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CLEAR STORAGE 1 ,008015,022026,030037,044,049,053053N000000N00001026 1
CLEAR STORAGE 2 L068116,105106,110117B101/I9I#071029C029056B026/B001/0991,001/001117I0? 2
BOOTSTRAP ,008015,022029,036040,047054,061068,072/061039 ,0010011040 3
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FORTRAN COMPILER -- PHASES 00-02 PAGE 1

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
101				JOB	FORTRAN COMPILER -- PHASES 00-02						
102				CTL	6611						
103				*							
104				*	SNAPSHOT, SYSTEM MONITOR, AND LOADER PHASE.						
105				*							
106				*	READ AND STORE THE SOURCE PROGRAM, IN REVERSE ORDER, STARTING						
107				*	AT THE TOP OF CORE, WITH BLANKS REMOVED EXCEPT WITHIN						
108				*	HOLLERITH FIELDS IN FORMAT STATEMENTS. EACH STATEMENT BEGINS						
109				*	WITH 000. FORMAT STATEMENTS THEN HAVE F, WHILE OTHERS HAVE R.						
110				*	THEN THE LABEL, IF ANY, FOLLOWED BY A COLON. THE END OF EACH						
111				*	STATEMENT IS MARKED BY A GROUP MARK WITH A WORD MARK. AFTER						
112				*	THE LAST CARD, A STOP STATEMENT IS INSERTED.						
113				*							
114				ORG	81				0081		
115	86			DC	@	6	0086				4
116	89	X1		DCW	@000@	3	0089				4
117		XXXXX1		EQU	X1 FOR USE IN SFX REGIONS		0089				
118	91			DC	@00@	2	0091				4
119	94	X2		DCW	@000@	3	0094				4
120		XXXXX2		EQU	X2 FOR USE IN SFX REGIONS		0094				
121	96			DC	@00@	2	0096				4
122	99	X3		DCW	@000@	3	0099				4
123		XXXXX3		EQU	X3 FOR USE IN SFX REGIONS		0099				
124	104			DC	@0 @	5	0104				4
125	110	PHASID		DCW	@LOADER@ PHASE ID, FOR SNAPSHOT	6	0110				4
126	111			DCW	#1 WM CLEARED IF DO STATEMENT APPEARS	1	0111				5
127	112			DCW	#1 WM CLEARED IF DO STATEMENT APPEARS	1	0112				5
128	113			DCW	#1 WM CLEARED IF DO STATEMENT APPEARS	1	0113				5
129	114			DCW	#1 WM CLEARED WHEN AN I/O LIST OF DO IS PROCESSED	1	0114				5
130	115			DCW	#1 WM CLEARED IF I/O LIST AND NOT LIMITED FORMAT	1	0115				5
131	116	SUBSCR		DCW	#1 WM CLEARED IF SUBSCRIPT CODE NEEDED	1	0116				5
132	117	SERIES		DCW	#1 NEED SERIES ROUTINE IF NO WM	1	0117				5
133	118	SINCOS		DCW	#1 SAW SINF OR COSF IF NO WM	1	0118				6
134	119	LOGF		DCW	#1 SAW LOGF IF NO WM	1	0119				6
135	120	EXPF		DCW	#1 SAW EXPF IF NO WM	1	0120				6
136	121			DCW	#1 SAW ATANF IF NO WM	1	0121				6
137	122	SAWABS		DCW	#1 SAW ABSF IF NO WM	1	0122				6
138	123	SAWNEG		DCW	#1 SAW NEGATION OPERATOR (UNARY MINUS) IF NO WM	1	0123				6
139	124	XFIXF		DCW	#1 SAW XFIXF IF NO WM	1	0124				6
140	125	FLOATF		DCW	#1 SAW FLOATF IF NO WM	1	0125				7
141	126			DCW	#1 SAW SQRTF IF NO WM	1	0126				7
142	127			DCW	#1 SAW USER FUNCTION R IF NO WM	1	0127				7
143	128			DCW	#1 SAW USER FUNCTION U IF NO WM	1	0128				7
144	129			DCW	#1 SAW USER FUNCTION P IF NO WM	1	0129				7
145	130			DCW	#1 SAW USER FUNCTION W IF NO WM	1	0130				7
146	131			DCW	#1 SAW USER FUNCTION Y IF NO WM	1	0131				7
147	132			DCW	#1 SAW USER FUNCTION Z IF NO WM	1	0132				8

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	133			DCW	#1 SAW USER FUNCTION J IF NO WM		1	0133			8
149	134			DCW	#1 SAW USER FUNCTION K IF NO WM		1	0134			8
150	135			DCW	#1 SAW USER FUNCTION L IF NO WM		1	0135			8
151	136			DCW	#1 SAW USER FUNCTION M IF NO WM		1	0136			8
152	137			DCW	#1 SAW USER FUNCTION D IF NO WM		1	0137			8
153	138			DCW	#1 SAW USER FUNCTION H IF NO WM		1	0138			8
154	139			DCW	#1 SAW XLINKF IF NO WM		1	0139			9
155	142	NEGAR2		DCW	#3 LOOKS LIKE NEGARY -- SEE PHASE 20		3	0142			9
156	145	TBLBOT		DCW	#3 ONE BELOW NUMBERS, FORMATS, I/O LISTS		3	0145			9
157	148	SEQTAB		DCW	#3 BOTTOM OF SEQUENCE NUMBER TABLE - 2		3	0148			9
158	151	DOCNT		DCW	#3 COUNT OF DO STATEMENTS		3	0151			9
159	154	BOTFMT		DCW	#3 BOTTOM OF FORMAT STRINGS OR NUMBER TABLE - 1		3	0154			9
160	157	NEGAR3		DCW	#3 LOOKS LIKE NEGARY -- SEE PHASE 20		3	0157			9
161	160	ARYSIZ		DCW	#3 TOTAL ARRAY SIZE & 2		3	0160			10
162	163	NEGARY		DCW	#3 16000 - ARYSIZ		3	0163			10
163	180			DC	#17		17	0180			10
164	183	NSTMTS		DCW	#3 NUMBER OF STATEMENTS, INCLUDING GENERATED STOP		3	0183			10
165	184	GLOBER		DC	#1 GLOBAL ERROR FLAG -- WM MEANS ERROR		1	0184			10
166	185	GOTXL		DCW	#1 XLINKF WAS REFERENCED IF NO WM		1	0185			10
167	188	RELTAB		DCW	#3 RELOCATABLE FUNCTION TABLE ENTRY ADDRESSES		3	0188			10
168	191	SUBENT		DCW	#3 ENTRY TO SUBSCRIPT ROUTINE		3	0191			10
169	194	ARYTOP		DCW	#3 TOP OF ARRAYS IN OBJECT CODE		3	0194			10
170	195			DC	#1		1	0195			10
171	199			DCW	@V3M0@		4	0199			11
172				ORG	333				0333		
173				*							
174				*	SNAPSHOT ROUTINE						
175				*							
176				SFX	S		S				
177	333	SNAPSH		SBR	EXIT&3		S	4	0333	H 567	12
178	337			SBR	SXX&6		S	4	0337	H 408	12
179	341			MCW	KZ3,ADR5-2 START FIVE-DIGIT ADDRESS AT ZERO		S	7	0341	M 661 656	12
180	348			MCW	XXXXX3,SX3&6		S	7	0348	M 099 415	12
181	355			MCW	XXXXX1,SX1&6		S	7	0355	M 089 422	12
182	362			SBR	XXXXX1,1		S	7	0362	H 089 001	12
183	369			SBR	XXXXX3,202		S	7	0369	H 099 202	13
184	376			CS	332		S	4	0376	/ 332	13
185	380			CS			S	1	0380	/	13
186	381			MCW	PHASID,210		S	7	0381	M 110 210	13
187	388			BSS	SKIP,F		S	5	0388	B 621 F	13
188				*							
189				*	PRINT A HEADER						
190				*							
191	393			CC	1		S	2	0393	F 1	13
192	395			MCW	XXXXX2,250		S	7	0395	M 094 250	13
193	402	SXX		SBR	216,0 RETURN ADDRESS WAS STORED IN B		S	7	0402	H 216 000	14
194	409	SX3		SBR	256,0 X3 WAS STORED IN B		S	7	0409	H 256 000	14
195	416	SX1		SBR	244,0 X1 WAS STORED IN B		S	7	0416	H 244 000	14
196	423			W			S	1	0423	2	14
197	424			CC	K		S	2	0424	F K	14

