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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	1				0001		
115				*							
116				*	STARTS HERE IF BOOTED FROM TAPE						
117				*							
118	1		START	BER	LDERR BOOT ERROR?	5	0001	B 010	L		4
119	6			B	BEGINN NO, START UP	4	0006	B 838			4
120	10		LDERR	H	LDERR	4	0010	. 010			4
121	39			DCW	@0 @	26	0039				4
122				*							
123				*	LEFT OVER FROM THE REST OF THE OVERLAY CARD						
124				*							
125	40			NOP	0,0	7	0040	N 000 000			5
126	47			SW	40,40	7	0047	, 040 040			5
127	54			SW	40,40	7	0054	, 040 040			5
128	61			SW	40,40	7	0061	, 040 040			5
129	68			B	BEGINN	4	0068	B 838			5
130	80			DCW	@009750023@	9	0080				6
131				*							
132	86			DC	@ @	6	0086				6
133	89	X1		DCW	@000@	3	0089				6
134		XXXXX1	EQU	X1	FOR USE IN SFX REGIONS			0089			
135	91			DC	@00@	2	0091				6
136	94	X2		DCW	@000@	3	0094				6
137		XXXXX2	EQU	X2	FOR USE IN SFX REGIONS			0094			
138	96			DC	@00@	2	0096				6
139	99	X3		DCW	@000@	3	0099				6
140		XXXXX3	EQU	X3	FOR USE IN SFX REGIONS			0099			
141	104			DC	@0 @	5	0104				6
142	110	PHASID	DCW	@LOADER@	PHASE ID, FOR SNAPSHOT	6	0110				6
143	111			DCW	#1 WM CLEARED IF DO STATEMENT APPEARS	1	0111				7
144	112			DCW	#1 WM CLEARED IF DO STATEMENT APPEARS	1	0112				7
145	113			DCW	#1 WM CLEARED IF DO STATEMENT APPEARS	1	0113				7
146	114			DCW	#1 WM CLEARED WHEN AN I/O LIST OF DO IS PROCESSED	1	0114				7
147	115			DCW	#1 WM CLEARED IF I/O LIST AND NOT LIMITED FORMAT	1	0115				7

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148		116	SUBSCR	DCW	#1 WM CLEARED IF SUBSCRIPT CODE NEEDED		1	0116			7
149		117	SERIES	DCW	#1 NEED SERIES ROUTINE IF NO WM		1	0117			7
150		118	SINCOS	DCW	#1 SAW SIN F OR COS F IF NO WM		1	0118			8
151		119	LOGF	DCW	#1 SAW LOG F IF NO WM		1	0119			8
152		120	EXPF	DCW	#1 SAW EXP F IF NO WM		1	0120			8
153		121		DCW	#1 SAW ATAN F IF NO WM		1	0121			8
154		122	SAWABS	DCW	#1 SAW ABS F IF NO WM		1	0122			8
155		123	SAWNEG	DCW	#1 SAW NEGATION OPERATOR (UNARY MINUS) IF NO WM		1	0123			8
156		124	XFIXF	DCW	#1 SAW XFIX F IF NO WM		1	0124			8
157		125	FLOATF	DCW	#1 SAW FLOAT F IF NO WM		1	0125			9
158		126		DCW	#1 SAW SQRT F IF NO WM		1	0126			9
159		127		DCW	#1 SAW USER FUNCTION R IF NO WM		1	0127			9
160		128		DCW	#1 SAW USER FUNCTION U IF NO WM		1	0128			9
161		129		DCW	#1 SAW USER FUNCTION P IF NO WM		1	0129			9
162		130		DCW	#1 SAW USER FUNCTION W IF NO WM		1	0130			9
163		131		DCW	#1 SAW USER FUNCTION Y IF NO WM		1	0131			9
164		132		DCW	#1 SAW USER FUNCTION Z IF NO WM		1	0132			10
165		133		DCW	#1 SAW USER FUNCTION J IF NO WM		1	0133			10
166		134		DCW	#1 SAW USER FUNCTION K IF NO WM		1	0134			10
167		135		DCW	#1 SAW USER FUNCTION L IF NO WM		1	0135			10
168		136		DCW	#1 SAW USER FUNCTION M IF NO WM		1	0136			10
169		137		DCW	#1 SAW USER FUNCTION D IF NO WM		1	0137			10
170		138		DCW	#1 SAW USER FUNCTION H IF NO WM		1	0138			10
171		139		DCW	#1 SAW XLINK F IF NO WM		1	0139			11
172		142	NEGAR2	DCW	#3 LOOKS LIKE NEGARY -- SEE PHASE 20		3	0142			11
173		145	TBLBOT	DCW	#3 ONE BELOW NUMBERS, FORMATS, I/O LISTS		3	0145			11
174		148	SEQTAB	DCW	#3 BOTTOM OF SEQUENCE NUMBER TABLE - 2		3	0148			11
175		151	DOCNT	DCW	#3 COUNT OF DO STATEMENTS		3	0151			11
176		154	BOTFMT	DCW	#3 BOTTOM OF FORMAT STRINGS OR NUMBER TABLE - 1		3	0154			11
177		157	NEGAR3	DCW	#3 LOOKS LIKE NEGARY -- SEE PHASE 20		3	0157			11
178		160	ARYSIZ	DCW	#3 TOTAL ARRAY SIZE & 2		3	0160			12
179		163	NEGARY	DCW	#3 16000 - ARYSIZ		3	0163			12
180		180		DC	#17		17	0180			12
181		183	NSTMTS	DCW	#3 NUMBER OF STATEMENTS, INCLUDING GENERATED STOP		3	0183			12
182		184	GLOBER	DC	#1 GLOBAL ERROR FLAG -- WM MEANS ERROR		1	0184			12
183		185	GOTXL	DCW	#1 XLINK F WAS REFERENCED IF NO WM		1	0185			12
184		188	RELTAB	DCW	#3 RELOCATABLE FUNCTION TABLE ENTRY ADDRESSES		3	0188			12
