

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

AUTOCODER-PASS 5-PROCESS LABELS-INITL-VERSION 3 3751L PAGE 1

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
101		000	JOB		AUTOCODER-PASS 5-PROCESS LABELS-INITL-VERSION 3						
102			CTL		63011						
103			*								
104			*		EQUATES USED BY PROGRAM						
105											
106			INITAP	EQU	%U0			%U0			
107			SVSTPE	EQU	%U1			%U1			
108			SAVETE	EQU	%U4			%U4			
109			CINPUP	EQU	%U5			%U5			
110			COUPTT	EQU	%U6			%U6			
111			DOUPTT	EQU	%U5			%U5			
112			DINPUP	EQU	%U6			%U6			
113			TABLE	EQU	2409			2409			
114			ADDLO	EQU	TABLE-006&X2			2403 X			
115			SYMHO	EQU	TABLE-005&X2			2404 X			
116			ADDHO	EQU	TABLE-009&X2			2400 X			
117			LBLREF	EQU	TABLE-008&X2			2401 X			
118			SYMBOL	EQU	TABLE&X2			2409 X			
119			CARD	EQU	0			0000			
120			STAOP	EQU	CARD&001			0001			
121			STLABL	EQU	CARD&002			0002			
122			STADDR	EQU	CARD&003			0003			
123			STBOP	EQU	CARD&004			0004			
124			COUNT	EQU	CARD&007			0007			
125			LABEL	EQU	CARD&013			0013			
126			AOPER	EQU	CARD&022			0022			
127			AOPADJ	EQU	CARD&026			0026			
128			AINDEX	EQU	CARD&027			0027			
129			ORGADD	EQU	CARD&032			0032			
130			CNVLAB	EQU	CARD&056			0056			
131			LABADD	EQU	CARD&061			0061			
132			SUPADD	EQU	CARD&066			0066			
133			AOP	EQU	CARD&070			0070			
134			TYPE	EQU	CARD&075			0075			
135			AOPHO	EQU	CARD&017			0017			
136			LBLHO	EQU	CARD&008			0008			
137			HOADD	EQU	CARD&057			0057			
138			TPAREA	EQU	3918			3918			
139			INPUT	EQU	TPAREA-001&X3			3917 X			
140			LIMIT	EQU	TPAREA&13			3931			
141			XXXX	EQU	0			0000			
142			GPMRK3	EQU	3998			3998			
143			LIBRN	EQU	0			0000			
144			*								
145			*								
146			*		GET, PUT, REDUNDANCY &						
147			*		CROSSOVER ROUTINES COMMON						

AUTOCODER-PASS 5-PROCESS LABELS-INITL-VERSION 3 3751L PAGE 2

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148			*		TO BOTH PASSES						
149			*								
150			*								
151			ORG		ENDOPC&1			1925			
152			*		GET & PUT						
153			*								
154											
155			GET	C	BLKCT,KBLKNG	7		1925	C L30 L26		4
156			BE		WRITE	5		1932	B X67 S		4
157			NXTREC	A	%80, BLKCT	7		1937	A L36 L30		4
158			MCW		BLKCT, XR3	7		1944	M L30 099		4
159			MOVEIN	MCW	INPUT, CARD&80	7		1951	M IA7 080		4
160					CHAIN 9					MACRO	
161			MCW			1		1958	M	GEN	4
162			MCW			1		1959	M	GEN	4
163			MCW			1		1960	M	GEN	5
164			MCW			1		1961	M	GEN	5
165			MCW			1		1962	M	GEN	5
166			MCW			1		1963	M	GEN	5
167			MCW			1		1964	M	GEN	5
168			MCW			1		1965	M	GEN	5
169			MCW			1		1966	M	GEN	5
170			S		XR3&001	4		1967	S 100		6
171			S			1		1971	S		6
172			S			1		1972	S		6
173			B		ANAL	4		1973	B 114		6
174			PUT	MCW	BLKCT, XR3	7		1977	M L30 099		6
175			MCW		CARD&80, INPUT	7		1984	M 080 IA7		6
176					CHAIN 9					MACRO	
177			MCW			1		1991	M	GEN	6
178			MCW			1		1992	M	GEN	7
179			MCW			1		1993	M	GEN	7
180			MCW			1		1994	M	GEN	7
181			MCW			1		1995	M	GEN	7
182			MCW			1		1996	M	GEN	7
183			MCW			1		1997	M	GEN	7
184			MCW			1		1998	M	GEN	7
185			MCW			1		1999	M	GEN	8
186			B		GET	4		2000	B Z25		8
187			*								
188			*		TAPE REDUNDANCY ROUTINE						
189			*								
190			TPERR	SBR	XR1	4		2004	H 089		8
191			SBR		REDXT&3	4		2008	H 176		8
192			MZ		%9, XR1	7		2012	Y L37 089		8
193			MCW		4000-10&X1, TPINST&7	7		2019	M I20 167		8
194			MN		TPINST&3, BSP1&3	7		2026	D 163 143		8
195			MCW		TPINST&7, INSTZ&7	7		2033	M 167 J76		9
196			BSP1	BSP	INITAP	5		2040	U %U0 B		9
197			BCE		WRTRED, TPINST&7, W	8		2045	B J49 167 W		9

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
198			MCW		&9,READCT#1	7		2053	M L37 L38		9
199			TPINST	RT	INITAP,XXXX	8		2060	M &U0 000 R		9
200			BER		RDRERR	5		2068	B !77 L		10
201			REDXT	B	XXXX	4		2073	B 000		10
202			RDRERR	MN	TPINST&3,BSP2&3	7		2077	D !63 !87		10
203			BSP2	BSP	INITAP	5		2084	U &U0 B		10
204			S		&1,READCT	7		2089	S L39 L38		10
205			BWZ		TPINST,READCT,B	8		2096	V !60 L38 B		10
206			MN		TPINST&3,TPHALT&6	7		2104	D !63 J17		11
207			TPHALT	H	XXXX,590	7		2111	. 000 590		11
208			MCW		TPINST&7,*&8	7		2118	M !67 J32		11
209			RT		INITAP,XXXX	8		2125	M &U0 000 R		11
210			BSS		BSP1,E	5		2133	B !40 E		11
211			TPHLT3	H	XXXX,511	7		2138	. 000 511		12
212			B		REDXT	4		2145	B !73		12
213			WRTRED	SKP	SYSTPE	5		2149	U &U1 E		12
214			BCE		SUBCTR,WRTCTR-1,5	8		2154	B J86 L40 5		12
215			A		&1,WRTCTR#2	7		2162	A L39 L41		12
216			INST2	WT	INITAP,XXXX	8		2169	M &U0 000 W		12
217			BER		BSP1	5		2177	B !40 L		13
218			B		REDXT	4		2182	B !73		13
219			SUBCTR	S	WRTCTR	4		2186	S L41		13
220			MN		TPINST&3,*&7	7		2190	D !63 K03		13
221			TPHLT2	H	XXXX,560	7		2197	. 000 560		13
222			B		INST2	4		2204	B J69		13
223			*								
224			*		CHECK FOR SHORT RECORDS						
225			*								
226			CHKLGT	SBR	XR1	4		2208	H 089		13
227			SBR		LGTXT&3	4		2212	H K46		14
228			MZ		&9,XR1	7		2216	V L37 089		14
229			LGTK	BCE	4000-12&X1,LIMIT,}	8		2223	B IY8 I31 }	GMARK	14
230			CHAIN		12					MACRO	
231			BCE			1		2231	B	GEN	14
232			BCE			1		2232	B	GEN	14
233			BCE			1		2233	B	GEN	14
234			BCE			1		2234	B	GEN	14
235			BCE			1		2235	B	GEN	15
236			BCE			1		2236	B	GEN	15
237			BCE			1		2237	B	GEN	15
238			BCE			1		2238	B	GEN	15
239			BCE			1		2239	B	GEN	15
240			BCE			1		2240	B	GEN	15
241			BCE			1		2241	B	GEN	15
242			BCE			1		2242	B	GEN	16
243			LGTXT	B	XXXX	4		2243	B 000		16
244			*								
245			*		CROSSOVER, C TO D						
246			*								
247			RDPSSD	RTW	SYSTPE,1	8		2247	L &U1 001 R		16

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
248			NOP		XXXX	4		2255	N 000		16
249			BER		TPERR	5		2259	B !04 L		16
250			CW		ENDOPD	4		2264	) Y68		16
251			B		PASSD	4		2268	B S90		16
252			*								
253			*		CROSSOVER, D TO C						
254			*								
255			RDPSSC	RTW	COUTPT,1	8		2272	L &U6 001 R		17
256			NOP		XXXX	4		2280	N 000		17
257			BER		TPERR	5		2284	B !04 L		17
258			CW		ENDOFC	4		2289	) Z24		17
259			B		CLRTAB	4		2293	B Y13		17
260			*								
261			*		COMMON CONSTANTS						
262			*								
263			CLRMAX	DCW	@I97@	3		2299			17
264			CLRMIN	DSA	TABLE-010	3		2302	L99		17
265			FNCTN	DCW	@ @	6		2308			18
266			TABMAX	DCW	@V00@	3		2311			18
267			MAXADD	DCW	@ @	3		2314			18
268			TABLSZ	DCW	&0150	4		2318			18
269			MAXSER	DCW	@ @	4		2322			18
270			SFXCTR	DCW	@ @	1		2323			18
271			KBLKNG	DCW	@080@	3		2326			18
272			BUMPOP	DCW	@#@	1		2327			19
273			HOLDA	DCW	&0000	4		2331			19
274			BLKCT	EQU	HOLDA-1			2330			
275			TPAD	DSA	TPAREA	3		2334	I18		19
276			LTORG		*			2335			
			DCW		&80	2		2336		LIT	19
			DCW		&9	1		2337		LIT	19
			READCT	DCW	#01	1		2338		AREA	19
			DCW		&1	1		2339		LIT	19
			WRTCTR	DCW	#02	2		2341		AREA	20
277			*								
278			*		PROTECTED CONSTANTS						
279			*								
280			FACTOR	EQU	TABLE-021			2388			
281			MACHSZ	EQU	TABLE-020			2389			
282			TOTLAB	EQU	TABLE-016			2393			
283			UNPRSW	EQU	TABLE-015			2394			
284			PROCSW	EQU	TABLE-014			2395			
285			SERCHS	EQU	TABLE-010			2399			
286			*								
287			*		INITIALIZE PASS C ONE TIME						
288			*								
289			ORG		TABLE-009			2400			
290			RWD		SAVETP	5		2400	U &U4 R		21
291			RWD		CINPUP	5		2405	U &U5 R		21
292			RWD		COUTPT	5		2410	U &U6 R		21