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
198	426			ZA	KP2,W2A	S	7	0426	? 662 664		14
199	433		CLEARH	CS	332	S	4	0433	/ 332		14
200	437			CS		S	1	0437	/		15
201	438			CC	J	S	2	0438	F J		15
202	440			MCW	ADR5,306 FIVE-DIGIT ADDRESS	S	7	0440	M 658 306		15
203	447			MCW		S	1	0447	M		15
204	448			SBR	LOOP&6	S	4	0448	H 465		15
205	452			MCW	K9,W2B-1	S	7	0452	M 665 668		15
206	459		LOOP	MCW	W2B-1,000	S	7	0459	M 668 000		15
207	466			MCW	DOTS	S	4	0466	M 651		16
208	470			SBR	LOOP&6	S	4	0470	H 465		16
209	474			A	KM10,W2B ADD I0 = -10	S	7	0474	A 667 669		16
210	481			BWZ	LOOP,W2B-1,2 NO ZONE IN COUNTER HIGH DIGIT?	S	8	0481	V 459 668 2		16
211	489			A	KP1,ADR5-2 BUMP HUNDREDS DIGIT OF ADDRESS	S	7	0489	A 670 656		16
212	496			W		S	1	0496	2		16
213	497		GET	SW	0&X3 MOVE DATA AND WM TO PRINT AREA	S	4	0497	, 0?0		16
214	501			MCW	0&X1,0&X3	S	7	0501	M 0|0 0?0		17
215	508			BW	DOWM,0&X1 SKIP CLEARING PRINT AREA WM	S	8	0508	V 520 0|0 1		17
216	516			CW	0&X3	S	4	0516	) 0?0		17
217	520		DOWM	C	XXXXX1,TOPCOR DONE?	S	7	0520	C 089 688		17
218	527			BU	CONT NO	S	5	0527	B 568 /		17
219	532			W		S	1	0532	2		17
220	533			WM		S	2	0533	2)		17
221	535		RX1	MCW	SX1&6,XXXXX1 RESTORE INDEX REGS	S	7	0535	M 422 089		18
222	542			MCW	SX3&6,XXXXX3	S	7	0542	M 415 099		18
223	549			CS	332	S	4	0549	/ 332		18
224	553			CS		S	1	0553	/		18
225	554			BSS	HALT,G	S	5	0554	B 563 G		18
226	559			B	EXIT	S	4	0559	B 564		18
227	563		HALT	H		S	1	0563	.		18
228	564		EXIT	B	0-0	S	4	0564	B 000		19
229	568		CONT	SBR	XXXXX1,1&X1	S	7	0568	H 089 0|1		19
230	575			BCE	BUMP3,XXXXX3-2,2	S	8	0575	B 632 097 2		19
231	583			SBR	XXXXX3,201	S	7	0583	H 099 201		19
232	590			W		S	1	0590	2		19
233	591			WM		S	2	0591	2)		19
234	593			A	KP1,W2A	S	7	0593	A 670 664		19
235	600			C	W2A,KP15	S	7	0600	C 664 672		20
236	607			BU	CLEARH	S	5	0607	B 433 /		20
237	612			S	W2A	S	4	0612	S 664		20
238	616			CCB	CLEARH,1	S	5	0616	F 433 1		20
239	621		SKIP	MCW	XQTD,220	S	7	0621	M 680 220		20
240	628			W	RX1	S	4	0628	2 535		20
241	632		BUMP3	A	KP1,XXXXX3	S	7	0632	A 670 099		20
242	639			B	GET	S	4	0639	B 497		21
243	651		DOTS	DCW	@9.....@	S	9	0651			21
244	653			DCW	@9-@	S	2	0653			21
245	658		ADR5	DCW	00000 FIVE DIGIT ADDRESS	S	5	0658			21
246	661		KZ3	DCW	000	S	3	0661			21
247	662		KP2	DCW	&2	S	1	0662			21

