96
728	6	25		SW	SWA	Q	4 3842	, 26Y 96
729	6	26		BW	LEWP, SIGSW Q. DATA NOT FRACTIONAL	Q	8 3846	V H61 26W 1 96
730	6	27		SBR	POINT, 1&X3	Q	7 3854	H 23S 0?1 96
731	6	28	LEWP	BW	OVR,1&X3	Q	8 3861	V 04X 0?1 1 96
732	6	29		BCE	OVR,1&X3, BLANK	Q	8 3869	B 04X 0?1 97
733	6	30		B	SBRX3	Q	4 3877	B J37 97
734	6	31	LEWP2	BCE	PYNT1,0&X3,.	Q	8 3881	B H35 0?0 . 97
735	6	32		C	0&X3,ZERO4-3	Q	7 3889	C 0?0 B63 97
736	6	33		BL	MVDIG	Q	5 3896	B 16T T 97
737	6	34		BH	QFTYP	Q	5 3901	B I18 U 97
738	6	35		BW	MVDIG, SIGSW Q. SIGNIFICANT ZERO	Q	8 3906	V 16T 26W 1 98
739	6	36		B	LEWP	Q	4 3914	B H61 98
740	6	37	QFTYP	BCE	FHLT,0&X2,F	Q	8 3918	B I71 0!0 F 98
741	6	38		SBR	END,4&X3	Q	7 3926	H 22W 0?4 98
742	6	39		MLZS	PLUS,ZAEXP	Q	7 3933	Y I76 03W 98
743	6	40		BCE	PROCE, 0&X3, E	Q	8 3940	B I80 0?0 E 99
744	6	41	ZOND	MZ	0&X3, ZAEXP	Q	7 3948	Y 0?0 03W 99
745	6	42		FBCEQ	GRAB, 0&X3, &,-	Q		MACRO
746				BCE	GRAB, 0&X3, &	Q	8 3955	B 01S 0?0 & GEN 99
747				BCE	GRAB, 0&X3, -	Q	8 3963	B 01S 0?0 - GEN 99
748	6	43	FHLT	NOP	1121 ERROR HALT DATA IS WRONG	Q	4 3971	N /21 99
749	6	44		H	MODE	Q	1 3975	. 99
750	6	45	PLUS	B	FHLT	Q	4 3976	B I71 100
751	6	46	PROCE	BWZ	HERE,1&X3,2	Q	8 3980	V I96 0?1 2 100
752	6	47		B	SBRX3	Q	4 3988	B J37 100
753	6	48		B	ZOND	Q	4 3992	B I48 100
754	6	49	HERE	BCE	*&5,1&X3, BLANK	Q	8 3996	B 00Y 0?1 100
755	6	50		B	*&5	Q	4 4004	B 01S 100
756	6	51		B	SBRX3	Q	4 4008	B J37 100
757	6	52	GRAB	SW	1&X3	Q	4 4012	, 0?1 101
758	6	53	MV2WM	BW	ZAEXP, 2&X3	Q	8 4016	V 03W 0?2 1 101
759	6	54		BCE	ZAEXP,2&X3, BLANK	Q	8 4024	B 03W 0?2 101
760	6	55		SBR	X3	Q	4 4032	H 099 101
761	6	56	ZAEXP	ZA	1&X3, XPN	Q	7 4036	? 0?1 22T 101
762	6	57		B	ZAFILT	Q	4 4043	B 06S 101
763	6	58	OVR	BCE	FHLT, 0&X2, E	Q	8 4047	B I71 0!0 E 102
764	6	59		SBR	END, 1&X3	Q	7 4055	H 22W 0?1 102
765	6	60	ZAFILT	AFLTW	ZA,FLTWD,-2	Q		MACRO
766			ZAFILT	ZA		Q	1 4062	? GEN 102
767				DC	@;0@ 11-6-8,0	Q	2 4064	GEN 102
768				DC	-2	Q	1 4065	GEN 102
769	6	61		BW	*&5, SIGSW	Q	8 4066	V 07Y 26W 1 102
770	6	62		B	URZRO	Q	4 4074	B 14| 102
771	6	63		BW	NOSWT, SWA A. ACTUAL DECIMAL PT. IN DATA	Q	8 4078	V 10| 26Y 1 102
772	6	64		S	D, END	Q	7 4086	S 0!9 22W 103