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
293				CS	3999		4	2415	/ I99		21
294				SW	GRPMRK		4	2419	, Q66		21
295				LCA	@00@,PROCSW		7	2423	L Q68 L95		21
296				LCA	&0150,SERCHS		7	2430	L Q72 L99		21
297				LCA	@0015@,FACTOR		7	2437	L Q76 L88		22
298				RTW	SYSTPE,1		8	2444	L \$U1 001 R		22
299				NOP	XXXX		4	2452	N 000		22
300				BER	TPERR		5	2456	B !04 L		22
301				CW	ENDINT		4	2461	) R01		22
302				*							
303				*	SET I/O GROUP MARK						
304				*							
305				MCW	MACHSZ,KEEP1#001		7	2465	M L89 Q77		22
306				A	&3,KEEP1		7	2472	A Q78 Q77		23
307				MN	KEEP1,*&004		7	2479	D Q77 M89		23
308				MZ	ZONE2,*&007		7	2486	Y 109 M99		23
309				SETIO	LCA GRPMRK,GPMRK3		7	2493	L Q66 I98		23
310				BWZ	SETBMP,SETIO&006,2		8	2500	V P18 M99 2		23
311				CS	4799		4	2508	/ 79Z		24
312				CS	4399		4	2512	/ 39Z		24
313				MCW	@#@,BUMP		7	2516	M Q79 W81		24
314				BCE	SET8K,MACHSZ,4		8	2523	B O20 L89 4		24
315				*							
316				*	12K CONSTANTS						
317				*							
318				MCW	BLKG12,KBLKNG		7	2531	M Q52 L26		24
319				MCW	TBSZ12,TABLSZ		7	2538	M Q56 L18		24
320				MCW	TBLM12,TABMAX		7	2545	M Q59 L11		25
321				MCW	TPAD12,TPAD		7	2552	M Q62 L34		25
322				MCW	MDTP12,MDTP#003		7	2559	M Q65 Q82		25
323				A	&72,FACTOR		7	2566	A Q84 L88		25
324				BCE	SETTP,FACTOR,5		8	2573	B O62 L89 5		25
325				*							
326				*	16K CONSTANTS						
327				*							
328				A	&400,TABLSZ		7	2581	A Q87 L18		26
329				A	&40,FACTOR		7	2588	A Q89 L88		26
330				MZ	ABBIT,TABMAX		7	2595	Y 113 L11		26
331				MZ	ABBIT,TPAD		7	2602	Y 113 L34		26
332				MZ	ABBIT,MDTP		7	2609	Y 113 Q82		26
333				B	SETTP		4	2616	B O62		26
334				*							
335				*	8K CONSTANTS						
336				*							
337				SET8K	MCW BLKG8K,KBLKNG		7	2620	M Q36 L26		27
338				MCW	TBSZ8K,TABLSZ		7	2627	M Q40 L18		27
339				MCW	TBLM8K,TABMAX		7	2634	M Q43 L11		27
340				MCW	TPAD8K,TPAD		7	2641	M Q46 L34		27
341				MCW	MDTP8K,MDTP		7	2648	M Q49 Q82		27
342				A	&36,FACTOR		7	2655	A Q91 L88		28

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
343				SETTP	MZ TPAD,CLRMAX		7	2662	Y L34 K99		28
344				MCW	MDTP,MOVEIN&003		7	2669	M Q82 Z54		28
345				MCW	MDTP,PUT&013		7	2676	M Q82 Z90		28
346				MCW	TPAD,WRITE&006		7	2683	M L34 X73		28
347				MCW	TPAD,READ&010		7	2690	M L34 X98		29
348				MCW	TPAD,LIMAD#3		7	2697	M L34 Q94		29
349				MA	&13,LIMAD	???	7	2704	# Q96 Q94		29
350				MCW	LIMAD,LGTC&6		7	2711	M Q94 K29		29
351				SETBMP	MCW BUMP,BUMPOP		7	2718	M W81 L27		29
352				LCA	GRPMRK,ENDOFPC		7	2725	L Q66 Z24		30
353				*							
354				*	WRITE PASS C CHECKPOINT ON 6						
355				*							
356				CS	80		4	2732	/ 080		30
357				SW	CARD&001,CARD&006		7	2736	, 001 006		30
358				SW	CARD&017,CARD&024		7	2743	, 017 024		30
359				SW	CARD&028,CARD&035		7	2750	, 028 035		30
360				SW	CARD&057,CARD&062		7	2757	, 057 062		30
361				SW	CARD&068,CARD&071		7	2764	, 068 071		31
362				WTW	COUTPT,1		8	2771	L \$U6 001 W		31
363				NOP	XXXX		4	2779	N 000		31
364				BER	TPERR		5	2783	B !04 L		31
365				CW	ENDOFPC,GRPMRK		7	2788	) Z24 Q66		31
366				C	TOTLAB,TABLSZ		7	2795	C L93 L18		31
367				MCW	TABLSZ,SERCHS		7	2802	M L18 L99		32
368				S	TOTLAB		4	2809	S L93		32
369				BE	CLRTAB		5	2813	B Y13 S		32
370				BH	CLRTAB		5	2818	B Y13 U		32
371				MCW	&0009,SERCHS		7	2823	M R00 L99		32
372				B	CLRTAB		4	2830	B Y13		32
373				BLKG8K	DCW @400@		3	2836			32
374				TBSZ8K	DCW &0510		4	2840			33
375				TBLM8K	DSA 5100		3	2843	/0'		33
376				TPAD8K	DSA 7598		3	2846	E9Y		33
377				MDTP8K	DSA 7597&X3		3	2849	EIX		33
378				BLKG12	DCW @800@		3	2852			33
379				TBSZ12	DCW &0870		4	2856			33
380				TBLM12	DSA 8700		3	2859	70!		33
381				TPAD12	DSA 11198		3	2862	A9Q		34
382				MDTP12	DSA 11197&X3		3	2865	AIP		34
383				GRPMRK	DC @}\$@		1	2866		GMARK	34
384				LTORG	*				2867		
				DCW	@00@		2	2868		LIT	34
				DCW	&0150		4	2872		LIT	34
				DCW	@0015@		4	2876		LIT	34
				KEEP1	DCW #01		1	2877		AREA	34
				DCW	&3		1	2878		LIT	34
				DCW	@#@		1	2879		LIT	35
				MDTP	DCW #03		3	2882		AREA	35
				DCW	&72		2	2884		LIT	35

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
				DCW	&400		3	2887		LIT	35
				DCW	&40		2	2889		LIT	35
				DCW	&36		2	2891		LIT	35
			LIMAD	DCW	#03		3	2894		AREA	35
				DCW	&13		2	2896		LIT	36
				DCW	&0009		4	2900		LIT	36
385			ENDINT	DCW	@}@@		1	2901		GMARK	36
386			XFR		LIBRN				B 000		37

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
387			JOB		AUTOCODER-PASS 5 MAIN LINE						
388			*								
389			*		PASS C-LOAD SYMBOL TABLE& SET ADDRESSES						
390			*								
391			ZONE	EQU	113			0113			
392			113	DCW	@2SKB@		4	0113			40
393			ZONE2	EQU	109			0109			
394			109	DCW	@2SKB@		4	0109			41
395			ABBIT	EQU	ZONE			0113			
396			BBIT	EQU	ZONE-001			0112			
397			ABIT	EQU	ZONE-002			0111			
398			NOBIT	EQU	ZONE-003			0110			
399			XR1	EQU	99			0089			
400			99	DCW	@000@		3	0089			42
401			XR2	EQU	94			0094			
402			94	DCW	@000@		3	0094			43
403			XR3	EQU	99			0099			
404			99	DCW	@000@		3	0099			44
405				ORG	ZONE&001				0114		
406			*								
407			*		DETERMINE RECORD TYPE						
408			*								
409			ANAL	BM	PUT,CARD&005		8	0114	V 277 005 K		45
410				BCE	PUT,TYPE,%		8	0122	B 277 075 %		45
411				BCE	INSTR,TYPE,		8	0130	B 219 075		45
412				MN	TYPE,XR2		7	0138	D 075 094		45
413				BCE	DA,XR2,0		8	0145	B 871 094 0		45
414				MCW	@0@,INDFTR		7	0153	M Y92 Y69		46
415				MCW	@0@,DASW		7	0160	M Y92 Y68		46
416				A	XR2		4	0167	A 094		46
417				A	XR2		4	0171	A 094		46
418				B	*&001&X2		4	0175	B 1P9		46
419				NOP	XXXX		4	0179	N 000		46
420				B	CONST		4	0183	B 260		46
421				B	CONST		4	0187	B 260		47
422				B	EXEND		4	0191	B 973		47
423				B	SFX		4	0195	B 992		47
424				B	PUT		4	0199	B 277		47
425				B	ORG		4	0203	B 376		47
426				B	DS		4	0207	B 295		47
427				B	PUT		4	0211	B 277		47
428				B	PUT		4	0215	B 277		48
429			*								
430			*		PROCESS INSTRUCTIONS						
431			*								
432			INSTR	MCW	@0@,INDFTR		7	0219	M Y92 Y69		48
433				B	PRCADD		4	0226	B '03		48
434				B	PROCLB		4	0230	B /09		48
435				BWZ	PUT,STADDR,2		8	0234	V 277 003 2		48
436				A	COUNT,NOWCTR		7	0242	A 007 Y48		48