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
248	664	W2A	DCW	#2		S	2	0664			21
249	665	K9	DCW	9		S	1	0665			22
250	667	KM10	DCW	@I0@		S	2	0667			22
251	669	W2B	DCW	#2		S	2	0669			22
252	670	KP1	DCW	&1		S	1	0670			22
253	672	KP15	DCW	&15		S	2	0672			22
254	680	XQTD	DCW	@EXECUTED@		S	8	0680			22
255			SFX	END OF SNAPSHOT ROUTINE							
256			*								
257			*	STORAGE FOR PARAMETER CARD							
258			*								
259			DA	1X19				0681	0699		
260	685	PWORD		5 THE WORD PARAM				0685		SBFLD	
261	688	TOPCOR		8 TOP CORE ADDRESS FROM PARAM CARD				0688		SBFLD	
262	690	IMOD		10 INTEGER MODULUS -- NUMBER OF DIGITS				0690		SBFLD	
263	692	MANTIS		12 FLOATING POINT MANTISSA DIGITS				0692		SBFLD	
264	693	CONDNS		13 P FOR CONDENSED DECK				0693		SBFLD	
265	694	SNAPSW		14 S FOR SNAPSHOT				0694		SBFLD	
266	695	C1410		15 T IF RUN ON 1410 IN 1401 COMPATIBILITY MODE				0695		SBFLD	
267	696	FMTSW		16 X FOR NO FORMAT, L FOR LIMITED FORMAT				0696		SBFLD	
268			*	BLANK FOR ORDINARY, A FOR A CONVERSION							
269	699	PARAM		19 PARAMETER CARD IS STORED HERE				0699		SBFLD	
270			*								
271			*	LOAD NEXT OVERLAY							
272			*								
273			SFX	L		L					
274	700	LOADNX	MCW	CLRBOT-2,K999-2 SET CLEAR END HIGH DIGIT		L	7	0700	M 831 828		23
275	707	CLEARL	CS	0-0		L	4	0707	/ 000		23
276	711		SBR	CLEARL&3		L	4	0711	H 710		23
277	715		C	CLEARL&3,K999		L	7	0715	C 710 830		23
278	722		BU	CLEARL		L	5	0722	B 707 /		23
279	727		SW	CLRWM&4		L	4	0727	, 758		23
280	731		MCW	CLEARL&3,CLRWM&6		L	7	0731	M 710 760		23
281	738		CW	CLRWM&4		L	4	0738	) 758		24
282	742	CLRL	C	CLRWM&6,CLRBOT		L	7	0742	C 760 833		24
283	749		BE	CDOVLY LOAD THE OVERLAY		L	5	0749	B 769 S		24
284	754	CLRWM	LCA	BLANK,0 CLEAR WITH BLANK AND WORD MARK		L	7	0754	L 834 000		24
285	761		SBR	CLRWM&6		L	4	0761	H 760		24
286	765		B	CLRL		L	4	0765	B 742		24
287	769	CDOVLY	R	40 CARD OVERLAY UNLESS NOP		L	4	0769	1 040		24
288	773	RDAGIN	MCW	EINIT,ECOUNT INITIALIZE ERROR COUNT		L	7	0773	M 835 837		25
289	780	TPREAD	RTW	1,BEGINN LOAD OVERLAY FROM TAPE		L	8	0780	L %U1 838 R		25
290	788		BER	TPERR ERROR?		L	5	0788	B 797 L		25
291	793		B	BEGINN NO, RUN THE OVERLAY		L	4	0793	B 838		25
292	797	TPERR	BSP	1		L	5	0797	U %U1 B		25
293	802		S	ONE,ECOUNT		L	7	0802	S 836 837		25
294	809		BWZ	TPREAD,ECOUNT,B STILL POSITIVE?		L	8	0809	V 780 837 B		26
295	817		H	3333,3333 TOO MANY TAPE ERRORS		L	7	0817	. C33 C33		26
296	824		B	RDAGIN READ AGAIN		L	4	0824	B 773		26
297	830	K999	DSA	999		L	3	0830	999		26

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
298	833		CLRBOT	DCW	#3 ADDRESS TO CLEAR DOWN TO	L	3	0833			26
299	834		BLANK	DCW	#1	L	1	0834			26
300	835		EINIT	DCW	&9 INITIAL ERROR COUNT	L	1	0835			26
301	836		ONE	DCW	&1	L	1	0836			27
302	837		ECOUNT	DCW	#1	L	1	0837			27
303			SFX		END OF LOAD NEXT OVERLAY ROUTINE						
304			*								
305			* START HERE								
306			*								
307	838		BEGINN	BCE	CARD,1, BEING LOADED FROM CARDS?	8	0838	B 853	001		27
308	846			MCW	NOP,CDOVLY TURN OFF CARD OVERLAY	7	0846	M N49	769		27
309	853		CARD	CS	80	4	0853	/ 080			27
310	857			SW	1,GM	7	0857	, 001	N29		27
311	864			SW	81,84	7	0864	, 081	084		27
312	871			CS	332	4	0871	/ 332			28
313	875			CS		1	0875	/			28
314			*								
315			* READ AND CHECK PARAMETER CARD								
316			*								
317	876			R	READ PARAMETER CARD	1	0876	1			28
318	877			LCA	19,PARAM SAVE IT	7	0877	L 019	699		28
319	884			C	PARAM-14,KPARAM IS IT A PARAMETER CARD?	7	0884	C 685	N54		28
320	891			BU	NOPARM NO, ANNOUNCE ERROR	5	0891	B L24	/		28
321	896			SW	73 SET WORD MARKS FOR	4	0896	, 073			28
322	900			SW	6,7 FORTRAN MARGINS	7	0900	, 006	007		29
323	907			SW	TOPCOR-2	4	0907	, 686			29
324	911			MCW	80,PWORD	7	0911	M 080	685		29
325			*								
326			* DETERMINE THIS MACHINE'S CORE SIZE, COMPARE IT TO								
327			* SIZE ON PARAMETER CARD								
328			*								
329	918			CS	0-0	4	0918	/ 000			29
330	922			SBR	CORSIZ	4	0922	H N57			29
331	926			MCW	TOPCOR,TOCONV	7	0926	M 688	N60		29
332	933			B	ADCONV COVERT TOPCOR TO FIVE DIGITS	4	0933	B Y76			29
333	937			MCW	CONVTD,TOP5	7	0937	M N65	O53		30
334	944			MCW	CORSIZ,TOCONV	7	0944	M N57	N60		30
335	951			B	ADCONV CONVERT CORSIZ TO FIVE DIGITS	4	0951	B Y76			30
336	955			MCW	CONVTD,COR5	7	0955	M N65	O48		30
337	962			A	KP1,TOP5 TOP ADDR + 1 = SIZE	7	0962	A N66	O53		30
338	969			A	KP1,COR5 COR ADDR + 1 = SIZE	7	0969	A N66	O48		30
339	976			CS	332	4	0976	/ 332			31
340	980			CS		1	0980	/			31
341	981			CC	1	2	0981	F 1			31
342	983			CS	332	4	0983	/ 332			31
343	987			CS		1	0987	/			31
344	988			MCW	STMSG,228 START FORTRAN COMPILATION MSG	7	0988	M N94	228		31
345	995			W		1	0995	2			31
346	996			CC	J	2	0996	F J			32
347	998			MCW	TOP5,231	7	0998	M 053	231		32

