

CLEAR STORAGE 1 ,008015,022026,030037,044,049,053053N000000N00001026 1
 CLEAR STORAGE 2 L068116,105106,110117B101/I9I#071029C029056B026/B001/0991,001/001117I0& 2
 BOOTSTRAP ,008015,022029,036040,047054,061068,072/061039 ,0010011040 3

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SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
101		000	JOB		1401 AUTOCODER-PASS 8 LOAD TAPE-RIGHT MAIN-VERSION 3						
102			CTL		630 1						
103			*								
104			*		EQUATES USED BY PROGRAM						
105											
106			INITAP	EQU	%U0			%U0			
107			INTAPE	EQU	%U5			%U5			
108			OUTAPE	EQU	%U6			%U6			
109			PUNCH	EQU	100			0100			
110			OUTPUT	EQU	PUNCH&1			0101			
111			IMAGE	EQU	0			0000			
112			XXXX	EQU	0			0000			
113			COUNT	EQU	IMAGE&7			0007			
114			LABADD	EQU	IMAGE&61			0061			
115			SUPADD	EQU	IMAGE&66			0066			
116			AGP	EQU	IMAGE&70			0070			
117			BOP	EQU	IMAGE&73			0073			
118			DMOD	EQU	IMAGE&74			0074			
119			TYPE	EQU	IMAGE&75			0075			
120			PRINT	EQU	200			0200			
121			LIBRN	EQU	0			0000			
122			ORG		87				0087		
123			XR1	DCW	000	3	0089				4
124				DC	00	2	0091				4
125			XR2	DCW	000	3	0094				4
126				DC	00	2	0096				4
127			XR3	DCW	000	3	0099				4
128				DC	00	2	0101				4
129			*								
130			*		INITIALIZATION ROUTINE						
131			*								
132			ORG		336				0336		
133			ZONE	DCW	@2SKB@	4	0339				5
134			INITLZ	RWD	OUTAPE	5	0340	U %U6 R			5
135				C	OUTOPN,@2@	7	0345	C 100 P07			5
136			BH		ENDJOB	5	0352	B 155 U			5
137				C	OUTOPN,@7@	7	0357	C 100 P08			5
138			BL		ENDJOB	5	0364	B 155 T			5
139				RWD	4	5	0369	U %U4 R			5
140				RWD	INTAPE	5	0374	U %U5 R			6
141				CW	LTAPSW,PNH4SW	7	0379	) P25 P26			6
142				MCW	SSOP,TSTSS	7	0386	M 101 475			6
143			*								
144			*		TEST FOR CTL CARD						
145			*								
146			READ4	MCW	@013@,LGTC&6	7	0393	M P11 058			6
147				RT	4,1	8	0400	M %U4 001 R			6

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SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148			B		CHKLGT	4	0408	B 037			6
149			BER		TPERR	5	0412	B M33 L			7
150			C		18,@JOB@	7	0417	C 018 P14			7
151			BU		CKCTL	5	0424	B 444 /			7
152			MCW		79,IDENT#4	7	0429	M 079 P18			7
153			CW		JOBSW#1	4	0436	) P19			7
154			B		READ4	4	0440	B 393			7
155			CKCTL	C	18,@CTL@	7	0444	C 018 P22			7
156				MCW	OUTOPN,23	7	0451	M 100 023			8
157				RWD	4	5	0458	U %U4 R			8
158			BE		TSTSS	5	0463	B 475 S			8
159			LCA		@33@,22	7	0468	L P24 022			8
160			TSTSS	BSS	SENSW,F	5	0475	B 528 F			8
161			TSTOP	BCE	LTAPOP,23,2	8	0480	B 591 023 2			8
162				BCE	LTAPOP,23,3	8	0488	B 591 023 3			9
163				BCE	LTAPOP,23,6	8	0496	B 591 023 6			9
164				BCE	LTAPOP,23,7	8	0504	B 591 023 7			9
165				SW	LTAPSW#1	4	0512	, P25			9
166			B		START	4	0516	B '17			9
167			*								
168			*		OPTION TO PUNCH NEW SOURCE DECK						
169			*								
170			PNH4OP	SW	PNH4SW#1	4	0520	, P26			9
171				B	TSTLSW	4	0524	B '49			10
172			*								
173			*		TEST SENSE SWITCHES FOR OPTION						
174			*								
175			SENSW	LCA	@0@,23	7	0528	L P27 023			10
176				BSS	ADD1,B	5	0535	B 558 B			10
177			TSTSSC	BSS	ADD2,C	5	0540	B 569 C			10
178			TSTSSG	BSS	ADD4,G	5	0545	B 580 G			10
179			SSOUT	CW	23	4	0550	) 023			10
180				B	TSTOP	4	0554	B 480			10
181			ADD1	A	@1@,23	7	0558	A P28 023			11
182				B	TSTSSC	4	0565	B 540			11
183			ADD2	A	@2@,23	7	0569	A P07 023			11
184				B	TSTSSG	4	0576	B 545			11
185			ADD4	A	@4@,23	7	0580	A P29 023			11
186				B	SSOUT	4	0587	B 550			11
187			*								
188			*		SET UP CLEAR STORAGE RECORD						
189			*								
190			LTAPOP	CS	PUNCH&80	4	0591	/ 180			11
191				SW	GRPMRK	4	0595	, P06			12
192				LCA	GRPMRK,PUNCH&99	7	0599	L P06 199			12
193				LCA	IDENT,PUNCH&79	7	0606	L P18 179			12
194				LCA	@ @	4	0613	L P31			12
195				LCA	@B007@	4	0617	L P35			12
196				LCA	@)021@	4	0621	L P39			12
197				LCA	@B047L@	4	0625	L P44			12

