

```
CLEAR STORAGE 1      ,008015,022026,030037,044,049,053053N000000N00001026      1
CLEAR STORAGE 2      L068116,105106,110117B101/I9I#071029C029056B026/B001/0991,001/0011117I0?  2
BOOTSTRAP            ,008015,022029,036040,047054,061068,072/061039      ,0010011040      3
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FORTRAN COMPILER -- NORMAL FORMAT -- PHASE 54C PAGE 1

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
101			JOB		FORTRAN COMPILER -- NORMAL FORMAT -- PHASE 54C						
102			CTL		6611						
103			*								
104			*		NORMAL FORMAT ROUTINE						
105			*								
106			*		FOR EACH INPUT-OUTPUT STATEMENT, AN ENTRY TO THE FORMAT						
107			*		ROUTINE IS COMPILED. FOLLOWING THIS APPEARS:						
108			*		1. A CODE INDICATING THE APPROPRIATE I/O DEVICE;						
109			*		& IS READ, - IS PUNCH, * IS PRINT, OTHERWISE DIGIT PART						
110			*		IS TAPE NUMBER AND NO ZONE IS READ TAPE, A ZONE IS WRITE						
111			*		TAPE, B ZONE IS READ INPUT TAPE, AB ZONE IS WRITE OUTPUT						
112			*		TAPE;						
113			*		2. THE ADDRESS OF A SERIES OF INSTRUCTIONS (FORMAT STRING)						
114			*		WHICH DETERMINES THE ARRANGEMENT OF THE DATA (COMPILED						
115			*		FROM THE REFERENCED FORMAT STATEMENT); AND						
116			*		3. THE ADDRESS OF THE SPECIFIED LIST OF DATA (LIST STRING).						
117			*								
118			*		THE FORMAT STRING CONSISTS OF						
119			*		1. BRANCHES TO APPROPRIATE CLOSED SUBROUTINES OF THE FORMAT						
120			*		ROUTINE,						
121			*		2. PARAMETERS DESCRIBING THE DATA WHICH ARE NEEDED BY THESE						
122			*		SUBROUTINES,						
123			*		3. THE DATA ITSELF (H-CONVERSION FIELDS), AND						
124			*		4. CERTAIN REGISTER-UPDATING INSTRUCTIONS.						
125			*								
126			X1	EQU	89				0089		
127			X2	EQU	94				0094		
128			X3	EQU	99				0099		
129			*								
130			*		ADDRESS IN FORMAT LOADER						
131			*								
132			NRET	EQU	982				0982		
133			*								
134			*		ADDRESS IN FUNCTION LOADER						
135			*								
136			LISENT	EQU	912				0912		
137			*								
138			*		RUNTIME ADDRESSES						
139			*								
140			SNAPSH	EQU	333				0333		
141			MANWID	EQU	837				0837		
142			*								
143			ORG		1697					1697	
144	1	697	BEGINN	SBR	X1	4	1697	H	089		4
145	1	701		MCW	0&X1,UNIT	7	1701	M	0|0 J36		4
146	1	708		MCW	*-6,TAPE ASSUME TAPE I/O WITHOUT WORD MARKS	7	1708	M	X08 D34		4
147	1	715		SBR	RELENT&3,7&X1	7	1715	H	J35 0|7		4

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	1	722		MCW	6&X1,LSTPOS	7		1722	M 0|6 Z68		4
149	1	729		ZA	*-6,A12K	7		1729	? X29 L27		4
150	1	736		CW	RDFLAG START BY ASSUMING WRITE	4		1736	) 23V		5
151	1	740		SW	GMWM	4		1740	, 26Z		5
152	1	744		MCW	3&X1,X2	7		1744	M 0|3 094		5
153	1	751		SBR	X3,200	7		1751	H 099 200		5
154	1	758		SBR	ENDREC,334	7		1758	H 23Y 334		5
155	1	765		BCE	READCD,0&X1,& READ CARD	8		1765	B E56 0|0 &		5
156	1	773		BCE	PUNCH,0&X1,- PUNCH	8		1773	B E25 0|0 -		6
157	1	781		BCE	CLEARP,0&X1,* PRINT	8		1781	B D71 0|0 *		6
158	1	789		BM	RDTAPE,0&X1 READ TAPE FORMATTED	8		1789	V C12 0|0 K		6
159	1	797		BWZ	CLEARW,0&X1,B WRITE TAPE FORMATTED	8		1797	V C75 0|0 B		6
160	1	805		SBR	X2,GETWM	7		1805	H 094 Z16		6
161	1	812		CS	332	4		1812	/ 332		7
162	1	816		CS		1		1816	/		7
163	1	817		CS		1		1817	/		7
164	1	818		SBR	X3,100	7		1818	H 099 100		7
165	1	825		MCW	LCA,TAPE TAPE I/O WITH WORD MARKS	7		1825	M !79 D34		7
166	1	832		SW	0&X3	4		1832	, 0?0		7
167	1	836		B	1943	4		1836	B Z43		7
168	1	840		BWZ	RDTAPE,UNIT,2	8		1840	V C12 J36 2		8
169	1	848		SBR	RECPOS,100	7		1848	H 24/ 100		8
170				*							
171				*	FIND THE RIGHT-HAND (HIGHER CORE ADDRESS) OF A HOLLERITH						
172				*	FIELD WITH A LEFT-HAND END HAVING A WORD MARK, AS IT IS						
173				*	MOVED TO THE OUTPUT BUFFER.						