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
348	1	005		MCW	SPSIZE SPECIFIED SIZE	4		1005	M 020		32
349	1	009		W		1		1009	2		32
350	1	010		CS	235	4		1010	/ 235		32
351	1	014		MCW	COR5,228	7		1014	M 048 228		32
352	1	021		MCW	ACTSIZ ACTUAL SIZE	4		1021	M 043		32
353	1	025		BCE	BIGNUF,C1410,T COMPILING FOR 1410 COMPATIBILITY?	8		1025	B 196 695 T		33
354	1	033		W		1		1033	2		33
355	1	034		C	COR5,TOP5	7		1034	C 048 053		33
356	1	041		BH	PSGTM PRINT SPEC SIZE GT MACH SIZE	5		1041	B 177 U		33
357	1	046		C	TOP5,K3900 COMPARE TOP TO 3900	7		1046	C 053 058		33
358	1	053		BL	BIGNUF	5		1053	B 196 T		33
359	1	058		CC	J	2		1058	F J		33
360	1	060		CS	332	4		1060	/ 332		34
361	1	064		CS		1		1064	/		34
362	1	065		MCW	SIZERR,218 MACHINE SIZE ERROR	7		1065	M 076 218		34
363	1	072		W		1		1072	2		34
364	1	073		B	USEACT	4		1073	B 189		34
365	1	077	PSGTM	MCW	SGTM,267 SPEC. SIZE GT MACH. SIZE MSG	7		1077	M P22 267		34
366	1	084		MCW	SGTM2 REST OF THE MESSAGE	4		1084	M P43		34
367	1	088		W		1		1088	2		35
368	1	089	USEACT	MCW	CORSIZ,TOPCOR USE ACTUAL SIZE	7		1089	M N57 688		35
369	1	096	BIGNUF	MCW	TOPCOR,CLEARD&3	7		1096	M 688 /06		35
370				*							
371				*	CLEAR FROM TOP OF THIS MACHINE'S MEMORY DOWN TO DOWNT0						
372				*							
373	1	103	CLEARD	CS	0-0	4		1103	/ 000		35
374	1	107		SBR	CLEARD&3	4		1107	H /06		35
375	1	111		C	CLEARD&3,DOWNT0	7		1111	C /06 P46		35
376	1	118		BU	CLEARD	5		1118	B /03 /		35
377				*							
378	1	123		R		1		1123	1		36
379	1	124		MZ	*-6,AZONE SET A ZONE AFTER CARD STORAGE AREA	7		1124	Y /24 N01		36
380	1	131		MZ	*-6,INTRST&7 SET A ZONE IN BCE D-MODIFIER	7		1131	Y /31 X07		36
381	1	138		MZ	*-6,BLNKOK&7 , ,	7		1138	Y /38 Z80		36
382	1	145		MZ	*-6,INTCHR-1 ADD A ZONE TO INTERESTING CHARS	7		1145	Y /45 L87		36
383	1	152		MCW	PREFIX,CARD1-1 SET DEFAULT PREFIX	7		1152	M N33 M28		36
384	1	159		MCW	TOPCOR,*&4	7		1159	M 688 /69		37
385	1	166		CW	0-0	4		1166	) 000		37
386	1	170		SBR	MVCHAR&6	4		1170	H T70		37
387				*							
388				*	PROCESS NEXT CARD						
389				*							
390	1	174	RDLOOP	BW	MOVECD,FLAG	8		1174	V S11 Q28 1		37
391	1	182		BCE	DONE,1,:	8		1182	B !70 001 :		37
392				*							
393				*	NO SYSTEM AFTER END CARD						
394				*							
395	1	190	NOSYS	CC	1	2		1190	F 1		37
396	1	192		CS	332	4		1192	/ 332		37
397	1	196		CS		1		1196	/		38

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
398	1	197		MCW	MSG1,270	7		1197	M P87 270		38
399	1	204		W		1		1204	2		38
400	1	205		CC	1	2		1205	F 1		38
401	1	207	HALT1	H	HALT1	4		1207	. S07		38
402				*							
403				*	MOVE CARD TO SAVE AREA						
404				*							
405	1	211	MOVECD	MCW	72,CARD72 MOVE CARD TO SAVE AREA	7		1211	M 072 N00		38
406	1	218		MCW		1		1218	M		38
407	1	219		MCW		1		1219	M		39
408	1	220		BCE	DONE,CARD1, :	8		1220	B !70 M29 :		39
409	1	228	C12T	BIN	PRTHDG, UNCONDITIONAL AT FIRST, BECOMES BCV	5		1228	B K67		39
410	1	233	AFTHDG	CS	300	4		1233	/ 300		39
411	1	237		CS		1		1237	/		39
412	1	238		MCW	72,283 MOVE CARD TO PRINT AREA	7		1238	M 072 283		39
413	1	245		MCW	6,215	7		1245	M 006 215		39
414	1	252		BCE	LSTCMT,CARD1,C PRINT NOW IF COMMENT	8		1252	B L58 M29 C		40
415	1	260	CRD1SW	B	NOTCNT BECOMES NOP AFTER FIRST CARD	4		1260	B V46		40
416	1	264		BCE	NOTCNT,CARD6,0	8		1264	B V46 M34 0		40
417	1	272		BCE	NOTCNT,CARD6,	8		1272	B V46 M34		40
418				*							
419				*	CONTINUATION CARD						
420				*							
421	1	280		A	KP1,CNTCNT BUMP CONTINUATION COUNT	7		1280	A N66 Q24		40
422	1	287		BCE	CNTOK,CNTCNT-1,0 NINE OR FEWER?	8		1287	B T02 Q23 0		41
423	1	295		MCW	CNTMSG,300 PUT ERROR MSG IN PRINT AREA	7		1295	M Q02 300		41
424	1	302	CNTOK	W	LIST THE CARD	1		1302	2		41
425	1	303		MCW	CARD7A,SVCHAR&3 SET SAVE CHAR ADDR TO COL 7	7		1303	M N06 T13		41
426				*							
427				*	PROCESS THE CARD (NOTCNT COMES BACK HERE)						
428				*							
429	1	310	SVCHAR	MCW	0-0,CHAR SAVE A CHARACTER	7		1310	M 000 Q31		41
430	1	317		SW	SVCHAR&1	4		1317	, T11		41
431	1	321		A	K1,SVCHAR&3 BUMP ADDR OF CHAR TO SAVE	7		1321	A N10 T13		42
432	1	328		CW	SVCHAR&1	4		1328	) T11		42
433	1	332	CRD2SW	NOP	BLNKOK BRANCH IF COPYING EVERYTHING	4		1332	N Z73		42
434	1	336		BCE	SVCHAR,CHAR, SKIP BLANKS	8		1336	B T10 Q31		42
435	1	344		MCW	CHAR,*&8	7		1344	M Q31 T58		42
436	1	351		BCE	INTRST,INTCHR,0	8		1351	B X00 L88 0		42
437					CHAIN 5					MACRO	
438				BCE		1		1359	B	GEN	42
439				BCE		1		1360	B	GEN	43
440				BCE		1		1361	B	GEN	43
441				BCE		1		1362	B	GEN	43
442				BCE		1		1363	B	GEN	43
443	1	364	MVCHAR	MCW	CHAR,0	7		1364	M Q31 000		43
444	1	371		SBR	MVCHAR&6	4		1371	H T70		43
445	1	375	BUMPNS	A	KP1,NCHAR BUMP CHARACTER COUNTER	7		1375	A N66 Q07		43
446	1	382		C	MVCHAR&6,BOTCOR CORE FULL OF SOURCE CODE?	7		1382	C T70 Q10		44
447	1	389		BE	BIGSRC	5		1389	B K33 S		44

