

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

1401 AUTOCODER-PASS 7-LIST,CONDNS-INITL 1 -VERSION 3 3771L PAGE 1

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
101		000	JOB		1401 AUTOCODER-PASS 7-LIST,CONDNS-INITL 1 -VERSION 3						
102			CTL		630 1						
103			*								
104			*		EQUATERS USED BY THE PROGRAM						
105											
106			INITAP	EQU	%U0			%U0			
107			SYSTAP	EQU	%U1			%U1			
108			ORIGTP	EQU	%U4			%U4			
109			WORKTP	EQU	%U5			%U5			
110			XTRATP	EQU	%U6			%U6			
111			FIXFRM	EQU	0			0000			
112			STLABL	EQU	FIXFRM&2			0002			
113			STSTMT	EQU	FIXFRM&5			0005			
114			COUNT	EQU	FIXFRM&7			0007			
115			ORGADD	EQU	FIXFRM&32			0032			
116			LABADD	EQU	FIXFRM&61			0061			
117			SUPADD	EQU	FIXFRM&66			0066			
118			OP	EQU	FIXFRM&67			0067			
119			AOP	EQU	FIXFRM&70			0070			
120			BOP	EQU	FIXFRM&73			0073			
121			DMOD	EQU	FIXFRM&74			0074			
122			TYPE	EQU	FIXFRM&75			0075			
123			ALTER	EQU	FIXFRM&80			0080			
124			XXXX	EQU	0			0000			
125			PRINT	EQU	200			0200			
126			ALT	EQU	PRINT&4			0204			
127			PG	EQU	PRINT&7			0207			
128			LIN	EQU	PRINT&11			0211			
129			LAB	EQU	PRINT&19			0219			
130			OPCODE	EQU	PRINT&25			0225			
131			OPRAND	EQU	PRINT&78			0278			
132			SUFFIX	EQU	PRINT&80			0280			
133			CT	EQU	PRINT&84			0284			
134			LOCN	EQU	PRINT&90			0290			
135			INOP	EQU	PRINT&93			0293			
136			INAOP	EQU	PRINT&97			0297			
137			INBOP	EQU	PRINT&101			0301			
138			INDMOD	EQU	PRINT&103			0303			
139			KIND	EQU	PRINT&109			0309			
140			CARDNO	EQU	PRINT&114			0314			
141			PUNCH	EQU	100			0100			
142			LIBRN	EQU	0			0000			
143			ZONE	EQU	189			0189			
144			XR1	EQU	89			0089			
145			XR2	EQU	94			0094			
146			XR3	EQU	99			0099			
147			*								

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SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148			*		INITIALIZATION ROUTINE						
149			*								
150				ORG	1900			1900			
151			SSOP	DCW	@B@	1		1900			4
152				CS	332	4		1901 / 332			4
153				CS		1		1905 /			4
154				CS		1		1906 /			4
155				CS		1		1907 /			4
156			RTW	SYSTAP	400	8		1908 L %U1 400 R			4
157			NOP	XXXX		4		1916 N 000			4
158			BER	TPERRI		5		1920 B M03 L			5
159			CW	ENDIN2 ,LSTOP1		7		1925 ) X99 093			5
160			SW	ENDIN		4		1932 , 198			5
161			LCA	ENDIN, 333		7		1936 L 198 333			5
162			LCA	ENDIN, 181		7		1943 L 198 181			5
163			MCW	SSOP, TSTSIZ		7		1950 M 200 407			5
164			MCW	SSOP, SSAVE1		7		1957 M 200 091			6
165			CW	ENDIN		4		1964 ) 198			6
166			RWD	ORIGTP		5		1968 U %U4 R			6
167			RWD	WORKTP		5		1973 U %U5 R			6
168			RWD	XTRATP		5		1978 U %U6 R			6
169			SW	PUNCH&72, PUNCH&76		7		1983 , 172 176			6
170			A	&1, PUNCH&75		7		1990 A 096 175			7
171			B	READ4		4		1997 B T15			7
172			*								
173			*		CHECK FOR JOB CARD						
174			*								
175			C	MNEMON-2, @JOB@		7		2001 C H48 099			7
176			BU	CKCTL		5		2008 B 178 /			7
177			CW	JOBSW#1		4		2013 ) P00			7
178			RT	WORKTP, 180		8		2017 M %U5 180 R			7
179			LCA	333, 181		7		2025 L 333 181			8
180			MCW	OPERND, JOBSAV		7		2032 M 102 085			8
181			MCW	IMAGE&80, PUNCH&80		7		2039 M 110 180			8
182			MCW	ALTNO, JOBALTH#4		7		2046 M 114 P04			8
183			MCW	PAGENO, JOBPAG#2		7		2053 M H32 P06			8
184			MCW	LINENO, JOBLIN#3		7		2060 M H35 P09			9
185			MCW	LABEL, JOBLAB#6		7		2067 M H41 P15			9
186			B	READ4		4		2074 B T15			9
187			*								
188			*		CHECK FOR CONTROL CARD						
189			*								
190			CKCTL	C	MNEMON-2, @CTL@	7		2078 C H48 P18			9
191			BU	TSTSIZ		5		2085 B 407 /			9
192			CW	CTLSW#1		4		2090 ) P19			9
193			MCW	IMAGE&30, CTLSAV#10		7		2094 M H60 P29			10
194			MCW	ALTNO, CTLLALT#4		7		2101 M 114 P33			10
195			MCW	PAGENO, CTLPAG#2		7		2108 M H32 P35			10
196			MCW	LINENO, CTLLIN#3		7		2115 M H35 P38			10
197			B	READ4		4		2122 B T15			10

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
198			*								
199			*	TEST	OUTPUT OPTIONS DESIRED						
200			*								
201			CHKOP	BCE	OPNTAP,LSTAPE,1	8		2126	B K14 P24 1		11
202			TSTOP	BCE	TSTSIZ,OUTOPN,0	8		2134	B 407 P22 0		11
203				BCE	CONDOP,OUTOPN,1	8		2142	B 400 P22 1		11
204				BCE	TSTSIZ,OUTOPN,2	8		2150	B 407 P22 2		11
205				BCE	CONDOP,OUTOPN,3	8		2158	B 400 P22 3		12
206				BCE	TSTSIZ,OUTOPN,4	8		2166	B 407 P22 4		12
207				BCE	CONDOP,OUTOPN,5	8		2174	B 400 P22 5		12
208				BCE	TSTSIZ,OUTOPN,6	8		2182	B 407 P22 6		12
209				BCE	CONDOP,OUTOPN,7	8		2190	B 400 P22 7		13
210				BCE	TSTSIZ,OUTOPN,	8		2198	B 407 P22		13
211				CW	CTLSWL#1	4		2206	) P39		13
212				B	TSTSIZ	4		2210	B 407		13
213			OPNTAP	CW	TAPOPI	4		2214	) O92		13
214				B	TSTOP	4		2218	B J34		13
215			*								
216			*	SETUP & GET	MAIN PROGRAM						
217			*								
218			GETMAN	BSP	ORIGTP	5		2222	U #U4 B		13
219				SW	FIXFRM&1, FIXFRM&6	7		2227	, 001 006		14
220				SW	FIXFRM&8, FIXFRM&14	7		2234	, 008 014		14
221				SW	FIXFRM&23, FIXFRM&57	7		2241	, 023 057		14
222				SW	FIXFRM&62, FIXFRM&67	7		2248	, 062 067		14
223				SW	FIXFRM&68, FIXFRM&71	7		2255	, 068 071		14
224				SW	FIXFRM&74	4		2262	, 074		14
225				CW	181,333	7		2266	) 181 333		15
226			MCW		KBLK1,HOLDAL-1	7		2273	M O27 O23		15
227			LCA		@L0 , , 1 @,PUNCH&71	7		2280	L P71 171		15
228			LCA		@2SKB@,ZONE	7		2287	L P75 189		15
229			LCA		@0000@,XR3&2	7		2294	L P80 101		15
230			LCA		XR3&2	4		2301	L 101		15
231			LCA			1		2305	L		16
232			SW		GRPMK3	4		2306	, O95		16
233			BCE		SETOUT,CNDSWI,1	8		2310	B L49 O33 1		16
234			BW		*&5,LSTOP1	8		2318	V L30 O93 1		16
235			B		SETOUT	4		2326	B L49		16
236			BW		*&5,TAPOPI	8		2330	V L42 O92 1		16
237			B		SETOUT	4		2338	B L49		16
238			MCW		@1@,NOOUT1	7		2342	M P81 O94		17
239			SETOUT	MCW	OUTOPN,OPNSV1	7		2349	M P22 O90		17
240			WTW		XTRATP,SAVCN1	8		2356	L #U6 O21 W		17
241			NOP		XXXX	4		2364	N 000		17
242			BER		TPERRI	5		2368	B M03 L		17
243			RWD		XTRATP	5		2373	U #U6 R		17
244			CW		GRPMK3	4		2378	) O95		18
245			RTW		SYSTAP,201	8		2382	L #U1 201 R		18
246			NOP		XXXX	4		2390	N 000		18
247			BER		TPERRI	5		2394	B M03 L		18