174				*							
175	1	855	CHARS	MCW	0&X1,0&X3	7		1855	M 0|0 0?0		8
176	1	862		SAR	X2	4		1862	Q 094		8
177	1	866		B	INCX3	4		1866	B J37		8
178	1	870		BW	*&5,1&X2	8		1870	V Y82 0!1 1		8
179	1	878		B	CHARS	4		1878	B Y55		9
180	1	882		B	CHKLEN	4		1882	B Q08		9
181	1	886		SBR	2222,REDOIO	7		1886	H K22 C84		9
182	1	893		B	1832	4		1893	B Y32		9
183				*							
184				*	MOVE A FIELD TO THE OUTPUT BUFFER						
185				*							
186	1	897	GOTWM	B	CHKLEN	4		1897	B Q08		9
187	1	901		LCA	0&X3,0&X1	7		1901	L 0?0 0|0		9
188	1	908		B	1943	4		1908	B Z43		9
189	1	912	GETWML	B	INCX3 GET X3 UP TO	4		1912	B J37		10
190	1	916	GETWM	BW	GOTWM,1&X3 ONE BELOW NEXT WM	8		1916	V Y97 0?1 1		10
191	1	924		B	GETWML	4		1924	B Z12		10
192				*							
193	1	928		SBR	2222	4		1928	H K22		10
194	1	932		MCW	X3,RECPOS	7		1932	M 099 24/		10
195	1	939		B	0&X2	4		1939	B 0!0		10
196				*							
197	1	943		SBR	2006	4		1943	H !06		10

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
198	1	947		MCW	X2,SX2&6	7		1947	M 094 !02		11
199	1	954		BW	2031,FLAG	8		1954	V !31 23U 1		11
200	1	965		T	LISENT	4		1962	T 912		11
201	1	968	LSTPOS	DCW	#3 POSITION IN I/O LIST	3		1968			11
202	1	969		SBR	X2	4		1969	H 094		11
203	1	973		MZ	NOZONE,X1-1	7		1973	Y B62 088		11
204	1	980		BCE	2046,X1,.	8		1980	B !46 089 .		12
205	1	988		BCE	2007,X1,	8		1988	B !07 089		12
206	1	996	SX2	SBR	X2,0	7		1996	H 094 000		12
207	2	003		B	0	4		2003	B 000		12
208			*								
209	2	007		BW	RELENT,RDFLAG	8		2007	V J32 23V 1		12
210	2	015		C	RECPOS,X3	7		2015	C 24/ 099		13
211	2	022		BU	2208	5		2022	B K08 /		13
212	2	027		B	RELENT	4		2027	B J32		13
213	2	031		CW	FLAG	4		2031	) 23U		13
214	2	035		MCW	SX1,X1	7		2035	M 24Z 089		13
215	2	042		B	1973	4		2042	B Z73		13
216			*								
217	2	046		MCW	2&X2,X3	7		2046	M 0!2 099		13
218	2	053		MCW	5&X2,X1	7		2053	M 0!5 089		14
219	2	060		MCW	1&X1,CH	7		2060	M 0!1 24S		14
220	2	067		BW	LCA,1&X1	8		2067	V !79 0!1 1		14
221	2	075		CW	WMFLAG	4		2075	) 24T		14
222	2	079	LCA	LCA	GMWM,1&X1	7		2079	L 26Z 0!1		14
223	2	086		B	INCX3	4		2086	B J37		14
224	2	090		SBR	X2,*&13	7		2090	H 094 J09		15
225	2	097		BWZ	RDTAPE,UNIT,2	8		2097	V C12 J36 2		15
226	2	105		B	REDOIO	4		2105	B C84		15
227	2	109		MCW	CH,1&X1	7		2109	M 24S 0!1		15
228	2	116		BW	RELENT,WMFLAG	8		2116	V J32 24T 1		15
229	2	124		CW	1&X1	4		2124	) 0!1		15
230	2	128		SW	WMFLAG	4		2128	, 24T		16
231	2	132	RELENT	B	0 ENTER HERE FROM RELOCATABLE FUNCTION TABLE	4		2132	B 000		16
232	2	136	UNIT	DCW	#1 TAPE UNIT NUMBER	1		2136			16
233			*								
234			*	INCREMENT	X3 BY 1.						
235			*								
236	2	137	INCX3	SBR	INCX3X&3	4		2137	H J51		16
237	2	141		SBR	X3,1&X3	7		2141	H 099 0?1		16
238	2	148	INCX3X	B	0	4		2148	B 000		16
239			*								
240	2	152		SBR	X2	4		2152	H 094		16
241	2	156		MN	0&X2	4		2156	D 0!0		17
242	2	160		MN		1		2160	D		17
243	2	161		MN		1		2161	D		17
244	2	162		MN		1		2162	D		17
245	2	163		SAR	2309	4		2163	Q L09		17
246	2	167		MCW	2&X2,COUNT	7		2167	M 0!2 24W		17
247	2	174		SBR	2207,3&X2	7		2174	H K07 0!3		17

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
248	2	181		B	*&5	4		2181	B J89		18
249	2	185		SBR	X2	4		2185	H 094		18
250	2	189		S	K1,COUNT	7		2189	S E74 24W		18
251	2	196		BM	0&X2,COUNT	8		2196	V 0!0 24W K		18
252	2	204		B	0	4		2204	B 000		18
253			*								
254	2	208		SBR	X2	4		2208	H 094		18
255	2	212		MCW	RECPOS,X3	7		2212	M 24/ 099		18
256	2	219		B	0	4		2219	B 000		19
257			*								
258	2	223		BW	*&13,RDFLAG	8		2223	V K43 23V 1		19
259	2	231		C	RECPOS,X3	7		2231	C 24/ 099		19
260	2	238		BU	2208	5		2238	B K08 /		19
261	2	243		MCW	LSTPOS,*&7	7		2243	M Z68 K56		19
262	2	250		BCE	2298,0,,	8		2250	B K98 000 ,		19
263	2	258		MCW	LSTPOS,LISTP2	7		2258	M Z68 K71		20
264	2	268		T	LISENT	4		2265	T 912		20
265	2	271	LISTP2	DCW	#3	3		2271			20
266	2	272		BCE	RELENT,X1,	8		2272	B J32 089		20
267	2	280		MCW	LISTP2,LSTPOS	7		2280	M K71 Z68		20
268	2	287		MCW	X1,SX1	7		2287	M 089 24Z		20
269	2	294		SW	FLAG	4		2294	, 23U		21
270	2	298		BW	2208,RDFLAG	8		2298	V K08 23V 1		21
271	2	306		B	0	4		2306	B 000		21
272			*								