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
448	1	394	CRD3SW	BCE	HOLLER,CHAR,H	8		1394	B X51 Q31 H		44
449	1	402	CRD4SW	NOP	BRANCH,CRD3SW	7		1402	N Q11 T94		44
450			*								
451	1	409	TEST7	C	SVCHAR&3,CARD7A AT COLUMN 7?	7		1409	C T13 N06		44
452	1	416	CRD5SW	BU	SVCHAR	5		1416	B T10 /		44
453	1	421		SW	MVCHAR&4	4		1421	, T68		45
454	1	425	CRD6SW	MCW	MVCHAR&6,X2	7		1425	M T70 094		45
455	1	432		CW	MVCHAR&4	4		1432	) T68		45
456	1	436		MCW	NOP2,CRD6SW	7		1436	M N28 U25		45
457	1	443		MCW	NOP2,CRD5SW	7		1443	M N28 U16		45
458	1	450		A	K10,COLCNT	7		1450	A N36 N03		45
459	1	457		BCE	COL3,COLCNT-1,5 THREE COLUMNS DONE?	8		1457	B W69 N02 5		46
460	1	465		SW	FLAG	4		1465	, Q28		46
461	1	469		BWZ	SVCHAR,COLCNT-1,2 MORE THAN SEVEN COLUMNS DONE?	8		1469	V T10 N02 2		46
462	1	477		MCW	BRNCH2,CRD5SW	7		1477	M N11 U16		46
463	1	484		MCW	0&X2,WORK7	7		1484	M 0!0 N20		46
464	1	491		C	KFMT,WORK7 FORMAT% ?	7		1491	C N27 N20		47
465	1	498		BU	SVCHAR	5		1498	B T10 /		47
466			*								
467			*		PROCESS A FORMAT STATEMENT						
468			*								
469	1	503		MCW	BRANCH,CRD3SW	7		1503	M Q11 T94		47
470	1	510		MCW	0&X3,WORK6	7		1510	M 0?0 Q17		47
471	1	517		MCW	KF,WORK6-3	7		1517	M Q18 Q14		47
472	1	524		MCW	WORK6,0&X3	7		1524	M Q17 0?0		48
473	1	531		B	SVCHAR	4		1531	B T10		48
474			*								
475	1	535	SLASH	MCW	KAT,CHAR CONVERT SLASH TO AT-SIGN	7		1535	M Q19 Q31		48
476	1	542		B	MVCHAR	4		1542	B T64		48
477			*								
478			*		NOT A CONTINUATION CARD						
479			*								
480	1	546	NOTCNT	MCW	NOP,CRD1SW	7		1546	M N49 S60		48
481	1	553		A	KP1,NSTMT	7		1553	A N66 Q22		48
482	1	560		MCW	NOP,CRD3SW	7		1560	M N49 T94		49
483	1	567		MCW	NOP,CRD4SW	7		1567	M N49 U02		49
484	1	574		MCW	5,211 MOVE LABEL TO PRINT AREA	7		1574	M 005 211		49
485	1	581		S	CNTCNT CLEAR CONTINUATION COUNT	4		1581	S Q24		49
486	1	585		MCW	NOP,CRD2SW	7		1585	M N49 T32		49
487	1	592		MCS	NSTMT,203 MOVE STATEMENT COUNT TO PRINT AREA	7		1592	Z Q22 203		49
488	1	599		W		1		1599	2		50
489	1	600		SW	MVCHAR&4	4		1600	, T68		50
490	1	604		MCW	MVCHAR&6,MVCHR2&6	7		1604	M T70 W28		50
491	1	611		CW	MVCHAR&4	4		1611	) T68		50
492	1	615		MCW	MOVE,CRD6SW	7		1615	M N37 U25		50
493	1	622	MVCHR2	LCA	GM,0	7		1622	L N29 000		50
494	1	629		SBR	X3 SAVE ADDRESS OF FIRST CHAR STORED	4		1629	H 099		50
495	1	633		SBR	MVCHAR&6	4		1633	H T70		51
496	1	637		MCW	COLON,CARD6 COLON AFTER LABEL, IF ANY	7		1637	M N34 M34		51
497	1	644		MCW	BRNCH2,CRD5SW	7		1644	M N11 U16		51

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
498	1	651		MCW	K20,COLCNT INITIALIZE COLUMN COUNTER	7		1651	M N13 N03		51
499	1	658		MCW	SAVE2A,SVCHAR&3	7		1658	M N09 T13		51
500	1	665		B	SVCHAR	4		1665	B T10		51
501				*							
502	1	669	COL3	C	0&X2,KEND END CARD?	7		1669	C 0!0 Q27		52
503	1	676		BU	SVCHAR	5		1676	B T10 /		52
504	1	681		CW	FLAG	4		1681	) Q28		52
505	1	685		B	SVCHAR	4		1685	B T10		52
506				*							
507	1	689	AT	MCW	KMINUS,CHAR CONVERT AT SIGN TO MINUS	7		1689	M Q29 Q31		52
508	1	696		B	MVCHAR	4		1696	B T64		52
509				*							
510				*	SAW AN INTERESTING CHARACTER						
511				*							
512	1	700	INTRST	BCE	TESTLC,CHAR, TEST FOR A ZONE	8		1700	B L73 Q31		52
513	1	708		BCE	TESTLC,CHAR,| RECORD MARK	8		1708	B L73 Q31 |		53
514	1	716		BCE	SLASH,CHAR,/	8		1716	B V35 Q31 /		53
515	1	724		BCE	AT,CHAR,@	8		1724	B W89 Q31 @		53
516	1	732		MCW	KSTAR,300	7		1732	M Q30 300		53
517	1	739		MCW	PROCD	4		1739	M N48		53
518	1	743		MCW	CHAR	4		1743	M Q31		53
519	1	747		B	MVCHAR	4		1747	B T64		54
520				*							
521				*	CHARACTER IS H, PROBABLY HOLLERITH						
522				*							
523	1	751	HOLLER	MCW	MVCHAR&6,X1	7		1751	M T70 089		54
524	1	758		MCW	NOP,CRD3SW	7		1758	M N49 T94		54
525	1	765		MCW	NOP,CRD4SW	7		1765	M N49 U02		54
526	1	772		MCW	BRANCH,CRD2SW	7		1772	M Q11 T32		54
527	1	779		MCW	4&X1,HCOUNT REMEMBER, SOURCE IS STORED BACKWARD	7		1779	M 0!4 Q34		54
528	1	786		BCE	AT2,HCOUNT-1,@	8		1786	B Y02 Q33 @		55
529	1	794		BWZ	NZHM1,HCOUNT-1,2	8		1794	V Y17 Q33 2		55
530	1	802	AT2	MCW	HCOUNT-2,HCOUNT ONE DIGIT OF HOLLERITH COIUNT	7		1802	M Q32 Q34		55
531	1	809		MCW	KZ2	4		1809	M Q36		55
532	1	813		B	TEST7	4		1813	B U09		55
533				*							
534				*	NO ZONE AT HCOUNT-1						
535				*							
536	1	817	NZHM1	BCE	AT3,HCOUNT,@	8		1817	B Y33 Q34 @		55
537	1	825		BWZ	NZH,HCOUNT,2	8		1825	V Y51 Q34 2		56
538	1	833	AT3	MCW	HCOUNT-2,HCOUNT	7		1833	M Q32 Q34		56
539	1	840		MCW	KZ1,HCOUNT-2	7		1840	M Q37 Q32		56
540	1	847		B	TEST7	4		1847	B U09		56
541				*							
542				*	NO ZONE AT HCOUNT. REVERSE THE DIGITS						
543				*							
544	1	851	NZH	MCW	HCOUNT,WORKH1	7		1851	M Q34 Q38		56
545	1	858		MCW	HCOUNT-2,HCOUNT	7		1858	M Q32 Q34		57
546	1	865		MCW	WORKH1,HCOUNT-2	7		1865	M Q38 Q32		57
547	1	872		B	TEST7	4		1872	B U09		57