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
198			LCA	@L&U1001R@		4	0629	L P52			13
199			LCA	@.@		4	0633	L P53			13
200			LCA	BSPTU1		4	0637	L O93			13
201			*								
202			*	TEST OBJECT CORE SIZE							
203			*								
204			C	22,@3@		7	0641	C 022 P54			13
205			BE	IS4K		5	0648	B 747 S			13
206			BH	IS4K		5	0653	B 747 U			13
207			C	22,@6@		7	0658	C 022 P55			13
208			BL	IS4K		5	0665	B 747 T			14
209			LCA	@I0?@,PUNCH&44		7	0670	L P58 144			14
210			LCA	@09@		4	0677	L P61			14
211			LCA	@B053@		4	0681	L P65			14
212			LCA	@M074099@		4	0685	L P72			14
213			LCA	@)099@		4	0689	L P76			14
214			LCA	@B001/@		4	0693	L P81			14
215			LCA	@C004041@		4	0697	L P88			15
216			LCA	@#044004@		4	0701	L P95			15
217			LCA	@/I9I@		4	0705	L P99			15
218			BCE	BTSTRP,22,6		8	0709	B 842 022 6			15
219			BCE	IS12K,22,5		8	0717	B 736 022 5			15
220			MZ	ZONE-2,PUNCH&4		7	0725	Y 337 104			15
221			B	BTSTRP		4	0732	B 842			15
222			IS12K MZ	ZONE-1,PUNCH&4		7	0736	Y 338 104			16
223			B	BTSTRP		4	0743	B 842			16
224			IS4K LCA	@I0@,PUNCH&75		7	0747	L Q01 175			16
225			LCA	@B053@,PUNCH&46		7	0754	L P65 146			16
226			LCA	@M080099@		4	0761	L Q08			16
227			LCA	@)099@		4	0765	L P76			16
228			LCA	@B001@		4	0769	L Q12			16
229			LCA	@B0320020@		4	0773	L Q20			17
230			LCA	@)002@		4	0777	L Q24			17
231			LCA	@A075003@		4	0781	L Q31			17
232			LCA	@,002@		4	0785	L Q35			17
233			LCA	@/I9@		4	0789	L Q39			17
234			SW	PUNCH&80		4	0793	, 180			17
235			BCE	BTSTRP,22,3		8	0797	B 842 022 3			17
236			MCW	@Z@,PUNCH&2		7	0805	M Q40 102			18
237			BCE	BTSTRP,22,2		8	0812	B 842 022 2			18
238			MCW	@T@,PUNCH&2		7	0820	M Q41 102			18
239			BCE	BTSTRP,22,1		8	0827	B 842 022 1			18
240			MCW	@I@,PUNCH&2		7	0835	M Q42 102			18
241			*								
242			*	SET UP BOOTSTRAP PROGRAM							
243			*								
244			BTSTRP B	WRITE1		4	0842	B 130			19
245			CW	PUNCH&99		4	0846	) 199			19
246			LCA	GRPMRK,PUNCH&80		7	0850	L P06 180			19
247			LCA	@ @,PUNCH&24		7	0857	L Q43 124			19

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
248			LCA	@.020@		4	0864	L Q47			19
249			LCA	BER1		4	0868	L O80			19
250			LCA	RDREC		4	0872	L O88			19
251			LCA	@.@		4	0876	L P53			20
252			LCA	BSPTU1		4	0880	L O93			20
253			B	WRITE1		4	0884	B 130			20
254			CS	PUNCH&75		4	0888	/ 175			20
255			LCA	@ @,PUNCH&35		7	0892	L Q43 135			20
256			LCA	@B007@		4	0899	L P35			20
257			LCA	@N000@		4	0903	L Q51			20
258			LCA	@L @		4	0907	L Q58			21
259			LCA	BER1		4	0911	L O80			21
260			LCA	RDREC		4	0915	L O88			21
261			LCA	@.@		4	0919	L P53			21
262			LCA	BSPTU1		4	0923	L O93			21
263			*								
264			*	TEST PROCESSOR CORE SIZE							
265			*								
266			C	21,@3@		7	0927	C 021 P54			21
267			BE	START		5	0934	B '17 S			21
268			BH	START		5	0939	B '17 U			22
269			C	21,@6@		7	0944	C 021 P55			22
270			BL	START		5	0951	B '17 T			22
271			MN	21.SAVEZLN#1		7	0956	D 021 Q59			22
272			A	&3.SAVEZN		7	0963	A Q60 Q59			22
273			MN	SAVEZN,*&4		7	0970	D Q59 980			22
274			MZ	ZONE,*&7		7	0977	Y 339 990			23
275			LCA	GRPMRK,GRPMRK		7	0984	L P06 P06			23
276			CW	GRPMRK		4	0991	) P06			23
277			MCW	@400@,KBLKNG		7	0995	M Q63 P01			23
278			BCE	START,21,4		8	1002	B '17 021 4			23
279			A	@400@,KBLKNG		7	1010	A Q63 P01			24
280			*								
281			*	SET PARAMETERS							
282			*								
283			START BCE	PNH4OP,23,4		8	1017	B 520 023 4			24
284			BCE	PNH4OP,23,5		8	1025	B 520 023 5			24
285			BCE	PNH4OP,23,6		8	1033	B 520 023 6			24
286			BCE	PNH4OP,23,7		8	1041	B 520 023 7			24
287			TSILSW BW	EOJOB,LTAPSW		8	1049	V X#1 P25 1			25
288			MCW	KBLKNG,BLKCT		7	1057	M P01 P04			25
289			CS	80		4	1064	/ 080			25
290			BW	SETINP,JOBSW		8	1068	V '84 P19 1			25
291			RT	INTAPE,INPOT		8	1076	M #U5 ?28 R			25
292			SETINP SW	IMAGE&23,IMAGE&57		7	1084	, 023 057			26
293			SW	IMAGE&62,IMAGE&67		7	1091	, 062 067			26
294			SW	IMAGE&68,IMAGE&71		7	1098	, 068 071			26
295			SW	IMAGE&74,IMAGE&6		7	1105	, 074 006			26
296			SW	IMAGE&1		4	1112	, 001			26
297			B	GET		4	1116	B 176			26