AUTOCODER-PASS 5 MAIN LINE				-VERSION 3	3752L	PAGE 9			
SEQ	PG	LIN	LABEL OP OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
437			S @1@,NOWCTR	7	0249	S	Y93 Y48		49
438			B PUT	4	0256	B	Z77		49
439			* PROCESS CONSTANTS & DCW						
440			* CONST BCE PRCAST,AOPHO,*	8	0260	B	283 017 *		49
441			MCW @1@,ACTSW	7	0268	M	Y93 Y67		49
442			B PROCLB	4	0275	B	/09		49
443			B PUT	4	0279	B	Z77		49
444			* CONSTANTDS WITH ASTERISK ADDRESS						
445			* PRCAST B PRCADD	4	0283	B	'03		49
446			B PROCLB	4	0287	B	/09		50
447			B PUT	4	0291	B	Z77		50
448			* PROCESS DS & EQUATES						
449			* DS BCE PROCTU,AOPHO,%	8	0295	B	361 017 %		50
450			A AINDEX,INDPTR	7	0303	A	027 Y69		50
451			BCE CONST,AOPHO,*	8	0310	B	260 017 *		50
452			BWZ CONST,AOPHO,2	8	0318	V	260 017 2		50
453			BWZ *&5,STAOP,2	8	0326	V	338 001 2		51
454			B CONST	4	0334	B	260		51
455			* EQUATE						
456			B SETAOP	4	0338	B	U35		51
457			MCW DSAPUT,LABRTN&003	7	0342	M	Y72 S97		51
458			BWZ UNPROC,STAOP,2	8	0349	V	/81 001 2		51
459			B CONST	4	0357	B	260		51
460			* DS OF INPUT DEVICE						
461			* PROCTU MCW AOPER-003,LABADD-001	7	0361	M	019 060		52
462			MCW @0@	4	0368	M	Y92		52
463			B CONST	4	0372	B	260		52
464			* PROCESS ORIGIN & LITERAL ORIGIN						
465			* ORG BWZ SETHGH,CARD&033,B	8	0376	V	405 033 B		52
466			ZA LABADD,ORGADD	7	0384	?	061 032		52
467			A @1@,ORGADD	7	0391	A	Y93 032		52
468			MZ ABBIT,CARD&033	7	0398	Y	113 033		53
469			BCE ORGSAV,MAXSW,1	8	0405	B	432 Y60 1		53
470			C NOWCTR,HGHCTR	7	0413	C	Y48 Y58		53
471			BH ORGSAV	5	0420	B	432 U		53
472			ZA NOWCTR,HGHCTR	7	0425	?	Y48 Y58		53
473			* PROCESS SAVE COUNTER OF ORIGIN						

AUTOCODER-PASS 5 MAIN LINE				-VERSION 3	3752L	PAGE 10			
SEQ	PG	LIN	LABEL OP OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
487			* ORGSAV BCE AOPOR,LBLHO,	8	0432	B	536 008		54
488			MCW @005@,XR1	7	0440	M	Y96 089		54
489			MCW &AOPOR,LABRTN&003	7	0447	M	Y99 S97		54
490			BWZ *&005,STLABL,2	8	0454	V	466 002 2		54
491			B AOPOR	4	0462	B	536		54
492			BCE STRSAV,SUPADD,	8	0466	B	502 066		55
493			B BTOLAB DOLABL	4	0474	B	T58		55
494			B SEARCH	4	0478	B	W29		55
495			BCE STORE,DBLSW,1	8	0482	B	S69 Y64 1		55
496			BCE STORE,SPCSW,0	8	0490	B	S69 Y63 0		55
497			B UNPROC	4	0498	B	/81		55
498			BCE UNPROC,ADDRSW,1	8	0502	B	/81 Y59 1		56
499			BCE UNPROC,LITRSW,1	8	0510	B	/81 Y61 1		56
500			MCW NOWCTR,SUPADD	7	0518	M	Y48 066		56
501			A @1@,SUPADD	7	0525	A	Y93 066		56
502			B BTOLAB	4	0532	B	474		56
503			* PROCESS A OPERAND OF ORIGIN						
504			* AOPOR BWZ *&005,STAOP,2	8	0536	V	548 001 2		57
505			B ACTUAL	4	0544	B	761		57
506			BCE ASTRSK,AOPHO,*	8	0548	B	708 017 *		57
507			MCW @0@,LITRSW	7	0556	M	Y92 Y61		57
508			S NOWCTR	4	0563	S	Y48		57
509			BCE BLKAOP,AOPHO,	8	0567	B	735 017		57
510			* SYMBOLIC ORIGIN						
511			* MCW @0@,ORGSW	7	0575	M	Y92 Y66		58
512			S XR1&001	4	0582	S	090		58
513			B SETAOP	4	0586	B	U35		58
514			BCE SETORG,ORGSW,1	8	0590	B	609 Y66 1		58
515			SETSW MCW @11@,MAXSW	7	0598	M	Z01 Y60		58
516			B SCNTB&7	4	0605	B	813		58
517			SETORG MCW LABADD,ORGCTR	7	0609	M	061 Y53		59
518			RSTSWA MCW @0@,ADDRSW	7	0616	M	Y92 Y59		59
519			BCE *&005,AOPADJ-002,X	8	0623	B	635 024 X		59
520			B AOPOUT	4	0631	B	669		59
521			* ADJUSTMENT OF X00						
522			* BCE NXTCNT,AOPHO,*	8	0635	B	655 017 *		59
523			C ORGCTR,&00	7	0643	C	Y53 Z03		60
524			BE AOPOUT	5	0650	B	669 S		60
525			NXTCNT MCW &00,ORGCTR	7	0655	M	Z03 Y53		60
526			A @1@,ORGCTR-002	7	0662	A	Y93 Y51		60
527			AOPOUT A ORGCTR,ORGADD	7	0669	A	Y53 032		60
528			ZA ORGCTR,LABADD	7	0676	?	Y53 061		61
529			ZA ORGADD,NOWCTR	7	0683	?	032 Y48		61

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
537			S		@1@,NOWCTR	7	0690	S	Y93 Y48		61
538			MZ		ABBIT,STAOP	7	0697	Y	113 001		61
539			B		PUT	4	0704	B	Z77		61
540			*								
541			*		ORIGIN ASTERISK						
542			*								
543			ASTRSK	BCE	PUT,ADDRSW,1	8	0708	B	Z77 Y59 1		62
544				BCE	SETSW, LITRSW,1	8	0716	B	598 Y61 1		62
545				MCW	NOWCTR,ORGCTR	7	0724	M	Y48 Y53		62
546				B	RSTSWA	4	0731	B	616		62
547			*								
548			*		ORIGIN MAXIMUM						
549			*								
550			BLKAOP	BCE	SETSW,MAXSW,1	8	0735	B	598 Y60 1		62
551				MCW	HGHCTR,ORGCTR	7	0743	M	Y58 Y53		63
552				A	@1@,ORGCTR	7	0750	A	Y93 Y53		63
553				B	RSTSWA	4	0757	B	616		63
554			*								
555			*		ORIGIN ACTUAL OR PROCESSED						
556			*								
557			ACTUAL	ZA	ORGADD,NOWCTR	7	0761	?	032 Y48		63
558				S	@1@,NOWCTR	7	0768	S	Y93 Y48		63
559				BCE	TSTX00,AOPHO,*	8	0775	B	821 017 *		64
560				MCW	@0@,LITRSW	7	0783	M	Y92 Y61		64
561				BWZ	SCNTB,AOPHO,2	8	0790	V	806 017 2		64
562				BWZ	SETORG,STAOP,K	8	0798	V	609 001 K		64
563			SCNTB	MCW	@0@,ADDRSW	7	0806	M	Y92 Y59		64
564				S	ORGCTR	4	0813	S	Y53		65
565				B	PUT	4	0817	B	Z77		65
566			TSTX00	BCE	PUT,AOPADJ-002,X	8	0821	B	Z77 024 X		65
567				BWZ	PUT,CARD&034,B	8	0829	V	Z77 034 B		65
568				A	ORGCTR,ORGADD	7	0837	A	Y53 032		65
569				BCE	PUT,ADDRSW,1	8	0844	B	Z77 Y59 1		65
570				BCE	PUT,LITRSW,1	8	0852	B	Z77 Y61 1		66
571				MZ	ABBIT,CARD&34	7	0860	Y	113 034		66
572				B	ACTUAL	4	0867	B	Z77		66
573			*								
574			*		PROCESS DA STATEMENTS						
575			*								
576			DA	BCE	ORIGDA,TYPE,0	8	0871	B	926 075 0		66
577				BCE	TSTRPT,ACTSW,1	8	0879	B	910 Y67 1		66
578			BTOADD	C	LABADD,SUPADD	7	0887	C	061 066		67
579				BL	*&8	5	0894	B	906 T		67
580				MCW	@005@,XR3	7	0899	M	Y96 099		67
581				B	PRCADD	4	0906	B	'03		67
582			TSTRPT	BCE	PUT,TYPE,'	8	0910	B	Z77 075 '		67
583				B	PROCLB	4	0918	B	/09		67
584				B	PUT	4	0922	B	Z77		67
585			*								
586			*		DA HEADER						