185		191	SUBENT	DCW	#3 ENTRY TO SUBSCRIPT ROUTINE		3	0191			12
186		194	ARYTOP	DCW	#3 TOP OF ARRAYS IN OBJECT CODE		3	0194			12
187		195		DC	#1		1	0195			12
188		199		DCW	@V3M4@		4	0199			13
189			ORG		333				0333		
190			*								
191			* SNAPSHOT ROUTINE								
192			*								
193			SFX		S						
194	333		SNAPSH	SBR	EXIT&3	S	4	0333	H 567		14
195	337			SBR	SXX&6	S	4	0337	H 408		14
196	341			MCW	KZ3,ADR5-2 START FIVE-DIGIT ADDRESS AT ZERO	S	7	0341	M 661 656		14
197	348			MCW	XXXXX3,SX3&6	S	7	0348	M 099 415		14

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
198		355		MCW	XXXXX1,SX1&6	S	7	0355	M 089 422		14
199		362		SBR	XXXXX1,1	S	7	0362	H 089 001		14
200		369		SBR	XXXXX3,202	S	7	0369	H 099 202		15
201		376		CS	332	S	4	0376	/ 332		15
202		380		CS		S	1	0380	/		15
203		381		MCW	PHASID,210	S	7	0381	M 110 210		15
204		388		BSS	SKIP,F	S	5	0388	B 621 F		15
205				*							
206				*	PRINT A HEADER						
207				*							
208		393		CC	1	S	2	0393	F 1		15
209		395		MCW	XXXXX2,250	S	7	0395	M 094 250		15
210		402	SXX	SBR	216,0	S	7	0402	H 216 000	RETURN ADDRESS WAS STORED IN B	16
211		409	SX3	SBR	256,0	S	7	0409	H 256 000	X3 WAS STORED IN B	16
212		416	SX1	SBR	244,0	S	7	0416	H 244 000	X1 WAS STORED IN B	16
213		423		W		S	1	0423	2		16
214		424		CC	K	S	2	0424	F K		16
215		426		ZA	KP2,W2A	S	7	0426	? 662 664		16
216		433	CLEARH	CS	332	S	4	0433	/ 332		16
217		437		CS		S	1	0437	/		17
218		438		CC	J	S	2	0438	F J		17
219		440		MCW	ADR5,306	S	7	0440	M 658 306	FIVE-DIGIT ADDRESS	17
220		447		MCW		S	1	0447	M		17
221		448		SBR	LOOP&6	S	4	0448	H 465		17
222		452		MCW	K9,W2B-1	S	7	0452	M 665 668		17
223		459	LOOP	MCW	W2B-1,000	S	7	0459	M 668 000		17
224		466		MCW	DOTS	S	4	0466	M 651		18
225		470		SBR	LOOP&6	S	4	0470	H 465		18
226		474		A	KM10,W2B	S	7	0474	A 667 669	ADD I0 = -10	18
227		481		BWZ	LOOP,W2B-1,2	S	8	0481	V 459 668 2	NO ZONE IN COUNTER HIGH DIGIT?	18
228		489		A	KP1,ADR5-2	S	7	0489	A 670 656	BUMP HUNDREDS DIGIT OF ADDRESS	18
229		496		W		S	1	0496	2		18
230		497	GET	SW	0&X3	S	4	0497	, 0?0	MOVE DATA AND WM TO PRINT AREA	18
231		501		MCW	0&X1,0&X3	S	7	0501	M 0 0 0?0		19
232		508		BW	DOWM,0&X1	S	8	0508	V 520 0 0 1	SKIP CLEARING PRINT AREA WM	19
233		516		CW	0&X3	S	4	0516	) 0?0		19
234		520	DOWM	C	XXXXX1,TOPCOR	S	7	0520	C 089 688	DONE?	19
235		527		BU	CONT	S	5	0527	B 568 /	NO	19
236		532		W		S	1	0532	2		19
237		533		WM		S	2	0533	2 )		19
238		535	RX1	MCW	SX1&6,XXXXX1	S	7	0535	M 422 089	RESTORE INDEX REGS	20
239		542		MCW	SX3&6,XXXXX3	S	7	0542	M 415 099		20
240		549		CS	332	S	4	0549	/ 332		20
241		553		CS		S	1	0553	/		20
242		554		BSS	HALT,G	S	5	0554	B 563 G		20
243		559		B	EXIT	S	4	0559	B 564		20
244		563	HALT	H		S	1	0563	.		20
245		564	EXIT	B	0-0	S	4	0564	B 000		21
246		568	CONT	SBR	XXXXX1,1&X1	S	7	0568	H 089 0 1		21
247		575		BCE	BUMP3,XXXXX3-2,2	S	8	0575	B 632 097 2		21

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
248	583		SBR		XXXXX3,201	S	7	0583	H 099 201		21
249	590		W			S	1	0590	2		21
250	591		WM			S	2	0591	2 )		21
251	593		A		KP1,W2A	S	7	0593	A 670 664		21
252	600		C		W2A,KP15	S	7	0600	C 664 672		22
253	607		BU		CLEARH	S	5	0607	B 433 /		22
254	612		S		W2A	S	4	0612	S 664		22
255	616		CCB		CLEARH,1	S	5	0616	F 433 1		22
256	621	SKIP	MCW		XQTD,220	S	7	0621	M 680 220		22
257	628		W		RX1	S	4	0628	2 535		22
258	632	BUMP3	A		KP1,XXXXX3	S	7	0632	A 670 099		22
259	639		B		GET	S	4	0639	B 497		23
260	651	DOTS	DCW		@9.....@	S	9	0651			23
261	653		DCW		@9-@	S	2	0653			23
262	658	ADR5	DCW		00000 FIVE DIGIT ADDRESS	S	5	0658			23
263	661	KZ3	DCW		000	S	3	0661			23
264	662	KP2	DCW		&2	S	1	0662			23
265	664	W2A	DCW		#2	S	2	0664			23
266	665	K9	DCW		9	S	1	0665			24
267	667	KM10	DCW		@I0@	S	2	0667			24
268	669	W2B	DCW		#2	S	2	0669			24
269	670	KP1	DCW		&1	S	1	0670			24
270	672	KP15	DCW		&15	S	2	0672			24
271	680	XQTD	DCW		@EXECUTED@	S	8	0680			24