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
248			B		INIT2	4		2399	B 201		18
249			*								
250			*	TAPE	REDUNDANCY ROUTINE						
251			*								
252			TPERRI	SBR	XR2	4		2403	H O94		18
253				SBR	REDXI&3	4		2407	H M75		18
254			MZ		&9,XR2	7		2411	Y P82 O94		19
255			MCW		4000-10&X2,TPINSI&7	7		2418	M IR0 M66		19
256			MN		TPINSI&3,BSPI&3	7		2425	D M62 M42		19
257			MCW		TPINSI&7,INST2I&7	7		2432	M M66 N75		19
258			BSPI	BSP	INITAP	5		2439	U #U0 B		19
259				BCE	WRTRDI,TPINSI&7,W	8		2444	B N48 M66 W		20
260			MCW		&9,READCI#1	7		2452	M P82 P83		20
261			TPINSI	RT	INITAP,XXXX	8		2459	M #U0 000 R		20
262				BER	RDRERI	5		2467	B M76 L		20
263			REDXI	B	XXXX	4		2472	B 000		20
264			RDRERI	MN	TPINSI&3,BSPI&3	7		2476	D M62 M86		20
265			BSPI	BSP	INITAP	5		2483	U #U0 B		21
266			S		&1,READCI	7		2488	S O96 P83		21
267			BWZ		TPINSI,READCI,B	8		2495	V M59 P83 B		21
268			MN		TPINSI&3,TPHALI&6	7		2503	D M62 N16		21
269			TPHALI	H	XXXX,790	7		2510	. 000 790		21
270			MCW		TPINSI&7,*&8	7		2517	M M66 N31		22
271			RT		INITAP,XXXX	8		2524	M #U0 000 R		22
272			BSS		BSPI,E	5		2532	B M39 E		22
273			H		XXXX,711	7		2537	. 000 711		22
274			B		REDXI	4		2544	B M72		22
275			WRTRDI	SKP	SYSTAP	5		2548	U #U1 E		22
276				BCE	SUBCTI,WRCTI-1,5	8		2553	B N85 P84 5		23
277			A		&1,WRCTI#2	7		2561	A O96 P85		23
278			INST2I	WT	INITAP,XXXX	8		2568	M #U0 000 W		23
279				BER	BSPI	5		2576	B M39 L		23
280				B	REDXI	4		2581	B M72		23
281			SUBCTI	S	WRCTI	4		2585	S P85		23
282			MN		TPINSI&3,*&7	7		2589	D M62 O02		24
283			H		XXXX,760	7		2596	. 000 760		24
284			B		INST2I	4		2603	B N68		24
285			CLRLEG	DCW	@CLEAR STORAGE @	14		2620			24
286			HOLDAL	DCW	&0000	4		2624			24
287			KBLK1	DCW	@080@	3		2627			24
288			CORSIZ	DCW	@ 3999@	5		2632			25
289			CNDSWI	DCW	@0@	1		2633			25
290			JOBSAV	DCW	#52	52		2685			27
291			ERRCT1	DCW	@0000@	4		2689			27
292			OPNSV1	DCW	@ @	1		2690			27
293			SSAVE1	DCW	@ @	1		2691			27
294			TAPOPI	DCW	@ @	1		2692			27
295			LSTOP1	DCW	@ @	1		2693			28
296			NOOUT1	DCW	@ @	1		2694			28
297			GRPMK3	DC	@]@	1		2695		GMARK	28

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
298			SAVCN1	EQU	HOLDAL-3			2621			
299			LTORG	*					2696		
			DCW	&1		1		2696		LIT	28
			DCW	@JOB@		3		2699		LIT	28
			JOBSW	DCW	#01	1		2700		AREA	28
			JOBALT	DCW	#04	4		2704		AREA	28
			JOBPAG	DCW	#02	2		2706		AREA	28
			JOBLIN	DCW	#03	3		2709		AREA	29
			JOBLAB	DCW	#06	6		2715		AREA	29
			DCW	@CTL@		3		2718		LIT	29
			CTLSW	DCW	#01	1		2719		AREA	29
			CTLSAV	DCW	#10	10		2729		AREA	29
			CTLALT	DCW	#04	4		2733		AREA	29
			CTLPAG	DCW	#02	2		2735		AREA	29
			CTLLIN	DCW	#03	3		2738		AREA	30
			CTLSW1	DCW	#01	1		2739		AREA	30
			DCW	@L0	, , , 1 @	32		2771		LIT	30
			DCW	@2SKB@		4		2775		LIT	31
			DCW	@00000@		5		2780		LIT	31
			DCW	@1@		1		2781		LIT	31
			DCW	&9		1		2782		LIT	31
			READCI	DCW	#01	1		2783		AREA	31
			WRTCTI	DCW	#02	2		2785		AREA	31
300			ORG		3831				3831		
301			INPUT4	DA	1X86			3831	3916		
302			PAGENO		1,2			3832		FIELD	
303			LINENO		3,5			3835		FIELD	
304			LABEL		6,11			3841		FIELD	
305			MNEMON		16,20			3850		FIELD	
306			OPERND		21,72			3902		FIELD	
307			ALTNO		81,84			3914		FIELD	
308			IMAGE	EQU	INPUT4-1			3830			
309			FIXINP	EQU	IMAGE&87&X3			3917	X		
310			INPUT5	EQU	FIXINP&1&X0			3918			
311			PROSIZ	EQU	CTLSAV-9			2720			
312			OBJSIZ	EQU	CTLSAV-8			2721			
313			OUTOPN	EQU	CTLSAV-7			2722			
314			LSTAPE	EQU	CTLSAV-5			2724			
315			ENDIN	EQU	3998			3998			
316			3998	DCW	@}@	1		3998		GMARK	33
317			XFR		LIBRN				B 000		34

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
318			JOB		1401 AUTOCODER-PASS 7-LIST,CONDNS-INITL 2 -VERSION 3						
319			ORG		400				0400		
320			*								
321			* CONDENSE		OPTION						
322			*								
323			CONDOP	MCW	@1@,CNDSW1	7		0400	M T64 O33		37
324			*								
325			* TEST		OBJECT MACHINE SIZE						
326			*								
327			TSTSIZ	BSS	SENSW,F	5		0407	B /03 F		37
328			BW		*&3,LSTOP1	8		0412	V 422 O93 1		37
329			CC		1	2		0420	F 1		37
330			MCW		@1@,PRINT&15	7		0422	M T64 215		37
331			MCW		CLREK	4		0429	M O20		37
332			MCW		@1@,200	7		0433	M T64 200		38
333			BW		IS4K,CTLSW	8		0440	V 544 P19 1		38
334			C		OBJSIZ,@3@	7		0448	C P21 T65		38
335			BL		OVER4K	5		0455	B 464 T		38
336			B		IS4K	4		0460	B 544		38
337			OVER4K	C	OBJSIZ,@6@	7		0464	C P21 T66		38
338			BL		BADCTL	5		0471	B 540 T		39
339			MCW		@,053053N00000N00001026@,PUNCH&52	7		0476	M T89 152		39
340			LCA		@,008015,022026,030037,044,049@	4		0483	L U18		39
341			MCW		PUNCH&52,PRINT&72	7		0487	M 152 272		39
342			B		PRTPNH	4		0494	B S17		39
343			MCW		@1,001/001117I0?@,PUNCH&71	7		0498	M U33 171		39
344			MCW		@#071029C029056B026/B001/099@	4		0505	M U60		39
345			LCA		@L068116,105106,110117B101/I9I@	4		0509	L U89		40
346			BCE		IS8K,OBJSIZ,4	8		0513	B 651 P21 4		40
347			BCE		IS12K,OBJSIZ,5	8		0521	B 669 P21 5		40
348			MCW		@15@,CORSIZ-3	7		0529	M U91 O29		40
349			B		CLRST2	4		0536	B 683		40
350			BADCTL	CW	CTLSW1	4		0540	) P39		40
351			IS4K	MCW	@,0570571026@,PUNCH&44	7		0544	M V02 144		41
352			LCA		@,008015,019026,030,034041,045,053@	4		0551	L V35		41
353			MCW		PUNCH&44,PRINT&64	7		0555	M 144 264		41
354			B		PRTPNH	4		0562	B S17		41
355			MCW		@B0010270B0261,001/001113I0@,PUNCH&70	7		0566	M V61 170		41
356			LCA		@L068112,102106,113/101099/I99,027A070028)027@	4		0573	L W05		41
357			BCE		CLRST2,OBJSIZ,3	8		0577	B 683 P21 3		42
358			MZ		@S@,PUNCH&27	7		0585	Y W06 127		42
359			MCW		@1@,CORSIZ-3	7		0592	M T64 O29		42
360			BCE		CLRST2,OBJSIZ,2	8		0599	B 683 P21 2		42
361			MCW		@T@,PUNCH&27	7		0607	M W07 127		42
362			MCW		@3@,CORSIZ-2	7		0614	M T65 O30		43
363			BCE		CLRST2,OBJSIZ,1	8		0621	B 683 P21 1		43
364			CW		CTLSW1	4		0629	) P39		43
365			MCW		@1@,PUNCH&27	7		0633	M W08 127		43
366			MCW		@39@,CORSIZ-2	7		0640	M W10 O30		43
367			B		CLRST2	4		0647	B 683		43