773	6	65		ZA	END, POINT	Q	7 4093	? 22W 23S 103

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
774	6	66	NOSWT	S	POINT, MSD	Q	7	4100	S 23S 22Z		103
775	6	67		A	PCTR, XPN	Q	7	4107	A L27 22T		103
776	6	68		ZS	MSD	Q	4	4114	! 22Z		103
777	6	69		A	MSD, XPN	Q	7	4118	A 22Z 22T		103
778	6	70		BFLTW	ZA, XPN, FLTWD	Q				MACRO	
779				ZA		Q	1	4125	?	GEN	104
780				DC	XPN	Q	3	4128	22T	GEN	104
781				DC	@;0@ 11-6-8,0	Q	2	4130		GEN	104
782				DC	0	Q	1	4131		GEN	104
783	6	71		BCE	INI, 0&X2, I	Q	8	4132	B B67 0!0 I		104
784	6	72	URZRO	AFLTW	MLC, FLTWD, ,XXX	Q				MACRO	
785			URZRO	MLC		Q	1	4140	M	GEN	104
786				DC	@;0@ 11-6-8,0	Q	2	4142		GEN	104
787				DC	0	Q	1	4143		GEN	104
788				DC	XXX	Q	3	4146	000	GEN	104
789	6	73		LCA		Q	1	4147	L		104
790	6	74		MLC	MRWM&3, X3	Q	7	4148	M 15Y 099		104
791	6	75	MRWM	CW	XXX	Q	4	4155	) 000		104
792	6	76		B	FINSI	Q	4	4159	B A54		104
793	6	77	MVDIG	BW	*&12, SIGSW	Q	8	4163	V 18S 26W 1		105
794	6	78		SBR	MSD, 0&X3	Q	7	4171	H 22Z 0?0		105
795	6	79		SW	SIGSW	Q	4	4178	, 26W		105
796	6	80		BW	LEWP, SWB	Q	8	4182	V H61 26X 1		105
797	6	81		MN	0&X3, 2&X1	Q	7	4190	D 0?0 0|2		105
798	6	82		SBR	X1	Q	4	4197	H 089		105
799	6	83		SW	SWB	Q	4	4201	, 26X		106
800	6	84		BCE	LEWP, 4&X1, }	Q	8	4205	B H61 0|4 }	GMARK	106
801	6	85		CW	SWB	Q	4	4213	) 26X		106
802	6	86		B	LEWP	Q	4	4217	B H61		106
803	6	87	XPN	DCW	#3	Q	3	4223			106
804	6	88	END	DCW	#3	Q	3	4226			106
805	6	89	MSD	DCW	#3	Q	3	4229			106
806	6	90	POINT	DCW	#3	Q	3	4232			107
807	6	91	FIVE	DCW	@5@	Q	1	4233			107
808	6	92	LKHED	DC	#1	Q	1	4234			107
809	6	93		LTORG	*	Q			4235		
			INSW Q	DCW	#01	Q	1	4235		AREA	107
			TUMUCH	DCW	#03	Q	3	4238		AREA	107
			BUCKTQ	DCW	#03	Q	3	4241		AREA	107
			GMKHDQ	DCW	#01	Q	1	4242		AREA	107
			GMKSWQ	DCW	#01	Q	1	4243		AREA	107
			RTPA Q	DCW	#03	Q	3	4246		AREA	108
			SAVE1Q	DCW	#03	Q	3	4249		AREA	108
			RPTB Q	DCW	#03	Q	3	4252		AREA	108
				DCW	@0.0@	Q	3	4255		LIT	108
				DCW	@ X @	Q	3	4258		LIT	108
				DCW	@R@	Q	1	4259		LIT	108
				DCW	@W@	Q	1	4260		LIT	108
				DCW	&41	Q	2	4262		LIT	109
				DCW	@281@	Q	3	4265		LIT	109

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