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
298			*								
299			*	ANALYZE	RECORD TYPE						
300			*								
301			ANALYZ	BCE	BYPASS,TYPE,%	8		1120	B J59 075 %		27
302				BM	BYPASS,IMAGE&5	8		1128	V J59 005 K		27
303				BCE	INSTR,TYPE,	8		1136	B S22 075		27
304				BCE	DOJOB,TYPE,I	8		1144	B S11 075 I		27
305				MN	TYPE,XR2	7		1152	D 075 094		27
306				A	XR2	4		1159	A 094		28
307				A	XR2	4		1163	A 094		28
308				B	*%1&X2	4		1167	B /P1		28
309				B	DA	4		1171	B V85		28
310				B	CONST	4		1175	B S65		28
311				B	DSA	4		1179	B V59		28
312				B	EXEND	4		1183	B W82		28
313				B	BYPASS	4		1187	B J59		29
314				B	BYPASS	4		1191	B J59		29
315				B	BYPASS	4		1195	B J59		29
316				B	BYPASS	4		1199	B J59		29
317				B	XTRA	4		1203	B V34		29
318				B	BYPASS	4		1207	B J59		29
319			DOJOB	MCW	IMAGE&20,PUNCH&79	7		1211	M 020 179		29
320				B	BYPASS	4		1218	B J59		30
321			*								
322			*	PROCESS	INSTRUCTIONS						
323			*								
324			INSTR	MCW	DMOD,PUNCH&42	7		1222	M 074 142		30
325				MCW		1		1229	M		30
326				MCW		1		1230	M		30
327				MCW		1		1231	M		30
328				MCW	LABADD,CNVADD	7		1232	M 061 ?01		30
329				A	COUNT,CNVADD	7		1239	A 007 ?01		30
330				S	@1@,CNVADD	7		1246	S P28 ?01		31
331			INSTXT	B	SETLOC	4		1253	B J67		31
332				B	WRITE2	4		1257	B K64		31
333				B	BYPASS	4		1261	B J59		31
334			*								
335			*	PROCESS	CONSTANTS						
336			*								
337			CONST	A	@00@,COUNT	7		1265	A Q65 007		31
338				C	COUNT,@00@	7		1272	C 007 Q65		31
339				BL	*%5	5		1279	B S88 T		31
340				B	BYPASS	4		1284	B J59		32
341				BCE	PCHCON,IMAGE&23,#	8		1288	B T44 023 #		32
342				BWZ	PCHCON,IMAGE&4,B	8		1296	V T44 004 B		32
343				MCW	IMAGE&53,HOLDT-22	7		1304	M 053 R26		32
344				BCE	ALPHA,IMAGE&23,@	8		1311	B T23 023 @		32
345				B	PCHCON	4		1319	B T44		32
346			ALPHA	MCW	&HOLDT-51,XR1	7		1323	M Q68 089		33
347				A	COUNT,XR1	7		1330	A 007 089		33

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
348				MCW	BLANK1#1,XXXX&X1	7		1337	M Q69 0'0		33
349			PCHCON	MCW	HOLDT-20,PUNCH&66	7		1344	M R28 166		33
350				MCW	LABADD,CNVADD	7		1351	M 061 ?01		33
351				C	COUNT,@32@	7		1358	C 007 Q71		34
352				BL	LARGE	5		1365	B T82 T		34
353				BCE	PRODC,TYPE,A	8		1370	B U47 075 A		34
354				B	INSTXT	4		1378	B S53		34
355			*								
356			*	CONSTANTS	LARGER THAN 32 CHARACTERS						
357			*								
358			LARGE	S	@32@,COUNT	7		1382	S Q71 007		34
359				S	COUNT,CNVADD	7		1389	S 007 ?01		34
360				MCW	COUNT,HOLDCT#2	7		1396	M 007 Q73		35
361				MCW	@32@,COUNT	7		1403	M Q71 007		35
362				B	SETLOC	4		1410	B J67		35
363				BCE	LRGDC,TYPE,A	8		1414	B U94 075 A		35
364			LRGXT	MCW	HOLDCT,COUNT	7		1422	M Q73 007		35
365				MCW	HOLDT,TEMP#20	7		1429	M R48 Q93		36
366				B	WRITE2	4		1436	B K64		36
367				MCW	TEMP,PUNCH&54	7		1440	M Q93 154		36
368			*								
369			*	PROCESS	DC						
370			*								
371			PRODC	MCW	LABADD,CNVADD	7		1447	M 061 ?01		36
372				S	COUNT,CNVADD	7		1454	S 007 ?01		36
373				A	@1@,CNVADD	7		1461	A P28 ?01		36
374				B	CNVRT	4		1468	B K11		37
375				MCW	CNVWK,PUNCH&30	7		1472	M ?04 130		37
376				MCW	@)@	4		1479	M Q94		37
377				MCW	LABADD,CNVADD	7		1483	M 061 ?01		37
378				B	INSTXT	4		1490	B S53		37
379			*								
380			*	DC	GREATER THAN 32 CHARACTERS						
381			*								
382			LRGDC	MCW	LABADD,CNVADD	7		1494	M 061 ?01		37
383				S	HOLDCT,CNVADD	7		1501	S Q73 ?01		38
384				S	@31@,CNVADD	7		1508	S Q96 ?01		38
385				B	CNVRT	4		1515	B K11		38
386				MCW	CNVWK,PUNCH&30	7		1519	M ?04 130		38
387				MCW	@)@	4		1526	M Q94		38
388				B	LRGXT	4		1530	B U22		38
389			*								
390			*	EXTRA	CONSTANT FOR CONSTANT OVER 32 CHARACTERS						
391			*								
392			XTRA	BCE	BYPASS,IMAGE&21,	8		1534	B J59 021		39
393				MCW	IMAGE&73,HOLDT#52	7		1542	M 073 R48		39
394					CHAIN 6					MACRO	
395				MCW		1		1549	M	GEN	39
396				MCW		1		1550	M	GEN	39
397				MCW		1		1551	M	GEN	39