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
368			IS8K	MZ	@S@,PUNCH&29	7		0651	Y W06 129		44
369				MCW	@7@,CORSIZ-3	7		0658	M W11 029		44
370				B	CLRST2	4		0665	B 683		44
371			IS12K	MZ	@K@,PUNCH&29	7		0669	Y W12 129		44
372				MCW	@11@,CORSIZ-3	7		0676	M W14 029		44
373			CLRST2	MCW	PUNCH&71,PRINT&91	7		0683	M 171 291		44
374				MCW	@2@,PRINT&15	7		0690	M W15 215		45
375				MCW	CLRLEG	4		0697	M 020		45
376				B	PRTPNH	4		0701	B S17		45
377				MCW	@,0010011040@,PUNCH&71	7		0705	M W26 171		45
378				MCW	@,061068,072/061039@,PUNCH&46	7		0712	M W44 146		45
379				LCA	@,008015,022029,036040,047054@	4		0719	L W72		45
380				MCW	PUNCH&71,PRINT&91	7		0723	M 171 291		46
381				MCW	@BOOTSTRAP@,PRINT&9	7		0730	M W81 209		46
382				B	PRTPNH	4		0737	B S17		46
383				BW	*&3,LSTOP1	8		0741	V 751 093 1		46
384				CC	K	2		0749	F K		46
385				BW	DOHEAD,CTLSW	8		0751	V 818 P19 1		46
386			*								
387			*		TEST PROCESSOR MACHINE SIZE						
388			*								
389				C	PROSIZ,@3@	7		0759	C P20 T65		47
390				BE	DOHEAD	5		0766	B 818 S		47
391				BH	BADPRO	5		0771	B 814 U		47
392				C	PROSIZ,@6@	7		0776	C P20 T66		47
393				BL	BADPRO	5		0783	B 814 T		47
394				MCW	@400@,KBLK1	7		0788	M W84 027		47
395				BCE	DOHEAD,PROSIZ,4	8		0795	B 818 P20 4		48
396				A	@400@,KBLK1	7		0803	A W84 027		48
397				B	DOHEAD	4		0810	B 818		48
398				BADPRO	CW CTLSW1	4		0814	) P39		48
399			*								
400			*		PRINT HEADING, JOB & CONTROL CARDS						
401			*								
402				DOHEAD	MCW @1@,PRINT&114	7		0818	M T64 314		48
403					MCW @PAGE@,PRINT&109	7		0825	M W88 309		48
404					MCW JOBSAV,OPRAND	7		0832	M 085 278		49
405					MCW PUNCH&80,LOCN	7		0839	M 180 290		49
406					MCW @0@,200	7		0846	M W89 200		49
407				B	PRINT2	4		0853	B '61		49
408				BW	*&3,LSTOP1	8		0857	V 867 093 1		49
409				CC	K	2		0865	F K		49
410				CS	PRINT&78	4		0867	/ 278		49
411				MCW	@SFX CT LOCN INSTRUCTION TYPE CARD@,PRINT&114	7		0871	M X25 314		50
412				MCW	@SEQ PG LIN LABEL OP OPERANDS@,PRINT&34	7		0878	M X58 234		50
413				MCW	@0@,200	7		0885	M W89 200		50
414				B	PRINT2	4		0892	B '61		50
415				CS	PRINT&132	4		0896	/ 332		50
416				CS		1		0900	/		50
417				B	PRINT2	4		0901	B '61		50

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
418				BW	TSTCTL,JOBSW	8		0905	V 970 P00 1		51
419				MCS	JOBALT,ALT	7		0913	Z P04 204		51
420				MCS	JOBPAG,PG	7		0920	Z P06 207		51
421				MZ	JOBPAG,PG	7		0927	Y P06 207		51
422				MCW	JOBLIN,LIN	7		0934	M P09 211		51
423				MCW	JOBLAB,LAB	7		0941	M P15 219		52
424				MCW	@JOB@,OPCODE-2	7		0948	M X61 223		52
425				MCW	JOBSAV,OPRAND	7		0955	M 085 278		52
426				B	PRINT2	4		0962	B '61		52
427				CS	OPRAND	4		0966	/ 278		52
428				TSTCTL	BW NOCNTRL,CTLSW	8		0970	V '50 P19 1		52
429				MCS	CTLALT,ALT	7		0978	Z P33 204		53
430				MCS	CTLPAG,PG	7		0985	Z P35 207		53
431				MZ	CTLPAG,PG	7		0992	Y P35 207		53
432				MCW	CTLLIN,LIN	7		0999	M P38 211		53
433				MCW	CTLSAV,PRINT&36	7		1006	M P29 236		53
434				MCW	@CTL@,OPCODE-2	7		1013	M X64 223		54
435				BW	CTLPNT,CTLSW1	8		1020	V '42 P39 1		54
436				MCW	@BAD STATEMENT@,PRINT&128	7		1028	M X77 328		54
437				ERRCTL	A &1,ERRCTL1	7		1035	A X78 089		54
438				CTLPNT	B PRINT2	4		1042	B '61		54
439				B	GETMAN	4		1046	B K22		54
440				NOCNTRL	MCW @NO CONTROL CARD@,PRINT&130	7		1050	M X93 330		55
441				B	ERRCTL	4		1057	B '35		55
442				PRINT2	SBR PNT2XT&3	4		1061	H /02		55
443				BW	*&2,LSTOP1	8		1065	V '74 093 1		55
444				W		1		1073	2		55
445				BW	PNT2XT,TAPOP1	8		1074	V '99 092 1		55
446				WT	3,200	8		1082	M X03 200 W		56
447				NOP	XXXX	4		1090	N 000		56
448				BER	TPERRI	5		1094	B M03 L		56
449				PNT2XT	B XXXX	4		1099	B 000		56
450			*								
451			*		TEST SENSE SWITCHES FOR OUTPUT OPTIONS						
452			*								
453				SENSW	LCA @0@,OUTOPN	7		1103	L W89 P22		56
454					LCA @0@,CNDSW1	7		1110	L W89 033		56
455					MCW @ @,LSTAPE	7		1117	M X94 P24		57
456				SW	TAPOP1	4		1124	, 092		57
457				BSS	ADD1,B	5		1128	B /68 B		57
458				TSTSSC	BSS ADD2,C	5		1133	B /79 C		57
459				TSTSSG	BSS ADD4,G	5		1138	B /90 G		57
460				TSTSSD	BSS LSTAP,D	5		1143	B S01 D		57
461				TSTSSE	BSS SUPLST,E	5		1148	B S09 E		57
462				SSXT	CW OUTOPN	4		1153	) P22		58
463					MCW @N@,TSTSIZ	7		1157	M X95 407		58
464				B	CHOP	4		1164	B J26		58
465				ADD1	A &1,OUTOPN	7		1168	A X78 P22		58
466				B	TSTSSC	4		1175	B /33		58
467				ADD2	A &2,OUTOPN	7		1179	A X96 P22		58

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
468				B	TSTSSG			4 1186	B /38		58
469			ADD4	A	&4,OUTOPN			7 1190	A X97 P22		59
470				B	TSTSSD			4 1197	B /43		59
471			LSTAP	CW	TAPOP1			4 1201	) O92		59
472				B	TSTSSSE			4 1205	B /48		59
473			SUPLST	SW	LSTOP1			4 1209	, O93		59
474				B	SSXT			4 1213	B /53		59
475			*								
476			*		PRINT AND/OR PUNCH						
477			*								
478			PRTPNH	SBR	EXIT&3			4 1217	H T14		59
479				MCS	PUNCH&75,CARDNO			7 1221	Z 175 314		60
480				BW	*&2,LSTOP1			8 1228	V S37 O93 1		60
481				W				1 1236	2		60
482				BW	PUNCH1,TAPOP1			8 1237	V S86 O92 1		60
483				WT	3,200			8 1245	M &U3 200 W		60
484				NOP	XXXX			4 1253	N 000		60
485				BER	TPERRI			5 1257	B M03 L		61
486				MCW	@&@,100			7 1262	M X98 100		61
487				WT	3,100			8 1269	M &U3 100 W		61
488				NOP	XXXX			4 1277	N 000		61
489				BER	TPERRI			5 1281	B M03 L		61
490			PUNCH1	BCE	*&2,CNDSW1,0			8 1286	B S95 O33 0		61
491				P				1 1294	4		61
492				A	&1,PUNCH&75			7 1295	A X78 175		62
493				CS	PRINT&132			4 1302	/ 332		62
494				CS				1 1306	/		62
495				CS	PUNCH&71			4 1307	/ 171		62
496			EXIT	B	XXXX			4 1311	B 000		62
497			*								
498			*		READ ORIGINAL TAPE						
499			*								
500			READ4	SBR	READ4X&3			4 1315	H T39		62
501				RT	ORIGTP,INPUT4			8 1319	M &U4 H31 R		62
502				B	CHKLG			4 1327	B T40		63
503				BER	TPERRI			5 1331	B M03 L		63
504			READ4X	B	XXXX			4 1336	B 000		63
505			CHKLG	BCE	READ4&4,INPUT4&12,}			8 1340	B T19 H43 }	GMARK	63
506				CHAIN	12					MACRO	
507				BCE				1 1348	B	GEN	63
508				BCE				1 1349	B	GEN	63
509				BCE				1 1350	B	GEN	63
510				BCE				1 1351	B	GEN	64
511				BCE				1 1352	B	GEN	64
512				BCE				1 1353	B	GEN	64
513				BCE				1 1354	B	GEN	64
514				BCE				1 1355	B	GEN	64
515				BCE				1 1356	B	GEN	64
516				BCE				1 1357	B	GEN	64
517				BCE				1 1358	B	GEN	65

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
518				BCE				1 1359	B	GEN	65
519				B	READ4X-5			4 1360	B T31		65
520				LTORG	*				1364		
				DCW	@1@			1 1364		LIT	65
				DCW	@3@			1 1365		LIT	65
				DCW	@6@			1 1366		LIT	65
				DCW	@,053053N000000N00001026@			23 1389		LIT	65
				DCW	@,008015,022026,030037,044,049@			29 1418		LIT	66
				DCW	@1,001/001117I0?@			15 1433		LIT	67
				DCW	@#071029C029056B026/B001/099@			27 1460		LIT	68
				DCW	@L068116,105106,110117B101/I9I@			29 1489		LIT	69
				DCW	@15@			2 1491		LIT	69
				DCW	@,0570571026@			11 1502		LIT	70
				DCW	@,008015,019026,030,034041,045,053@			33 1535		LIT	71
				DCW	@B0010270B0261,001/001113I0@			26 1561		LIT	72
				DCW	@L068112,102106,113/101099/I99,027A070028)027@			44 1605		LIT	74
				DCW	@S@			1 1606		LIT	74
				DCW	@T@			1 1607		LIT	74
				DCW	@I@			1 1608		LIT	74
				DCW	@39@			2 1610		LIT	74
				DCW	@7@			1 1611		LIT	75
				DCW	@K@			1 1612		LIT	75
				DCW	@11@			2 1614		LIT	75
				DCW	@2@			1 1615		LIT	75
				DCW	@,0010011040@			11 1626		LIT	75
				DCW	@,061068,072/061039@			18 1644		LIT	75
				DCW	@,008015,022029,036040,047054@			28 1672		LIT	76
				DCW	@BOOTSTRAP@			9 1681		LIT	76
				DCW	@400@			3 1684		LIT	77
				DCW	@PAGE@			4 1688		LIT	77
				DCW	@0@			1 1689		LIT	77
				DCW	@SFX CT LOCN INSTRUCTION TYPE CARD@			36 1725		LIT	78
				DCW	@SEQ PG LIN LABEL OP OPERANDS@			33 1758		LIT	79
				DCW	@JOB@			3 1761		LIT	79
				DCW	@CTL@			3 1764		LIT	79
				DCW	@BAD STATEMENT@			13 1777		LIT	80
				DCW	&1			1 1778		LIT	80
				DCW	@NO CONTROL CARD@			15 1793		LIT	80
				DCW	@ @			1 1794		LIT	80
				DCW	@N@			1 1795		LIT	80
				DCW	&2			1 1796		LIT	80
				DCW	&4			1 1797		LIT	80
				DCW	@&@			1 1798		LIT	81
521			ENDING2	DCW	@}@			1 1799		GMARK	81
522			XFR		LIBRN				B 000		82