273	2	310		SBR	X2	4		2310	H 094		21
274	2	314		ZA	2&X2,A12K	7		2314	? 0!2 L27		21
275	2	321		B	3&X2	4		2321	B 0!3		21
276			*								
277	2	327	A12K	DSA	12000	3		2327	00?		21
278			*								
279			*	COPY	THE ARGUMENT TO THE OUTPUT BUFFER						
280			*								
281	2	328		SBR	X2	4		2328	H 094		22
282	2	332	CPARGL	BW	*&8,RDFLAG	8		2332	V L47 23V 1		22
283	2	340		MCW	0&X2,0&X3	7		2340	M 0!0 0?0		22
284	2	347		MCW	0&X3,0&X2 WHY?	7		2347	M 0?0 0!0		22
285	2	354		B	INCX3	4		2354	B J37		22
286	2	358		SBR	X2,1&X2	7		2358	H 094 0!1		22
287	2	365		BW	*&5,0&X2	8		2365	V L77 0!0 1		23
288	2	373		B	CPARGL	4		2373	B L32		23
289	2	377		B	CHKLEN	4		2377	B Q08		23
290	2	381		B	0&X2	4		2381	B 0!0		23
291			*								
292	2	385		SBR	X2	4		2385	H 094		23
293	2	389		MCW	3&X2,COUNT2	7		2389	M 0!3 25S		23
294	2	396	DEC2	S	K1,COUNT2	7		2396	S E74 25S		23
295	2	403		BWZ	MORE,COUNT2,B STILL POSITIVE?	8		2403	V M31 25S B		24
296	2	411		BCE	7&X2,0&X2,I	8		2411	B 0!7 0!0 I		24
297	2	419		BCE	7&X2,0&X2,A	8		2419	B 0!7 0!0 A		24

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
298	2	427		B	10&X2	4		2427	B 0J0		24
299	2	431	MORE	B	1943	4		2431	B Z43		24
300	2	434		S		1		2435	S		24
301	2	438		DC	@_00@	3		2438			24
302	2	539		SW		1		2439	,		24
303	2	442		DC	@;0J@	3		2442			25
304	2	443		BW	3651,RDFLAG	8		2443	V F51 23V 1		25
305	2	451		CS	24	4		2451	/ 024		25
306	2	455		SW	0&X3	4		2455	, 0?0		25
307	2	459		MN		1		2459	D		25
308	2	460		SBR	X3	4		2460	H 099		26
309	2	464		SBR	SW1&3,2&X3	7		2464	H Q97 0?2		26
310	2	471		SBR	CW2&3	4		2471	H A49		26
311	2	475		SW	1	4		2475	, 001		26
312	2	479		BCE	IFMT,0&X2,I	8		2479	B Q33 0!0 I		26
313	2	487		BCE	AFMT3,0&X2,A	8		2487	B 41Z 0!0 A		26
314	2	495		MCW	0&X1	4		2495	M 0!0		26
315	2	501		DC	@;00@	3		2501			27
316	2	502		MCW		1		2502	M		27
317	2	503		SBR	X1	4		2503	H 089		27
318	2	507		SW	0&X1	4		2507	, 0!0		27
319	2	511		A	6&X2,X3	7		2511	A 0!6 099		27
320	2	518		SBR	CW1&3,2&X3	7		2518	H A45 0?2		28
321	2	525		MCW	KODOT0 0.0	4		2525	M 25V		28
322	2	529		SW	2&X3	4		2529	, 0?2		28
323	2	533		BCE	*&9,1&X1,0	8		2533	B N49 0!1 0		28
324	2	541		V	2674	4		2541	V 074		28
325	2	548		DC	@;0K2@	4		2548			28
326	2	549		BCE	EFMT,0&X2,E	8		2549	B N68 0!0 E		28
327	2	557		A	A12K NOT E FORMAT	4		2557	A L27		29
328	2	563		DC	@;00@	3		2563			29
329	2	564		B	*&8	4		2564	B N75		29
330	2	568	EFMT	S	A12K	4		2568	S L27		29
331	2	574		DC	@;00@	3		2574			29
332	2	575		MN		1		2575	D		29
333	2	578		DC	@;00@	3		2578			29
334	2	581		DC	W2	3		2581	F50		29
335	2	582		MN		1		2582	D		29
336	2	583		MCW		1		2583	M		29
337	2	586		DC	@;00@	3		2586			29
338	2	587		BCE	FFMT1,0&X2,F	8		2587	B P04 0!0 F		29
339	2	595		C	W2,KZ4-2 TWO ZERO DIGITS	7		2595	C F50 B64		30
340	2	602		BE	*&9	5		2602	B 015 S		30
341	2	607		BM	*&8,SAVZON	8		2607	V 022 F48 K		30
342	2	615		MZ	NOZONE,SAVZON	7		2615	Y B62 F48		30
343	2	622		ZA	A12K	4		2622	? L27		30
344	2	628		DC	@;00@	3		2628			30
345	2	629		MN		1		2629	D		30
346	2	633		DC	@;00@	3		2632			30
347	2	635		DC	SBR&6	3		2635	O43		31

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
348	2	636		MN				1	2636	D	31
349	2	637	SBR	SBR	X1,0&X1			7	2637	H 089 0|0	31
350	2	644	ZA	MANWID,W3	MANTISSA WIDTH IN ARITF			7	2644	? 837 23S	31
351	2	651	S	K2,W3	INCLUDES THE EXPONENT WIDTH			7	2651	S E05 23S	31
352	2	658	C	W3				4	2658	C 23S	32
353	2	664	DC	@;00@				3	2664		32
354	2	665	BH	2728				5	2665	B P28 U	32
355	2	670	B	2797				4	2670	B P97	32
356			*								
357	2	674	MCW	KX,2&X3	BLANK X BLANK			7	2674	M 25Y 0?2	32
358	2	681	MCW		0.0			1	2681	M	32
359	2	682	SBR	X3,2&X3				7	2682	H 099 0?2	32
360	2	689	SBR	CW3&3				4	2689	H A53	32
361	2	693	A	9&X2,X3				7	2693	A 0|9 099	33
362	2	700	B	NOOVFL				4	2700	B A38	33
363			*								
364	2	704	FFMT1	BM	2766,SAVZON			8	2704	V P66 F48 K	33
365	2	712	C	6&X2,W2				7	2712	C 0|6 F50	33
366	2	719	BL	2629				5	2719	B 029 T	33
367	2	724	B	2674				4	2724	B 074	33
368			*								
369	2	728	S	23				4	2728	S 023	33
370	2	732	MCM					1	2732	P	34
371	2	738	DC	@_0A001@				6	2738		34
372	2	739	MCW	K24				4	2739	M B66	34
373	2	743	MZ		NOZONE			1	2743	Y	34