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
398				MCW		1		1552	M	GEN	39
399				MCW		1		1553	M	GEN	39
400				MCW		1		1554	M	GEN	40
401				B	BYPASS	4		1555	B J59		40
402				*							
403				*	PROCESS DSA						
404				*							
405			DSA	MCW	BOP,PUNCH&37	7		1559	M 073 137		40
406				BCE	PRODC,TYPE,B	8		1566	B U47 075 B		40
407				MCW	LABADD,CNVADD	7		1574	M 061 ?01		40
408				B	INSTXT	4		1581	B S53		40
409				*							
410				*	PROCESS DEFINE AREA						
411				*							
412			DA	BCE	BYPASS,TYPE,I	8		1585	B J59 075 I		40
413				BCE	HEADER,TYPE,0	8		1593	B W24 075 0		41
414				*							
415				*	FIELD, FIELD REPEAT						
416				*							
417			FIELD	MCW	SUPADD,CNVADD	7		1601	M 066 ?01		41
418				B	DARTN	4		1608	B W47		41
419				BCE	FIELD,TYPE,'	8		1612	B W01 075 '		41
420				B	ANALYZ	4		1620	B /20		41
421				*							
422				*	HEADER, HEADER REPEAT						
423				*							
424			HEADER	MCW	LABADD,CNVADD	7		1624	M 061 ?01		41
425				B	DARTN	4		1631	B W47		42
426				BCE	HEADER,TYPE,'	8		1635	B W24 075 '		42
427				B	ANALYZ	4		1643	B /20		42
428				*							
429				*	DA SUBROUTINE						
430				*							
431			DARTN	SBR	DAXT&3	4		1647	H W81		42
432				B	CNVRT	4		1651	B K11		42
433				MCW	CNVWK,PUNCH&26	7		1655	M ?04 126		42
434				MCW	CNVWK	4		1662	M ?04		42
435				MCW	@@,@	4		1666	M R49		43
436				B	WRITE2	4		1670	B K64		43
437				B	GET	4		1674	B !76		43
438			DAXT	B	XXXX	4		1678	B 000		43
439				*							
440				*	PROCESS EX, END						
441				*							
442			EXEND	BCE	END,TYPE,3	8		1682	B X58 075 3		43
443				MCW	ADP,PUNCH&30	7		1690	M 070 130		43
444				MCW	@B@	4		1697	M R50		43
445				MCW	@N00000@	4		1701	M R57		44
446				B	WRITE2	4		1705	B K64		44
447				LCA	@ @,PUNCH&24	7		1709	L Q43 124		44

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
448				LCA	@B007@	4		1716	L P35		44
449				B	GET	4		1720	B !76		44
450				BCE	ISJOB,TYPE,I	8		1724	B X47 075 I		44
451			COMPAT	B	WRITE1	4		1732	B !30		44
452				LCA	@L @,PUNCH&26	7		1736	L R64 126		45
453				B	ANALYZ	4		1743	B /20		45
454			ISJOB	MCW	IMAGE&20,PUNCH&79	7		1747	M 020 179		45
455				B	COMPAT	4		1754	B X32		45
456				*							
457				*	END						
458				*							
459			END	MCW	@/ 080@,PUNCH&26	7		1758	M R71 126		45
460				MCW	ADP,PUNCH&23	7		1765	M 070 123		45
461				B	WRITE2	4		1772	B K64		46
462				WTM	OUTAPE	5		1776	U \$06 M		46
463			EOJOB	BW	PUNCH4,PNH4SW	8		1781	V X93 P26 1		46
464				B	ENDJOB	4		1789	B 155		46
465				*							
466				*	PUNCH NEW SOURCE DECK						
467				*							
468			PUNCH4	CS	PUNCH&80	4		1793	/ 180		46
469				MCW	@113@,LGTCK&6	7		1797	M R74 058		46
470				RT	4,PUNCH&1	8		1804	M \$U4 101 R		47
471				B	CHKLGT	4		1812	B O37		47
472				BER	TPERR	5		1816	B M33 L		47
473				BCE	DOLTO,PUNCH&75,L	8		1821	B 254 175 L		47
474				BCE	PUNCH4,PUNCH&75,S	8		1829	B X93 175 S		47
475				BCE	PUNCH4,PUNCH&75,C	8		1837	B X93 175 C		48
476				BCE	PUNCH4,PUNCH&75,Z	8		1845	B X93 175 Z		48
477				BCE	PUNCH4,PUNCH&75,Y	8		1853	B X93 175 Y		48
478			BUMP	A	&1,SEQCT-1	7		1861	A R75 097		48
479				MCW	SEQCT,PUNCH&5	7		1868	M 098 105		48
480				BCE	DOPCH,PUNCH&6,*	8		1875	B 213 106 *		49
481				MCW	BLANK4#4,PUNCH&15	7		1883	M R79 115		49
482				C	PUNCH&18,@JOB@	7		1890	C 118 P14		49
483				BU	DOPCH	5		1897	B 213 /		49
484				MCW	BLANK4,PUNCH&11	7		1902	M R79 111		49
485				MCW	BLANK4-2	4		1909	M R77		49
486			DOPCH	MCW	BLANK4-1,PUNCH&75	7		1913	M R78 175		50
487				P		1		1920	4		50
488				SS	4	2		1921	K 4		50
489				C	PUNCH&18,@END@	7		1923	C 118 R82		50
490				BU	PUNCH4	5		1930	B X93 /		50
491				BCE	PUNCH4,PUNCH&6,*	8		1935	B X93 106 *		50
492				CS	PUNCH&80	4		1943	/ 180		50
493				F		1		1947	4		51
494				SS	8	2		1948	K 8		51
495				B	ENDJOB	4		1950	B 155		51
496			DOLTO	MCW	@LTOrg@,PUNCH&20	7		1954	M R87 120		51
497				B	BUMP	4		1961	B Y61		51

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
498				DCW	@ @		1	1965			51
499			ENDF1	DCW	@}@		1	1966		GMARK	51
500				XFR	LIBRN				B 000		52