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
523			JOB		1401 AUTOCODER-PASS 7 PROCESS EX/END						
524			ORG		ISIOCS				0794		
525			*								
526			* EX,		END CARDS						
527			*								
528			EXEND	MCW	@B@,INOP	7		0794	M D12 293		85
529				MCW	@B@,HOLDH&1	7		0801	M D12 D93		85
530				BCE	SETAOP,TYPE,C	8		0808	B 830 075 C		85
531				MCW	@/ 080@,INBOP	7		0816	M D21 301		85
532				MCW	@/ 080@,HOLDH&7	7		0823	M D28 D99		85
533			SETAOP	MCW	AOP,INAOP	7		0830	M 070 297		86
534				MCW	AOP,HOLDH&4	7		0837	M 070 D96		86
535				BCE	SYMUND,AOP,#	8		0844	B L09 070 #		86
536				B	SETLOC	4		0852	B U18		86
537				B	CONDNS	4		0856	B L54		86
538				B	PRNTLN	4		0860	B Y54		86
539				BCE	GETOV1,TYPE,C	8		0864	B Z63 075 C		87
540				CC	1	2		0872	F 1		87
541				MCW	@1@,200	7		0874	M D29 200		87
542				MCS	ERRCNT,PRINT&4	7		0881	Z C66 204		87
543				C	PRINT&4,BLANK4#4	7		0888	C 204 D33		87
544				BU	SETERH	5		0895	B 945 /		87
545			TSTCOR	BW	EOJOB,ADDRSW#1	8		0900	V 928 D34 1		88
546				MCW	WORD1,PRINT&20	7		0908	M S49 220		88
547				B	WTAPE	4		0915	B J24		88
548				BW	*&2,LSTOP	8		0919	V 928 C70 1		88
549				W		1		0927	2		88
550			EOJOB	BW	RESET,TAPOP	8		0928	V 543 C69 1		88
551				WTM	3	5		0936	U %03 M		89
552				B	RESET	4		0941	B 543		89
553			SETERH	MCW	@ERRORS@,PRINT&11	7		0945	M D40 211		89
554				C	PRINT&4,@ 1@	7		0952	C 204 D44		89
555				BU	*&8	5		0959	B 971 /		89
556				MCW	BLANK1,PRINT&11	7		0964	M D30 211		89
557				B	WTAPE	4		0971	B J24		89
558				BW	*&2,LSTOP	8		0975	V 984 C70 1		90
559				W		1		0983	2		90
560				CS	PRINT&11	4		0984	/ 211		90
561				B	TSTCOR	4		0988	B 900		90
562			*								
563			* CONDENSE		EX, END CARDS						
564			*								
565			NOCARD	C	WMLOC,AWMSTR	7		0992	C C75 C78		90
566				BE	TSTEND	5		0999	B '20 S		90
567				CW	NEWSW	4		1004	) G27		90
568			ENDRTM	BW	NOCARD,NEWSW	8		1008	V 992 G27 1		91
569				B	PUNCH	4		1016	B P62		91
570			TSTEND	BCE	EXCUTE,TYPE,C	8		1020	B '57 075 C		91
571				CS	PUNCH&71	4		1028	/ 171		91
572				MCW	HOLDH&7,PUNCH&46	7		1032	M D99 146		91

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
573				MCS	PUNCH&75,CARDNO	7		1039	Z 175 314		91
574				SBR	PNHXT&3,LSTCD	7		1046	H Q90 S11		92
575				B	TSTPCH	4		1053	B Q21		92
576			EXCUTE	MCE	WMSTR,PUNCH&71	7		1057	E D11 171		92
577				MCW	@N000000@,PUNCH&46	7		1064	M D51 146		92
578				MCW	HOLDH&4,PUNCH&71	7		1071	M D96 171		92
579				MCS	PUNCH&75,CARDNO	7		1078	Z 175 314		92
580				SBR	PNHXT&3,EXOUT	7		1085	H Q90 '96		93
581				B	TSTPCH	4		1092	B Q21		93
582			*								
583			* PUNCH		COMPATIBILITY CARDS						
584			*								
585			EXOUT	CS	PUNCH&71	4		1096	/ 171		93
586				B	READOG	4		1100	B B09		93
587				BSP	ORIGTP	5		1104	U %04 B		93
588				C	MNEMON-2,@JOB@	7		1109	C H48 D54		93
589				BU	*&8	5		1116	B /28 /		93
590				MCW	IMAGE&80,PUNCH&80	7		1121	M I10 180		94
591				MCW	WORD2,PUNCH&39	7		1128	M S88 139		94
592				LCA	WORD3,PUNCH&66	7		1135	L S99 166		94
593				MCW	PUNCH&66,PUNCH&50	7		1142	M 166 150		94
594				BCE	*&2,CONDSW,0	8		1149	B /58 C10 0		94
595				P		1		1157	4		94
596				B	WTAP2	4		1158	B ?43		95
597				CS	PUNCH&66	4		1162	/ 166		95
598				A	&1,PUNCH&75	7		1166	A D55 175		95
599				MCW	WORD4,PUNCH&21	7		1173	M T20 121		95
600				MCW	WORD5,PUNCH&71	7		1180	M T31 171		95
601				SBR	PNHXT&3,OUTEX	7		1187	H Q90 S26		95
602				BCE	*&2,CONDSW,0	8		1194	B S03 C10 0		96
603				P		1		1202	4		96
604				B	WTAP2	4		1203	B ?43		96
605				B	NEWCRD	4		1207	B Q34		96
606			LSTCD	CS	PUNCH&80	4		1211	/ 180		96
607				BCE	*&4,CONDSW,0	8		1215	B S26 C10 0		96
608				P		1		1223	4		96
609				SS	8	2		1224	K 8		97
610			OUTEX	B	CNDOUT&7	4		1226	B ?14		97
611			WORD1	DCW	@OBJECT CORE EXCEEDED@	20		1249			97
612			WORD2	DCW	@,015022)024056,029036,040047,0540611001@	39		1288			98
613			WORD3	DCW	@,001008B001@	11		1299			99
614			WORD4	DCW	@,068072)063067/061039@	21		1320			99
615			WORD5	DCW	@,0010011040@	11		1331			100
616			OV2GM	DCW	@)@	1		1332		GMARK	100
617			XFR		LIBRN				B 000		101

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
618				JOB	1401 AUTOCODER-PASS 7 LEFT MAIN LINE						
619			*								
620			*	READ	SECOND HALF OF MAIN PROGRAM						
621			*								
622				ORG	201				0201		
623			INIT2	RTW	SYSTAP,2000	8	0201	L	001 100 R		104
624				NOP	XXXX	4	0209	N	000		104
625				BER	TPERR	5	0213	B	334 L		104
626				RTW	XTRATP,SAVCON	8	0218	L	006 B98 R		104
627				NOP	XXXX	4	0226	N	000		104
628				BER	TPERR	5	0230	B	334 L		104
629				RWD	XTRATP	5	0235	U	006 R		104
630				CW	GMSAVE,WMSW#1	7	0240	)	C72 D56		105
631				CW	ENDEL,ENDE2	7	0247	)	Z94 H27		105
632				SW	GM,181	7	0254	,	333 181		105
633				SW	OVLGM	4	0261	,	U17		105
634				NTW	XTRATP,ISIOCS	8	0265	L	006 794 W		105
635				NOP	XXXX	4	0273	N	000		105
636				BER	TPERR	5	0277	B	334 L		106
637				RWD	XTRATP	5	0282	U	006 R		106
638				CW	OVLGM	4	0287	)	U17		106
639				ZA	&5,LINCT	7	0291	?	D57 F13		106
640				BCE	RESET,NOOUT,1	8	0298	B	543 C71 1		106
641				B	GET	4	0306	B	A24		106
642				B	SETUP	4	0310	B	595		106
643				DCW	@ @	1	0314				107
644			*								
645			*	MAIN LINE	PROGRAM						
646			*								
647				ORG	333				0333		
648			GM	DC	@}@	1	0333			GMARK	108
649			*								
650			*	TAPE	REDUNDANCY ROUTINE						
651			*								
652			TPERR	SBR	XR2	4	0334	H	094		108
653				SBR	REDXT&3	4	0338	H	406		108
654				MZ	PLUS9,XR2	7	0342	Y	538 094		108
655				MCW	4000-10&X2,TPINST&7	7	0349	M	IR0 397		108
656				MN	TPINST&3,BSP1&3	7	0356	D	393 373		109
657				MCW	TPINST&7,INST2&7	7	0363	M	397 506		109
658			BSP1	BSP	INITAP	5	0370	U	000 B		109
659				BCE	WRTRED,TPINST&7,W	8	0375	B	479 397 W		109
660				MCW	PLUS9,READCT	7	0383	M	538 540		109
661			TPINST	RT	INITAP,XXXX	8	0390	M	000 000 R		110
662				BER	RDRERR	5	0398	B	407 L		110
663				REDXT	E XXXX	4	0403	B	000		110
664			RDRERR	BN	TPINST&3,BSP2&3	7	0407	D	393 417		110
665			BSP2	BSP	INITAP	5	0414	U	000 B		110
666				S	PLUS1,READCT	7	0419	S	539 540		110
667				BWZ	TPINSTM,READCT,B	8	0426	V	390 540 B		111