272			SFX		END OF SNAPSHOT ROUTINE						
273			*								
274			*		STORAGE FOR PARAMETER CARD						
275			*								
276			DA		1X19			0681	0699		
277	685	PWORD	5		THE WORD PARAM			0685		SBFLD	
278	688	TOPCOR	8		TOP CORE ADDRESS FROM PARAM CARD			0688		SBFLD	
279	690	IMOD	10		INTEGER MODULUS -- NUMBER OF DIGITS			0690		SBFLD	
280	692	MANTIS	12		FLOATING POINT MANTISSA DIGITS			0692		SBFLD	
281	693	CONDNS	13		P FOR CONDENSED DECK			0693		SBFLD	
282	694	SNAPSW	14		S FOR SNAPSHOT			0694		SBFLD	
283	695	C1410	15		T IF RUN ON 1410 IN 1401 COMPATIBILITY MODE			0695		SBFLD	
284	696	FMTSW	16		X FOR NO FORMAT, L FOR LIMITED FORMAT			0696		SBFLD	
285			*		BLANK FOR ORDINARY, A FOR A CONVERSION						
286	699	PARAM	19		PARAMETER CARD IS STORED HERE			0699		SBFLD	
287			*								
288			*		LOAD NEXT OVERLAY						
289			*								
290			SFX		L			L			
291	700	LOADNX	MCW		CLRBOT-2,K999-2 SET CLEAR END HIGH DIGIT	L	7	0700	M 831 828		25
292	707	CLEARL	CS		0-0	L	4	0707	/ 000		25
293	711		SBR		CLEARL&3	L	4	0711	H 710		25
294	715		C		CLEARL&3,K999	L	7	0715	C 710 830		25
295	722		BU		CLEARL	L	5	0722	B 707 /		25
296	727		SW		CLRWM&4	L	4	0727	, 758		25
297	731		MCW		CLEARL&3,CLRWM&6	L	7	0731	M 710 760		25

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
298		738		CW	CLRWM&4	L	4	0738	) 758		26
299		742	CLRL	C	CLRWM&6,CLRBOT	L	7	0742	C 760 833		26
300		749		BE	CDOVLY LOAD THE OVERLAY	L	5	0749	B 769 S		26
301		754	CLRWM	LCA	BLANK,0 CLEAR WITH BLANK AND WORD MARK	L	7	0754	L 834 000		26
302		761		SBR	CLRWM&6	L	4	0761	H 760		26
303		765		B	CLRL	L	4	0765	B 742		26
304		769	CDOVLY	R	40 CARD OVERLAY UNLESS NOP	L	4	0769	1 040		26
305		773	RDAGIN	MCW	EINIT,ECOUNT INITIALIZE ERROR COUNT	L	7	0773	M 835 837		27
306		780	TPREAD	RTW	1,BEGINN LOAD OVERLAY FROM TAPE	L	8	0780	L %U1 838 R		27
307		788		BER	TPERR ERROR?	L	5	0788	B 797 L		27
308		793		B	BEGINN NO, RUN THE OVERLAY	L	4	0793	B 838		27
309		797	TPERR	BSP	1	L	5	0797	U %U1 B		27
310		802		S	ONE,ECOUNT	L	7	0802	S 836 837		27
311		809		BWZ	TPREAD,ECOUNT,B STILL POSITIVE?	L	8	0809	V 780 837 B		28
312		817		H	3333,3333 TOO MANY TAPE ERRORS	L	7	0817	. C33 C33		28
313		824		B	RDAGIN READ AGAIN	L	4	0824	B 773		28
314		830	K999	DSA	999	L	3	0830	999		28
315		833	CLRBOT	DCW	#3 ADDRESS TO CLEAR DOWN TO	L	3	0833			28
316		834	BLANK	DCW	#1	L	1	0834			28
317		835	EINIT	DCW	&9 INITIAL ERROR COUNT	L	1	0835			28
318		836	ONE	DCW	&1	L	1	0836			29
319		837	ECOUNT	DCW	#1	L	1	0837			29
320				SFX	END OF LOAD NEXT OVERLAY ROUTINE						
321				*							
322				*	START HERE						
323				*							
324		838	BEGINN	BCE	CARD,1, BEING LOADED FROM CARDS?	8	0838	B 853 001			29
325		846		MCW	NOP,CDOVLY TURN OFF CARD OVERLAY	7	0846	M N49 769			29
326		853	CARD	CS	80	4	0853	/ 080			29
327		857		SW	1,GM	7	0857	, 001 N29			29
328		864		SW	81,84	7	0864	, 081 084			29
329		871		CS	332	4	0871	/ 332			30
330		875		CS		1	0875	/			30
331				*							
332				*	READ AND CHECK PARAMETER CARD						
333				*							
334		876		R	READ PARAMETER CARD	1	0876	1			30
335		877		LCA	19,PARAM SAVE IT	7	0877	L 019 699			30
336		884		C	PARAM-14,KPARAM IS IT A PARAMETER CARD?	7	0884	C 685 N54			30
337		891		BU	NOPARM NO, ANNOUNCE ERROR	5	0891	B L24 /			30
338		896		SW	73 SET WORD MARKS FOR	4	0896	, 073			30
339		900		SW	6,7 FORTTRAN MARGINS	7	0900	, 006 007			31
340		907		SW	TOPCOR-2	4	0907	, 686			31
341		911		MCW	80,PWORD	7	0911	M 080 685			31
342				*							
343				*	DETERMINE THIS MACHINE'S CORE SIZE, COMPARE IT TO						
344				*	SIZE ON PARAMETER CARD						
345				*							
346		918		CS	0-0	4	0918	/ 000			31
347		922		SBR	CORSIZ	4	0922	H N57			31

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
348		926		MCW	TOPCOR,TOCONV	7		0926	M 688 N60		31
349		933		B	ADCONV COVERT TOPCOR TO FIVE DIGITS	4		0933	B Y76		31
350		937		MCW	CONVTD, TOP5	7		0937	M N65 O53		32
351		944		MCW	CORSIZ, TOCONV	7		0944	M N57 N60		32