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
548					*						
549					* CONVERT ADDRESS TO FIVE DIGITS						
550					*						
551				SFX	C						
552	1	876	ADCONV	SBR	EXIT&3	C	4	1876	H Z72		57
553	1	880		S	CNVW2A	C	4	1880	S Q40		57
554	1	884		S	CNVW2B	C	4	1884	S Q42		57
555	1	888		MZ	TOCONV,CNVW2A-1	C	7	1888	Y N60 Q39		57
556	1	895		MZ	TOCONV-2,CNVW2B-1	C	7	1895	Y N58 Q41		58
557	1	902	LOOP1	BWZ	LOOP2,CNVW2B-1,2	C	8	1902	V Z21 Q41 2		58
558	1	910		A	CNVKA0,CNVW2B	C	7	1910	A Q44 Q42		58
559	1	917		B	LOOP1	C	4	1917	B Z02		58
560	1	921	LOOP2	BWZ	LP2X,CNVW2A-1,2	C	8	1921	V Z40 Q39 2		58
561	1	929		A	CNVKQ4,CNVW2A	C	7	1929	A Q46 Q40		59
562	1	936		B	LOOP2	C	4	1936	B Z21		59
563	1	940	LP2X	A	CNVW2B-1,CNVW2A	C	7	1940	A Q41 Q40		59
564	1	947		MCW	TOCONV,CONVTD	C	7	1947	M N60 N65		59
565	1	954		MCW	CNVW2A	C	4	1954	M Q40		59
566	1	958		ZA	CONVTD	C	4	1958	? N65		59
567	1	962		MZ	*-4,CONVTD CLEAR ZONE IN OUTPUT	C	7	1962	Y Z64 N65		60
568	1	969	EXIT	B	0-0	C	4	1969	B 000		60
569				SFX							
570					*						
571	1	973	BLNKOK	BCE	TESTLC,CHAR, TEST FOR A ZONE		8	1973	B L73 Q31		60
572	1	981		S	KP1,HCOUNT		7	1981	S N66 Q34		60
573	1	988		C	HCOUNT,PZE HOLLERITH COUNT DOWN TO ZERO?		7	1988	C Q34 Q49		60
574	1	995		BU	MVCHAR NOPE, JUST MOVE THE CHARACTER		5	1995	B T64 /		60
575	2	000		MCW	MOVE2,CRD4SW		7	2000	M Q50 U02		61
576	2	007		MCW	NOP2,CRD2SW		7	2007	M N28 T32		61
577	2	014		MCW	SVCHAR&3,X1		7	2014	M T13 089		61
578	2	021		C	0&X1,COMMA		7	2021	C 010 Q51		61
579	2	028		BE	MVCHAR		5	2028	B T64 S		61
580	2	033		MCW	MVCHAR&6,*&7		7	2033	M T70 !46		62
581	2	040		MCW	0,0		7	2040	M 000 000		62
582	2	047		MCW	COMMA		4	2047	M Q51		62
583	2	051		SBR	MVCHAR&6		4	2051	H T70		62
584	2	055		A	KP1,NCHAR		7	2055	A N66 Q07		62
585	2	062		B	BUMPNS		4	2062	B T75		62
586	2	066		B	MVCHAR		4	2066	B T64		62
587					*						
588					* FINISHED READING THE SOURCE DECK						
589					*						
590	2	070	DONE	MCW	MVCHAR&6,X1		7	2070	M T70 089		63
591	2	077		LCA	GM,0&X1		7	2077	L N29 010		63
592	2	084		SBR	X1		4	2084	H 089		63
593	2	088		CC	1		2	2088	F 1		63
594	2	090		CS	332		4	2090	/ 332		63
595	2	094		CS			1	2094	/		63
596	2	095		MCS	NCHAR,205		7	2095	Z Q07 205		63
597	2	102		MCW	MSGCHR,222		7	2102	M Q67 222		64

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
598	2	109		W		1		2109	2		64
599	2	110		CC	J	2		2110	F J		64
600	2	112		MCW	NSTMT,NSTMTS	7		2112	M Q22 183		64
601	2	119		LCA	STOP,0&X1	7		2119	L Q78 0|0		64
602	2	126		SBR	X1	4		2126	H 089		64
603	2	130		SW	2&X1	4		2130	, 0|2		64
604	2	134		A	KP1,NSTMTS	7		2134	A N66 183		65
605	2	141		BCE	NOTBIG,3000,	8		2141	B J53 ?00		65
606	2	149		B	BIGSRC	4		2149	B K33		65
607	2	153	NOTBIG	SBR	CLEARL&3,2999	7		2153	H 710 R99		65
608	2	160		SBR	CLRBOT,BEGINN CHANGE ADDRESS TO CLEAR DOWN TO	7		2160	H 833 838		65
609	2	167		BSS	SNAPSH,C	5		2167	B 333 C		65
610	2	172		LCA	SCANR1,PHASID SCANNER	7		2172	L Q85 110		66
611	2	179		CS	80 GET	4		2179	/ 080		66
612	2	183		SW	1,40 READY	7		2183	, 001 040		66
613	2	190		SW	47,54 FOR	7		2190	, 047 054		66
614	2	197		SW	61,68 CARD	7		2197	, 061 068		66
615	2	204		SW	72 OVERLAY	4		2204	, 072		66
616	2	208		BCE	LOADNX,CDOVLY,N RUNNING FROM TAPE?	8		2208	B 700 769 N		67
617	2	216		R		1		2216	1		67
618	2	217		C	7,SCANR2	7		2217	C 007 Q92		67
619	2	224		BE	LOADNX	5		2224	B 700 S		67
620	2	229		B	NOSYS	4		2229	B /90		67
621			*								
622			*	SOURCE PROGRAM TOO BIG							
623			*								
624	2	233	BIGSRC	CS	332	4		2233	/ 332		67
625	2	237		CS		1		2237	/		67
626	2	238		CC	1	2		2238	F 1		68
627	2	240		MCW	MSG2,270	7		2240	M R28 270		68
628	2	247		W		1		2247	2		68
629	2	248		CC	1	2		2248	F 1		68
630	2	250		BCE	HALT2,CDOVLY,1 RUNNING FROM CARDS?	8		2250	B K63 769 1		68
631	2	258		RWD	1 NO, REWIND THE TAPE	5		2258	U %01 R		68
632	2	263	HALT2	H	HALT2	4		2263	. K63		68
633			*								
634			*	PRINT LISTING PAGE HEADING							
635			*								
636	2	267	PRTHDG	CC	1	2		2267	F 1		69
637	2	269		MCW	KAT,C12T&4 CHANGE TO BCV	7		2269	M Q19 S32		69
638	2	276		CS	299	4		2276	/ 299		69
639	2	280		A	K1,PAGNUM	7		2280	A N10 R31		69
640	2	287		MCS	PAGNUM,299	7		2287	Z R31 299		69
641	2	294		MCW	KPAGE,295	7		2294	M R39 295		69
642	2	301		MCW	80	4		2301	M 080		69
643	2	305		W		1		2305	2		70
644	2	306		CS	299	4		2306	/ 299		70
645	2	310		MCW	PAGHDG,234	7		2310	M M23 234		70
646	2	317		W		1		2317	2		70
647	2	318		CC	J	2		2318	F J		70