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
668				MN	TPINST&3,TPHALT&6	7	0434	D	393 447		111
669			TPHALT	H	XXXX,790	7	0441	.	000 790		111
670				MCW	TPINST&7,*&8	7	0448	M	397 462		111
671				RT	INITAP,XXXX	8	0455	M	000 000 R		111
672				BSS	BSP1,E	5	0463	B	370 E		112
673				H	XXXX,712	7	0468	.	000 712		112
674				B	REDXT	4	0475	B	403		112
675			WRTRED	SKP	SYSTAP	5	0479	U	001 E		112
676				BCE	SUBCTR,WRTCTR-1,5	8	0484	B	516 541 5		112
677				A	PLUS1,WRTCTR	7	0492	A	539 542		112
678			INST2	WT	INITAP,XXXX	8	0499	M	000 000 W		113
679				BER	BSP1	5	0507	B	370 L		113
680				B	REDXT	4	0512	B	403		113
681			SUBCTR	S	WRTCTR	4	0516	S	542		113
682				MN	TPINST&3,*&7	7	0520	D	393 533		113
683				H	XXXX,760	7	0527	.	000 760		113
684				B	INST2	4	0534	B	499		113
685				PLUS9	DCW &9	1	0538				114
686				PLUS1	DCW &1	1	0539				114
687				READCT	DCW #1	1	0540				114
688				WRTCTR	DCW #2	2	0542				114
689			*								
690			*	GET	PASS F						
691			*								
692			RESET	LCA	SSAVE,201	7	0543	L	C68 201		114
693				LCA		1	0550	L			114
694				RT	SYSTAP,332	8	0551	M	001 332 R		114
695				CW	181,333	7	0559	)	181 333		115
696				RTW	SYSTAP,2000	8	0566	L	001 100 R		115
697				NOP	XXXX	4	0574	N	000		115
698				BER	TPERR	5	0578	B	334 L		115
699				MCW	201,2001	7	0583	M	201 101		115
700				MCW		1	0590	M			115
701				B	2002	4	0591	B	102		115
702			*								
703			*	BEGIN	MAIN LINE PROGRAM						
704			*								
705			SETUP	CS	PRINT&132	4	0595	/	332		116
706				CS		1	0599	/			116
707			GETORG	B	READOG	4	0600	B	B09		116
708			*								
709			*	DETERMINE	TYPE						
710			*								
711			ANALWK	SW	TYPE#1	4	0604	,	D58		116
712				MN	TYPE,TYPE#1	7	0608	D	075 D59		116
713				BCE	BYPASS,TYPE,#	8	0615	B	S85 075 #		116
714				BCE	BYPASS,TYPE,0	8	0623	B	S85 075 0		116
715				BCE	BYPASS,TYPE,I	8	0631	B	S85 075 I		117
716				BCE	BYPASS,TYPE,H	8	0639	B	S85 075 H		117
717				BCE	PROWRK,ALTER,	8	0647	B	881 080		117

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
718			ANALOG	BCE	SETCOM,LABEL-5,*	8	0655	B 072	H36 *		117
719				BCE	MAPCNT,IMAGE&75,R	8	0663	B 805	I05 R		118
720				BCE	ISIOCS,IMAGE&75,W	8	0671	B 794	I05 W		118
721				BCE	MAPCNT&7,IMAGE&75,S	8	0679	B 812	I05 S		118
722				BCE	MAPCNT&7,IMAGE&75,Z	8	0687	B 812	I05 Z		118
723				C	MNEMON-2,@JOB@	7	0695	C H48	D54		118
724				BE	DOJOB	5	0702	B 843	S		119
725				C	ALTER,ALTNO	7	0707	C 080	I14		119
726				BU	SEQERR	5	0714	B 783	/		119
727				B	SETFRE	4	0719	B T01			119
728				CW	TYPESW	4	0723	) D58			119
729				BCE	INSTR,TYPE,	8	0727	B V43	075		119
730				MN	TYPE,XR2	7	0735	D 075	094		120
731				A	XR2	4	0742	A 094			120
732				A	XR2	4	0746	A 094			120
733				B	*&l&lX2	4	0750	B 7N4			120
734				B	DA	4	0754	B W52			120
735				B	CONST	4	0758	B '62			120
736				B	DSA	4	0762	B 969			120
737				B	GETOV2	4	0766	B 794			121
738				B	SFX	4	0770	B L43			121
739				B	TYPERR	4	0774	B S78			121
740				B	ORG	4	0778	B K12			121
741				B	DS	4	0782	B K85			121
742				B	TYPERR	4	0786	B S78			121
743				B	TYPERR	4	0790	B S78			121
744				*							
745				*	MACRO CARD						
746				*							
747			ISIOCS	MCW	@IOCS@,KIND-1	7	0794	M D63	308		122
748				B	MAPCNT&7	4	0801	B 812			122
749			MAPCNT	MCW	@MACRO@,KIND	7	0805	M D68	309		122
750				B	SETFRE	4	0812	B T01			122
751				BCE	CALERR,IMAGE&86,7	8	0816	B 828	I16 7		122
752				B	COMXT	4	0824	B J85			122
753			CALERR	MCW	@OVERCALL@,PRINT&123	7	0828	M D76	323		123
754				B	BMPERR	4	0835	B L28			123
755				B	COMXT	4	0839	B J85			123
756				*							
757				*	NEW JOB CARD						
758				*							
759			DOJOB	MCW	OPERND,JOB	7	0843	M I02	C62		123
760				BW	DOIDT,NEWSW	8	0850	V 862	G27 1		123
761				B	PNCHCD	4	0858	B P62			123
762			DOIDT	MCW	IMAGE&80,PUNCH&80	7	0862	M I10	180		124
763				S	LINCT	4	0869	S F13			124
764				B	PRTHDG	4	0873	B I00			124
765				B	MAPCNT&7	4	0877	B 812			124
766				*							
767				*	PROGRAM GENERATED RECORD						

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
768			*								
769			PROWRK	BCE	XTRA,TYPE,Y	8	0881	B 924	075 Y		124
770				CW	OP&1	4	0889	) 068			124
771				MCS	AOP,PRINT&11	7	0893	Z 070	211		124
772				SW	OP&1	4	0900	, 068			125
773				BCE	ADCON,TYPE,S	8	0904	B 944	075 S		125
774				BCE	LITRAL,TYPEA,1	8	0912	B 999	D59 1		125
775				B	TYPERR	4	0920	B S78			125
776				*							
777				*	LITERAL GREATER THAN 30 CHARACTERS						
778				*							
779			XTRA	SW	PRINT&27	4	0924	, 227			125
780				MCW	FIXFRM&72,OPRAND	7	0928	M 072	278		125
781				CHAIN	5					MACRO	
782				MCW		1	0935	M		GEN	125
783				MCW		1	0936	M		GEN	126
784				MCW		1	0937	M		GEN	126
785				MCW		1	0938	M		GEN	126
786				MCW		1	0939	M		GEN	126
787				B	BYPASS	4	0940	B S85			126
788				*							
789				*	ADCON CARD						
790				*							
791			ADCON	MCW	@ADCON@,KIND	7	0944	M D81	309		126
792				SW	PRINT&27	4	0951	, 227			126
793				MCW	FIXFRM&53,PRINT&40	7	0955	M 053	240		127
794				MCW	FIXFRM&16,OPCODE-2	7	0962	M 016	223		127
795			DSA	MCW	BOP,PRINT&95	7	0969	M 073	295		127
796				MCW	BOP,HOLDH&3	7	0976	M 073	D95		127
797				B	SETADD	4	0983	B S45			127
798				BCE	SYMUND,BOP,#	8	0987	B L09	073 #		128
799				B	SETLIT	4	0995	B /56			128
800				*							
801				*	LITERAL AND AREA DEFINITION CARDS						
802				*							
803			LITRAL	BWZ	PROLIT,TYPE,S	8	0999	V '41	075 S		128
804				BWZ	DADC,FIXFRM&1,B	8	1007	V S28	001 B		128
805				MCW	@RMARK@,KIND	7	1015	M D86	309		128
806				BCE	PROLIT&7,TYPE,A	8	1022	B '48	075 A		129
807				MCW	@G@,KIND-4	7	1030	M D87	305		129
808				B	PROLIT&7	4	1037	B '48			129
809			PROLIT	MCW	@LIT@,KIND-2	7	1041	M D90	307		129
810				MCW	FIXFRM&53,PRINT&57	7	1048	M 053	257		129
811				MCW	FIXFRM&16,OPCODE-2	7	1055	M 016	223		130
812			CONST	B	SETADD	4	1062	B S45			130
813				A	@00@,COUNT	7	1066	A D92	007		130
814				C	COUNT,@00@	7	1073	C 007	D92		130
815				BL	GOOD	5	1080	B '96	T		130
816				MZ	ZONE-1,STSTMT	7	1085	Y 188	005		130
817				B	SETLIT	4	1092	B /56			131



SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
818			GOOD	BCE	AREADF,PRINT&27,#		8	1096	B /83 227 #		131
819				BWZ	AREADF,FXFRM&4,B		8	1104	V /83 004 B		131
820				MCW	OPRAND,HOLDT-1		7	1112	M 278 E43		131
821				BCE	SETLIT,PRINT&27,@		8	1119	B /56 227 @		131
822				BWZ	UNSIGN,PRINT&27,2		8	1127	V /72 227 2		132
823				MCW	COUNT,XR1		7	1135	M 007 089		132
824				MZ	BLANK4,PRINT&27&X1		7	1142	Y D33 287		132
825				MZ	PRINT&27,HOLDH&X1		7	1149	Y 227 DZ2		132
826			SETLIT	B	SETLOC		4	1156	B U18		132
827				B	CONDNS		4	1160	B L54		132
828			LITOUT	B	PRNTLN		4	1164	B Y54		133
829				B	BYPASS		4	1168	B S85		133
830			UNSIGN	MCW	OPRAND,HOLDT#52		7	1172	M 278 E44		133
831				B	SETLIT		4	1179	B /56		133
832			AREADF	BW	*&5,TYPE\$W		8	1183	V /95 D58 1		133
833				B	SETLIT		4	1191	B /56		133
834				MCW	FXFRM&13,LAB		7	1195	M 013 219		133
835				MCW	BLANK4-2,PRINT&31		7	1202	M D31 231		134
836				MCW	COUNT		4	1209	M 007		134
837				MCW	@#		4	1213	M E45		134
838				MCW	@AREA@,KIND-1		7	1217	M E49 308		134
839				B	SETLIT		4	1224	B /56		134
840			DADC	B	SETADD		4	1228	B S45		134
841				B	CONDNS		4	1232	B L54		134
842				CS	PRINT&132		4	1236	/ 332		135
843				CS			1	1240	/		135
844				B	BYPASS		4	1241	B S85		135
845			*								
846			*		SET CONDENSE ADDRESSES FOR CONSTANTS						
847			*								
848			SETADD	SBR	ADDXT&3		4	1245	H S77		135
849				ZA	LABADD,LOADAD		7	1249	? 061 E83		135
850				MCW	LOADAD		4	1256	M E83		135
851				S	COUNT,WMADDR		7	1260	S 007 E78		135
852				A	&1,WMADDR		7	1267	A D55 E78		136
853			ADDXT	B	XXXX		4	1274	B 000		136
854			*								
855			*		GET NEXT RECORDS						
856			*								
857			TYPERR	H	XXXX,770		7	1278	. 000 770		136
858			BYPASS	B	GET		4	1285	B A24		136
859				BW	ANALWK,TYPE\$W		8	1289	V 604 D58 1		136
860				B	GETORG		4	1297	B 600		136
861			*								
862			*		FREE FORM RECORD TO PRINT AREA						
863			*								
864			SETFRE	SBR	FREEXT&3		4	1301	H T89		136
865				MCS	ALINO,ALT		7	1305	Z I14 204		137
866				MCS	PAGENO,PG		7	1312	Z H32 207		137
867				MZ	PAGENO,PG		7	1319	Y H32 207		137

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
868				MCW	LINENO,LIN		7	1326	M H35 211		137
869				MCW	LABEL,LAB		7	1333	M H41 219		137
870				MCW	MNEMON,OPCODE		7	1340	M H50 225		138
871				MCW	OPERND,OPRAND		7	1347	M I02 278		138
872				BCE	IOGEN,IMAGE&75,Z		8	1354	B T90 I05 Z		138
873				BCE	IOGEN,IMAGE&75,Y		8	1362	B T90 I05 Y		138
874				BCE	GENSTM,IMAGE&75,C		8	1370	B T97 I05 C		138
875				BCE	GENSTM,IMAGE&75,S		8	1378	B T97 I05 S		139
876			FREEXT	B	XXXX		4	1386	B 000		139
877			IOGEN	MCW	@IO@,KIND		7	1390	M E51 309		139
878			GENSTM	MCW	@GEN@,KIND-2		7	1397	M E54 307		139
879				BCE	COMERR,IMAGE&86,B		8	1404	B J97 I16 B		139
880				B	FREEXT		4	1412	B T86		139
881				DCW	@ @		1	1416	B T86		139
882			OVIGM	DC	@}@		1	1417		GMARK	140
883			*								
884			*		ASSEMBLED INFORMATION TO PRINT AREA						
885			*								
886			SETLOC	SBR	LOCXT&3		4	1418	H V01		140
887				MCS	COUNT,CT		7	1422	Z 007 284		140
888				MCW	SFXCTR,SUFFIX		7	1429	M G18 280		140
889				MN	LABADD,LOCN		7	1436	D 061 290		140
890				MCW			1	1443	M		141
891				BWZ	TSTFR,LABADD-1,2		8	1444	V U66 060 2		141
892				MCW	@X@,PRINT&92		7	1452	M E55 292		141
893				MZ	BLANK1,PRINT&89		7	1459	Y D30 289		141
894			TSTFR	BCE	FOURCH,LABADD-4,0		8	1466	B V02 057 0		141
895			TSTLBL	BM	DBLDEF,STLABL		8	1474	V V13 002 K		141
896			TSTSTM	BM	STMBAD,STSTMT		8	1482	V V28 005 K		142
897				BWZ	STMBAD,STSTMT,S		8	1490	V V28 005 S		142
898			LOCKT	B	XXXX		4	1498	B 000		142
899			FOURCH	MCW	BLANK1,LOCN-4		7	1502	M D30 286		142
900				B	TSTLBL		4	1509	B U74		142
901			DBLDEF	MCW	@LABEL@,PRINT&120		7	1513	M E60 320		142
902				B	BMPERR		4	1520	B L28		143
903				B	TSTSTM		4	1524	B U82		143
904			STMBAD	MCW	@BAD STATEMENT@,PRINT&128		7	1528	M E73 328		143
905				B	BMPERR		4	1535	B L28		143
906				B	LOCKT		4	1539	B U98		143
907			*								
908			*		INSTRUCTION CARD						
909			*								
910			INSTR	MCW	DMOD,INDMOD		7	1543	M 074 303		143
911				MCW	BOP,INBOP		7	1550	M 073 301		143
912				MCW	AOP,INAOP		7	1557	M 070 297		144
913				MCW	OP,INOP		7	1564	M 067 293		144
914				MCW	DMOD,HOLDH&8		7	1571	M 074 E00		144
915				MCW			1	1578	M		144
916				MCW			1	1579	M		144
917				MCW			1	1580	M		144

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
918			MCW		LABADD,WMADDR#5	7	1581	M 061	E78		144
919			MCW		LABADD,LOADAD#5	7	1588	M 061	E83		145
920			A		COUNT,LOADAD	7	1595	A 007	E83		145
921			S		&1,LOADAD	7	1602	S D55	E83		145
922			BCE		SYMUND,BOP,#	8	1609	B L09 073	#		145
923			BCE		SYMUND,AOP,#	8	1617	B L09 070	#		145
924			BCE		BADOP,OP,	8	1625	B W37	067		146
925			B		SETLIT	4	1633	B /56			146
926			BADOP	MCW	@ OP@,PRINT&123	7	1637	M E86	323		146
927			B		BMPERR	4	1644	B L28			146
928			B		SETLIT	4	1648	B /56			146
929			*								
930			*		DEFINE AREA CARDS						
931			*								
932			DA	BCE	HEADER,TYPE,0	8	1652	B X41 075	0		146
933			MCW		SUPADD,WMADDR	7	1660	M 066	E78		147
934			MCW		@FIELD@,KIND	7	1667	M E91	309		147
935			BWZ		SETDA,TYPE,B	8	1674	V W93 075	B		147
936			MCW		@SBF@,KIND-2	7	1682	M E94	307		147
937			B		ORGBT	4	1689	B K62			147
938			SETDA	B	SETLOC	4	1693	B U18			147
939			B		CONDNS	4	1697	B L54			148
940			B		FRNTLN	4	1701	B Y54			148
941			BYPDA	B	GET	4	1705	B A24			148
942			BCE		RPTOUT,TYPE,'	8	1709	B X21 075	'		148
943			B		GETORG	4	1717	B 600			148
944			RPTOUT	MCW	SUPADD,WMADDR	7	1721	M 066	E78		148
945			B		CONDNS	4	1728	B L54			148
946			CS		PRINT&132	4	1732	/ 332			149
947			CS			1	1736	/			149
948			B		BYPDA	4	1737	B X05			149
949			HEADER	BWZ	BADDA,FIXFRM&4,B	8	1741	V Y24 004	B		149
950			B		SETLOC	4	1749	B U18			149
951			NXTRPT	MN	SUPADD,PRINT&97	7	1753	D 066	297		149
952			MCW			1	1760	M			149
953			MCW		LABADD,WMADDR	7	1761	M 061	E78		150
954			B		CONDNS	4	1768	B L54			150
955			B		GET	4	1772	B A24			150
956			C		FIXFRM&16,@DA @	7	1776	C 016	E97		150
957			BU		PNTDA	5	1783	B X96 /			150
958			BCE		NXTRPT,TYPE,'	8	1788	B X53 075	'		150
959			PNTDA	BCE	ADDR4K,PRINT&93,0	8	1796	B Y39 293	0		151
960			C		PRINT&97,OBJCOR	7	1804	C 297	C09		151
961			BL		PUDSW	5	1811	B K97	T		151
962			B		FRNTLN	4	1816	B Y54			151
963			B		GETORG	4	1820	B 600			151
964			BADDA	MCW	@ NO B X L@,PRINT&129	7	1824	M F06	329		151
965			B		BMPERR	4	1831	B L28			151
966			B		HEADER&8	4	1835	B X49			152
967			ADDR4K	SBR	AD4KXT&3	4	1839	H Y53			152