352		951		B	ADCONV CONVERT CORSIZ TO FIVE DIGITS	4		0951	B Y76		32
353		955		MCW	CONVTD, COR5	7		0955	M N65 O48		32
354		962		A	KP1, TOP5 TOP ADDR + 1 = SIZE	7		0962	A N66 O53		32
355		969		A	KP1, COR5 COR ADDR + 1 = SIZE	7		0969	A N66 O48		32
356		976		CS	332	4		0976	/ 332		33
357		980		CS		1		0980	/		33
358		981		CC	1	2		0981	F 1		33
359		983		CS	332	4		0983	/ 332		33
360		987		CS		1		0987	/		33
361		988		MCW	STMSG, 228 START FORTRAN COMPILATION MSG	7		0988	M N94 228		33
362		995		W		1		0995	2		33
363		996		CC	J	2		0996	F J		34
364		998		MCW	TOP5, 231	7		0998	M O53 231		34
365	1	005		MCW	SPSIZE SPECIFIED SIZE	4		1005	M O20		34
366	1	009		W		1		1009	2		34
367	1	010		CS	235	4		1010	/ 235		34
368	1	014		MCW	COR5, 228	7		1014	M O48 228		34
369	1	021		MCW	ACTSIZ ACTUAL SIZE	4		1021	M O43		34
370	1	025		BCE	BIGNUF, C1410, T COMPILING FOR 1410 COMPATIBILITY?	8		1025	B  96 695 T		35
371	1	033		W		1		1033	2		35
372	1	034		C	COR5, TOP5	7		1034	C O48 O53		35
373	1	041		BH	PSGTM PRINT SPEC SIZE GT MACH SIZE	5		1041	B  77 U		35
374	1	046		C	TOP5, K3900 COMPARE TOP TO 3900	7		1046	C O53 O58		35
375	1	053		BL	BIGNUF	5		1053	B  96 T		35
376	1	058		CC	J	2		1058	F J		35
377	1	060		CS	332	4		1060	/ 332		36
378	1	064		CS		1		1064	/		36
379	1	065		MCW	SIZERR, 218 MACHINE SIZE ERROR	7		1065	M O76 218		36
380	1	072		W		1		1072	2		36
381	1	073		B	USEACT	4		1073	B  89		36
382	1	077	PSGTM	MCW	SGTM, 267 SPEC. SIZE GT MACH. SIZE MSG	7		1077	M P22 267		36
383	1	084		MCW	SGTM2 REST OF THE MESSAGE	4		1084	M P43		36
384	1	088		W		1		1088	2		37
385	1	089	USEACT	MCW	CORSIZ, TOPCOR USE ACTUAL SIZE	7		1089	M N57 688		37
386	1	096	BIGNUF	MCW	TOPCOR, CLEAR&3	7		1096	M 688 /06		37
387				*							
388				*	CLEAR FROM TOP OF THIS MACHINE'S MEMORY DOWN TO DOWNT0						
389				*							
390	1	103	CLEAR	CS	0-0	4		1103	/ 000		37
391	1	107		SBR	CLEAR&3	4		1107	H /06		37
392	1	111		C	CLEAR&3, DOWNT0	7		1111	C /06 P46		37
393	1	118		BU	CLEAR	5		1118	B /03 /		37
394				*							
395	1	123		R		1		1123	1		38
396	1	124		MZ	*-6, AZONE SET A ZONE AFTER CARD STORAGE AREA	7		1124	Y /24 N01		38
397	1	131		MZ	*-6, INTRST&7 SET A ZONE IN BCE D-MODIFIER	7		1131	Y /31 X07		38

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
398	1	138		MZ	*-6,BLNKOK&7 , ,	7		1138	Y /38 Z80		38
399	1	145		MZ	*-6,INTCHR-1 ADD A ZONE TO INTERESTING CHARS	7		1145	Y /45 L87		38
400	1	152		MCW	PREFIX,CARD1-1 SET DEFAULT PREFIX	7		1152	M N33 M28		38
401	1	159		MCW	TOPCOR,*&4	7		1159	M 688 /69		39
402	1	166		CW	0-0	4		1166	) 000		39
403	1	170		SBR	MVCHAR&6	4		1170	H T70		39
404				*							
405				*	PROCESS NEXT CARD						
406				*							
407	1	174	RDLOOP	BW	MOVECD,FLAG	8		1174	V S11 Q28 1		39
408	1	182		BCE	DONE,1, :	8		1182	B !70 001 :		39
409				*							
410				*	NO SYSTEM AFTER END CARD						
411				*							
412	1	190	NOSYS	CC	1	2		1190	F 1		39
413	1	192		CS	332	4		1192	/ 332		39
414	1	196		CS		1		1196	/		40
415	1	197		MCW	MSG1,270	7		1197	M P87 270		40
416	1	204		W		1		1204	2		40
417	1	205		CC	1	2		1205	F 1		40
418	1	207	HALT1	H	HALT1	4		1207	. S07		40
419				*							
420				*	MOVE CARD TO SAVE AREA						
421				*							
422	1	211	MOVECD	MCW	72,CARD72 MOVE CARD TO SAVE AREA	7		1211	M 072 N00		40
423	1	218		MCW		1		1218	M		40
424	1	219		MCW		1		1219	M		41
425	1	220		BCE	DONE,CARD1, :	8		1220	B !70 M29 :		41
426	1	228	C12T	BIN	PRTHDG, UNCONDITIONAL AT FIRST, BECOMES BCV	5		1228	B K67		41
427	1	233	AFTHDG	CS	300	4		1233	/ 300		41
428	1	237		CS		1		1237	/		41
429	1	238		MCW	72,283 MOVE CARD TO PRINT AREA	7		1238	M 072 283		41
430	1	245		MCW	6,215	7		1245	M 006 215		41
431	1	252		BCE	LSTCMT,CARD1,C PRINT NOW IF COMMENT	8		1252	B L58 M29 C		42
432	1	260	CRD1SW	B	NOTCNT BECOMES NOP AFTER FIRST CARD	4		1260	B V46		42
433	1	264		BCE	NOTCNT,CARD6,0	8		1264	B V46 M34 0		42
434	1	272		BCE	NOTCNT,CARD6,	8		1272	B V46 M34		42