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
501				JOB	1401 AUTOCODER-PASS 8-LOAD TAPE-LEFT MAIN -VERSION 3						
502				ORG	2000				2000		
503			OUTOPN	DCW	@ @	1	2000				55
504			SSOP	DCW	@B@	1	2001				55
505				RTW	1,1	8	2002		L %U1 001 R		55
506				NOP	XXXX	4	2010		N 000		55
507				BER	TPERR	5	2014		B M33 L		55
508				CW	ENDF1,ENDF2	7	2019		) Z66 I98		55
509				B	INITLZ	4	2026		B 340		55
510				*							
511				*	WRITE CLEAR STORAGE AND BOOTSTRAP						
512				*							
513			WRITE1	SBR	WT1XT&3	4	2030		H 154		56
514				WTW	OUTAPE,OUTPUT	8	2034		L %U6 101 W		56
515				NOP	XXXX	4	2042		N 000		56
516				BER	TPERR	5	2046		B M33 L		56
517				WT1XT	B XXXX	4	2051		B 000		56
518				*							
519				*	GO BACK TO PASS E FOR EXTRA OUTPUT						
520				*							
521			ENDJOB	RTW	1,333	8	2055		L %U1 333 R		56
522				NOP	XXXX	4	2063		N 000		56
523				BER	TPERR	5	2067		B M33 L		57
524				B	MESSAG	4	2072		B 333		57
525				*							
526				*	RETRIEVE INPUT RECORD						
527				*							
528			GET	SBR	GETXT&3	4	2076		H J58		57
529				C	BLKCT,KBLKNG	7	2080		C P04 P01		57
530				BU	NXTREC	5	2087		B J20 /		57
531				S	HOLDA	4	2092		S P05		57
532				MCW	&INPUT&13, LGTCK&6	7	2096		M R90 058		57
533				RT	INTAPE,INPUT	8	2103		M %U5 ?28 R		58
534				B	CHKLGT	4	2111		B O37		58
535				BER	TPERR	5	2115		B M33 L		58
536				NXTREC	A &80, BLKCT	7	2120		A R92 P04		58
537				MCW	BLKCT, XR3	7	2127		M P04 099		58
538				MCW	INPUT-1&X3, IMAGE&80	7	2134		M ?B7 080		58
539				CHAIN	8					MACRO	
540				MCW		1	2141		M	GEN	58
541				MCW		1	2142		M	GEN	59
542				MCW		1	2143		M	GEN	59
543				MCW		1	2144		M	GEN	59
544				MCW		1	2145		M	GEN	59
545				MCW		1	2146		M	GEN	59
546				MCW		1	2147		M	GEN	59
547				MCW		1	2148		M	GEN	59
548				S		4	2149		S 100		60
549				S	XR3&1	1	2153		S		60
550				S		1	2154		S		60

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
551			GETXT	B	XXXX		4	2155	B 000		60
552			*								
553			*		DO NEXT RECORD						
554			*								
555			BYPASS	B	GET		4	2159	B 176		60
556				B	ANALYZ		4	2163	B /20		60
557			*								
558			*		SET ADDRESSES IN OUTPUT						
559			*								
560			SETLOC	SBR	LOCXT&3		4	2167	H K10		60
561				B	CNVRT		4	2171	B K11		61
562			MCW		CNVWK, PUNCH&26		7	2175	M ?04 126		61
563			ZA		&34, CNVADD		7	2182	? R94 ?01		61
564			A		COINT, CNVADD		7	2189	A 007 ?01		61
565				B	CNVRT		4	2196	B K11		61
566			MCW		CNVWK, PUNCH&23		7	2200	M ?04 123		61
567			LOCXT	B	XXXX		4	2207	B 000		62
568			*								
569			*		CONVERT 5 TO 3 DIGIT ADDRESS						
570			*								
571			CNVRT	SBR	CNVXT&3		4	2211	H K63		62
572			BAV		*&1		5	2215	B K20 Z		62
573			ADDAGN	A	&96, CNVADD-3		7	2220	A R96 R98		62
574			BAV		ADDAGN		5	2227	B K20 Z		62
575			MZ		CNVADD-4, CNVADD#5		7	2232	Y R97 ?01		62
576			MN		CNVADD-3, *&4		7	2239	D R98 K49		62
577			MZ		ZONE, CNVADD-2		7	2246	Y 339 R99		63
578			MCW		CNVADD, CNVWK#3		7	2253	M ?01 ?04		63
579			CNVXT	B	XXXX		4	2260	B 000		63
580			*								
581			*		WRITE OUTPUT RECORDS						
582			*								
583			WRITE2	SBR	WT2XT&3		4	2264	H L30		63
584			BCE		DOGM, PUNCH&35, }		8	2268	B L31 135 }	GMARK	63
585			WTW		OUTAPE, OUTPUT&19		8	2276	L ?06 120 W		63
586			NOP		XXXX		4	2284	N 000		64
587			BER		TPERR		5	2288	B M33 L		64
588			NOP				1	2293	N		64
589			CLEAR	MCW	BLANK1, PUNCH&75		7	2294	M Q69 175		64
590			MCW		PUNCH&75		4	2301	M 175		64
591			MCW		BLANK1, HOLDDT		7	2305	M Q69 R48		64
592			MCW		HOLDDT		4	2312	M R48		64
593			MCW		@N000@, PUNCH&30		7	2316	M Q51 130		65
594			MCW		@L @		4	2323	M ?11		65
595			WT2XT	B	XXXX		4	2327	B 000		65
596			DOGM	CS	299		4	2331	/ 299		65
597			LCA		PUNCH&80, 280		7	2335	L 180 280		65
598			LCA				1	2342	L		65
599			MCW		PUNCH&66, 274		7	2343	M 166 274		65
600			LCA		@ @		4	2350	L Q43		66