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
648	2	320		B	AFTHDG	4		2320	B S33		70
649			*								
650			* NO PARAMETER CARD								
651			*								
652	2	324	NOPARM	CC	1	2		2324	F 1		70
653	2	326		CS	332	4		2326	/ 332		71
654	2	330		CS		1		2330	/		71
655	2	331		MCW	MSG3,270	7		2331	M R68 270		71
656	2	338		W		1		2338	2		71
657	2	339		CC	1	2		2339	F 1		71
658	2	341		BCE	HALT3,CDOVLY,1 RUNNING FROM CARDS?	8		2341	B L54 769 1		71
659	2	349		RWD	1 NO, REWIND THE TAPE	5		2349	U %U1 R		71
660	2	354	HALT3	H	HALT3	4		2354	. L54		72
661			*								
662			* LIST COMMENT CARD								
663			*								
664	2	358	LSTCMT	MCW	FINAL,203	7		2358	M R71 203		72
665	2	365		MCW	5,211	7		2365	M 005 211		72
666	2	372		W		1		2372	2		72
667	2	373	TESTLC	BLC	DONE	5		2373	B !70 A		72
668	2	378		R		1		2378	1		72
669	2	379		B	RDLOOP	4		2379	B /74		72
670			*								
671	2	388	INTCHR	DCW	@\$/| @ INTERESTING CHARACTERS	6		2388			73
672	2	423	PAGHDG	DCW	@ SEQ STMT FORTRAN STATEMENT@	35		2423			74
673			*								
674			* CARD SAVE AREA								
675			*								
676				DA	1X78			2424	2501		
677			SAVE2		2			2425		SBFLD	
678			CARD1		6			2429		SBFLD	
679			CARD6		11			2434		SBFLD	
680			CARD7		12			2435		SBFLD	
681			CARD72		77			2500		SBFLD	
682			AZONE		78			2501		SBFLD	
683			*								
684			* CONSTANTS AND WORK AREAS								
685			*								
686	2	503	COLCNT	DCW	#2	2		2503			75
687	2	506	CARD7A	DSA	CARD7 ADDRESS OF COLUMN 7 IN SAVE AREA	3		2506	M35		75
688	2	509	SAVE2A	DSA	SAVE2	3		2509	M25		75
689	2	510	K1	DCW	1	1		2510			75
690	2	511	BRNCH2	DC	@B@	1		2511			75
691	2	513	K20	DC	20	2		2513			75
692	2	520	WORK7	DCW	#7	7		2520			75
693	2	527	KFMT	DCW	@%TAMROF@ 'FORMAT%' SPELLED BACKWARD	7		2527			75
694	2	528	NOP2	DC	@N@	1		2528			75
695	2	529	GM	DC	@}@	1		2529		GMARK	75
696	2	533	PREFIX	DCW	@000R@ DEFAULT STATEMENT PREFIX -- ARITHMETIC	4		2533			75
697	2	534	COLON	DCW	@:@	1		2534			76

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
698	2	536	K10	DCW	10		2	2536			76
699	2	537	MOVE	DC	@M@		1	2537			76
700	2	548	PROCD	DCW	@ PROCESSED @		11	2548			76
701	2	549	NOP	NOP			1	2549	N		76
702	2	554	KPARAM	DCW	@PARAM@		5	2554			76
703	2	557	CORSIZ	DCW	#3 ACTUAL MACHINE SIZE (TOP ADDR)		3	2557			76
704	2	560	TOCONV	DCW	#3 ADDRESS TO BE CONVERTED TO FIVE DIGITS		3	2560			76
705	2	565	CONVTD	DCW	#5 ADDRESS CONVERTED TO FIVE DIGITS		5	2565			77
706	2	566	KP1	DCW	&1		1	2566			77
707	2	594	STMSG	DCW	@START OF FORTRAN COMPILATION@		28	2594			77
708	2	620	SPSIZE	DCW	@MACHINE SIZE SPECIFIED IS @		26	2620			78
709	2	643	ACTSIZ	DCW	@ACTUAL MACHINE SIZE IS @		23	2643			79
710	2	648	COR5	DCW	#5 CORSIZ AS FIVE DIGITS		5	2648			79
711	2	653	TOP5	DCW	#5 TOPCOR AS FIVE DIGITS		5	2653			79
712	2	658	K3900	DCW	03900		5	2658			79
713	2	676	SIZERR	DCW	@MACHINE SIZE ERROR@		18	2676			80
714	2	722	SGTM	DCW	@SPECIFIED IS GREATER THAN ACTUAL MACHINE SIZE.@		46	2722			82
715	2	743	SGTM2	DCW	@ERROR - MACHINE SIZE @		21	2743			82
716	2	746	DOWNT0	DSA	2999 DCW @R99@		3	2746	R99		82
717	2	787	MSG1	DCW	@MESSAGE 1-SYSTEM DOES NOT FOLLOW END CARD@		41	2787			84
718	2	802	CNTMSG	DCW	@CONTINUE CD ERR@		15	2802			84
719	2	807	NCHAR	DCW	#5 NUMBER OF CHARACTERS		5	2807			84
720	2	810	BOTCOR	DSA	3000 BOTTOM OF SPACE TO STORE PROGRAM		3	2810	?00		84
721	2	811	BRANCH	DCW	@B@		1	2811			84
722	2	817	WORK6	DCW	#6		6	2817			85
723	2	818	KF	DCW	@F@		1	2818			85
724	2	819	KAT	DCW	@@@		1	2819			85
725	2	822	NSTMT	DCW	#3 NUMBER OF STATEMENTS		3	2822			85
726	2	824	CNTCNT	DCW	#2 COUNT OF CONTINUATION CARDS		2	2824			85
727	2	827	KEND	DCW	@DNE@ END SPELLED BACKWARD		3	2827			85
728	2	828	FLAG	DCW	#1 WORD MARK IS A FLAG		1	2828			85
729	2	829	KMINUS	DCW	@-@		1	2829			86
730	2	830	KSTAR	DCW	@+@		1	2830			86
731	2	831	CHAR	DCW	#1 CHARACTER FROM INPUT		1	2831			86
732	2	834	HCOUNT	DCW	#3 HOLLERITH COUNT		3	2834			86
733	2	836	KZ2	DCW	00 TWO ZEROS		2	2836			86
734	2	837	KZ1	DCW	0		1	2837			86
735	2	838	WORKH1	DCW	#1 WORK SPACE FOR HOLLERITH COUNT		1	2838			86
736	2	840	CNVW2A	DCW	#2 WORK SPACE FOR ADDRESS CONVERSION		2	2840			87
737	2	842	CNVW2B	DCW	#2 WORK SPACE FOR ADDRESS CONVERSION		2	2842			87
738	2	844	CNVKA0	DCW	@A0@ CONSTANT FOR ADDRESS CONVERSION		2	2844			87
739	2	846	CNVKQ4	DCW	@?4@ CONSTANT FOR ADDRESS CONVERSION		2	2846			87
740	2	849	PZE	DCW	&000 PLUS ZERO		3	2849			87
741	2	850	MOVE2	MCW			1	2850	M		87
742	2	851	COMMA	DCW	@,@		1	2851			87
743	2	867	MSGCHR	DCW	@INPUT CHARACTERS@		16	2867			88
744	2	878	STOP	DCW	@ }POTS:R000@ STOP SPELLED BACKWARD, ETC.		11	2878			88
745	2	885	SCANR1	DCW	@SCANNER@		7	2885			88
746	2	892	SCANR2	DCW	@SCANNER@		7	2892			89
747	2	928	MSG2	DCW	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@		36	2928			90