			SIGSWQ	DCW	#01	Q	1	4266		AREA	109
			SWB	Q DCW	#01	Q	1	4267		AREA	109
			SWA	Q DCW	#01	Q	1	4268		AREA	109
810	5	94	GMK	DCW	@}@	Q	1	4269		GMARK	109
811	6	95	W	EQU	6&X2	Q		0006	X		
812	6	96	WD	EQU	6&X2	Q		0006	X		
813	6	97	D	EQU	9&X2	Q		0009	X		
814	6	98	XXX	EQU	0	Q		0000			
815	6	99	XL1	EQU	089	Q		0089			
816	7	00	XL2	EQU	094	Q		0094			
817	7	01	XL3	EQU	099	Q		0099			
818	7	02	OBLIST	EQU	912	Q		0912			
819	7	03	CEXIT	EQU	988	Q		0988			
820	7	04		XFR	CWFIO	Q			B 982		110

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
821	7	05		JOB	A FORMAT	Q					
822	7	06		ORG	4280	Q			4280		
823	7	07	ABEGN	BW	*&12,SIGSW	Q	8	4280	V 29Z 26W 1		113
824	7	08		SBR	MSD,0&X3	Q	7	4288	H 22Z 0?0		113
825	7	09		SW	SIGSW	Q	4	4295	, 26W		113
826	7	10		BW	LEWPA,SWB	Q	8	4299	V 34/ 26X 1		113
827	7	11		MN	0&X3,2&X1	Q	7	4307	D 0?0 0|2		113
828	7	12		MZ	0&X3,2&X1	Q	7	4314	Y 0?0 0|2		114
829	7	13		SBR	X1	Q	4	4321	H 089		114
830	7	14		SW	SWB	Q	4	4325	, 26X		114
831	7	15		BCE	LEWPA,4&X1,}	Q	8	4329	B 34/ 0|4 }	GMARK	114
832	7	16		CW	SWB	Q	4	4337	) 26X		114
833	7	17	LEWPA	BW	OVRA,1&X3	Q	8	4341	V 35X 0?1 1		114
834	7	18		B	SBRX3	Q	4	4349	B J37		114
835	7	19		B	ABEGN	Q	4	4353	B 28|		115
836	7	20	OVRA	SBR	END,1&X3	Q	7	4357	H 22W 0?1		115
837	7	21		MCW	URZRO&6,NEXTA&6	Q	7	4364	M 14W 37X		115
838	7	22	NEXTA	MCW	0,0	Q	7	4371	M 000 000		115
839	7	23		LCA		Q	1	4378	L		115
840	7	24		MLC	MRWM&3,X3	Q	7	4379	M 15Y 099		115
841	7	25		B	FINSI	Q	4	4386	B A54		115
842	7	26	OUTQA	BFLTW	MCW,BLK3,FLTWD	Q				MACRO	
843			OUTQA	MCW		Q	1	4390	M	GEN	116
844				DC	BLK3	Q	3	4393	57X	GEN	116
845				DC	@;0@ 11-6-8,0	Q	2	4395		GEN	116
846				DC	0	Q	1	4396		GEN	116
847	7	27		BFLTW	MCW,BLK20,FLTWD,-2	Q				MACRO	
848				MCW		Q	1	4397	M	GEN	116
849				DC	BLK20	Q	3	4400	59X	GEN	116
850				DC	@;0@ 11-6-8,0	Q	2	4402		GEN	116
851				DC	-2	Q	1	4403		GEN	116
852	7	28		SW	0&X1	Q	4	4404	, 0|0		116
853	7	29		SBR	MRWM&3,0&X1	Q	7	4408	H 15Y 0|0		116
854	7	30		B	MV2WK	Q	4	4415	B G86		116
855	7	31	AOUT	MCW	EFOUT&6,NEXA&6	Q	7	4419	M N01 43S		116
856	7	32	NEXA	MCW	0,0	Q	7	4426	M 000 000		117
857	7	33		MCW		Q	1	4433	M		117
858	7	34		SBR	X1	Q	4	4434	H 089		117