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
601			LCA		@B007@		4	2354	L P35		66
602			LCA		@)043043@		4	2358	L ?18		66
603			LCA		PUNCH&26		4	2362	L 126		66
604			LCA		@, 043@		4	2366	L ?22		66
605			SW		225, 235		7	2370	, 225 235		66
606			A		&8, 227		7	2377	A ?23 227		66
607			CW		225		4	2384	) 225		67
608			BCE		WTGM, PUNCH&27, N		8	2388	B M03 127 N		67
609			MCW		PUNCH&30, 237		7	2396	M 130 237		67
610			WTGM	CW	235		4	2403	) 235		67
611			WTW		OUTAPE, 220		8	2407	L ?06 220 W		67
612			NOP		XXXX		4	2415	N 000		67
613			BER		TPERR		5	2419	B M33 L		68
614			NOP				1	2424	N		68
615			CW		280		4	2425	) 280		68
616			B		CLEAR		4	2429	B K94		68
617			*								
618			*		TAPE REDUNDANCY ROUTINE						
619			*								
620			TPERR	SBR	XR2		4	2433	H 094		68
621			SBR		REDXT&3		4	2437	H N05		68
622			MZ		&9, XR2		7	2441	Y ?24 094		68
623			MCW		4000-10&X2, TPINST&7		7	2448	M IR0 M96		69
624			MN		TPINST&3, BSP1&3		7	2455	D M92 M72		69
625			MCW		TPINST&7, INST2&7		7	2462	M M96 005		69
626			BSP1	BSP	INITAP		5	2469	U ?00 B		69
627			BCE		WRTRED, TPINST&7, W		8	2474	B N78 M96 W		69
628			MCW		&9, READCT#1		7	2482	M ?24 ?25		70
629			TPINST	RT	INITAP, XXXX		8	2489	M ?00 000 R		70
630			BER		RDRERR		5	2497	B N06 L		70
631			REDXT	B	XXXX		4	2502	B 000		70
632			RDRERR	MN	TPINST&3, BSP2&3		7	2506	D M92 N16		70
633			BSP2	BSP	INITAP		5	2513	U ?00 B		70
634			S		&1, READCT		7	2518	S R75 ?25		71
635			BWZ		TPINST, READCT, B		8	2525	V M89 ?25 B		71
636			MN		TPINST&3, TPHALT&6		7	2533	D M92 N46		71
637			TPHALT	H	XXXX, 890		7	2540	. 000 890		71
638			MCW		TPINST&7, *&8		7	2547	M M96 N61		71
639			RT		INITAP, XXXX		8	2554	M ?00 000 R		72
640			BSS		BSP1, E		5	2562	B M69 E		72
641			H		XXXX, 811		7	2567	. 000 811		72
642			B		REDXT		4	2574	B N02		72
643			WRTRED	SKP	1		5	2578	U ?01 E		72
644			BCE		SUBCTR, WRTCTR-1, 5		8	2583	B O15 ?26 5		72
645			A		&1, WRTCTR#2		7	2591	A R75 ?27		73
646			INST2	WT	INITAP, XXXX		8	2598	M ?00 000 W		73
647			BER		BSP1		5	2606	B M69 L		73
648			B		REDXT		4	2611	B N02		73
649			SUBCTR	S	WRTCTR		4	2615	S ?27		73
650			MN		TPINST&3, *&7		7	2619	D M92 O32		73

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
651			H		XXXX,860	7		2626	. 000 860		74
652			B		INST2	4		2633	B N98		74
653			*								
654			*		CHECK FOR SHORT RECORDS						
655			*								
656			CHKLGT	SBR	XR2	4		2637	H 094		74
657			SBR		LGTX&3	4		2641	H 075		74
658			MZ		&9, XR2	7		2645	Y ?24 094		74
659			LGTK	BCE	4000-12&X2, XXXX, }	8		2652	B IQ8 000 }	GMARK	74
660			CHAIN		12					MACRO	
661			BCE			1		2660	B	GEN	74
662			BCE			1		2661	B	GEN	75
663			BCE			1		2662	B	GEN	75
664			BCE			1		2663	B	GEN	75
665			BCE			1		2664	B	GEN	75
666			BCE			1		2665	B	GEN	75
667			BCE			1		2666	B	GEN	75
668			BCE			1		2667	B	GEN	75
669			BCE			1		2668	B	GEN	76
670			BCE			1		2669	B	GEN	76
671			BCE			1		2670	B	GEN	76
672			BCE			1		2671	B	GEN	76
673			LGTX	B	XXXX	4		2672	B 000		76
674			BER1	DCW	@B001L@	5		2680			76
675			RDREC	DCW	@L&U1020R@	8		2688			76
676			BSPTUL	DCW	@U&U1B@	5		2693			77
677			SEQCT	DCW	@0100 @	5		2698			77
678			KBLKNG	DCW	080	3		2701			77
679			HOLDA	DCW	&0000	4		2705			77
680			BLKCT	EQU	HOLDA-1			2704			
681			GRPMRK	DC	@}@	1		2706		GMARK	77
682			LTORG	*					2707		
			DCW	@2@		1		2707		LIT	77
			DCW	@7@		1		2708		LIT	77
			DCW	@013@		3		2711		LIT	77
			DCW	@JOB@		3		2714		LIT	78
			IDENT	DCW	#04	4		2718		AREA	78
			JOB	DCW	#01	1		2719		AREA	78
			DCW	@CTL@		3		2722		LIT	78
			DCW	@33@		2		2724		LIT	78
			LTAPSW	DCW	#01	1		2725		AREA	78
			PNH4SW	DCW	#01	1		2726		AREA	78
			DCW	@0@		1		2727		LIT	79
			DCW	@1@		1		2728		LIT	79
			DCW	@4@		1		2729		LIT	79
			DCW	@ @		2		2731		LIT	79
			DCW	@B007@		4		2735		LIT	79
			DCW	@021@		4		2739		LIT	79
			DCW	@B047L@		5		2744		LIT	79
			DCW	@L&U1001R@		8		2752		LIT	80