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SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
748	2	931	PAGNUM	DCW	#3	3		2931			90
749	2	939	KPAGE	DCW	@ PAGE @	8		2939			91
750	2	968	MSG3	DCW	@MESSAGE 3 - NO PARAMETER CARD@	29		2968			91
751	2	971	FINAL	DCW	#3	3		2971			92
752				ORG	2999				2999		
753	2	999	GMWM	DCW	@}@	1		2999		GMARK	93
754				END	BEGINN				/ 838 080		

SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS
ACTSIZ	2643	ADCONV	1876	ADR5S	658	AFTHDG	1233	ARYSIZ	160	ARYTOP	194	AT	1689
AT2	1802	AT3	1833	AZONE	2501	BEGINN	838	BIGNUF	1096	BIGSRC	2233	BLANKL	834
BLNKOK	1973	BOTCOR	2810	BOTFMT	154	BRANCH	2811	BRNCH2	2511	BUMP3S	632	BUMPNS	1375
C12T	1228	C1410	695	CARD	853	CARD1	2429	CARD6	2434	CARD7	2435	CARD72	2500
CARD7A	2506	CDOVLY	769	CHAR	2831	CLEAR	1103	CLEARH	433	CLEARL	707	CLRBOT	833
CLRLL	742	CLRWML	754	CNTCNT	2824	CNTMSG	2802	CNTOK	1302	CNVKA0	2844	CNVKQ4	2846
CNVW2A	2840	CNVW2B	2842	COL3	1669	COLCNT	2503	COLON	2534	COMMA	2851	CONDNS	693
CONTS	568	CONVTD	2565	COR5	2648	CORSIZ	2557	CRDISW	1260	CRD2SW	1332	CRD3SW	1394
CRD4SW	1402	CRD5SW	1416	CRD6SW	1425	DOCNT	151	DONE	2070	DOTSS	651	DOWMS	520
DOWNT0	2746	ECOUNT	837	EINITL	835	EXITC	1969	EXITS	564	EXPF	120	FINAL	2971
FLAG	2828	FLOATF	125	FMTSW	696	GETS	497	GLOBER	184	GM	2529	GMWM	2999
GOTXL	185	HALT1	1207	HALT2	2263	HALT3	2354	HALTS	563	HCCOUNT	2834	HOLLER	1751
IMOD	690	INTCHR	2388	INTRST	1700	K1	2510	K10	2536	K20	2513	K3900	2658
K999L	830	K9S	665	KAT	2819	KEND	2827	KF	2818	KFMT	2527	KM10S	667
KMINUS	2829	KP1	2566	KP15S	672	KP1S	670	KP2S	662	KPAGE	2939	KPARAM	2554
KSTAR	2830	KZ1	2837	KZ2	2836	KZ3S	661	LOADNX	700	LOGF	119	LOOP1C	1902
LOOP2C	1921	LOOPS	459	LP2XC	1940	LSTCMT	2358	MANTIS	692	MOVE	2537	MOVE2	2850
MOVECD	1211	MSG1	2787	MSG2	2928	MSG3	2968	MSGCHR	2867	MVCHAR	1364	MVCHR2	1622
NCHAR	2807	NEGAR2	142	NEGAR3	157	NEGARY	163	NOP	2549	NOP2	2528	NOPARM	2324
NOSYS	1190	NOTBIG	2153	NOTCNT	1546	NSTMT	2822	NSTMTS	183	NZH	1851	NZHM1	1817
ONEL	836	PAGHDG	2423	PAGNUM	2931	PARAM	699	PHASID	110	PREFIX	2533	PROC	2548
PRTHDG	2267	PSGTM	1077	PWORD	685	PZE	2849	RDAGIN	773	RDLOOP	1174	RELTAB	188
RX1S	535	SAVE2	2425	SAVE2A	2509	SAWABS	122	SAWNEG	123	SCANR1	2885	SCANR2	2892
SEQTAB	148	SERIES	117	SGTM	2722	SGTM2	2743	SINCOS	118	SIZERR	2676	SKIPS	621
SLASH	1535	SNAPSH	333	SNAPSW	694	SPSIZE	2620	STMSG	2594	STOP	2878	SUBENT	191
SUBSCR	116	SVCHAR	1310	SX1S	416	SX3S	409	SXXS	402	TBLBOT	145	TEST7	1409
TESTLC	2373	TOCONV	2560	TOP5	2653	TOPCOR	688	TPERRL	797	TPREAD	780	USEACT	1089
W2AS	664	W2BS	669	WORK6	2817	WORK7	2520	WORKH1	2838	X1	89	X2	94
X3	99	XFIXF	124	XQTDS	680	XXXXX1	89	XXXXX2	94	XXXXX3	99		