374	2	744	MCW	W2,X1				7	2744	M F50 089	34
375	2	751	MCW	K24-3	ONE ZERO DIGIT			4	2751	M B63	34
376	2	755	MCW	GMWM,3&X1				7	2755	M 26Z 0|3	34
377	2	762	B	2797				4	2762	B P97	34
378	2	766	MZ	NOZONE,0&X1				7	2766	Y B62 0|0	35
379	2	773	C	9&X2,W2				7	2773	C 0|9 F50	35
380	2	780	BU	*&8				5	2780	B P92 /	35
381	2	785	C					1	2785	C	35
382	2	788	DC	@_0A@				3	2788		35
383	2	791	DC	K5				3	2791	23T	35
384	2	792	BH	IFMT2				5	2792	B Q65 U	35
385	2	797	MZ					1	2797	Y	35
386	2	800	DC	@;0K@				3	2800		35
387	2	803	DC	@0|0@	0&X1			3	2803		35
388	2	804	B	IFMT2				4	2804	B Q65	36
389			*								
390			*	CHECK RECORD LENGTH							
391			*								
392	2	808	CHKLEN	SBR	CHKLEX&3			4	2808	H Q32	36
393	2	812	C	ENDREC,X3				7	2812	C 23Y 099	36
394	2	819	BL	CHKLEX				5	2819	B Q29 T	36
395	2	824	NOP	3700	SNAPSHOT ROUTINE IS CLOBBERED			4	2824	N G00	36
396	2	828	H					1	2828	.	36
397	2	829	CHKLEX	B	0			4	2829	B 000	36

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
398					*						
399	2	833	IFMT	MCW	0&X1	4		2833	M 0|0		37
400	2	839		DC	@_00@	3		2839			37
401	2	840		A	6&X2,X3	7		2840	A 0!6 099		37
402	2	847		MCW	6&X2,X1	7		2847	M 0!6 089		37
403	2	854		ZA		1		2854	?		37
404	2	857		DC	@_00@	3		2857			37
405	2	860		DC	@0|0@ 0&X1	3		2860			37
406	2	861		B	INCX3	4		2861	B J37		37
407	2	865	IFMT2	MCS	0&X1,0&X3	7		2865	Z 0|0 0?0		37
408	2	872		SBR	SX3&6	4		2872	H R58		38
409	2	876		MN	0&X1,0&X3 AT LEAST SHOW THE LOW ORDER DIGIT	7		2876	D 0|0 0?0		38
410	2	883		SBR	MCS&3,0&X3	7		2883	H A90 0?0		38
411	2	890		SBR	CW3&3	4		2890	H A53		38
412	2	894	SW1	SW	0	4		2894	, 000		38
413	2	898		BM	*&5,0&X1	8		2898	V R10 0|0 K		38
414	2	906		B	SX3	4		2906	B R52		38
415	2	910	GETB	BCE	GOTB,0&X3, FOUND A BLANK?	8		2910	B R34 0?0		39
416	2	918		SBR	X3	4		2918	H 099		39
417	2	922		BW	SX3,1&X3 END OF THE FIELD, NO SIGN	8		2922	V R52 0?1 1		39
418	2	930		B	GETB	4		2930	B R10		39
419	2	934	GOTB	MZ	BZONE,0&X3 SET THE SIGN	7		2934	Y G46 0?0		39
420	2	941		SW	1&X3	4		2941	, 0?1		39
421	2	945		SBR	CW3&3,1&X3	7		2945	H A53 0?1		40
422	2	952	SX3	SBR	X3,111	7		2952	H 099 111		40
423	2	959		BCE	CW2,0&X2,I	8		2959	B A46 0!0 I		40
424	2	967		A	9&X2,X3	7		2967	A 0!9 099		40
425	2	974		BCE	FFMT2,0&X2,F	8		2974	B R93 0!0 F		40
426	2	982		MN	0&X3	4		2982	D 0?0		41
427	2	986		MN		1		2986	D		41
428	2	987		MN		1		2987	D		41
429	2	988		MN		1		2988	D		41
430	2	989		SBR	X3	4		2989	H 099		41
431	2	993	FFMT2	SBR	SX3A&6,1&X3	7		2993	H ?88 0?1		41
432	3	000		S	1&X3	4		3000	S 0?1		41
433	3	004		MN		1		3004	D		42
434	3	005		SAR	X3	4		3005	Q 099		42
435	3	009		BCE	FINDGM,0&X2,E	8		3009	B ?44 0!0 E		42
436	3	017		BWZ	FINDGM,SAVZON,B	8		3017	V ?44 F48 B		42
437	3	025		C	9&X2,W2	7		3025	C 0!9 F50		42
438	3	032		BH	SX3A	5		3032	B ?82 U		42
439	3	037		A	W2,X3	7		3037	A F50 099		43
440	3	044	FINDGM	BCE	SX3A,3&X1,} GM	8		3044	B ?82 0|3 } GMARK		43
441	3	052		MN	1&X1,2&X3	7		3052	D 0|1 0?2		43
442	3	059		SBR	X1,1&X1	7		3059	H 089 0|1		43
443	3	066		BWZ	SX3A,2&X3,B	8		3066	V ?82 0?2 B		43
444	3	074		SBR	X3	4		3074	H 099		44
445	3	078		B	FINDGM	4		3078	B ?44		44
446	3	082	SX3A	SBR	X3,0	7		3082	H 099 000		44
447	3	089		BAV	*&1	5		3089	B ?94 Z		44

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
448	3	094		A	KP5,0&X3	7		3094	A F47 0?0		44
449	3	101		MCW	NOZONE,0&X3	7		3101	M B62 0?0		44
450	3	108		BCE	FFMT3,0&X2,F	8		3108	B A33 0!0 F		45
451	3	116		SBR	X3,4&X3	7		3116	H 099 0?4		45
452	3	123		MN	0&X3	4		3123	D 0?0		45
453	3	127		MCW	W2	4		3127	M F50		45
454	3	131		MZ		1		3131	Y		45
455	3	132		MCW		1		3132	M		45
456	3	133	FFMT3	BAV	OVFL	5		3133	B A66 Z		45
457	3	138	NOOVFL	CW		1		3138	)		46
458	3	141		DC	@_00@	3		3141			46
459	3	142	CW1	CW	0	4		3142	) 000		46
460	3	146	CW2	CW	0	4		3146	) 000		46
461	3	150	CW3	CW	0	4		3150	) 000		46
462	3	154	SW2	SW		1		3154	,		46
463	3	157		DC	@_0A@	3		3157			46
464	3	158		B	CHKLEN	4		3158	B Q08		46
465	3	162		B	DEC2	4		3162	B L96		46
466			*								
467	3	166	OVFL	MCW	CW1&3,X1	7		3166	M A45 089		47
468	3	173		MZ	NOZONE,0&X1	7		3173	Y B62 0!0		47
469	3	180		MCW	DOT	1		3180	M		47