859	7	35		SBR	TEMPX1#3,1&X1	Q	7	4438	H 60T 0|1		117
860	7	36		SBR	TEMPX3#3,0&X3	Q	7	4445	H 60W 0?0		117
861	7	37		MA	6&X2,TEMPX3	Q	7	4452	# 0!6 60W		117
862	7	38		SBR	TEMP32,1&X3	Q	7	4459	H 60| 0?1		118
863	7	39		MCW	NEXA&6,TFLTWD#3	Q	7	4466	M 43S 60Z		118
864	7	40		MA	@I9H@,TFLTWD	Q	7	4473	# 6!S 60Z		118
865	7	41	MOVNUM	MN	1&X1,2&X3	Q	7	4480	D 0|1 0?2		118
866	7	42		MZ	1&X1,2&X3	Q	7	4487	Y 0|1 0?2		118
867	7	43		C	TEMP32,TEMPX3	Q	7	4494	C 60| 60W		119
868	7	44		BE	FINI1	Q	5	4501	B 55| S		119
869	7	45		C	TEMPX1,TFLTWD	Q	7	4506	C 60T 60Z		119
870	7	46		BE	FINI1	Q	5	4513	B 55 S		119

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SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
871	7	47		MA	@001@,TEMPX1	Q	7	4518	# 61V 60T		119
872	7	48		MA	@001@,TEMP32	Q	7	4525	# 61V 60|		119
873	7	49		SBR	X1,1&X1	Q	7	4532	H 089 0|1		120
874	7	50		SBR	X3,1&X3	Q	7	4539	H 099 0?1		120
875	7	51		B	MOVNUM	Q	4	4546	B 48|		120
876	7	52	FINI1	SBR	FINS&7,0&X3	Q	7	4550	H A53 0?0		120
877	7	53		MCW	TEMPX3,X3	Q	7	4557	M 60W 099		120
878	7	54		SBR	X3,2&X3	Q	7	4564	H 099 0?2		120
879	7	55		B	FINS	Q	4	4571	B A46		121
880	7	56	BLK3	DCW	#3	Q	3	4577			121
881	7	57	BLK20	DCW	#20	Q	20	4597			121
882	7	58	TEMP32	DCW	@ @	Q	3	4600			121
883	7	59		LTORG	*	Q			4601		
			TEMPX1	DCW	#03	Q	3	4603		AREA	121
			TEMPX3	DCW	#03	Q	3	4606		AREA	121
			TFLTWD	DCW	#03	Q	3	4609		AREA	121
				DCW	@I9H@	Q	3	4612		LIT	122
				DCW	@001@	Q	3	4615		LIT	122
884	7	60	GM54D	DCW	@}@	Q	1	4616		GMARK	122
885	7	61		XFR	CWAF	Q			B |51		123
886	7	62	*								
887	7	63	**		PLACE PRECEDING CARDS BETWEEN PHASES 53 AND 55						
888	7	64	*								
889	7	65		END		Q			/ 000 080		

SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS
ABEGNQ	4280	ADDR Q	2008	ALRDYQ	2031	AOUT Q	4419	ARRAVQ	3166	ARRTNQ	2109	ATESTQ	1005
BACK Q	2910	BBACKQ	1234	BLANKQ	3762	BLK20Q	4597	BLK3 Q	4577	BRHI Q	2792	BSPTPQ	3605
BUCKTQ	4241	CDAF Q	1047	CDLIOQ	1026	CDSYSQ	949	CEXITQ	988	CKOVFQ	2808	CLEARQ	3240
CLSPRQ	2185	CMBCKQ	3325	COUNTQ	2010	CWAF Q	1051	CWFIOQ	982	CWLIOQ	1030	CWMKSQ	3138
D Q	9+X2	DCRPBQ	2396	DECRAQ	2189	DOPRTQ	3505	ECON Q	3650	EFNTNQ	2439	EFOUTQ	2495