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
587			*								
588			ORIGDA	MCW	@0@,INDFTR	7	0926	M	Y92 Y69		68
589				A	AINDEX,INDFTR	7	0933	A	027 Y69		68
590				MCW	@1@,DASW	7	0940	M	Y93 Y68		68
591				MCW	@0@,ACTSW	7	0947	M	Y92 Y67		68
592				BCE	BTOADD,AOPHO,*	8	0954	B	887 017 *		68
593				MCW	@1@,ACTSW	7	0962	M	Y93 Y67		69
594				B	TSTRPT	4	0969	B	910		69
595			*								
596			*		??? MISSING FROM LISTING IN CE MANUAL ***						
597			*		??? MISSING FROM LISTING IN CE MANUAL ***						
598			EXEND	BWZ	PUT,TYPE,B	8	0973	V	Z77 075 B		69
599				MCW	@B@,BRANCH	7	0981	M	Z04 X84		69
600				B	WRITE	4	0988	B	X67		69
601			*								
602			*		PROCESS SUFFIX						
603			*								
604			SFX	MCW	AOPHO,SFXCTR	7	0992	M	017 L23		69
605				B	PUT	4	0999	B	Z77		70
606			*								
607			*		PROCESS ADDRESSES						
608			*								
609			PRCADD	SBR	ADDRTN&003	4	1003	H	'89		70
610				MCW	@0@,ACTSW	7	1007	M	Y92 Y67		70
611				BWZ	LITTST,STLABL,K	8	1014	V	'90 002 K		70
612			TSTADD	BWZ	ADDRTN,STADDR,B	8	1022	V	'86 003 B		70
613				BCE	ADDRTN,ADDRSW,1	8	1030	B	'86 Y59 1		70
614				A	ORGCTR,LABADD	7	1038	A	Y53 061		71
615				A	ORGCTR,SUPADD	7	1045	A	Y53 066		71
616				C	NOWCTR,LABADD&X3	7	1052	C	Y48 0F1		71
617				BL	*&008	5	1059	B	'71 T		71
618				ZA	LABADD&X3,NOWCTR	7	1064	?	0F1 Y48		71
619				BCE	ADDRTN,LITRSW,1	8	1071	B	'86 Y61 1		72
620				MZ	ABBIT,STADDR	7	1079	Y	113 003		72
621				ADDRTN	B XXXX	4	1086	B	000		72
622				LITTST	MCW DSAPUT,LABRTN&003	7	1090	M	Y72 S97		72
623				BCE	LITRAL,TYPE,/'	8	1097	B	T25 075 /		72
624				B	TSTADD	4	1105	B	'22		72
625			*								
626			*		PROCESS LABEL						
627			*								
628			PROCLB	SBR	LABRTN&003	4	1109	H	S97		73
629				BWZ	*&005,STLABL,2	8	1113	V	/25 002 2		73
630				B	LABRTN	4	1121	B	S94		73
631				BCE	MRKPRC,LBLHO,	8	1125	B	S80 008		73
632				BCE	BTOLBL,ACTSW,1	8	1133	B	/57 Y67 1		73
633				BCE	TSTDBL,LITRSW,1	8	1141	B	S07 Y61 1		74
634				BCE	TSTDBL,ADDRSW,1	8	1149	B	S07 Y59 1		74
635			BTOLBL	B	DOLABL	4	1157	B	T58		74
636				B	SEARCH	4	1161	B	W29		74

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
637			BCE		DBLDEF,DBLSW,1	8	1165	B	S98 Y64 1		74
638			BCE		STORE,SPCSW,0	8	1173	B	S69 Y63 0		75
639			*								
640			*		UNPROCESSED LABEL						
641			*								
642			UNPROC	MCW	@1@,UNPRSW	7	1181	M	Y93 L94		75
643			A		@1@,TOTLAB	7	1188	A	Y93 L93		75
644			BCE		SETSWL,TYPE, /	8	1195	B	S50 075 /		75
645			B		LABRTN	4	1203	B	S94		75
646			*								
647			*		SEARCH TABLE FOR DBL DEF LITERAL						
648			*								
649			TSTDBL	BCE	UNPROC,LBLHO,\$	8	1207	B	/81 008 \$		76
650			B		DOLABL	4	1215	B	T58		76
651			B		SEARCH	4	1219	B	W29		76
652			BCE		UNPROC,DBLSW,0	8	1223	B	/81 Y64 0		76
653			BCE		UNPROC,ADDHO,	8	1231	B	/81 M10		76
654			MZ		BBIT,STLABL	7	1239	Y	112 002		76
655			B		LABRTN	4	1246	B	S94		77
656			*								
657			*		UNPROCESSED LABEL OF LITERAL						
658			*								
659			SETSWL	BCE	LABRTN,LBLHO,\$	8	1250	B	S94 008 \$		77
660			MCW		@11@,LITRSW	7	1258	M	Z01 Y61		77
661			B		LABRTN	4	1265	B	S94		77
662			*								
663			*		STORE LABEL IN TABLE						
664			*								
665			STORE	LCA	FNCTN,SYMBOL	7	1269	L	L08 M19		77
666			LCA		HOLDAD	4	1276	L	Z12		77
667			MRKPRC	MZ	ABBIT,STLABL	7	1280	Y	113 002		78
668			MCW		@1@,PROCSW	7	1287	M	Y93 L95		78
669			LABRTN	B	XXXX	4	1294	B	000		78
670			*								
671			*		DOUBLY DEFINED LABEL						
672			*								
673			DBLDEF	BCE	STORE,ADDHO,	8	1298	B	S69 M10		78
674			MZ		BBIT,STLABL	7	1306	Y	112 002		78
675			BCE		LITRAL,TYPE, /	8	1313	B	T25 075 /		79
676			B		LABRTN	4	1321	B	S94		79
677			*								
678			*		DOUBLE DEFINED LITERAL						
679			*								
680			LITRAL	BWZ	LABRTN,STBOP,B	8	1325	V	S94 004 B		79
681			MCW		@*@,TYPE	7	1333	M	Z05 075		79
682			S		COINT,ORGCTR	7	1340	S	007 Y53		79
683			S		COINT,NOWCCTR	7	1347	S	007 Y48		80
684			B		LABRTN	4	1354	B	S94		80
685			*								
686			*		SET UP LABEL & ADDRESS						

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
687			*		FOR TABLE SEARCH						
688			*								
689			DOLABL	SBR	DOLABR&003	4	1358	H	U34		80
690			MCW		LABEL, FNCTN	7	1362	M	013 L08		80
691			MCW		CNVLAB, ARGUMT#3	7	1369	M	056 Z08		80
692			SETFUN	BCE	*&5, FNCTN,	8	1376	B	T88 L08		80
693			B		*&8	4	1384	B	T95		81
694			MCW		SFXCTR, FNCTN	7	1388	M	L23 L08		81
695			MCW		LABAD&X1, HOLDAD#004	7	1395	M	0W1 Z12		81
696			BCE		DOINDX, HOADD&X1, 0	8	1402	B	U17 0V7 0		81
697			MZ		ABIT, HOLDAD-003	7	1410	Y	111 Z09		81
698			DOINDX	MN	INDFTR, *004	7	1417	D	Y69 U27		82
699			MZ		ZONE, HOLDAD-001	7	1424	Y	113 Z11		82
700			DOLABR	B	XXXX	4	1431	B	000		82
701			*								
702			*		PROCESS A OPERAND OF ORIGIN & EQUATE						
703			*								
704			SETAOP	SBR	AOPRTN&003	4	1435	H	U87		82
705			MCW		&BRSRH, DOLABR&003	7	1439	M	Z15 U34		82
706			MCW		AOPER, FNCTN	7	1446	M	022 L08		82
707			MCW		AOP, ARGUMT	7	1453	M	070 Z08		83
708			B		SETFUN	4	1460	B	T76		83
709			BRSRH	B	SEARCH	4	1464	B	W29		83
710			BCE		ADDBNK,DBLSW,1	8	1468	B	V03 Y64 1		83
711			BCE		STRBNK,SPCSW,0	8	1476	B	U88 Y63 0		83
712			AOPRTN	B	XXXX	4	1484	B	000		83
713			*								
714			*		LABEL NOT IN TABLE, STORE						
715			*		WITH BLANK ADDRESS						
716			*								
717			STRBNK	LCA	FNCTN,SYMBOL	7	1488	L	L08 M19		84
718			LCA		@ @	4	1495	L	Z19		84
719			B		AOPRTN	4	1499	B	U84		84
720			*								
721			*		RETRIEVE VALUE FROM TABLE						
722			*								
723			ADDBNK	BCE	AOPRTN,ADDHO,	8	1503	B	U84 M10		84
724			MCW		@1@,ORGSW	7	1511	M	Y93 Y66		84
725			BWZ		*&5,LBLREF,2	8	1518	V	V30 M11 2		84
726			B		*&8	4	1526	B	V37		85
727			MZ		ABIT,LBLREF	7	1530	Y	111 M11		85
728			MCW		ADDLO,LABADD	7	1537	M	M13 061		85
729			BCE		AOPROC,LABADD-3,%	8	1544	B	W18 058 %		85
730			BWZ		*&008,LABADD-003,2	8	1552	V	V67 058 2		85
731			MCW		@1@,HOADD	7	1560	M	Y93 057		86
732			BCE		AOPRTN,TYPE,0	8	1567	B	U84 075 0		86
733			*								
734			*		ADD CHARACTER ADJUSTMENT FOR EQUATE						
735			*								
736			MZ		LABADD-001,SAVEZN#001	7	1575	Y	060 Z20		86