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
			DCW	@.@		1		2753		LIT	80
			DCW	@3@		1		2754		LIT	80
			DCW	@6@		1		2755		LIT	80
			DCW	@I0?@		3		2758		LIT	80
			DCW	@099@		3		2761		LIT	80
			DCW	@B053@		4		2765		LIT	80
			DCW	@M074099@		7		2772		LIT	81
			DCW	@099@		4		2776		LIT	81
			DCW	@B001/@		5		2781		LIT	81
			DCW	@C004041@		7		2788		LIT	81
			DCW	@#044004@		7		2795		LIT	81
			DCW	@/I9I@		4		2799		LIT	81
			DCW	@I0@		2		2801		LIT	81
			DCW	@M080099@		7		2808		LIT	82
			DCW	@B001@		4		2812		LIT	82
			DCW	@B0320020@		8		2820		LIT	82
			DCW	@002@		4		2824		LIT	82
			DCW	@A075003@		7		2831		LIT	82
			DCW	@.002@		4		2835		LIT	82
			DCW	@/I99@		4		2839		LIT	82
			DCW	@Z@		1		2840		LIT	83
			DCW	@T@		1		2841		LIT	83
			DCW	@I@		1		2842		LIT	83
			DCW	@ @		1		2843		LIT	83
			DCW	@.020@		4		2847		LIT	83
			DCW	@N000@		4		2851		LIT	83
			DCW	@L @		7		2858		LIT	83
			SAVEZN	DCW	#01	1		2859		AREA	84
			DCW	&3		1		2860		LIT	84
			DCW	@400@		3		2863		LIT	84
			DCW	@00@		2		2865		LIT	84
			DCW	&HOLDDT-51		3		2868	Q97	ADCON	84
			BLANK1	DCW	#01	1		2869		AREA	84
			DCW	@32@		2		2871		LIT	84
			HOLDCT	DCW	#02	2		2873		AREA	85
			TEMP	DCW	#20	20		2893		AREA	85
			DCW	@}@		1		2894		LIT	85
			DCW	@31@		2		2896		LIT	85
			HOLDDT	DCW	#52	52		2948		AREA	87
			DCW	@,@		1		2949		LIT	87
			DCW	@B@		1		2950		LIT	87
			DCW	@N000000@		7		2957		LIT	87
			DCW	@L @		7		2964		LIT	87
			DCW	@/ 080@		7		2971		LIT	88
			DCW	@113@		3		2974		LIT	88
			DCW	&1		1		2975		LIT	88
			BLANK4	DCW	#04	4		2979		AREA	88
			DCW	@END@		3		2982		LIT	88
			DCW	@LTORG@		5		2987		LIT	88
			DCW	&INPUT&13		3		2990	?41	ADCON	88

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
				DCW	&80		2	2992		LIT	89
				DCW	&34		2	2994		LIT	89
				DCW	&96		2	2996		LIT	89
			CNVADD	DCW	#05		5	3001		AREA	89
			CNVWK	DCW	#03		3	3004		AREA	89
				DCW	@L		7	3011		LIT	89
				DCW	@)043043@		7	3018		LIT	89
				DCW	@,043@		4	3022		LIT	90
				DCW	&8		1	3023		LIT	90
				DCW	&9		1	3024		LIT	90
			READCT	DCW	#01		1	3025		AREA	90
			WRTCTR	DCW	#02		2	3027		AREA	90
683				*							
684				* INPUT AREA							
685				*							
686			INPUT	EQU	*&1			3028			
687			ENDF2	EQU	3998			3998			
688			3998	DCW	@)@	1		3998		GMARK	91
689			XFR	LIBRN					B 000		92

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
690			JOB		1401 AUTOCODER-PASS 8 EXTRA OUTPUT OVERLAY-VERSION 3						
691			ORG		333				0333		
692				*							
693				* PRINT END OF JOB MESSAGES							
694				*							
695			MESSAG	CC	1		2	0333	F 1		95
696				CS	332		4	0335	/ 332		95
697				CS			1	0339	/		95
698				MCW	@END OF ASSEMBLY@,PRINT&15		7	0340	M 696 215		95
699				W			1	0347	2		95
700				CC	K		2	0348	F K		95
701				MCW	@IF EXTRA OUTPUT DESIRED, SET SENSE@,PRINT&34		7	0350	M 730 234		95
702				MCW	@SWITCH F ON, AND@, PRINT&51		7	0357	M 746 251		96
703				W			1	0364	2		96
704				CC	J		2	0365	F J		96
705				CS	PRINT&71		4	0367	/ 271		96
706				MCW	@B ON FOR CONDENSED CARDS@,PRINT&24		7	0371	M 770 224		96
707				W			1	0378	2		96
708				MCW	@C ON FOR LOADABLE TAPE 6@,PRINT&24		7	0379	M 794 224		96
709				W			1	0386	2		97
710				MCW	@D ON FOR LISTING TAPE 3@,PRINT&24		7	0387	M 818 224		97
711				W			1	0394	2		97
712				MCW	@E ON TO SUPPRESS LISTING@,PRINT&24		7	0395	M 842 224		97
713				W			1	0402	2		97
714				MCW	@G ON FOR NEW SOURCE DECK@,PRINT&24		7	0403	M 866 224		97
715				W			1	0410	2		97
716				CC	J		2	0411	F J		98
717				CS	PRINT&24		4	0413	/ 224		98
718				MCW	@AND PRESS START@,PRINT&15		7	0417	M 881 215		98
719				W			1	0424	2		98
720				CC	K		2	0425	F K		98
721				MCW	@IF NO EXTRA OUTPUT DESIRED, PRESS START@,PRINT&39		7	0427	M 920 239		98
722				W			1	0434	2		98
723				CC	1		2	0435	F 1		99
724				CW	GRPMRK		4	0437	) P06		99
725				H	XXXX,880		7	0441	. 000 880		99
726				BSS	GOTOF,F		5	0448	B 530 F		99
727				CS	PRINT&39		4	0453	/ 239		99
728				MCW	@END OF JOB@,PRINT&10		7	0457	M 930 210		99
729				W			1	0464	2		99
730				CC	K		2	0465	F K		100
731				MCW	@INPUT FOR RE-ASSEMBLY ON TAPE UNIT 4@,PRINT&36		7	0467	M 966 236		100
732				W			1	0474	2		100
733				RWD	1		5	0475	U &U1 R		100
734				RWD	4		5	0480	U &U4 R		100
735				RWD	5		5	0485	U &U5 R		100
736				RWD	6		5	0490	U &U6 R		100
737				EW	FINAL,LTAPSW		8	0495	V 517 P25 1		101
738				CS	236		4	0503	/ 236		101
739				MLC	@LOADABLE TAPE ON TAPE UNIT 6@,PRINT&28		7	0507	M 994 228		101