EFTI Q	2549	EJBOXQ	2271	ELL Q	2079	END Q	4226	EOJ1 Q	2223	EXIT Q	2934	EXITAQ	1141
FHLT Q	3971	FINI1Q	4550	FINS Q	3146	FINSIQ	3154	FIVE Q	4233	FMAINQ	1928	FMTXTQ	2132
FMTZON	2136	FOMATQ	934	FORMAT	1697	FOVFLQ	2674	FTYP Q	2704	FULIOQ	1088	GETADQ	1943
GETW Q	2385	GM54DQ	4616	GMK Q	4269	GMKHDQ	4242	GMKSWQ	4243	GMWM Q	1253	GPWDMK	2015
GRAB Q	4012	GTRTNQ	2431	GTXT Q	2003	HERE Q	3996	HLOUTQ	2340	HLTGOQ	3307	HOLINQ	2347
HOLLRQ	2328	INEFIQ	3651	INI Q	3267	INOTNQ	2833	INSW Q	4235	INTEGQ	2728	IO Q	3434
IO1 Q	1745	IO12 Q	1752	IO15 Q	1774	IO2 Q	1799	IO3 Q	1813	IO4 Q	1848	IO5 Q	1873
JOE4 Q	2894	JUMPFQ	2993	KILL Q	3778	LAST1Q	2204	LEWP Q	3861	LEWP2Q	3881	LEWPAQ	4341
LIST Q	1962	LKHEDQ	4234	LOC Q	1999	LOOP2Q	1832	MCS Q	3187	MDIG Q	3044	MINUSQ	3746
MLBOXQ	1968	MONTER	700	MONTOR	769	MOVNUM	4480	MRWM Q	4155	MSD Q	4229	MV2WKQ	3786
MV2WMQ	4016	MVAGNQ	1855	MVDATQ	2865	MVDIGQ	4163	NDLINQ	2208	NEGX Q	2766	NEXA Q	4426
NEXTAQ	4371	NOPBRQ	2298	NOPSWQ	2243	NOSWTQ	4100	NOZN Q	3262	NTESTQ	970	NTRAYQ	2046
OBLIST	912	OK1 Q	2797	ONE Q	3574	OPNPRQ	2152	OUT Q	1897	OUTPTQ	2219	OUTQ Q	3699
OUTQAQ	4390	OVFEXQ	2829	OVR Q	4047	OVR1 Q	3082	OVR9SQ	3195	OVRA Q	4357	PARAMA	686
PCTR Q	2327	PLUS Q	3976	POINTQ	4232	PRINTQ	3471	PROCEQ	3980	PRZROQ	3480	PUNCHQ	3525
PYNT1Q	3835	QFTYPQ	3918	RD2 Q	3316	RDITPQ	3312	RDRTBQ	1916	RDRTNQ	1912	RDAPQ	1738
READCQ	3556	REPEAT	2306	RET Q	1895	RMVZNQ	1973	RPTB Q	4252	RTPA Q	4246	RWT31Q	1921
RWT41Q	1960	RWT77Q	1976	RWT78Q	1983	SAVCHQ	2009	SAVE Q	2952	SAVE1Q	4249	SAVE2Q	1996
SAVX3Q	1992	SBRX3Q	2137	SCALEQ	2310	SCNBLQ	3715	SIGSWQ	4266	SKAIOQ	1013	SKFIOQ	1034
SKLIOQ	957	SKP Q	3618	SKPAFQ	1128	SKPF Q	1177	SKPL Q	1067	SPACEQ	3520	STARTQ	1697
STARTR	934	SVGMKQ	3427	SWA Q	4268	SWB Q	4267	TCLEAR	710	TEMP32	4600	TEMPX1	4603
TEMPX3	4606	TESTHQ	2332	TFLTWD	4609	TPAF Q	1194	TPCMND	3384	TPER Q	1211	TPERRQ	3591
TPLIOQ	1164	TPSYSQ	1059	TSTAFQ	1120	TUMUCH	4238	UNDUNQ	2007	UPX1 Q	2629	URZROQ	4140
W Q	6+X2	WD Q	6+X2	WRTAPQ	1910	WT2 Q	3375	WTM Q	3358	X1 Q	89	X2 Q	94
X3 Q	99	XL1 Q	89	XL2 Q	94	XL3 Q	99	XPN Q	4223	XXX Q	0	ZAEXPQ	4036
ZAFLTQ	4062	ZERO4Q	3266	ZOND Q	3948								