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
737			A	AOPADJ	LABADD	7	1582	A 026	061		86
738			MZ	SAVEZN	LABADD-001	7	1589	Y 220	060		86
739			BCE	AOPROC	AINDEX	8	1596	B W18	027		87
740			MN	INDFTR	*004	7	1604	D Y69	W14		87
741			MZ	ZONE	LABADD-001	7	1611	Y 113	060		87
742			AOPROC	MZ	ABBIT	7	1618	Y 113	001		87
743			B	AOPRTN		4	1625	B U84			87
744			*								
745			*	TABLE SEARCH							
746			*								
747			SEARCH	SBR	RETURN&003	4	1629	H X66			87
748				MCW	DBLSW&001,DBLSW	7	1633	M Y65	Y64		88
749				MCW	TBRMAX,MAXADD	7	1640	M L11	L14		88
750				MCW	ARGUMT,XR2	7	1647	M Z08	094		88
751				MCW	SRCHS,MAXSER	7	1654	M L99	L22		88
752			TBLSRH	C	FNCTN,SYMBOL	7	1661	C L08	M19		88
753				BE	SETDBL	5	1668	B X45	S		89
754			BCE	RETURN	SYMHO,	8	1673	B X63	M14		89
755			BUMP	A	@010@,XR2	7	1681	A Z23	094		89
756				S	@1@,MAXSER	7	1688	S Y93	L22		89
757				BM	SETSPC,MAXSER	8	1695	V X56	L22 K		89
758				C	XR2,MAXADD	7	1703	C 094	L14		90
759				BU	TBLSRH	5	1710	B W61	/		90
760			BCE	SETSPC	WRAPSW,1	8	1715	B X56	Y62 1		90
761				MCW	@1@,WRAPSW	7	1723	M Y93	Y62		90
762				MCW	ARGUMT,MAXADD	7	1730	M Z08	L14		90
763				S	XR2&001	4	1737	S 095			90
764				B	TBLSRH	4	1741	B W61			91
765			*								
766			*	LABEL IN TABLE							
767			*								
768			SETDBL	MCW	@1@,DBLSW	7	1745	M Y93	Y64		91
769				B	RETURN	4	1752	B X63			91
770			*								
771			*	SPACE AVAILABLE							
772			*								
773			SETSPC	MCW	@1@,SPCSW	7	1756	M Y93	Y63		91
774				RETURN	B	4	1763	B 000			91
775			*								
776			*	INPUT/OUTPUT - PASS C							
777			*								
778			WRITE	WT	COUTPT,TPAREA	8	1767	M X06	I18 W		91
779				NOP	XXXX	4	1775	N 000			91
780				BER	TPERR	5	1779	B 104	L		92
781			BRANCH	NOP	FINAL	4	1784	N Y73			92
782			READ	S	HOLDA	4	1788	S L31			92
783				RT	CINPUT,TPAREA	8	1792	M X05	I18 R		92
784				B	CHKLST	4	1800	B K08			92
785				BER	TPERR	5	1804	B 104	L		92
786				B	NXTREC	4	1809	B Z37			92

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
787			*								
788			*	CLEAR TABLE AREA							
789			*								
790			CLRTAB	MCW	CLRMAX,CLEAR&003	7	1813	M K99	Y23		93
791				CLEAR	CS	4	1820	/ 000			93
792				SBR	CLEAR&003	4	1824	H Y23			93
793				C	CLEAR&003,CLRMIN	7	1828	C Y23	L02		93
794				BU	CLEAR	5	1835	B Y20	/		93
795				B	READ	4	1840	B X88			93
796				NOWCTR	DCW	5	1848				93
797				ORGCTR	DCW	5	1853				94
798				HGHCTR	DCW	5	1858				94
799				ADRSW	DCW	1	1859				94
800				MAXSW	DC	1	1860				94
801				LITRSW	DC	1	1861				94
802				WRAPSW	DCW	1	1862				94
803				SPCSW	DC	1	1863				94
804				DBLSW	DC	1	1864				94
805				DC	@0@	1	1865				94
806				ORGSW	DCW	1	1866				94
807				ACTSW	DCW	1	1867				94
808				DASW	DCW	1	1868				94
809				INDFTR	DCW	1	1869				95
810				DSAPUT	DSA	3	1872	Z77			95
811			*								
812			*	END OF PASS C, GET PASS D							
813			*								
814			FINAL	WTM	COUTPT	5	1873	U X06	M		95
815				RWD	CINPUT	5	1878	U X05	R		95
816				RWD	COUTPT	5	1883	U X06	R		95
817				B	RDPSDD	4	1888	B K47			95
818				LTORG	*			1892			
				DCW	@0@	1	1892			LIT	95
				DCW	@1@	1	1893			LIT	96
				DCW	@005@	3	1896			LIT	96
				DCW	&AOPOR	3	1899	536		ADCON	96
				DCW	@11@	2	1901			LIT	96
				DCW	&00	2	1903			LIT	96
				DCW	@B@	1	1904			LIT	96
				DCW	@%@	1	1905			LIT	96
				ARGUMT	DCW	3	1908			AREA	97
				HOLDAD	DCW	4	1912			AREA	97
				DCW	&BRSRH	3	1915	U64		ADCON	97
				DCW	@	4	1919			LIT	97
				SAVEZN	DCW	1	1920			AREA	97
				DCW	@010@	3	1923			LIT	97
819			ENDOPC	DCW	@j@	1	1924			GMARK	97
820				XFR	LIBRN			B 000			98



SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
821				JOB	AUTOCODER-PASS 6-PROCESS OPERANDS -VERSION 3						
822			*								
823		91	DCW	@00000@		5		0091			101
824		96	DCW	@00000@		5		0096			101
825		101	DCW	@00000@		5		0101			101
826		109	DCW	@2SKB@		4		0109			102
827		113	DCW	@2SKB@		4		0113			102
828			ORG	ZONE&001					0114		
829			*								
830			*	DETERMINE	RECORD TYPE						
831			*								
832			MCW	@0@,ASTRSW		7		0114	M U32 U18		102
833			EM	PUT,CARD&005		8		0121	V 277 005 K		102
834			BCE	PUT,TYPE,%		8		0129	B 277 075 %		102
835			MN	TYPE,TYPEA#001		7		0137	D 075 U33		102
836			BCE	PRINST,TYPEA,		8		0144	B 196 U33		103
837			BCE	PRDSA,TYPEA,2		8		0152	B 318 U33 2		103
838			BCE	PROEND,TYPEA,3		8		0160	B 446 U33 3		103
839			BCE	PROSPX,TYPEA,4		8		0168	B 579 U33 4		103
840			BCE	ORGEQU,TYPEA,6		8		0176	B 489 U33 6		104
841			BCE	ORGEQU,TYPEA,7		8		0184	B 489 U33 7		104
842			B	PUT		4		0192	B 277		104
843			*								
844			*	PROCESS	INSTRUCTIONS						
845			*								
846			PRINST	BWZ	SETAST,STADDR,2	8		0196	V 208 003 2		104
847			B	LOADDR		4		0204	B 215		104
848			SETAST	MCW	@1@,ASTRSW	7		0208	M U34 U18		104
849			*								
850			*	SET	ASTERISK ADDRESS						
851			*								
852			LOADDR	ZA	LABADD,ASTADD#005	7		0215	? 061 U39		105
853			A	COUNT,ASTADD		7		0222	A 007 U39		105
854			S	@1@,ASTADD		7		0229	S U34 U39		105
855			*								
856			*	TEST	FOR A OPERAND						
857			*								
858			BCE	PUT,COUNT,1		8		0236	B 277 007 1		105
859			BCE	PUT,COUNT,2		8		0244	B 277 007 2		105
860			BWZ	*&005,STAOB,2		8		0252	V 264 001 2		106
861			B	SEEBOP		4		0260	B 268		106
862			B	PROCOP		4		0264	B 578		106
863			*								
864			*	TEST	FOR B OPERAND						
865			*								
866			SEEBOP	BCE	PUT,COUNT,4	8		0268	B 277 007 4		106
867			BCE	PUT,COUNT,5		8		0276	B 277 007 5		106
868			BWZ	*&005,STBOP,2		8		0284	V 296 004 2		107
869			B	PUT		4		0292	B 277		107
870			MCW	@003@,XR3		7		0296	M U42 099		107

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
871			MCW	@011@,XR1		7		0303	M U45 089		107
872			B	PROCOP		4		0310	B 578		107
873			B	PUT		4		0314	B 277		107
874			*								
875			*	PROCESS	DSA AND ADCON						
876			*								
877			PRDSA	BWZ	*&005,STADDR,2	8		0318	V 330 003 2		108
878			B	TSTPRC		4		0326	B 434		108
879			MCW	@1@,ASTRSW		7		0330	M U34 U18		108
880			SETDSA	ZA	LABADD,ASTADD	7		0337	? 061 U39		108
881			MCW	@003@,XR3		7		0344	M U42 099		108
882			MCW	@011@,XR1		7		0351	M U45 089		109
883			BWZ	*&005,STBOP,2		8		0358	V 370 004 2		109
884			B	PUT		4		0366	B 277		109
885			B	PROCOP		4		0370	B 578		109
886			BWZ	PUT,STBOP,2		8		0374	V 277 004 2		109
887			BCE	CMP16K,A,INDEX,-	??? OR ! ???	8		0382	B 409 027 -		109
888			COMPRS	MCW	&PUT,OPRTN&3	7		0390	M U48 /78		110
889			BCE	PUT,AOP&1,%		8		0397	B 277 071 %		110
890			B	CNVTO3		4		0405	B '94		110
891			*								
892			*	GET	16000 COMPLEMENT						
893			*								
894			CMP16K	MCW	&16000,FNCTN-001	7		0409	M U53 L07		110
895			S	HOLDAR,FNCTN-001		7		0416	S U58 L07		110
896			ZA	FNCTN-001,HOLDAR#005		7		0423	? L07 U58		111
897			B	COMPRS		4		0430	B 390		111
898			TSTPRC	BWZ	SETDSA,STBOP,2	8		0434	V 337 004 2		111
899			B	PUT		4		0442	B 277		111
900			*								
901			*	PROCESS	EX & END						
902			*								
903			PROEND	S	ASTADD	4		0446	S U39		111
904			BWZ	*&005,STAOB,2		8		0450	V 462 001 2		111
905			B	*&005		4		0458	B 466		111
906			B	PROCOP		4		0462	B 578		112
907			BCE	ENDOPN,TYPE,3		8		0466	B 478 075 3		112
908			B	PUT		4		0474	B 277		112
909			ENDOPN	MCW	@B@,BRNCH2	7		0478	M U59 X84		112
910			B	PUT		4		0485	B 277		112
911			*								
912			*	PROCESS	ORIGIN & EQUATE						
913			*								
914			ORGEQU	BWZ	*&005,STAOB,2	8		0489	V 501 001 2		112
915			B	ORGOUT		4		0497	B 574		112
916			BCE	ORGOUT,AOPHO,		8		0501	B 574 017		113
917			BWZ	ORGOUT,AOPHO,2		8		0509	V 574 017 2		113
918			BCE	ORGOUT,AOPHO,*		8		0517	B 574 017 *		113
919			BCE	ORGOUT,AOPHO,%		8		0525	B 574 017 %		113
920			B	PROCOP		4		0533	B 578		113