470	3	181		A	ONE	1		3181	A		47
471	3	182		BAV	*&9	5		3182	B A95 Z		47
472	3	187	MCS	MCS	0	4		3187	Z 000		47
473	3	191		B	NOOVFL	4		3191	B A38		47
474	3	195		MN	0&X1	4		3195	D 0!0		48
475	3	199		C		1		3199	C		48
476	3	200		MN		1		3200	D		48
477	3	201		SBR	X1	4		3201	H 089		48
478	3	205		C	CW2&3,X1	7		3205	C A49 089		48
479	3	212		BL	XXFLD	5		3212	B B40 T		48
480	3	217		SW	0&X1	4		3217	, 0!0		48
481	3	221		MCW	1&X1,0&X1	7		3221	M 0!1 0!0		49
482	3	228		CW		1		3228	)		49
483	3	229		MCW	K1,1&X1	7		3229	M E74 0!1		49
484	3	236		B	NOOVFL	4		3236	B A38		49
485	3	240	XXFLD	MCW	1&X3,0&X3 CLEAR THE FIELD	7		3240	M 0?1 0?0		49
486	3	247		MCW		1		3247	M		49
487	3	248		MCW		1		3248	M		49
488	3	249		MCW	KX,3&X1 THEN PUT BLANK X BLANK IN IT	7		3249	M 25Y 0!3		50
489	3	256		B	NOOVFL	4		3256	B A38		50
490			*								
491	3	260		DCW	1	1		3260			50
492	3	261		DCW	@.@	1		3261			50
493	3	262	NOZONE	DCW	#1	1		3262			50
494	3	266	KZ4	DCW	@0000@	4		3266			50
495			*								
496	3	267	IFMT3	MCW	X1,X3	7		3267	M 089 099		50
497	3	274		MZ	ZAS2,3288	7		3274	Y 06S B88		51

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
498	3	281		MN	0&X3	4		3281	D 0?0		51
499	3	287		DC	@_0A@	3		3287			51
500	3	288		ZA		1		3288	?		51
501	3	289		MCW	4146,X1	7		3289	M 14W 089		51
502	3	296		LCA		1		3296	L		51
503	3	299		DC	@_00@	3		3299			51
504	3	302		DC	@0|0@ 0&X1	3		3302			51
505	3	303		B	4155	4		3303	B 15V		51
506				*							
507				*	END OF FILE ON INPUT						
508				*							
509	3	307	EOFWD	NOP	4002	4		3307	N 00S		51
510	3	311		H		1		3311	.		52
511				*							
512				*	TAPE READ						
513				*							
514	3	312	RDTAPE	SW	RDFLAG	4		3312	, 23V		52
515	3	316	CLEARR	CS	332	4		3316	/ 332		52
516	3	320		CS		1		3320	/		52
517	3	321		B	REDOIO	4		3321	B C84		52
518				*							
519				*	AFTER TAPE READ						
520				*							
521	3	325	ENDRD	BEF	EOFWD	5		3325	B C07 K		52
522	3	330		BCE	REDOIO,12&X3,}	8		3330	B C84 0A2 }	GMARK	52
523	3	338		CHAIN	12					MACRO	
524				BCE		1		3338	B	GEN	53
525				BCE		1		3339	B	GEN	53
526				BCE		1		3340	B	GEN	53
527				BCE		1		3341	B	GEN	53
528				BCE		1		3342	B	GEN	53
529				BCE		1		3343	B	GEN	53
530				BCE		1		3344	B	GEN	53
531				BCE		1		3345	B	GEN	54
532				BCE		1		3346	B	GEN	54
533				BCE		1		3347	B	GEN	54
534				BCE		1		3348	B	GEN	54
535				BCE		1		3349	B	GEN	54
536	3	350		B	1928	4		3350	B Z28		54
537	3	354		B	CLEARR	4		3354	B C16		54
538				*							
539				*	END OF TAPE ON OUTPUT						
540				*							
541	3	358	EOFWR	MN	UNIT,*&4	7		3358	D J36 C68		55
542	3	365		WTM	0	5		3365	U %U0 M		55
543	3	370		NOP	4003	4		3370	N 00T		55
544	3	374		H		1		3374	.		55
545				*							
546				*	WRITE TAPE						
547				*							

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
548	3	375	CLEARW	CS	332	4		3375	/ 332		55
549	3	379		CS		1		3379	/		55
550	3	380		B	1928	4		3380	B Z28		55
551	3	384	REDOIO	MN	UNIT,TAPE&3	7		3384	D J36 D37		56
552	3	391		MCW	KR,TAPE&7 ASSUME IT'S READ, NOT WRITE	7		3391	M 25Z D41		56
553	3	398		ZA	KR,W3 @R@ USED AS -9 HERE	7		3398	? 25Z 23S		56
554	3	405		BW	DOIO,RDFLAG	8		3405	V D27 23V 1		56
555	3	413		MCW	KW,TAPE&7 OOPS, IT'S WRITE	7		3413	M 26J D41		56
556	3	420		A	KP41,W3	7		3420	A 26S 23S		57
557	3	427	DOIO	LCA	GMWM,SNAPSH	7		3427	L 26Z 333		57
558	3	434	TAPE	RT	0,0&X3	8		3434	M %U0 0?0 R		57
559	3	442		LCA	BEGINN,SNAPSH UNCLOBBER	7		3442	L W97 333		57
560	3	449		BER	TAPERR	5		3449	B E91 L		57
561	3	454		BCE	ENDRD,TAPE&7,R	8		3454	B C25 D41 R		58
562	3	462		BEF	EOFWR	5		3462	B C58 K		58
563	3	467		B	CLEARW	4		3467	B C75		58
564			*								
565			* PRINT								
566			*								
567	3	471	CLEARP	CS	SNAPSH	4		3471	/ 333		58
568	3	475		CS		1		3475	/		58
569	3	476		B	1928	4		3476	B Z28		58
570	3	480		BCE	K2,200, NO SPACING	8		3480	B E05 200		58
571	3	488		BCE	DBLE,200,0 DOUBLE SPACE?	8		3488	B E20 200 0		59
572	3	496		MN	200,*&2 SET SKIP-TO CHANNEL	7		3496	D 200 E04		59
573	3	503		CC	0	2		3503	F 0		59
574	3	505	K2	W		1		3505	2		59
575	3	506		BCV	*&5	5		3506	B E15 @		59
576	3	511		B	CLEARP	4		3511	B D71		59
577	3	515		CCB	CLEARP,1	5		3515	F D71 1		59