435				*							
436				*	CONTINUATION CARD						
437				*							
438	1	280		A	KP1,CNTCNT BUMP CONTINUATION COUNT	7		1280	A N66 Q24		42
439	1	287		BCE	CNTOK,CNTCNT-1,0 NINE OR FEWER?	8		1287	B T02 Q23 0		43
440	1	295		MCW	CNTMSG,300 PUT ERROR MSG IN PRINT AREA	7		1295	M Q02 300		43
441	1	302	CNTOK	W	LIST THE CARD	1		1302	2		43
442	1	303		MCW	CARD7A,SVCHAR&3 SET SAVE CHAR ADDR TO COL 7	7		1303	M N06 T13		43
443				*							
444				*	PROCESS THE CARD (NOTCNT COMES BACK HERE)						
445				*							
446	1	310	SVCHAR	MCW	0-0,CHAR SAVE A CHARACTER	7		1310	M 000 Q31		43
447	1	317		SW	SVCHAR&1	4		1317	, T11		43

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
448	1	321		A	K1,SVCHAR&3			7 1321	A N10 T13		44
449	1	328		CW	SVCHAR&1			4 1328	) T11		44
450	1	332	CRD2SW	NOP	BLNKOK			4 1332	N Z73		44
451	1	336		BCE	SVCHAR,CHAR,			8 1336	B T10 Q31		44
452	1	344		MCW	CHAR,*&8			7 1344	M Q31 T58		44
453	1	351		BCE	INTRST,INTCHR,0			8 1351	B X00 L88 0		44
454					CHAIN 5					MACRO	
455				BCE				1 1359	B	GEN	44
456				BCE				1 1360	B	GEN	45
457				BCE				1 1361	B	GEN	45
458				BCE				1 1362	B	GEN	45
459				BCE				1 1363	B	GEN	45
460	1	364	MVCHAR	MCW	CHAR,0			7 1364	M Q31 000		45
461	1	371		SBR	MVCHAR&6			4 1371	H T70		45
462	1	375	BUMPNS	A	KP1,NCHAR			7 1375	A N66 Q07		45
463	1	382		C	MVCHAR&6,BOTCOR			7 1382	C T70 Q10		46
464	1	389		BE	BIGSRC			5 1389	B K33 S		46
465	1	394	CRD3SW	BCE	HOLLER,CHAR,H			8 1394	B X51 Q31 H		46
466	1	402	CRD4SW	NOP	BRANCH,CRD3SW			7 1402	N Q11 T94		46
467				*							
468	1	409	TEST7	C	SVCHAR&3,CARD7A			7 1409	C T13 N06		46
469	1	416	CRD5SW	BU	SVCHAR			5 1416	B T10 /		46
470	1	421		SW	MVCHAR&4			4 1421	, T68		47
471	1	425	CRD6SW	MCW	MVCHAR&6,X2			7 1425	M T70 094		47
472	1	432		CW	MVCHAR&4			4 1432	) T68		47
473	1	436		MCW	NOP2,CRD6SW			7 1436	M N28 U25		47
474	1	443		MCW	NOP2,CRD5SW			7 1443	M N28 U16		47
475	1	450		A	K10,COLCNT			7 1450	A N36 N03		47
476	1	457		BCE	COL3,COLCNT-1,5			8 1457	B W69 N02 5		48
477	1	465		SW	FLAG			4 1465	, Q28		48
478	1	469		BWZ	SVCHAR,COLCNT-1,2			8 1469	V T10 N02 2		48
479	1	477		MCW	BRNCH2,CRD5SW			7 1477	M N11 U16		48
480	1	484		MCW	0&X2,WORK7			7 1484	M 0!0 N20		48
481	1	491		C	KFMT,WORK7			7 1491	C N27 N20		49
482	1	498		BU	SVCHAR			5 1498	B T10 /		49
483				*							
484				*	PROCESS A FORMAT STATEMENT						
485				*							
486	1	503		MCW	BRANCH,CRD3SW			7 1503	M Q11 T94		49
487	1	510		MCW	0&X3,WORK6			7 1510	M 0?0 Q17		49
488	1	517		MCW	KF,WORK6-3			7 1517	M Q18 Q14		49
489	1	524		MCW	WORK6,0&X3			7 1524	M Q17 0?0		50
490	1	531		B	SVCHAR			4 1531	B T10		50
491				*							
492	1	535	SLASH	MCW	KAT,CHAR			7 1535	M Q19 Q31		50
493	1	542		B	MVCHAR			4 1542	B T64		50
494				*							
495				*	NOT A CONTINUATION CARD						
496				*							
497	1	546	NOTCNT	MCW	NOP,CRD1SW			7 1546	M N49 S60		50



SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
498	1	553		A	KP1,NSTMT	7		1553	A N66 Q22		50
499	1	560		MCW	NOP,CRD3SW	7		1560	M N49 T94		51
500	1	567		MCW	NOP,CRD4SW	7		1567	M N49 U02		51
501	1	574		MCW	5,211 MOVE LABEL TO PRINT AREA	7		1574	M 005 211		51
502	1	581		S	CNTCNT CLEAR CONTINUATION COUNT	4		1581	S Q24		51
503	1	585		MCW	NOP,CRD2SW	7		1585	M N49 T32		51
504	1	592		MCS	NSTMT,203 MOVE STATEMENT COUNT TO PRINT AREA	7		1592	Z Q22 203		51
505	1	599		W		1		1599	2		52
506	1	600		SW	MVCHAR&4	4		1600	, T68		52
507	1	604		MCW	MVCHAR&6,MVCHR2&6	7		1604	M T70 W28		52
508	1	611		CW	MVCHAR&4	4		1611	) T68		52
509	1	615		MCW	MOVE,CRD6SW	7		1615	M N37 U25		52
510	1	622	MVCHR2	LCA	GM,0	7		1622	L N29 000		52
511	1	629		SBR	X3 SAVE ADDRESS OF FIRST CHAR STORED	4		1629	H 099		52
512	1	633		SBR	MVCHAR&6	4		1633	H T70		53
513	1	637		MCW	COLON,CARD6 COLON AFTER LABEL, IF ANY	7		1637	M N34 M34		53
514	1	644		MCW	BRNCH2,CRD5SW	7		1644	M N11 U16		53
515	1	651		MCW	K20,COLCNT INITIALIZE COLUMN COUNTER	7		1651	M N13 N03		53