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
921				BWZ	ORGOUT, STAOP, 2	8	0537	V 574	001 2		114
922				MCW	@0@, ITERSW	7	0545	M U32	U28		114
923				BCE	*&008, TYPEA, 7	8	0552	B 567	U33 7		114
924				MZ	BBIT, STAOP	7	0560	Y 112	001		114
925				MCW	HOLDAR, LABADD	7	0567	M U58	061		114
926				ORGOUT B	PUT	4	0574	B 277			115
927				*							
928				*	PROCESS OPERAND SUB-ROUTINE						
929				*							
930				PROCOP SBR	OPRTN&003	4	0578	H /78			115
931				BWZ	*&005, STAOP&X3, 2	8	0582	V 594	071 2		115
932				B	OPRTN	4	0590	B /75			115
933				BCE	SETZRO, AOPHO&X1,	8	0594	B 942	0/7		115
934				BCE	PERCNT, AOPHO&X1, %	8	0602	B 950	0/7 %		115
935				BWZ	FLOAT, AOPHO&X1, 2	8	0610	V S21	0/7 2		116
936				BCE	PROAST, AOPHO&X1, *	8	0618	B /90	0/7 *		116
937				*							
938				*	CONVERT SYMBOL TO TABLE ADDRESS						
939				*							
940				CNVSYM BCE	*&005, AOP-002&X3,	8	0626	B 638	0F8		116
941				B	SETSYM	4	0634	B 804			116
942				MCW	AOPER&X1, W6AREA#006	7	0638	M OS2	U65		116
943				BCE	*&5, W6AREA,	8	0645	B 657	U65		117
944				B	*&8	4	0653	B 664			117
945				MCW	SFXCTR, W6AREA	7	0657	M L23	U65		117
946				ZA	&2, HOLD2#002	7	0664	? U66	U68		117
947				ZA	W6AREA-2, HOLD4#004	7	0671	? U63	U72		117
948				A	W6AREA, HOLD4	7	0678	A U65	U72		118
949				A	W6AREA, HOLD4-002	7	0685	A U65	U70		118
950				MZ	NOBIT, HOLD4	7	0692	Y 110	U72		118
951				ZA	FACTOR, HOLD7	7	0699	? L88	U26		118
952				MPYLP MN	HOLD7, HOLD1	7	0706	D U26	U27		118
953				ZA		1	0713	?			118
954				MULT BCE	NXTDGT, HOLD1, ?	8	0714	B 740	U27 ?		119
955				A	HOLD4, HOLD7-002	7	0722	A U72	U24		119
956				S	&1, HOLD1	7	0729	S U73	U27		119
957				B	MULT	4	0736	B 714			119
958				NXTDGT S	&1, HOLD2	7	0740	S U73	U68		119
959				BWZ	MPYLP, HOLD2, B	8	0747	V 706	U68 B		120
960				MCW	@000@, AOP&X3	7	0755	M U76	0G0		120
961				BAV	*&001	5	0762	B 767	Z		120
962				LOOP1 A	&96, HOLD7-005	7	0767	A U78	U21		120
963				BAV	LOOP1	5	0774	B 767	Z		120
964				MZ	HOLD7-006, AOP&X3	7	0779	Y U20	0G0		120
965				MCW	HOLD7-003	4	0786	M U23			121
966				MN	HOLD7-005, *&004	7	0790	D U21	800		121
967				MZ	ZONE2, AOP-002&X3	7	0797	Y 109	0F8		121
968				*							
969				*	SYMBOLIC OPERAND						
970				*							

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
971				SETSYM MCW	AOPER&X1, FNCTN	7	0804	M OS2	L08		121
972				BCE	*&005, FNCTN,	8	0811	B 823	L08		121
973				B	*&008	4	0819	B 830			121
974				MCW	SFXCTR, FNCTN	7	0823	M L23	L08		122
975				MCW	TABMAX, MAXADD	7	0830	M L11	L14		122
976				MCW	@0@, SWICH1	7	0837	M U32	U19		122
977				MCW	AOP&X3, XR2	7	0844	M 0G0	094		122
978				MCW	SERCHS, MAXSER	7	0851	M L99	L22		122
979				*							
980				*	TABLE SEARCH						
981				*							
982				SRHLOP C	FNCTN, SYMBOL	7	0858	C L08	M19		123
983				BE	RECALL	5	0865	B 980	S		123
984				BCE	UNDEF, SYMHO,	8	0870	B 961	M14		123
985				BUMPER A	@010@, XR2	7	0878	A U81	094		123
986				S	@1@, MAXSER	7	0885	S U34	L22		123
987				BM	UNDEF, MAXSER	8	0892	V 961	L22 K		124
988				C	XR2, MAXADD	7	0900	C 094	L14		124
989				BU	SRHLOP	5	0907	B 858	/		124
990				BCE	UNDEF, SWICH1, 1	8	0912	B 961	U19 1		124
991				MCW	@1@, SWICH1	7	0920	M U34	U19		124
992				MCW	AOP&X3, MAXADD	7	0927	M 0G0	L14		125
993				S	XR2&001	4	0934	S 095			125
994				B	SRHLOP	4	0938	B 858			125
995				*							
996				*	BLANK OPERAND						
997				*							
998				SETZRO S	HOLDAR	4	0942	S U58			125
999				B	CHRADJ	4	0946	B '49			125
1000				*							
1001				*	PERCENT OPERAND						
1002				*							
1003				PERCNT MCW	AOPER-003&X1, AOP&X3	7	0950	M 0/9	0G0		125
1004				B	MARK	4	0957	B /68			125
1005				*							
1006				*	UNDEFINED OPERAND						
1007				*							
1008				UNDEF BCE	OPRTN, ITERSW, 0	8	0961	B /75	U28 0		126
1009				MCW	@###@, AOP&X3	7	0969	M U84	0G0		126
1010				B	OPRTN	4	0976	B /75			126
1011				*							
1012				*	RETRIEVE VALUE FROM TABLE						
1013				*							
1014				RECALL BCE	UNDEF, ADDHO,	8	0980	B 961	M10		126
1015				BWZ	*&5, LBLREF, 2	8	0988	V '00	M11 2		126
1016				B	*&8	4	0996	B '07			126
1017				MZ	ABIT, LBLREF	7	1000	Y 111	M11		127
1018				MCW	ADDLO, HOLDAR	7	1007	M M13	U58		127
1019				MCW	@0@	4	1014	M U32			127
1020				BCE	IOADD, HOLDAR-003, %	8	1018	B /79	U55 %		127

AUTOCODER-PASS 6-PROCESS OPERANDS				-VERSION 3	3761L	PAGE 21			
SEQ	PG	LIN	LABEL OP OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1021			BWZ *008,HOLDAR-003,2	8	1026	V '41	U55 2		127
1022			MCW @1@,HOLDAR-4	7	1034	M U34	U54		128
1023			BCE TSTCNV,TYPEA,6	8	1041	B '78	U33 6		128
1024			*						
1025			* ADD CHARACTER ADJUSTMENT						
1026			*						
1027			CHRADJ MZ HOLDAR-001,HOLDZN#001	7	1049	Y U57	U85		128
1028			BCE TSTCNV,AOPADJ-002&X1,X	8	1056	B '78	054 X		128
1029			A AOPADJ&X1,HOLDAR	7	1064	A 056	U58		128
1030			MZ HOLDZN,HOLDAR-001	7	1071	Y U85	U57		129
1031			TSTCNV BM MARK,TYPE	8	1078	V /68	075 K		129
1032			BCE MARK,TYPEA,2	8	1086	B /68	U33 2		129
1033			*						
1034			* CONVERT FIVE DIGIT ADDRESS TO THREE DIGIT ADDR						
1035			*						
1036			CNVTO3 BAV *001	5	1094	B '99	Z		129
1037			A @9@,HOLDAR-003	7	1099	A U87	U55		129
1038			BAV CNVTO3&005	5	1106	B '99	Z		130
1039			MZ HOLDAR-004,HOLDAR	7	1111	Y U54	U58		130
1040			MN HOLDAR-003,*004	7	1118	D U55	/28		130
1041			MZ ZONE2,HOLDAR-002	7	1125	Y U109	U56		130
1042			MZ HOLDZN,HOLDAR-001	7	1132	Y U85	U57		130
1043			BCE STRADD,AINDEX&X1,	8	1139	B /61	057		131
1044			MN AINDEX&X1,*004	7	1147	D 057	/57		131
1045			MZ ZONE,HOLDAR-001	7	1154	Y U113	U57		131
1046			STRADD MCW HOLDAR,AOP&X3	7	1161	M U58	060		131
1047			*						
1048			* MARK OPERAND PROCESSING						
1049			*						
1050			MARK MZ ABBIT,STAOP&X3	7	1168	Y U113	071		131
1051			OPRTN B XXXX	4	1175	B 000			132
1052			*						
1053			* I/O ADDRESS IN TABLE						
1054			*						
1055			IOADD MCW HOLDAR-001,AOP&X3	7	1179	M U57	060		132
1056			B MARK	4	1186	B /68			132
1057			*						
1058			* ASTERISK OPERAND						
1059			*						
1060			PROAST BCE *05,AOPER&X1,	8	1190	B S02	052		132
1061			B CNVSYM	4	1198	B 626			132
1062			BCE OPRTN,ASTRSW,1	8	1202	B /75	U18 1		132
1063			MCW ASTADD,HOLDAR	7	1210	M U39	U58		133
1064			B CHRADJ	4	1217	B '49			133
1065			*						
1066			* ACTUAL OPERAND - FLOAT TO 5 DIGITS						
1067			*						
1068			FLOAT BCE CNVSYM,AOPHO&X1,#	8	1221	B 626	0/7 #		133
1069			BCE CNVSYM,AOPHO&X1,@	8	1229	B 626	0/7 @		133
1070			BWZ *005,AOPER-004&X1,2	8	1237	V S49	0/8 2		133