578	3	520	DBLE	CCB	K2,J	5		3520	F E05 J		60
579			*								
580			* PUNCH								
581			*								
582	3	525	PUNCH	MCW	A281,ENDREC	7		3525	M 26V 23Y		60
583	3	532		CS	1928,285	7		3532	/ Z28 285		60
584	3	539		SW	200	4		3539	, 200		60
585	3	543		LCA	279,180	7		3543	L 279 180		60
586	3	550		P		1		3550	4		60
587	3	551		SSB	PUNCH,4	5		3551	K E25 4		60
588			*								
589			* READ A CARD								
590			*								
591	3	556	READCD	CS	80	4		3556	/ 080		61
592	3	560		MCW	A281,ENDREC	7		3560	M 26V 23Y		61
593	3	567		SW	1,RDFLAG	7		3567	, 001 23V		61
594	3	574	K1	R		1		3574	1		61
595	3	575		LCA	80,279	7		3575	L 080 279		61
596	3	582		SSB	1928,1	5		3582	K Z28 1		61
597	3	587		B	READCD	4		3587	B E56		61

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
598			*								
599			* TAPE I/O ERROR								
600			*								
601	3	591	TAPERR	MN	UNIT,BSP&3	7		3591	D J36 F08		62
602	3	598		MN	UNIT,SKP&3	7		3598	D J36 F21		62
603	3	605	BSP	BSP	0	5		3605	U %U0 B		62
604	3	610		BCE	*%6,TAPE&7,R	8		3610	B F23 D41 R		62
605	3	618	SKP	SKP	0	5		3618	U %U0 E		62
606	3	623		S	K1,W3	7		3623	S E74 23S		62
607	3	630		BWZ	DOIO,W3,B	8		3630	V D27 23S B		63
608	3	638		NOP	1111	4		3638	N /11		63
609	3	642		H		1		3642	.		63
610	3	643		B	REDOIO	4		3643	B C84		63
611			*								
612	3	647	KP5	DCW	&5	1		3647			63
613	3	648	SAVZON	DCW	#1	1		3648			63
614	3	650	W2	DCW	00	2		3650			63
615			*								
616	3	651		SW	0&X3	4		3651	, 0?0		64
617	3	655		MCW	X1,4146	7		3655	M 089 14W		64
618	3	662		MCW	X3,X1	7		3662	M 099 089		64
619	3	669		A	6&X2,X1	7		3669	A 0!6 089		64
620	3	676		BCE	IFMT4,0&X2,I	8		3676	B F99 0!0 I		64
621	3	684		BCE	AFMT2,0&X2,A	8		3684	B 39! 0!0 A		65
622	3	692		A	9&X2,X1	7		3692	A 0!9 089		65
623	3	699	IFMT4	SW	0&X1	4		3699	, 0!0		65
624	3	703		SBR	CW4&3,0&X1	7		3703	H 15Y 0!0		65
625	3	710		S		1		3710	S		65
626	3	713		DC	@;00@	3		3713			65
627	3	714		S		1		3714	S		65
628	3	715		BCE	3762,0&X3,	8		3715	B G62 0?0		65
629	3	723		MZ	BZONE,ZAS2	7		3723	Y G46 06S		66
630	3	730		BCE	3778,0&X3,-	8		3730	B G78 0?0 -		66
631	3	738		BCE	3778,0&X3,@	8		3738	B G78 0?0 @		66
632	3	746	BZONE	ZS	ZAS2	4		3746	! 06S		66
633	3	750		BCE	3778,0&X3,&	8		3750	B G78 0?0 &		66
634	3	758		B	3786	4		3758	B G86		66
635	3	762		BW	4132,1&X3	8		3762	V 13S 0?1 1		67
636	3	770		B	INCX3	4		3770	B J37		67
637	3	774		B	3715	4		3774	B G15		67
638	3	778		SW	1&X3	4		3778	, 0?1		67
639	3	782		B	INCX3	4		3782	B J37		67
640	3	786		BCE	IFMT3,0&X2,I	8		3786	B B67 0!0 I		67
641	3	794		SBR	X1	4		3794	H 089		67
642	3	800		DC	@_0J@	3		3800			67
643	3	801		MZ	NOZONE	4		3801	Y B62		68
644	3	807		DC	@;0K@	3		3807			68
645	3	808		CW	FLAG1,FLAG2	7		3808	) 26W 26X		68
646	3	815		CW	FLAG3	4		3815	) 26Y		68
647	3	819		S	W3A	4		3819	S 22T		68

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
648	3	823		BCE	AFMT1,0&X2,A	8		3823	B 28| 0!0 A		68
649	3	831		B	CHKCH1	4		3831	B H81		68
650			*								
651	3	835	DOT	SBR	W3,0&X3	7		3835	H 23S 0?0		69
652	3	842		SW	FLAG3	4		3842	, 26Y		69
653	3	846		BW	*&8,FLAG1	8		3846	V H61 26W 1		69
654	3	854		SBR	W3,1&X3	7		3854	H 23S 0?1		69
655	3	861	NOTDOT	BW	CKEFMT,1&X3	8		3861	V 04X 0?1 1		69
656	3	869		BCE	CKEFMT,1&X3,	8		3869	B 04X 0?1		70
657	3	877		B	INCX3	4		3877	B J37		70
658	3	881	CHKCH1	BCE	DOT,0&X3,.	8		3881	B H35 0?0 .		70
659	3	889		C	0&X3,KZ4-3 ONE ZERO DIGIT	7		3889	C 0?0 B63		70
660	3	896		BL	4163	5		3896	B 16T T		70
661	3	901		BH	CHKCH2	5		3901	B I18 U		70
662	3	906		BW	4163,FLAG1	8		3906	V 16T 26W 1		71
663	3	914		B	NOTDOT	4		3914	B H61		71
664			*								
665			*		CHECK VALIDITY OF CHARACTER						
666			*								
667	3	918	CHKCH2	BCE	ER1121,0&X2,F NO EXPONENT IF F FORMAT	8		3918	B I71 0!0 F		71
668	3	926		SBR	W3B,4&X3	7		3926	H 22W 0?4		71
669	3	933		MZ	ABZONE,ZAS	7		3933	Y I76 03W		71
670	3	940		BCE	EXP,0&X3,E	8		3940	B I80 0?0 E		72
671	3	948	CKSIGN	MZ	0&X3,ZAS	7		3948	Y 0?0 03W		72
672	3	955		BCE	SIGN,0&X3,&	8		3955	B 01S 0?0 &		72
673	3	963		BCE	SIGN,0&X3,-	8		3963	B 01S 0?0 -		72
674			*								
675			*		DATA AND FORMAT SPECIFICATIONS DISAGREE IN MODE OR						
676			*		ACCEPTABLE CHARACTERS.						