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
968			MCW		BLANK1,PRINT&93	7	1843	M D30	293		152
969			AD4KXT	B	XXXX	4	1850	B 000			152
970			*								
971			*		PRINT STATEMENTS						
972			*								
973			PRNTLN	SBR	PRNTXT&3	4	1854	H Z50			152
974			BCE		DOPNT,LOCN,	8	1858	B Y86	290		152
975			BCE		DOPNT,TYPEA,7	8	1866	B Y86	D59 7		152
976			C		LOCN,@ 0081@	7	1874	C 290	F11		153
977			BH		ADDERR	5	1881	B J57	U		153
978			DOPNT	BW	*&2,LSTOP	8	1886	V Y95	C70 1		153
979			W			1	1894	Z			153
980			B		WTAPE	4	1895	B J24			153
981			BCE		CLR,TYPEA,7	8	1899	B Z19	D59 7		153
982			C		LOCN,OBJCOR	7	1907	C 290	C09		154
983			BL		PUDSW	5	1914	B K97	T		154
984			CLR	CS	PRINT&132	4	1919	/ 332			154
985			CS			1	1923	/			154
986			BCE		PRNTXT,TYPE,3	8	1924	B Z47	075 3		154
987			A		&1,LINCT#2	7	1932	A D55	F13		154
988			BCE		OVRFLO,LINCT-1,5	8	1939	B Z51	F12 5		155
989			PRNTXT	B	XXXX	4	1947	B 000			155
990			OVRFLO	B	PRTHDG	4	1951	B 100			155
991			S		LINCT	4	1955	S F13			155
992			B		PRNTXT	4	1959	B Z47			155
993			GETOVL	RTW	XTRATP,ISIOCS	8	1963	L \$U6	794 R		155
994			NOP		XXXX	4	1971	N 000			155
995			BER		TPERR	5	1975	B 334	L		156
996			CW		OVLGM	4	1980	) U17			156
997			RWD		XTRATP	5	1984	U \$U6	R		156
998			B		BYPASS	4	1989	B S85			156
999			DCW		@ @	1	1993				156
1000			ENDEL	DCW	@}@	1	1994			GMARK	156
1001			XFR		LIBRN			B 000			157

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1002			JOB		1401 AUTOCODER-PASS 7 RIGHT MAIN LINE						
1003			ORG		2000				2000		
1004			*								
1005			*		PRINT PAGE HEADING						
1006			*								
1007			PRTHDG	SBR	PHDGXT&3		4	2000	H J23		160
1008			MCW		@PAGE@,PRINT&109		7	2004	M F17 309		160
1009			A		&1,NUMBER		7	2011	A D55 C84		160
1010			MCS		NUMBER,PRINT&114		7	2018	Z D84 314		160
1011			MCW		JOB,OPRAND		7	2025	M C62 278		160
1012			MCW		PUNCH&80,LOCN		7	2032	M 180 290		160
1013			BW		WTHDAD,LSTOP		8	2039	V 152 C70 1		161
1014			CC		1		2	2047	F 1		161
1015			W				1	2049	2		161
1016			CC		K		2	2050	F K		161
1017			WTHDAD	MCW	@1@,200		7	2052	M D29 200		161
1018			B		WTAPE		4	2059	B J24		161
1019			CS		PRINT&132		4	2063	/ 332		161
1020			CS				1	2067	/		162
1021			MCW		@SFX CT LOCN INSTRUCTION TYPE CARD@,PRINT&114		7	2068	M F53 314		162
1022			MCW		@SEQ PG LIN LABEL OP OPERANDS@,PRINT&34		7	2075	M F86 234		162
1023			BW		*&2,LSTOP		8	2082	V 191 C70 1		162
1024			W				1	2090	2		162
1025			MCW		@0@,200		7	2091	M F87 200		162
1026			B		WTAPE		4	2098	B J24		162
1027			CS		PRINT&132		4	2102	/ 332		163
1028			CS				1	2106	/		163
1029			BW		*&2,LSTOP		8	2107	V J16 C70 1		163
1030			W				1	2115	2		163
1031			B		WTAPE		4	2116	B J24		163
1032			PHDGXT	B	XXXX		4	2120	B 000		163
1033			WTAPE	SBR	WTXT&3		4	2124	H J56		163
1034			BW		WTXT,TAPOP		8	2128	V J53 C69 1		164
1035			WT		3,200		8	2136	M #U3 200 W		164
1036			NOP		XXXX		4	2144	N 000		164
1037			BER		TPERR		5	2148	B 334 L		164
1038			WTXT	B	XXXX		4	2153	B 000		164
1039			ADDERR	MCW	@ ADDR@,PRINT&132		7	2157	M F92 332		164
1040			B		BMPERR		4	2164	B L28		165
1041			B		DOPNT		4	2168	B Y86		165
1042			*								
1043			*		COMMENTS CARD						
1044			*								
1045			SETCOM	B	SETFRE		4	2172	B T01		165
1046			MCW		OPERAND,PRINT&80		7	2176	M I02 280		165
1047			MCW				1	2183	M		165
1048			MCW				1	2184	M		165
1049			COMXT	B	PRNTLN		4	2185	B Y54		165
1050			B		READOG		4	2189	B B09		166
1051			B		ANALOG		4	2193	B 655		166

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1052			COMERR	MCW	@MACRO ERROR@,PRINT&126		7	2197	M G03 326		166
1053			B		BMPERR		4	2204	B L28		166
1054			B		FREEXT		4	2208	B T86		166
1055			*								
1056			*		ORG, LTORG CARDS						
1057			*								
1058			ORG	MCW	SUPADD,LABADD		7	2212	M 066 061		166
1059			MCW		ORGADD,SUPADD		7	2219	M 032 066		166
1060			BWZ		BADORG, FIXFRM&1,2		8	2226	V K70 001 2		167
1061			ORGOUT	MN	SUPADD,PRINT&97		7	2234	D 066 297		167
1062			MCW				1	2241	M		167
1063			BCE		ADDR4K,PRINT&93,0		8	2242	B Y39 293 0		167
1064			C		PRINT&97,OBJCOR		7	2250	C 297 C09		167
1065			BL		PUADSW		5	2257	B K97 T		167
1066			ORGXT	B	SETLOC		4	2262	B I18		168
1067			B		LITOUT		4	2266	B /64		168
1068			BADORG	MCW	@ UNDEF ORG@,PRINT&130		7	2270	M G13 330		168
1069			B		BMPERR		4	2277	B L28		168
1070			B		ORGOUT		4	2281	B K34		168
1071			*								
1072			*		DS, EQU CARDS						
1073			*								
1074			DS	BCE	SYMUND,AOP,#		8	2285	B L09 070 #		168
1075			B		ORGXT		4	2293	B K62		168
1076			*								
1077			*		ERROR - ADDRESS EXCEEDS CORE						
1078			*								
1079			PUADSW	SBR	ADSWXT&3		4	2297	H L08		169
1080			CW		ADDRSW		4	2301	) D34		169
1081			ADSWXT	B	XXXX		4	2305	B 000		169
1082			*								
1083			*		ERROR - UNDEFINED SYMBOL						
1084			*								
1085			SYMUND	SBR	UNDXT&3		4	2309	H L27		169
1086			MCW		@ SYM@,PRINT&127		7	2313	M G17 327		169
1087			B		BMPERR		4	2320	B L28		169
1088			UNDXT	B	XXXX		4	2324	B 000		169
1089			*								
1090			*		BUMP NUMBER OF ERRORS						
1091			*								
1092			BMPERR	SBR	ERREXT&3		4	2328	H L42		170
1093			A		&1,ERRCNT		7	2332	A D55 C66		170
1094			ERREXT	B	XXXX		4	2339	B 000		170
1095			*								
1096			*		SUFFIX CARD						
1097			*								
1098			SFX	MCW	IMAGE&21,SFXCTR#1		7	2343	M H51 G18		170
1099			B		LITOUT		4	2350	B /64		170
1100			*								
1101			*		CONDENSE ROUTINE						

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1102			*								
1103			CONDNS	SBR	CONDXT&3	4	2354	H	?42		170
1104				CW	BIGSW,DCSW	7	2358	)	H17 G48		170
1105				BM	CONDXT,STSTMT	8	2365	V	?39 005 K		171
1106				BW	PNCHCD,WMSW	8	2373	V	P62 D56 1		171
1107			*								
1108			*		PROCESS RECORD						
1109			*								
1110			NXTRCD	BCE	DOWM,TYPEA,0	8	2381	B	N39 D59 0		171
1111				BCE	ENDRTN,TYPEA,3	8	2389	B	?08 D59 3		171
1112				BWZ	?STDC,TYPE,B	8	2397	V	O17 075 B		172
1113			*								
1114			*		TEST ROOM ON CARD						
1115			*								
1116			TSTROM	C	COUNT,@39@	7	2405	C	O07 G20		172
1117				BL	TSTCON	5	2412	B	O91 T		172
1118				MCW	PNHLOC,ROOMCT#3	7	2417	M	C81 G23		172
1119				A	COUNT,ROOMCT	7	2424	A	O07 G23		172
1120				C	ROOMCT,@039@	7	2431	C	G23 G26		173
1121				BL	SETPNH	5	2438	B	O09 T		173
1122				BW	RSTCTR,NEWSW#1	8	2443	V	N98 G27 1		173
1123			*								
1124			*		TEST SEQUENCE						
1125			*								
1126				MCW	COUNTR#5,SEQCT#5	7	2451	M	G32 G37		173
1127				A	COUNT,SEQCT	7	2458	A	O07 G37		173
1128				C	LOADAD,SEQCT	7	2465	C	E83 G37		174
1129				BU	SETPNH	5	2472	B	O09 /		174
1130				A	COUNT,COUNTR	7	2477	A	O07 G32		174
1131			*								
1132			*		MOVE DATA TO PUNCH AREA						
1133			*								
1134			MVDATA	SBR	XR3,HOLDH	7	2484	H	O99 D92		174
1135				A	COUNT,XR3	7	2491	A	O07 O99		174
1136				A	COUNT,PNHLOC	7	2498	A	O07 C81		175
1137				MCW	PNHLOC,XR2	7	2505	M	C81 O94		175
1138				MCW	XXXX&X3,PUNCH&X2	7	2512	M	O?0 110		175
1139				CW	DATASW#1	4	2519	)	G38		175
1140				BW	FIRST,NEWSW	8	2523	V	O53 G27 1		175
1141				BWZ	CNDOUT,TYPE,B	8	2531	V	?07 075 B		176
1142			*								
1143			*		SET WORD MARK ADDRESS						
1144			*								
1145			DOWM	MCW	WMADDR,CNVADD#5	7	2539	M	E78 G43		176
1146				B	CNVRT	4	2546	B	P16		176
1147				A	&3,WMLOC	7	2550	A	G44 C75		176
1148				MCW	WMLOC,XR1	7	2557	M	C75 O89		176
1149				MCW	CNVADD,WMADDR-2	7	2564	M	G43 E76		177
1150				MCW	WMADDR-2,XXXX&X1	7	2571	M	E76 O?0		177
1151				C	XR1,&WMSTR-3	7	2578	C	O89 G47		177