AUTOCODER-PASS 6-PROCESS OPERANDS				-VERSION 3	3761L	PAGE 22			
SEQ	PG	LIN	LABEL OP OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1071			B CNVSYM	4	1245	B 626			133
1072			ZA AOPER-001&X1,HOLDAR	7	1249	? 051	U58		134
1073			REFLOT BCE *005,HOLDAR,& ??? OR ? ???	8	1256	B S68	U58 &		134
1074			B CHRADJ	4	1264	B '49			134
1075			ZA HOLDAR-001,HOLDAR	7	1268	? U57	U58		134
1076			B REFLOT	4	1275	B S56			134
1077			*						
1078			* PROCESS SUFFIX						
1079			*						
1080			PROSFY MCW AOPHO,SFXCTR	7	1279	M 017	L23		134
1081			B PUT	4	1286	B 277			135
1082			*						
1083			* INITIALIZE PASS D						
1084			*						
1085			PASSD SW GRPMK2-1	4	1290	, U30			135
1086			RTW DINPUT,BYPRD	8	1294	L 006	U29 R		135
1087			CW GRPMK2-1	4	1302	) U30			135
1088			CS CARD&80	4	1306	/ 080			135
1089			SW CARD&001,CARD&006	7	1310	, 001	006		135
1090			SW CARD&017,CARD&024	7	1317	, 017	024		135
1091			SW CARD&028,CARD&035	7	1324	, 028	035		136
1092			SW CARD&057,CARD&062	7	1331	, 057	062		136
1093			SW CARD&068,CARD&071	7	1338	, 068	071		136
1094			MCW BUMPOP,BUMPER	7	1345	M L27	878		136
1095			MCW @6@,TPHLT&4	7	1352	M U88	J15		136
1096			MCW @6@,TPHLT2&4	7	1359	M U88	K01		137
1097			MCW @6@,TPHLT3&4	7	1366	M U88	J42		137
1098			MCW TPAD,WRITE2&006	7	1373	M L34	X73		137
1099			MCW TPAD,READ2&010	7	1380	M L34	X98		137
1100			MCW @ @,SFXCTR	7	1387	M U89	L23		137
1101			*						
1102			* TEST LAST ITERATION						
1103			*						
1104			BCE LSTITR,PROCSW,0	8	1394	B U07	L95 0		138
1105			BCE	1	1402	B			138
1106			B READ2	4	1403	B X88			138
1107			LSTITR MCW @1@,ITERSW	7	1407	M U34	U28		138
1108			B READ2	4	1414	B X88			138
1109			ASTRSW DCW 0	1	1418				138
1110			SWICH1 DCW @0@	1	1419				138
1111			HOLD7 DCW @ @	7	1426				139
1112			HOLD1 DCW &0	1	1427				139
1113			ITERSW DCW @0@	1	1428				139
1114			BYPRD DCW @ @	1	1429				139
1115			GRPMK2 DCW @} @	2	1431				139
1116			SSOP EQU 1900						
1117			LTORG *			1432			
			DCW @0@	1	1432			LIT	139
			DCW #01	1	1433			AREA	139
			DCW @1@	1	1434			LIT	140



SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1195					* PRINT SUBROUTINE FOR UNREFERENCED LABELS & SYMBOL TABLE						
1196					*						
1197			PRINT	SBR	PRTXT&3	4		0538	H 634		155
1198				MCW	SYMBOL, 206&X1	7		0542	M M19 2'6		155
1199				BCE	DOIO, ADDHO, %	8		0549	B 635 M10 %		155
1200				MN	ADDLO, 212&X1	7		0557	D M13 2/2		155
1201				MN		1		0564	D		156
1202				MN		1		0565	D		156
1203				MN		1		0566	D		156
1204				BWZ	*%8, ADDHO, 2	8		0567	V 582 M10 2		156
1205				MCW	@1@, 208&X1	7		0575	M S05 2'8		156
1206				BWZ	PRTXT, ADDLO-1, 2	8		0582	V 631 M12 2		156
1207				MN	@1@, 215&X1	7		0590	D S05 2/5		156
1208				MCW	@%X@	4		0597	M S07		157
1209				BWZ	PRTXT, ADDLO-1, S	8		0601	V 631 M12 S		157
1210				MN	@2@, 215&X1	7		0609	D S08 2/5		157
1211				BWZ	PRTXT, ADDLO-1, K	8		0616	V 631 M12 K		157
1212				MN	@3@, 215&X1	7		0624	D S09 2/5		157
1213				PRTXT	B XXXX	4		0631	B 000		157
1214				DOIO	MCW ADDLO, 212&X1	7		0635	M M13 2/2		158
1215				B	PRTXT	4		0642	B 631		158
1216					*						
1217					* PRINT SYMBOL TABLE						
1218					*						
1219			DUMP	B	NXTPGE	4		0646	B 859		158
1220				S	XR3&1	4		0650	S 100		158
1221				S		1		0654	S		158
1222				S		1		0655	S		158
1223				NXTCTR	SW ENDSW#1	4		0656	, S10		158
1224				BW	SCAN, SORTAB&1&X3	8		0660	V 687 /D9 1		159
1225				BMPXR3	BCE TSTEOJ, SORTAB&1&X3, @	8		0668	B 888 /D9 @		159
1226				A	&1, XR3	7		0676	A S11 099		159
1227				B	NXTCTR	4		0683	B 656		159
1228				SCAN	BCE BMPXR3, SORTAB&1&X3, !	8		0687	B 668 /D9 !		159
1229				BCE	BMPXR3, SORTAB&1&X3, '	8		0695	B 668 /D9 '		160
1230				BCE	BMPXR3, SORTAB&1&X3, /	8		0703	B 668 /D9 /		160
1231				MCW	SORTAB&1&X3, TSTLBL&7	7		0711	M /D9 725		160
1232				TSTLBL	BCE DOPNT, SYMHO, X	8		0718	B 777 M14 X		160
1233				NOT	A @01@, XR2	7		0726	A /85 094		160
1234				C	XR2, TABMAX	7		0733	C 094 L11		161
1235				BU	TSTLBL	5		0740	B 718 /		161
1236				S	XR2&1	4		0745	S 095		161
1237				S		1		0749	S		161
1238				A	&1, XR3	7		0750	A S11 099		161
1239				CW	ENDSW	4		0757	) S10		161
1240				BW	PNTSYM, PNTSW	8		0761	V 812 S18 1		161
1241				SW	PNTSW	4		0769	, S18		162
1242				B	TSTESW	4		0773	B 847		162
1243				DOPNT	BCE NOT, ADDHO,	8		0777	B 726 M10		162
1244				B	PRINT	4		0785	B 538		162

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1245				SW	PNTSW	4		0789	, S18		162
1246				A	@016@, XR1	7		0793	A S14 089		162
1247				C	XR1, @128@	7		0800	C 089 S17		162
1248				BU	NOT	5		0807	B 726 /		163
1249				PNTSYM	W	1		0812	2		163
1250				CW	PNTSW#1	4		0813	) S18		163
1251				CS	332	4		0817	/ 332		163
1252				CS		1		0821	/		163
1253				S	XR1&1	4		0822	S 090		163
1254				BW	*%9, ENDSW	8		0826	V 842 S10 1		163
1255				BCE	TSTEOJ, SORTAB&1&X3, @	8		0834	B 888 /D9 @		164
1256				BCV	NXTPGE	5		0842	B 859 @		164
1257				TSTESW	BW NOT, ENDSW	8		0847	V 726 S10 1		164
1258				B	NXTCTR	4		0855	B 656		164
1259				NXTPGE	SBR PCXT&3	4		0859	H 887		164
1260				CS	332	4		0863	/ 332		164
1261				CS		1		0867	/		164
1262				CC	1	2		0868	F 1		165
1263				MCW	@SYMBOL TABLE@, 212	7		0870	M S30 212		165
1264				W		1		0877	2		165
1265				CC	K	2		0878	F K		165
1266				CS	212	4		0880	/ 212		165
1267				PGXT	B XXXX	4		0884	B 000		165
1268				TSTEOJ	BW *%3, HEADSW	8		0888	V 898 /80 1		165
1269				CC	1	2		0896	F 1		166
1270				CS	332	4		0898	/ 332		166
1271				CHAIN	3					MACRO	
1272				CS		1		0902	/	GEN	166
1273				CS		1		0903	/	GEN	166
1274				CS		1		0904	/	GEN	166
1275				BCE	EOJOB, ITERS, 1	8		0905	B 997 U28 1		166
1276					*						
1277					* GET PASS C						
1278					*						
1279				BSP	SYSTPE	5		0913	U %U1 B		166
1280				BSP	SYSTPE	5		0918	U %U1 B		167
1281				MCW	@5@, TPHALT&4	7		0923	M S31 J15		167
1282				MCW	@5@, TPHLT2&4	7		0930	M S31 K01		167
1283				MCW	@5@, TPHLT3&4	7		0937	M S31 J42		167
1284				MCW	@0@, PROCSW	7		0944	M S33 L95		167
1285				MCW	@ @, SFXCTR	7		0951	M S34 L23		168
1286					*						
1287					* SET NUMBER OF SEEKS FOR TABLE SEARCH						
1288					*						
1289				C	TOTLAB, TABLSZ	7		0958	C L93 L18		168
1290				MCW	TABLSZ, SERCHS	7		0965	M L18 L99		168
1291				S	TOTLAB	4		0972	S L93		168
1292				BE	RDPSSC	5		0976	B K72 S		168
1293				BH	RDPSSC	5		0981	B K72 U		168
1294				MCW	@0009, SERCHS	7		0986	M S38 L99		169