516	1	658		MCW	SAVE2A,SVCHAR&3	7		1658	M N09 T13		53
517	1	665		B	SVCHAR	4		1665	B T10		53
518				*							
519	1	669	COL3	C	0&X2,KEND END CARD?	7		1669	C 0!0 Q27		54
520	1	676		BU	SVCHAR	5		1676	B T10 /		54
521	1	681		CW	FLAG	4		1681	) Q28		54
522	1	685		B	SVCHAR	4		1685	B T10		54
523				*							
524	1	689	AT	MCW	KMINUS,CHAR CONVERT AT SIGN TO MINUS	7		1689	M Q29 Q31		54
525	1	696		B	MVCHAR	4		1696	B T64		54
526				*							
527				*	SAW AN INTERESTING CHARACTER						
528				*							
529	1	700	INTRST	BCE	TESTLC,CHAR, TEST FOR A ZONE	8		1700	B L73 Q31		54
530	1	708		BCE	TESTLC,CHAR,  RECORD MARK	8		1708	B L73 Q31		55
531	1	716		BCE	SLASH,CHAR,/	8		1716	B V35 Q31 /		55
532	1	724		BCE	AT,CHAR,@	8		1724	B W89 Q31 @		55
533	1	732		MCW	KSTAR,300	7		1732	M Q30 300		55
534	1	739		MCW	PROCD	4		1739	M N48		55
535	1	743		MCW	CHAR	4		1743	M Q31		55
536	1	747		B	MVCHAR	4		1747	B T64		56
537				*							
538				*	CHARACTER IS H, PROBABLY HOLLERITH						
539				*							
540	1	751	HOLLER	MCW	MVCHAR&6,X1	7		1751	M T70 089		56
541	1	758		MCW	NOP,CRD3SW	7		1758	M N49 T94		56
542	1	765		MCW	NOP,CRD4SW	7		1765	M N49 U02		56
543	1	772		MCW	BRANCH,CRD2SW	7		1772	M Q11 T32		56
544	1	779		MCW	4&X1,HCOUNT REMEMBER, SOURCE IS STORED BACKWARD	7		1779	M 0 4 Q34		56
545	1	786		BCE	AT2,HCOUNT-1,@	8		1786	B Y02 Q33 @		57
546	1	794		BWZ	NZHML,HCOUNT-1,2	8		1794	V Y17 Q33 2		57
547	1	802	AT2	MCW	HCOUNT-2,HCOUNT ONE DIGIT OF HOLLERITH COIUNT	7		1802	M Q32 Q34		57

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
548	1	809		MCW	KZ2		4	1809	M Q36		57
549	1	813		B	TEST7		4	1813	B U09		57
550				*							
551				*	NO ZONE AT HCOUNT-1						
552				*							
553	1	817	NZHM1	BCE	AT3,HCOUNT,@		8	1817	B Y33 Q34 @		57
554	1	825		BWZ	NZH,HCOUNT,2		8	1825	V Y51 Q34 2		58
555	1	833	AT3	MCW	HCOUNT-2,HCOUNT		7	1833	M Q32 Q34		58
556	1	840		MCW	KZ1,HCOUNT-2		7	1840	M Q37 Q32		58
557	1	847		B	TEST7		4	1847	B U09		58
558				*							
559				*	NO ZONE AT HCOUNT. REVERSE THE DIGITS						
560				*							
561	1	851	NZH	MCW	HCOUNT,WORKH1		7	1851	M Q34 Q38		58
562	1	858		MCW	HCOUNT-2,HCOUNT		7	1858	M Q32 Q34		59
563	1	865		MCW	WORKH1,HCOUNT-2		7	1865	M Q38 Q32		59
564	1	872		B	TEST7		4	1872	B U09		59
565				*							
566				*	CONVERT ADDRESS TO FIVE DIGITS						
567				*							
568				SFX	C						
569	1	876	ADCONV	SBR	EXIT&3		C	4	1876	H Z72	59
570	1	880		S	CNVW2A		C	4	1880	S Q40	59
571	1	884		S	CNVW2B		C	4	1884	S Q42	59
572	1	888		MZ	TOCONV,CNVW2A-1		C	7	1888	Y N60 Q39	59
573	1	895		MZ	TOCONV-2,CNVW2B-1		C	7	1895	Y N58 Q41	60
574	1	902	LOOP1	BWZ	LOOP2,CNVW2B-1,2		C	8	1902	V Z21 Q41 2	60
575	1	910		A	CNVKA0,CNVW2B		C	7	1910	A Q44 Q42	60
576	1	917		B	LOOP1		C	4	1917	B Z02	60
577	1	921	LOOP2	BWZ	LP2X,CNVW2A-1,2		C	8	1921	V Z40 Q39 2	60
578	1	929		A	CNVKQ4,CNVW2A		C	7	1929	A Q46 Q40	61
579	1	936		B	LOOP2		C	4	1936	B Z21	61
580	1	940	LP2X	A	CNVW2B-1,CNVW2A		C	7	1940	A Q41 Q40	61
581	1	947		MCW	TOCONV,CONVTD		C	7	1947	M N60 N65	61
582	1	954		MCW	CNVW2A		C	4	1954	M Q40	61
583	1	958		ZA	CONVTD		C	4	1958	? N65	61
584	1	962		MZ	*-4,CONVTD CLEAR ZONE IN OUTPUT		C	7	1962	Y Z64 N65	62
585	1	969	EXIT	B	0-0		C	4	1969	B 000	62
586				SFX							
587				*							
588	1	973	BLNKOK	BCE	TESTLC,CHAR, TEST FOR A ZONE		8	1973	B L73 Q31		62
589	1	981		S	KP1,HCOUNT		7	1981	S N66 Q34		62
590	1	988		C	HCOUNT,PZE HOLLERITH COUNT DOWN TO ZERO?		7	1988	C Q34 Q49		62
591	1	995		BU	MVCHAR NOPE, JUST MOVE THE CHARACTER		5	1995	B T64 /		62
592	2	000		MCW	MOVE2,CRD4SW		7	2000	M Q50 U02		63
593	2	007		MCW	NOP2,CRD2SW		7	2007	M N28 T32		63
594	2	014		MCW	SVCHAR&3,X1		7	2014	M T13 089		63
595	2	021		C	0&X1,COMMA		7	2021	C 0 0 Q51		63
596	2	028		BE	MVCHAR		5	2028	B T64 S		63
597	2	033		MCW	MVCHAR&6,*&7		7	2033	M T70 !46		64

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
598	2	040		MCW	0,0	7		2040	M 000 000		64