677			*								
678	3	971	ER1121	NOP	1121	4		3971	N /21		72
679	3	975		H		1		3975	.		72
680	3	976	ABZONE	B	ER1121	4		3976	B I71		73
681			*								
682	3	980	EXP	BWZ	*&9,1&X3,2	8		3980	V I96 0?1 2		73
683	3	988		B	INCX3	4		3988	B J37		73
684	3	992		B	CKSIGN	4		3992	B I48		73
685	3	996		BCE	*&5,1&X3,	8		3996	B 00Y 0?1		73
686	4	004		B	*&5	4		4004	B 01S		73
687	4	008		B	INCX3	4		4008	B J37		73
688	4	012	SIGN	SW	1&X3	4		4012	, 0?1		74
689	4	016		BW	ZAS,2&X3	8		4016	V 03W 0?2 1		74
690	4	024		BCE	ZAS,2&X3,	8		4024	B 03W 0?2		74
691	4	032		SBR	X3	4		4032	H 099		74
692	4	036	ZAS	ZA	1&X3,W3A SOMETIMES ZS	7		4036	? 0?1 22T		74
693	4	043		B	*&16	4		4043	B 06S		74
694	4	047	CKEFMT	BCE	ER1121,0&X2,E E FORMAT?	8		4047	B I71 0!0 E		75
695	4	055		SBR	W3B,1&X3	7		4055	H 22W 0?1		75
696	4	062	ZAS2	ZA		1		4062	?		75
697	4	065		DC	@;0K@	3		4065			75

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
698	4	066		BW	*&5,FLAG1	8		4066	V 07Y 26W 1		75
699	4	074		B	4140	4		4074	B 14|		75
700	4	078		BW	*&15,FLAG3	8		4078	V 10| 26Y 1		75
701	4	086		S	9&X2,W3B	7		4086	S 0!9 22W		76
702	4	093		ZA	W3B,W3	7		4093	? 22W 23S		76
703	4	100		S	W3,W3C	7		4100	S 23S 22Z		76
704	4	107		A	A12K,W3A	7		4107	A L27 22T		76
705	4	114		ZS	W3C	4		4114	! 22Z		76
706	4	118		A	W3C,W3A	7		4118	A 22Z 22T		76
707	4	125		ZA	W3A	4		4125	? 22T		77
708	4	131		DC	@;00@	3		4131			77
709	4	132		BCE	IFMT3,0&X2,I	8		4132	B B67 0!0 I		77
710	4	140		MCW		1		4140	M		77
711	4	143		DC	@;00@	3		4143			77
712	4	146		DC	000	3		4146			77
713	4	147		LCA		1		4147	L		77
714	4	148		MCW	*&4,X3	7		4148	M 15Y 099		77
715	4	155	CW4	CW	0	4		4155	) 000		77
716	4	159		B	SW2	4		4159	B A54		77
717			*								
718	4	163		BW	*&12,FLAG1	8		4163	V 18S 26W 1		78
719	4	171		SBR	W3C,0&X3	7		4171	H 22Z 0?0		78
720	4	178		SW	FLAG1	4		4178	, 26W		78
721	4	182		BW	NOTDOT,FLAG2	8		4182	V H61 26X 1		78
722	4	190		MN	0&X3,2&X1	7		4190	D 0?0 0|2		78
723	4	197		SBR	X1	4		4197	H 089		78
724	4	201		SW	FLAG2	4		4201	, 26X		79
725	4	205		BCE	NOTDOT,4&X1,} GM	8		4205	B H61 0|4 } GMARK		79
726	4	213		CW	FLAG2	4		4213	) 26X		79
727	4	217		B	NOTDOT	4		4217	B H61		79
728			*								
729	4	223	W3A	DCW	#3	3		4223			79
730	4	226	W3B	DCW	#3	3		4226			79
731	4	229	W3C	DCW	#3	3		4229			79
732	4	232	W3	DCW	#3	3		4232			80
733	4	233	K5	DCW	@5@	1		4233			80
734	4	234	FLAG	DC	#1	1		4234			80
735	4	235	RDFLAG	DCW	#1 READ IF WM, WRITE IF NO WM	1		4235			80
736	4	238	ENDREC	DCW	#3 ADDRESS OF END OF RECORD, EITHER 334 OR 281	3		4238			80
737	4	241	RECPOS	DCW	#3	3		4241			80
738	4	242	CH	DCW	#1	1		4242			80
739	4	243	WMFLAG	DCW	#1 WM IF CHAR BEING COPIED HAS A WM	1		4243			80
740	4	246	COUNT	DCW	#3	3		4246			81
741	4	249	SX1	DCW	#3	3		4249			81
742	4	252	COUNT2	DCW	#3	3		4252			81
743	4	255	KODOT0	DCW	@0.0@	3		4255			81
744	4	258	KX	DCW	@ X @	3		4258			81
745	4	259	KR	DCW	@R@	1		4259			81
746	4	260	KW	DCW	@W@	1		4260			81
747	4	262	KP41	DCW	&41	2		4262			82

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
748	4	265	A281	DSA	281	3		4265	281		82
749	4	266	FLAG1	DCW	#1	1		4266			82
750	4	267	FLAG2	DCW	#1	1		4267			82
751	4	268	FLAG3	DCW	#1	1		4268			82
752	4	269	GMWM	DCW	@}@	1		4269		GMARK	82
753				EX	NRET				B 982		83

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
754				JOB	FORTRAN COMPILER -- A CONVERSION -- PHASE 54D						
755				ORG	4280				4280		
756	4	280	AFMT1	BW	*&12,FLAG1	8		4280	V 29Z 26W 1		86
757	4	288		SBR	W3C,0&X3	7		4288	H 22Z 0?0		86
758	4	295		SW	FLAG1	4		4295	, 26W		86
759	4	299		BW	AATEST,FLAG2	8		4299	V 34/ 26X 1		86
760	4	307		MN	0&X3,2&X1	7		4307	D 0?0 0|2		86
761	4	314		MZ	0&X3,2&X1	7		4314	Y 0?0 0|2		87
762	4	321		SBR	X1	4		4321	H 089		87
763	4	325		SW	FLAG2	4		4325	, 26X		87
764	4	329		BCE	AATEST,4&X1,} GM	8		4329	B 34/ 0|4 } GMARK		87