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1295				B	RDPSCC		4	0993	B K72		169
1296			*								
1297				*	LAST ITERATION, GET PASS C						
1298			*								
1299			EOJOB	CW	GRPMK2-1		4	0997	) U30		169
1300				CS	3999		4	1001	/ I99		169
1301				BCE	READE,MACHSZ,3		8	1005	B '44 L89 3		169
1302				CS	4799		4	1013	/ 79Z		169
1303					CHAIN 7					MACRO	
1304				CS			1	1017	/	GEN	169
1305				CS			1	1018	/	GEN	170
1306				CS			1	1019	/	GEN	170
1307				CS			1	1020	/	GEN	170
1308				CS			1	1021	/	GEN	170
1309				CS			1	1022	/	GEN	170
1310				CS			1	1023	/	GEN	170
1311			CLR	CS	3999		4	1024	/ I99		170
1312				SBR	CLR&3		4	1028	H '27		171
1313				C	CLR&3,&SSOP-1		7	1032	C '27 S41		171
1314				BU	CLR		5	1039	B '24 /		171
1315			READE	RTW	SYSTPE,SSOP		8	1044	L %U1 Z00 R		171
1316				BER	SYSERR		5	1052	B '68 L		171
1317			GOTOE	MCW	@N@,SSOP		7	1057	M S42 Z00		171
1318				B	SSOP&1		4	1064	B Z01		172
1319			SYSERR	MCW	&9,RDCT#1		7	1068	M S43 S44		172
1320				BSP	SYSTPE		5	1075	U %U1 B		172
1321			RETRY	RTW	SYSTPE,SSOP		8	1080	L %U1 Z00 R		172
1322				BER	AGAIN		5	1088	B '97 L		172
1323				B	GOTOE		4	1093	B '57		172
1324			AGAIN	BSP	SYSTPE		5	1097	U %U1 B		172
1325				S	@1@,RDCT		7	1102	S S05 S44		173
1326				BWZ	RETRY,RDCT,B		8	1109	V '80 S44 B		173
1327				H	XXXX,691		7	1117	. 000 691		173
1328				RTW	SYSTPE,SSOP		8	1124	L %U1 Z00 R		173
1329				BSS	SYSERR,E		5	1132	B '68 E		173
1330				H	XXXX,612		7	1137	. 000 612		174
1331				B	GOTOE		4	1144	B '57		174
1332			LIST	DCW	@ ABCDEFGHI!JKLMNPNQR / STUVWXYZ)@@		32	1179			175
1333			SORTAB	EQU	LIST-31			1148			
1334				LTORG	*				1180		
			HEADSW	DCW	#01		1	1180		AREA	175
				DCW	@A@		1	1181		LIT	175
				DCW	@Z@		1	1182		LIT	175
				DCW	@010@		3	1185		LIT	175
				DCW	@UNREFERENCED LABELS@		19	1204		LIT	176
				DCW	@1@		1	1205		LIT	176
				DCW	@&X@		2	1207		LIT	176
				DCW	@2@		1	1208		LIT	176
				DCW	@3@		1	1209		LIT	176
			ENDSW	DCW	#01		1	1210		AREA	176

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
					DCW &1		1	1211		LIT	176
					DCW @016@		3	1214		LIT	177
					DCW @128@		3	1217		LIT	177
			PNTSW		DCW #01		1	1218		AREA	177
					DCW @SYMBOL TABLE@		12	1230		LIT	177
					DCW @5@		1	1231		LIT	177
					DCW @00@		2	1233		LIT	177
					DCW @ @		1	1234		LIT	177
					DCW &0009		4	1238		LIT	178
					DCW &SSOP-1		3	1241	Y99	ADCON	178
					DCW @N@		1	1242		LIT	178
					DCW &9		1	1243		LIT	178
1335			RDCT	DCW	#01		1	1244		AREA	178
1336			ENDOVL	DCW	@j@		1	1245		GMARK	178
1337				EX	LIBRN				B 000		179
				END	LIBRN				/ 000 080		

SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS
ABBIT	113	ABIT	111	ACTSW	1867	ACTUAL	761	ADDBNK	1503	ADDHO	2400+X2	ADDLO	2403+X2
ADDRSW	1859	ADDRTN	1086	AGAIN	1097	AINDEX	27	ANAL	114	AOP	70	AOPADJ	26
AOPER	22	AOPHO	17	AOPOR	536	AOPOUT	669	AOPROC	1618	AOPRTN	1484	ARGUMT	1908
ASTADD	1439	ASTRSK	708	ASTRSW	1418	BBIT	112	BLKAOP	735	BLKCT	2330	BLKG12	2852
BLKG8K	2836	BMPXR3	668	BRANCH	1784	BRNCH2	1784	BRSRH	1464	BSP1	2040	BSP2	2084
BTOADD	887	BTOLAB	474	BTOLBL	1157	BUMP	1681	BUMPER	878	BUMPOP	2327	BYPRD	1429
CARD	0	CHKLGT	2208	CHRADJ	1049	CINPUT	%U5	CLEAR	1820	CLR	1024	CLRMAS	2299
CLRMIN	2302	CLRTAB	1813	CMP16K	409	CNVLAB	56	CNVSYM	626	CNVTO3	1094	COMPRS	390
CONST	260	COUNT	7	COUTPT	%U6	DA	871	DASW	1868	DBLDEF	1298	DBLSW	1864
DINPUT	%U6	DOINDX	1417	DOIO	635	DOLABL	1358	DOLABR	1431	DONEXT	461	DOPNT	777
DOREF	441	DOUPTT	%U5	DS	295	DSAPUT	1872	DUMP	646	ENDINT	2901	ENDOFC	1924
ENDOFD	1868	ENDOPN	478	ENDOVL	1245	ENDSW	1210	EOJOB	997	EXEND	973	FACTOR	2388
FINAL	1873	FINALD	1813	FLOAT	1221	FNCTN	2308	GET	1925	GOTOE	1057	GPMRK3	3998
GRPMK2	1431	GRPMRK	2866	HEADSW	1180	HGKCTR	1858	HOADD	57	HOLD1	1427	HOLD2	1468
HOLD4	1472	HOLD7	1426	HOLDA	2331	HOLDAD	1912	HOLDAR	1458	HOLDZN	1485	INDPTR	1869
INITAP	%U0	INPUT	3917+X3	INST2	2169	INSTR	219	IOADD	1179	ITERSW	1428	KBLKNG	2326
KEEP1	2877	LABADD	61	LABEL	13	LABRTN	1294	LBLHO	8	LBLREF	2401+X2	LGTC	2223
LGTXT	2243	LIBRN	0	LIMAD	2894	LIMIT	3931	LIST	1179	LITRAL	1325	LITRSW	1861
LITPST	1090	LOADDR	215	LOOP1	767	LOZNG	530	LSTITR	1407	MACHSZ	2389	MARK	1168
MAXADD	2314	MAXSER	2322	MAXSW	1860	MDTF	2882	MDTP12	2865	MDTP8K	2849	MOVEIN	1951
MPYLP	706	MRKPRC	1280	MULT	714	NEWPGE	502	NOBIT	110	NOT	726	NOWCTR	1848
NXTCNT	655	NXTCTR	656	NXTDGT	740	NXTLBL	348	NXTPGE	859	NXTREC	1937	OPRTN	1175
ORG	376	ORGADD	32	ORGCTR	1853	ORGEQU	489	ORGOUT	574	ORGSV	432	ORGSW	1866
ORIGDA	926	PASSD	1290	PERCNT	950	PGXT	884	PNTSW	1218	PNTSYM	812	PRCADD	1003
PRCAST	283	PRDSA	318	PRINST	196	PRINT	538	PROAST	1190	PROCLB	1109	PROCCP	578
PROCSW	2395	PROCTU	361	PROEND	446	PROSPX	1279	PRTXT	631	PUT	1977	RDC	1244
RDPSSC	2272	RDPSSD	2247	RDRERR	2077	READ	1788	READ2	1788	READCT	2338	READE	1044
RECALL	980	REDXT	2073	REPLOT	1256	RETRY	1080	RETURN	1763	RSTSWA	616	SAVETP	%U4
SAVEZN	1920	SCAN	687	SCNTB	806	SEARCH	1629	SEEBOP	268	SERCHS	2399	SETHK	2620
SETAOP	1435	SETAST	208	SETBMP	2718	SETDBL	1745	SETDSA	337	SETFUN	1376	SETHGH	405
SETIO	2493	SETORG	609	SETSPC	1756	SETSWL	1250	SETSYS	598	SETSYM	804	SETTP	2662
SETZRO	942	SFX	992	SFXCTR	2323	SORTAB	1148	SPCSW	1863	SRHLOP	858	SSOP	1900
STADDR	3	STAOP	1	STBOP	4	STLABL	2	STORE	1269	STRADD	1161	STRBNK	1488
STRSAV	502	SUBCTR	2186	SUPADD	66	SWICH1	1419	SWTAB	433	SYMBOL	2409+X2	SYMHO	2404+X2
SYSERR	1068	SYSTPE	%U1	TABLE	2409	TABLSZ	2318	TABMAX	2311	TBLM12	2859	TBLM8K	2843
TBLSRH	1661	TBSZ12	2856	TBSZ8K	2840	TOTLAB	2393	TPAD	2334	TPAD12	2862	TPAD8K	2846
TPAREA	3918	TPERR	2004	TPHALT	2111	TPHLT2	2197	TPHLT3	2138	TPINST	2060	TSTADD	1022
TSTCNV	1078	TSTDBL	1207	TSTEOJ	888	TSTESW	847	TSTLBL	718	TSTLST	474	TSTPRC	434
TSTREF	333	TSTRPT	910	TSTX00	821	TYPE	75	TYPEA	1433	UNDEF	961	UNPROC	1181
UNPRSW	2394	W6AREA	1465	WRAPSW	1862	WRITE	1767	WRITE2	1767	WRTCTR	2341	WRTRED	2149
XR1	89	XR2	94	XR3	99	XXXX	0	ZONE	113	ZONE2	109		