599	2	047		MCW	COMMA	4		2047	M Q51		64
600	2	051		SBR	MVCHAR&6	4		2051	H T70		64
601	2	055		A	KP1,NCHAR	7		2055	A N66 Q07		64
602	2	062		B	BUMPNS	4		2062	B T75		64
603	2	066		B	MVCHAR	4		2066	B T64		64
604				*							
605				*	FINISHED READING THE SOURCE DECK						
606				*							
607	2	070	DONE	MCW	MVCHAR&6,X1	7		2070	M T70 089		65
608	2	077		LCA	GM,0&X1	7		2077	L N29 0 0		65
609	2	084		SBR	X1	4		2084	H 089		65
610	2	088		CC	1	2		2088	F 1		65
611	2	090		CS	332	4		2090	/ 332		65
612	2	094		CS		1		2094	/		65
613	2	095		MCS	NCHAR,205	7		2095	Z Q07 205		65
614	2	102		MCW	MSGCHR,222	7		2102	M Q67 222		66
615	2	109		W		1		2109	2		66
616	2	110		CC	J	2		2110	F J		66
617	2	112		MCW	NSTMT,NSTMTS	7		2112	M Q22 183		66
618	2	119		LCA	STOP,0&X1	7		2119	L Q78 0 0		66
619	2	126		SBR	X1	4		2126	H 089		66
620	2	130		SW	2&X1	4		2130	, 0 2		66
621	2	134		A	KP1,NSTMTS	7		2134	A N66 183		67
622	2	141		BCE	NOTBIG,3000,	8		2141	B J53 ?00		67
623	2	149		B	BIGSRC	4		2149	B K33		67
624	2	153	NOTBIG	SBR	CLEARL&3,2999	7		2153	H 710 R99		67
625	2	160		SBR	CLRBOT,BEGINN CHANGE ADDRESS TO CLEAR DOWN TO	7		2160	H 833 838		67
626	2	167		BSS	SNAPSH,C	5		2167	B 333 C		67
627	2	172		LCA	SCANR1,PHASID SCANNER	7		2172	L Q85 110		68
628	2	179		CS	80 GET	4		2179	/ 080		68
629	2	183		SW	1,40 READY	7		2183	, 001 040		68
630	2	190		SW	47,54 FOR	7		2190	, 047 054		68
631	2	197		SW	61,68 CARD	7		2197	, 061 068		68
632	2	204		SW	72 OVERLAY	4		2204	, 072		68
633	2	208		BCE	LOADNX,CDOVLY,N RUNNING FROM TAPE?	8		2208	B 700 769 N		69
634	2	216		R		1		2216	1		69
635	2	217		C	7,SCANR2	7		2217	C 007 Q92		69
636	2	224		BE	LOADNX	5		2224	B 700 S		69
637	2	229		B	NOSYS	4		2229	B /90		69
638				*							
639				*	SOURCE PROGRAM TOO BIG						
640				*							
641	2	233	BIGSRC	CS	332	4		2233	/ 332		69
642	2	237		CS		1		2237	/		69
643	2	238		CC	1	2		2238	F 1		70
644	2	240		MCW	MSG2,270	7		2240	M R28 270		70
645	2	247		W		1		2247	2		70
646	2	248		CC	1	2		2248	F 1		70
647	2	250		BCE	HALT2,CDOVLY,1 RUNNING FROM CARDS?	8		2250	B K63 769 1		70

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
648	2	258		RWD	1 NO, REWIND THE TAPE	5		2258	U %U1 R		70
649	2	263	HALT2	H	HALT2	4		2263	. K63		70
650			*								
651			*		PRINT LISTING PAGE HEADING						
652			*								
653	2	267	PRTHDG	CC	1	2		2267	F 1		71
654	2	269		MCW	KAT,C12T&4 CHANGE TO BCV	7		2269	M Q19 S32		71
655	2	276		CS	299	4		2276	/ 299		71
656	2	280		A	K1,PAGNUM	7		2280	A N10 R31		71
657	2	287		MCS	PAGNUM,299	7		2287	Z R31 299		71
658	2	294		MCW	KPAGE,295	7		2294	M R39 295		71
659	2	301		MCW	80	4		2301	M 080		71
660	2	305		W		1		2305	2		72
661	2	306		CS	299	4		2306	/ 299		72
662	2	310		MCW	PAGHDG,234	7		2310	M M23 234		72
663	2	317		W		1		2317	2		72
664	2	318		CC	J	2		2318	F J		72
665	2	320		B	AFTHDG	4		2320	B S33		72
666			*								
667			*		NO PARAMETER CARD						
668			*								
669	2	324	NOPARM	CC	1	2		2324	F 1		72
670	2	326		CS	332	4		2326	/ 332		73
671	2	330		CS		1		2330	/		73
672	2	331		MCW	MSG3,270	7		2331	M R68 270		73
673	2	338		W		1		2338	2		73
674	2	339		CC	1	2		2339	F 1		73
675	2	341		BCE	HALT3,CDOVLY,1 RUNNING FROM CARDS?	8		2341	B L54 769 1		73
676	2	349		RWD	1 NO, REWIND THE TAPE	5		2349	U %U1 R		73
677	2	354	HALT3	H	HALT3	4		2354	. L54		74
678			*								
679			*		LIST COMMENT CARD						
680			*								
681	2	358	LSTCMT	MCW	FINAL,203	7		2358	M R71 203		74
682	2	365		MCW	5,211	7		2365	M 005 211		74
683	2	372		W		1		2372	2		74
684	2	373	TESTLC	BLC	DONE	5		2373	B !70 A		74
685	2	378		R		1		2378	1		74
686	2	379		B	RDLOOP	4		2379	B /74		74
687			*								
688	2	388	INTCHR	DCW	@\$@/  @ INTERESTING CHARACTERS	6		2388			75
689	2	423	PAGHDG	DCW	@ SEQ STMTNT FORTRAN STATEMENT@	35		2423			76
690			*								
691			*		CARD SAVE AREA						
692			*								
693				DA	1X78			2424	2501		
694				SAVE2	2			2425		SBFLD	