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
740				CC	K		2	0514	F K		101
741				W			1	0516	2		101
742			FINAL	CC	1		2	0517	F 1		101
743				H	XXXX,889		7	0519	. 000 889		101
744				B	FINAL&2		4	0526	B 519		102
745			GOTOE	CW	ENDF2,ENDF3		7	0530	) 198 998		102
746				CW	INPUT&80		4	0537	) A08		102
747				CS	PUNCH&99		4	0541	/ 199		102
748				BSP	1		5	0545	U %U1 B		102
749				BSP	1		5	0550	U %U1 B		102
750				BSP	1		5	0555	U %U1 B		102
751				BSP	1		5	0560	U %U1 B		103
752				BSP	1		5	0565	U %U1 B		103
753				BSP	1		5	0570	U %U1 B		103
754				BSP	1		5	0575	U %U1 B		103
755				BSP	1		5	0580	U %U1 B		103
756				RTW	1,PASSE		8	0585	L %U1 200 R		103
757				BER	TPERR2		5	0593	B 602 L		103
758				B	PASSE&1		4	0598	B 201		104
759			TPERR2	MCW	&9,READC#1		7	0602	M 995 996		104
760				BSP	1		5	0609	U %U1 B		104
761			RETRY	RTW	1,PASSE		8	0614	L %U1 200 R		104
762				BER	AGAIN		5	0622	B 631 L		104
763				B	PASSE&1		4	0627	B 201		104
764			AGAIN	BSP	1		5	0631	U %U1 B		104
765				S	&1,READC		7	0636	S 997 996		105
766				BWZ	RETRY,READC,B		8	0643	V 614 996 B		105
767				H	XXXX,891		7	0651	. 000 891		105
768				RTW	1,PASSE		8	0658	L %U1 200 R		105
769				BSS	TPERR2,E		5	0666	B 602 E		105
770				H	XXXX,812		7	0671	. 000 812		106
771				B	PASSE&1		4	0678	B 201		106
772				LTORG	*				0682		
				DCW	@END OF ASSEMBLY@		15	0696		LIT	106
				DCW	@IF EXTRA OUTPUT DESIRED, SET SENSE@		34	0730		LIT	107
				DCW	@SWITCH F ON, AND@		16	0746		LIT	108
				DCW	@B ON FOR CONDENSED CARDS@		24	0770		LIT	109
				DCW	@C ON FOR LOADABLE TAPE 6@		24	0794		LIT	110
				DCW	@D ON FOR LISTING TAPE 3@		24	0818		LIT	111
				DCW	@E ON TO SUPPRESS LISTING@		24	0842		LIT	112
				DCW	@G ON FOR NEW SOURCE DECK@		24	0866		LIT	113
				DCW	@AND PRESS START@		15	0881		LIT	113
				DCW	@IF NO EXTRA OUTPUT DESIRED, PRESS START@		39	0920		LIT	114
				DCW	@END OF JOB@		10	0930		LIT	115
				DCW	@INPUT FOR RE-ASSEMBLY ON TAPE UNIT 4@		36	0966		LIT	116
				DCW	@LOADABLE TAPE ON TAPE UNIT 6@		28	0994		LIT	117
				DCW	&9		1	0995		LIT	117
			READC	DCW	#01		1	0996		AREA	117
				DCW	&1		1	0997		LIT	117
773			ENDF3	DCW	@]@		1	0998		GMARK	117

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
774			PASSE	EQU	1900			1900			
775				EX	LIBRN				B 000		118
776				END	LIBRN				/ 000 080		

SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS
ADD1	558	ADD2	569	ADD4	580	ADDAGN	2220	AGAIN	631	ALPHA	1323	ANALYZ	1120
AOP	70	BER1	2680	BLANK1	2869	BLANK4	2979	BLKCT	2704	BOP	73	BSPL	2469
BSP2	2513	BSPTU1	2693	BTSTRP	842	BUMP	1861	BYPASS	2159	CHKLGT	2637	CKCTL	444
CLEAR	2294	CNVADD	3001	CNVRT	2211	CNVWK	3004	CNVXT	2260	COMPAT	1732	CONST	1265
COUNT	7	DA	1585	DARTN	1647	DAXT	1678	DMOD	74	DOGM	2331	DOJOB	1211
DOLTO	1954	DOPCH	1913	DSA	1559	END	1758	ENDF1	1966	ENDF2	3998	ENDF3	998
ENDJOB	2055	EOJOB	1781	EXEND	1682	FIELD	1601	FINAL	517	GET	2076	GETXT	2155
GOTOE	530	GRPMRK	2706	HEADER	1624	HOLDA	2705	HOLDCT	2873	HOLDDT	2948	IDENT	2718
IMAGE	0	INITAP	%U0	INITLZ	340	INPUT	3028	INST2	2598	INSTR	1222	INSTXT	1253
INTAPE	%U5	IS12K	736	IS4K	747	ISJOB	1747	JOBWS	2719	KBLKNG	2701	LABADD	61
LARGE	1382	LGTC	2652	LGTX	2672	LIBRN	0	LOCXT	2207	LRGDC	1494	LRGXT	1422
LTAPOP	591	LTAFSW	2725	MESSAG	333	NKTRC	2120	OUTAPE	%U6	OUTOPN	2000	OUTPUT	101
PASSE	1900	PCHCON	1344	PNH4OP	520	PNH4SW	2726	PRINT	200	PRODC	1447	PUNCH	100
PUNCH4	1793	RDRRC	2688	RDRERR	2506	READ4	393	READC	996	READCT	3025	REDXT	2502
RETRY	614	SAVEZN	2859	SENSW	528	SEQCT	2698	SETIMP	1084	SETLOC	2167	SSOP	2001
SSOUT	550	START	1017	SUBCTR	2615	SUPADD	66	TEMP	2893	TPERR	2433	TPERR2	602
TPHALT	2540	TPINST	2489	TSLSW	1049	TSTOP	480	TSTSS	475	TSTSSC	540	TSTSSG	545
TYPE	75	WRITE1	2030	WRITE2	2264	WRCTR	3027	WRTRED	2578	WTXT	2051	WT2XT	2327
WTGM	2403	XR1	89	XR2	94	XR3	99	XTRA	1534	XXXX	0	ZONE	339