

```
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	, 27Z		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 27Z 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	KZ4	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	KZ4-3 ONE ZERO DIGIT	4		2751	M B63		34
376	2	755		MCW	GMWM,3&X1	7		2755	M 27Z 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 G81 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		LCA	K10,2&X1	7	V3M4	3229	L 27Y 0|2		49
484	3	236		B	4269	4	V3M4	3236	B 26Z		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 26| D41		56
556	3	420		A	KP41,W3	7		3420	A 26S 23S		57
557	3	427	DOIO	LCA	GMWM,SNAPSH	7		3427	L 27Z 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		MZ	NOZONE	4		3715	Y B62		65
629	3	721		DC	@;0K@	3		3721			65
630	3	722		MZ	ABZ2,ZAS2	7		3722	Y G89 06S		66
631	3	729		BCE	3765,0&X3,	8		3729	B G65 0?0		66
632	3	737		BCE	BZONE,0&X3,-	8		3737	B G81 0?0 -		66
633	3	745		BCE	BZONE,0&X3,@	8		3745	B G81 0?0 @		66
634	3	753		BCE	3785,0&X3,&	8		3753	B G85 0?0 &		66
635	3	761		B	3793	4		3761	B G93		67
636	3	765		BW	4132,1&X3	8		3765	V 13S 0?1 1		67
637	3	773		B	INCX3	4		3773	B J37		67
638	3	777		B	3722	4		3777	B G22		67
639	3	781	BZONE	ZS	ZAS2	4		3781	! 06S		67
640	3	785		SW	1&X3	4		3785	, 0?1		67
641	3	789	ABZ2	B	INCX3	4		3789	B J37		67
642	3	793		BCE	IFMT3,0&X2,I	8		3793	B B67 0!0 I		68
643	3	801		SBR	X1	4		3801	H 089		68
644	3	807		DC	@_0J@	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		69
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		CW	1&X1	V3M4	4	4269	) 0|1		82
753	4	273		B	NOOVFL	V3M4	4	4273	B A38		82
754	4	278	K10	DCW	10	V3M4	2	4278			83
755	4	279	GMWM	DCW	@}@	V3M4	1	4279		GMARK	83
756				EX	NRET				B 982		84

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
757				JOB	FORTRAN COMPILER -- A CONVERSION -- PHASE 54D						
758				ORG	4280				4280		
759	4	280	AFMT1	BW	*&12,FLAG1	8		4280	V 29Z 26W 1		87
760	4	288		SBR	W3C,0&X3	7		4288	H 22Z 0?0		87
761	4	295		SW	FLAG1	4		4295	, 26W		87
762	4	299		BW	AATEST,FLAG2	8		4299	V 34/ 26X 1		87
763	4	307		MN	0&X3,2&X1	7		4307	D 0?0 0|2		87
764	4	314		MZ	0&X3,2&X1	7		4314	Y 0?0 0|2		88
765	4	321		SBR	X1	4		4321	H 089		88
766	4	325		SW	FLAG2	4		4325	, 26X		88
767	4	329		BCE	AATEST,4&X1,} GM	8		4329	B 34/ 0|4 } GMARK		88
768	4	337		CW	FLAG2	4		4337	) 26X		88
769	4	341	AATEST	BW	*&9,1&X3 END OF SOURCE FIELD?	8		4341	V 35X 0?1 1		88
770	4	349		B	INCX3	4		4349	B J37		88
771	4	353		B	AFMT1	4		4353	B 28|		89
772	4	357		SBR	W3B,1&X3	7		4357	H 22W 0?1		89
773	4	364		MCW	4146,*&7	7		4364	M 14W 37X		89
774	4	371		MCW	0,0	7		4371	M 000 000		89
775	4	378		LCA		1		4378	L		89
776	4	379		MCW	CW4&3,X3	7		4379	M 15Y 099		89
777	4	386		B	SW2	4		4386	B A54		89
778	4	390	AFMT2	MCW	K3B	4		4390	M 57X		90
779	4	396		DC	@;00@	3		4396			90
780	4	397		MCW	W20	4		4397	M 59X		90
781	4	403		DC	@;0K@	3		4403			90
782	4	404		SW	0&X1	4		4404	, 0|0		90
783	4	408		SBR	CW4&3,0&X1	7		4408	H 15Y 0|0		90
784	4	415		B	3793	4		4415	B G93		90
785				*							
786				*	MOVE DATA TO A FORMAT FIELD						
787				*							
788	4	419	AFMT3	MCW	2501,*&7	7		4419	M N01 43S		90
789	4	426	AMCW	MCW	0,0	7		4426	M 000 000		91
790	4	433		MCW		1		4433	M		91
791	4	434		SBR	X1	4		4434	H 089		91
792	4	438		SBR	SRC,1&X1	7		4438	H 60T 0|1		91
793	4	445		SBR	TRGEND,0&X3	7		4445	H 60W 0?0		91
794	4	452		MA	6&X2,TRGEND	7		4452	# 0!6 60W		91
795	4	459		SBR	TARGET,1&X3	7		4459	H 60| 0?1		92
796	4	466		MCW	AMCW&6,SRCE	7		4466	M 43S 60Z		92
797	4	473		MA	AM2,SRCE	7		4473	# 61S 60Z		92
798	4	480	ALOOP	MN	1&X1,2&X3	7		4480	D 0|1 0?2		92
799	4	487		MZ	1&X1,2&X3	7		4487	Y 0|1 0?2		92
800	4	494		C	TARGET,TRGEND	7		4494	C 60| 60W		93
801	4	501		BE	AEND	5		4501	B 55| S		93
802	4	506		C	SRC,SRCE	7		4506	C 60T 60Z		93
803	4	513		BE	AEND	5		4513	B 55| S		93
804	4	518		MA	A001,SRC	7		4518	# 61V 60T		93
805	4	525		MA	A001,TARGET	7		4525	# 61V 60|		93
806	4	532		SBR	X1,1&X1	7		4532	H 089 0|1		94

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
807	4	539		SBR	X3,1&X3	7		4539	H 099 0?1		94
808	4	546		B	ALOOP	4		4546	B 48|		94
809	4	550	AEND	SBR	CW3&3,0&X3	7		4550	H A53 0?0		94
810	4	557		MCW	TRGEND,X3	7		4557	M 60W 099		94
811	4	564		SBR	X3,2&X3	7		4564	H 099 0?2		94
812	4	571		B	CW2	4		4571	B A46		95
813			*								
814	4	577	K3B	DCW	#3	3		4577			95
815	4	597	W20	DCW	#20	20		4597			95
816	4	600	TARGET	DCW	#3	3		4600			95
817	4	603	SRC	DCW	#3	3		4603			95
818	4	606	TRGEND	DCW	#3	3		4606			95
819	4	609	SRCEND	DCW	#3	3		4609			95
820	4	612	AM2	DSA	15998 -2 = 16000 - 2 = 15998	3		4612	I9H		96
821	4	615	A001	DSA	1	3		4615	001		96
822	4	616		DCW	@}@	1		4616		GMARK	96
823				EX	NRET				B 982		97
824				END					/ 000 080		