695				CARD1	6			2429		SBFLD	
696				CARD6	11			2434		SBFLD	
697				CARD7	12			2435		SBFLD	

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
698			CARD72		77			2500		SBFLD	
699			AZONE		78			2501		SBFLD	
700			*								
701			* CONSTANTS AND WORK AREAS								
702			*								
703	2	503	COLCNT	DCW	#2		2	2503			77
704	2	506	CARD7A	DSA	CARD7 ADDRESS OF COLUMN 7 IN SAVE AREA		3	2506	M35		77
705	2	509	SAVE2A	DSA	SAVE2		3	2509	M25		77
706	2	510	K1	DCW	1		1	2510			77
707	2	511	BRNCH2	B			1	2511	B		77
708	2	513	K20	DC	20		2	2513			77
709	2	520	WORK7	DCW	#7		7	2520			77
710	2	527	KFMT	DCW	FORMAT% SPELLED BACKWARD		7	2527			77
711	2	528	NOP2	DC			1	2528			77
712	2	529	GM	DC			1	2529		GMARK	77
713	2	533	PREFIX	DCW	DEFAULT STATEMENT PREFIX -- ARITHMETIC		4	2533			78
714	2	534	COLON	DCW			1	2534			78
715	2	536	K10	DCW	10		2	2536			78
716	2	537	MOVE	DC			1	2537			78
717	2	548	PROC	DCW	PROCESSED @		11	2548			78
718	2	549	NOP	NOP			1	2549	N		78
719	2	554	KPARAM	DCW			5	2554			78
720	2	557	CORSIZ	DCW	#3 ACTUAL MACHINE SIZE (TOP ADDR)		3	2557			78
721	2	560	TOCONV	DCW	#3 ADDRESS TO BE CONVERTED TO FIVE DIGITS		3	2560			79
722	2	565	CONVTD	DCW	#5 ADDRESS CONVERTED TO FIVE DIGITS		5	2565			79
723	2	566	KP1	DCW	&1		1	2566			79
724	2	594	STMSG	DCW	@START OF FORTRAN COMPILATION@		28	2594			79
725	2	620	SPSIZE	DCW	@MACHINE SIZE SPECIFIED IS @		26	2620			80
726	2	643	ACTSIZ	DCW	@ACTUAL MACHINE SIZE IS @		23	2643			81
727	2	648	COR5	DCW	#5 CORSIZ AS FIVE DIGITS		5	2648			81
728	2	653	TOP5	DCW	#5 TOPCOR AS FIVE DIGITS		5	2653			81
729	2	658	K3900	DCW	03900		5	2658			81
730	2	676	SIZERR	DCW	@MACHINE SIZE ERROR@		18	2676			82
731	2	722	SGTM	DCW	@SPECIFIED IS GREATER THAN ACTUAL MACHINE SIZE.@		46	2722			84
732	2	743	SGTM2	DCW	@ERROR - MACHINE SIZE @		21	2743			84
733	2	746	DOWNT0	DSA	2999 DCW @R99@		3	2746	R99		84
734	2	787	MSG1	DCW	@MESSAGE 1-SYSTEM DOES NOT FOLLOW END CARD@		41	2787			86
735	2	802	CNTMSG	DCW	@CONTINUE CD ERR@		15	2802			86
736	2	807	NCHAR	DCW	#5 NUMBER OF CHARACTERS		5	2807			86
737	2	810	BOTCOR	DSA	3000 BOTTOM OF SPACE TO STORE PROGRAM		3	2810	?00		86
738	2	811	BRANCH	DCW	@B@		1	2811			86
739	2	817	WORK6	DCW	#6		6	2817			87
740	2	818	KF	DCW	@F@		1	2818			87
741	2	819	KAT	DCW	@@@		1	2819			87
742	2	822	NSTMT	DCW	#3 NUMBER OF STATEMENTS		3	2822			87
743	2	824	CNTCNT	DCW	#2 COUNT OF CONTINUATION CARDS		2	2824			87
744	2	827	KEND	DCW	@DNE@		3	2827			87
745	2	828	FLAG	DCW	#1 WORD MARK IS A FLAG		1	2828			87
746	2	829	KMINUS	DCW	@-@		1	2829			88
747	2	830	KSTAR	DCW	@*@		1	2830			88

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
748	2	831	CHAR	DCW	#1 CHARACTER FROM INPUT	1		2831			88
749	2	834	HCOUNT	DCW	#3 HOLLERITH COUNT	3		2834			88
750	2	836	KZ2	DCW	00 TWO ZEROS	2		2836			88
751	2	837	KZ1	DCW	0	1		2837			88
752	2	838	WORKH1	DCW	#1 WORK SPACE FOR HOLLERITH COUNT	1		2838			88
753	2	840	CNVW2A	DCW	#2 WORK SPACE FOR ADDRESS CONVERSION	2		2840			89
754	2	842	CNVW2B	DCW	#2 WORK SPACE FOR ADDRESS CONVERSION	2		2842			89
755	2	844	CNVKA0	DCW	@A0@ CONSTANT FOR ADDRESS CONVERSION	2		2844			89
756	2	846	CNVKQ4	DCW	@?4@ CONSTANT FOR ADDRESS CONVERSION	2		2846			89
757	2	849	PZE	DCW	&000 PLUS ZERO	3		2849			89
758	2	850	MOVE2	MCW		1		2850	M		89
759	2	851	COMMA	DCW	,@	1		2851			89
760	2	867	MSGCHR	DCW	@INPUT CHARACTERS@	16		2867			90
761	2	878	STOP	DCW	@ }POTS:R000@ STOP SPELLED BACKWARD, ETC.	11		2878			90
762	2	885	SCANR1	DCW	@SCANNER@	7		2885			90
763	2	892	SCANR2	DCW	@SCANNER@	7		2892			91
764	2	928	MSG2	DCW	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@	36		2928			92
765	2	931	PAGNUM	DCW	#3	3		2931			92
766	2	939	KPAGE	DCW	@ PAGE @	8		2939			93
767	2	968	MSG3	DCW	@MESSAGE 3 - NO PARAMETER CARD@	29		2968			93
768	2	971	FINAL	DCW	#3	3		2971			94
769				ORG	2999				2999		
770	2	999	GMWM	DCW	@}@	1		2999		GMARK	95
771				END	BEGINN				/ 838 080		