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1152				BU	CNDOUT	5	2585	B	?07 /		177
1153				SW	WMSW	4	2590	,	D56		177
1154				B	CNDOUT	4	2594	B	?07		177
1155			RSTCTR	MCW	LOADAD,COUNTR	7	2598	M	E83 G32		178
1156				B	MVDATA	4	2605	B	M84		178
1157				SETPNH	B	PNCHCD	4	2609	B	P62	178
1158				B	NXTRCD	4	2613	B	L81		178
1159				TSTDC	BW	COMPWM,NEWSW	8	2617	V	O29 G27 1	178
1160				B	TSTROM	4	2625	B	M05		178
1161				COMPWM	C	WMLOC,AWMSTR	7	2629	C	C75 C78	178
1162				BE	TSTROM	5	2636	B	M05 S		179
1163				SW	DCSW#1	4	2641	,	G48		179
1164				B	PNCHCD	4	2645	B	P62		179
1165				B	TSTROM	4	2649	B	M05		179
1166			*								
1167			*		FIRST DATA ON CARD						
1168			*								
1169				FIRST	CW	NEWSW	4	2653	)	G27	179
1170				BWZ	PRODC,TYPE,B	8	2657	V	O69 075 B		179
1171				B	CNDOUT	4	2665	B	?07		179
1172			*								
1173			*		CONDENSE DC CARDS						
1174			*								
1175				PRODC	MCW	@)@,PUNCH&47	7	2669	M	G49 147	180
1176					MCW	WMADDR,CNVADD	7	2676	M	E78 G43	180
1177					B	CNVRT	4	2683	B	P16	180
1178					MCW	CNVADD,WMADDR-2	7	2687	M	G43 E76	180
1179					MCW	WMADDR-2,WMSTR-15	7	2694	M	E76 C96	180
1180					MCW	WMADDR-2	4	2701	M	E76	180
1181					A	&6,WMLOC	7	2705	A	G50 C75	181
1182					B	CNDOUT	4	2712	B	?07	181
1183			*								
1184			*		CONVERT 5 TO 3 DIGIT ADDRESS						
1185			*								
1186				CNVRT	SBR	CNVXT&3	4	2716	H	P61	181
1187				BAV		*&1	5	2720	B	P25 Z	181
1188				ADDAGN	A	&96,CNVADD-3	7	2725	A	G52 G40	181
1189				BAV		ADDAGN	5	2732	B	P25 Z	181
1190					MZ	CNVADD-4,CNVADD	7	2737	Y	G39 G43	181
1191					MN	CNVADD-3,*&4	7	2744	D	G40 P54	182
1192					MZ	ZONE,CNVADD-2	7	2751	Y	189 G41	182
1193				CNVXT	B	XXXX	4	2758	B	000	182
1194			*								
1195			*		PUNCH A CARD						
1196			*								
1197				PNCHCD	SBR	PNHXT&3	4	2762	H	Q90	182
1198					BW	EDLT,DCSW	8	2766	V	O07 G48 1	182
1199					BW	EDLT,DATASW	8	2774	V	O07 G38 1	182
1200					MCW	COUNTR,CNVADD	7	2782	M	G32 G43	183
1201					B	CNVRT	4	2789	B	P16	183



SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1302			*	READ	ORIGINAL TAPE						
1303			*								
1304			READOG	SBR	ORIGXT&3	4		3209	H B58		196
1305				MCW	BLANK1,IMAGE&21	7		3213	M D30 H51		196
1306				S	IMAGE&20	4		3220	S H50		196
1307				S		1		3224	S		197
1308				S		1		3225	S		197
1309				S		1		3226	S		197
1310				SBR	LGTC&6,INPUT4&12	7		3227	H B80 H43		197
1311				RT	ORIGTP,INPUT4	8		3234	M %U4 H31 R		197
1312				B	CHKLGT	4		3242	B B59		197
1313				BER	TFERR	5		3246	B 334 L		197
1314				S	XR2&1	4		3251	S 095		198
1315				ORIGXT	B XXXX	4		3255	B 000		198
1316			*								
1317			*	CHECK FOR	SHORT RECORDS						
1318			*								
1319			CHKLGT	SBR	XR2	4		3259	H 094		198
1320				SBR	LGTX&3	4		3263	H B97		198
1321				MZ	@B@,XR2	7		3267	Y D12 094		198
1322				LGTC	BCE 4000-12&X2,XXXX,}	8		3274	B IQ8 000 }	GMARK	198
1323				CHAIN	12					MACRO	
1324				BCE		1		3282	B	GEN	198
1325				BCE		1		3283	B	GEN	199
1326				BCE		1		3284	B	GEN	199
1327				BCE		1		3285	B	GEN	199
1328				BCE		1		3286	B	GEN	199
1329				BCE		1		3287	B	GEN	199
1330				BCE		1		3288	B	GEN	199
1331				BCE		1		3289	B	GEN	199
1332				BCE		1		3290	B	GEN	200
1333				BCE		1		3291	B	GEN	200
1334				BCE		1		3292	B	GEN	200
1335				BCE		1		3293	B	GEN	200
1336				LGTX	B XXXX	4		3294	B 000		200
1337				HOLDA	DCW &0000	4		3301			200
1338				BLKCT	EQU HOLDA-1			3300			
1339				KBLKNG	DCW @080@	3		3304			200
1340				OBJCOR	DCW @ 3999@	5		3309			201
1341				CONDNS	DCW @0@	1		3310			201
1342				JOB	DCW #52	52		3362			203
1343				ERRCNT	DCW @0000@	4		3366			203
1344					DCW @ @	1		3367			203
1345				SSAVE	DCW @ @	1		3368			203
1346				TAFOP	DCW @ @	1		3369			203
1347				LSTOP	DCW @ @	1		3370			204
1348				NOOUT	DCW @ @	1		3371			204
1349				SAVCON	EQU HOLDA-3			3298			
1350				QMSAVE	DC @j@	1		3372		GMARK	204
1351				WMLOC	DSA WMSTR-21	3		3375	C90		204

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1352			AWMSTR	DSA	WMSTR-21	3		3378	C90		204
1353			PNHLLOC	DCW	@000@	3		3381			204
1354			NUMBER	DCW	@001@	3		3384			204
1355			WMSTR	DCW	@001001040040040040040040040040@	27		3411			205
1356				LTORG	*				3412		
				DCW	@B@	1		3412		LIT	205
				DCW	@/ 080@	9		3421		LIT	205
				DCW	@/ 080@	7		3428		LIT	206
				DCW	@1@	1		3429		LIT	206
			BLANK4	DCW	#04	4		3433		AREA	206
			ADDRSW	DCW	#01	1		3434		AREA	206
				DCW	@ERRORS@	6		3440		LIT	206
				DCW	@ 1@	4		3444		LIT	206
				DCW	@N000000@	7		3451		LIT	206
				DCW	@JOB@	3		3454		LIT	207
				DCW	z1	1		3455		LIT	207
			WMSW	DCW	#01	1		3456		AREA	207
				DCW	z5	1		3457		LIT	207
			TYPE\$W	DCW	#01	1		3458		AREA	207
			TYPEA	DCW	#01	1		3459		AREA	207
				DCW	@IOCS@	4		3463		LIT	207
				DCW	@MACRO@	5		3468		LIT	208
				DCW	@OVERCALL@	8		3476		LIT	208
				DCW	@ADCON@	5		3481		LIT	208
				DCW	@RMARK@	5		3486		LIT	208
				DCW	@G@	1		3487		LIT	208
				DCW	@LIT@	3		3490		LIT	208
				DCW	@00@	2		3492		LIT	208
			HOLDDT	DCW	#52	52		3544		AREA	210
				DCW	@#@	1		3545		LIT	210
				DCW	@AREA@	4		3549		LIT	210
				DCW	@IO@	2		3551		LIT	210
				DCW	@GEN@	3		3554		LIT	210
				DCW	@X@	1		3555		LIT	211
				DCW	@LABEL@	5		3560		LIT	211
				DCW	@BAD STATEMENT@	13		3573		LIT	211
			WMADDR	DCW	#05	5		3578		AREA	211
			LOADAD	DCW	#05	5		3583		AREA	211
				DCW	@ OP@	3		3586		LIT	211
				DCW	@FIELD@	5		3591		LIT	211
				DCW	@SBF@	3		3594		LIT	212
				DCW	@DA @	3		3597		LIT	212
				DCW	@ NO B X L@	9		3606		LIT	212
				DCW	@ 0081@	5		3611		LIT	212
			LINCT	DCW	#02	2		3613		AREA	212
				DCW	@PAGE@	4		3617		LIT	212
				DCW	@SFX CT LOCN INSTRUCTION TYPE CARD@	36		3653		LIT	213
				DCW	@SEQ PG LIN LABEL OP OPERANDS@	33		3686		LIT	214
				DCW	@0@	1		3687		LIT	214
				DCW	@ ADDR@	5		3692		LIT	214