765	4	337		CW	FLAG2	4		4337	) 26X		87
766	4	341	ATEST	BW	*&9,1&X3 END OF SOURCE FIELD?	8		4341	V 35X 0?1 1		87
767	4	349		B	INCX3	4		4349	B J37		87
768	4	353		B	AFMT1	4		4353	B 28|		88
769	4	357		SBR	W3B,1&X3	7		4357	H 22W 0?1		88
770	4	364		MCW	4146,*&7	7		4364	M 14W 37X		88
771	4	371		MCW	0,0	7		4371	M 000 000		88
772	4	378		LCA		1		4378	L		88
773	4	379		MCW	CW4&3,X3	7		4379	M 15Y 099		88
774	4	386		B	SW2	4		4386	B A54		88
775	4	390	AFMT2	MCW	K3B	4		4390	M 57X		89
776	4	396		DC	@;00@	3		4396			89
777	4	397		MCW	W20	4		4397	M 59X		89
778	4	403		DC	@;0K@	3		4403			89
779	4	404		SW	0&X1	4		4404	, 0|0		89
780	4	408		SBR	CW4&3,0&X1	7		4408	H 15Y 0|0		89
781	4	415		B	3786	4		4415	B G86		89
782				*							
783				*	MOVE DATA TO A FORMAT FIELD						
784				*							
785	4	419	AFMT3	MCW	2501,*&7	7		4419	M N01 43S		89
786	4	426	AMCW	MCW	0,0	7		4426	M 000 000		90
787	4	433		MCW		1		4433	M		90
788	4	434		SBR	X1	4		4434	H 089		90
789	4	438		SBR	SRC,1&X1	7		4438	H 60T 0|1		90
790	4	445		SBR	TRGEND,0&X3	7		4445	H 60W 0?0		90
791	4	452		MA	6&X2,TRGEND	7		4452	# 0!6 60W		90
792	4	459		SBR	TARGET,1&X3	7		4459	H 60| 0?1		91
793	4	466		MCW	AMCW&6,SRCE	7		4466	M 43S 60Z		91
794	4	473		MA	AM2,SRCE	7		4473	# 61S 60Z		91
795	4	480	ALOOP	MN	1&X1,2&X3	7		4480	D 0|1 0?2		91
796	4	487		MZ	1&X1,2&X3	7		4487	Y 0|1 0?2		91
797	4	494		C	TARGET,TRGEND	7		4494	C 60| 60W		92
798	4	501		BE	AEND	5		4501	B 55| S		92
799	4	506		C	SRC,SRCE	7		4506	C 60T 60Z		92
800	4	513		BE	AEND	5		4513	B 55| S		92
801	4	518		MA	A001, SRC	7		4518	# 61V 60T		92
802	4	525		MA	A001, TARGET	7		4525	# 61V 60|		92
803	4	532		SBR	X1,1&X1	7		4532	H 089 0|1		93

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
804	4	539		SBR	X3,1&X3	7		4539	H 099 0?1		93
805	4	546		B	ALOOP	4		4546	B 48|		93
806	4	550	AEND	SBR	CW3&3,0&X3	7		4550	H A53 0?0		93
807	4	557		MCW	TRGEND,X3	7		4557	M 60W 099		93
808	4	564		SBR	X3,2&X3	7		4564	H 099 0?2		93
809	4	571		B	CW2	4		4571	B A46		94
810			*								
811	4	577	K3B	DCW	#3	3		4577			94
812	4	597	W20	DCW	#20	20		4597			94
813	4	600	TARGET	DCW	#3	3		4600			94
814	4	603	SRC	DCW	#3	3		4603			94
815	4	606	TRGEND	DCW	#3	3		4606			94
816	4	609	SRCEND	DCW	#3	3		4609			94
817	4	612	AM2	DSA	15998 -2 = 16000 - 2 = 15998	3		4612	I9H		95
818	4	615	A001	DSA	1	3		4615	001		95
819	4	616		DCW	@}@	1		4616		GMARK	95
820				EX	NRET				B 982		96
821				END					/ 000 080		

SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS
A001	4615	A12K	2327	A281	4265	ABZONE	3976	AEND	4550	AFMT1	4280	AFMT2	4390
AFMT3	4419	ALOOP	4480	AM2	4612	AMCW	4426	ATEST	4341	BEGINN	1697	BSP	3605
BZONE	3746	CH	4242	CHARS	1855	CHKCH1	3881	CHKCH2	3918	CHKLEN	2808	CHKLEX	2829
CKEFMT	4047	CKSIGN	3948	CLEARP	3471	CLEARR	3316	CLEARW	3375	COUNT	4246	COUNT2	4252
CPARGL	2332	CW1	3142	CW2	3146	CW3	3150	CW4	4155	DBLE	3520	DEC2	2396
DOIO	3427	DOT	3835	EFMT	2568	ENDRD	3325	ENDREC	4238	EOFRD	3307	EOFWR	3358
ER1121	3971	EXP	3980	FFMT1	2704	FFMT2	2993	FFMT3	3133	FINDGM	3044	FLAG	4234
FLAG1	4266	FLAG2	4267	FLAG3	4268	GETB	2910	GETWM	1916	GETWML	1912	GMWM	4269
GOTB	2934	GOTWM	1897	IFMT	2833	IFMT2	2865	IFMT3	3267	IFMT4	3699	INCX3	2137
INCX3X	2148	KODOT0	4255	K1	3574	K2	3505	K3B	4577	K5	4233	KP41	4262
KP5	3647	KR	4259	KW	4260	KX	4258	KZ4	3266	LCA	2079	LISENT	912
LISTP2	2271	LSTPOS	1968	MANWID	837	MCS	3187	MORE	2431	NOOVFL	3138	NOTDOT	3861
NOZONE	3262	NRET	982	OVFL	3166	PUNCH	3525	RDFLAG	4235	RDTAPE	3312	READCD	3556
RECPOS	4241	REDOIO	3384	RELENT	2132	SAVZON	3648	SBR	2637	SIGN	4012	SKP	3618
SNAPSH	333	SRC	4603	SRCEND	4609	SW1	2894	SW2	3154	SX1	4249	SX2	1996
SX3	2952	SX3A	3082	TAPE	3434	TAPERR	3591	TARGET	4600	TRGEND	4606	UNIT	2136
W2	3650	W20	4597	W3	4232	W3A	4223	W3B	4226	W3C	4229	WMFLAG	4243
X1	89	X2	94	X3	99	XXFLD	3240	ZAS	4036	ZAS2	4062		