

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 2-PROCESS IOCS-MAIN 2 -VERSION 3 3722L PAGE 1

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
101	1	01	001	JOB	1401 AUTOCODER-PASS 2-PROCESS IOCS-MAIN 2 -VERSION 3						
102	1	02		CTL	630 1						
103	1	03		SFX	1	I					
104	1	04	OTHER	EQU	START			0101			
105	1	05	MINUS2	EQU	2	I		0002			
106	1	06	MINUS3	EQU	3	I		0003			
107	1	07	DIOCSB	EQU	LABDIO-4			0576			
108	1	08		ORG	1	I			0001		
109	1	09	MAINX	DA	1X86	I		0001	0086		ADDR
110	1	10	LMAINX	EQU	*	I		0086			
111	1	11	*	XINIT	INDEX1, INDEX2, INDEX3						
112	01		INDEX1	EQU	089	I		0089			
113	02		089	DCW	000	I	3	0089			4
114	04		091	DC	00	I	2	0091			4
115	05		INDEX2	EQU	094	I		0094			
116	06		094	DCW	000	I	3	0094			4
117	08		096	DC	00	I	2	0096			4
118	09		INDEX3	EQU	099	I		0099			
119	10		099	DCW	000	I	3	0099			4
120	12		100	DC	0	I	1	0100			4
121	1	12	*								
122	1	13	*	START OF MAIN LINE							
123	1	14	*								
124	1	15		ORG	101	I		0101			
125	1	16	START	RWD	4	I	5	0101	U %U4 R		4
126	1	17		RWD	5	I	5	0106	U %U5 R		4
127	1	18		RWD	6	I	5	0111	U %U6 R		4
128	1	19	BSS	OVLAY2,B		I	5	0116	B P32 B		5
129	1	20	B	REDREC		I	4	0121	B 774		5
130	1	21	C	MAINX&17, @JOB@		I	7	0125	C 018 W05		5
131	1	22	BU	CMCTL		I	5	0132	B 157 /		5
132	1	23	CC	1		I	2	0137	F 1		5
133	1	24	MCW	80,280		I	7	0139	M 080 280		5
134	1	25	W			I	1	0146	2		5
135	1	26		N1	CC 1 IN REV 0.	I	2	0147	N 1		6
136	1	27	B	WRTREC		I	4	0149	B 721		6
137	1	28	B	REDREC		I	4	0153	B 774		6
138	1	29	CMCTL	C	MAINX&17, @CTL@	I	7	0157	C 018 W08		6
139	1	30	BU	FIND		I	5	0164	B 642 /		6
140	1	31	BCE	ROBIN, MAINX&23,1		I	8	0169	B 623 024 1		6
141	1	32	MN	MAINX&21, *&8		I	7	0177	D 022 191		6
142	1	33	BCE	ROBIN, @456@,		I	8	0184	B 623 W11		7
143	1	34	CHAIN	2		I				MACRO	
144			BCE			I	1	0192	B	GEN	7
145			BCE			I	1	0193	B	GEN	7
146	1	35	B	BLUE		I	4	0194	B 627		7
147	1	36	ORG	201		I		0201			

1401 AUTOCODER-PASS 2-PROCESS IOCS-MAIN 2 -VERSION 3 3722L PAGE 2

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	1	37	DA		1X132	I		0201	0332		
149	1	38			6,6	I		0206		FIELD	
150	1	39	DTFTAB	EQU	LABDTF-1	I		0349			
151	1	40	ORG		333	I			0333		
152	1	41	EITHER	B	NEXREC	I	4	0333	B 681		8
153	1	42	*								
154	1	43	*		CONTROL CARD INFORMATION						
155	1	44	*								
156	1	45	SPECL	DCW	@*@	I	1	0337			8
157	1	46	SYMMN	DCW	#3	I	3	0340			8
158	1	47	*		DTF MAJOR TABLE						
159	1	48	*								
160	1	49	*								
161	1	50		DCW	@,@	I	1	0341			8
162	1	51		DCW	@:@	I	1	0342			8
163	1	52		DCW	@:@	I	1	0343			8
164	1	53	FILENM	DCW	#6	I	6	0349			8
165	1	54	LABDTF	DCW	@:@	I	1	0350			9
166	1	55		DCW	@:@	I	1	0351			9
167	1	56		DCW	@:@	I	1	0352			9
168	1	57		DCW	@:@	I	1	0353			9
169	1	58		DCW	@:@	I	1	0354			9
170	1	59		DCW	@:@	I	1	0355			9
171	1	60		DCW	@:@	I	1	0356			9
172	1	61		DCW	@:@	I	1	0357			10
173	1	62		DCW	@:@	I	1	0358			10
174	1	63		DCW	@:@	I	1	0359			10
175	1	64		DCW	@:@	I	1	0360			10
176	1	65		DCW	@:@	I	1	0361			10
177	1	66		DCW	@:@	I	1	0362			10
178	1	67		DCW	@:@	I	1	0363			10
179	1	68		DCW	@:@	I	1	0364			11
180	1	69		DCW	@ ;@	I	4	0368			11
181	1	70		DCW	@ ;@	I	1	0369			11
182	1	71		DCW	@ ;@	I	4	0373			11
183	1	72		DCW	@ ;@	I	10	0383			11
184	1	73		DCW	@ ;@	I	10	0393			11
185	1	74		DCW	@ ;@	I	10	0403			12
186	1	75		DCW	@ ;@	I	1	0404			12
187	1	76		DCW	@ ;@	I	10	0414			12
188	1	77		DCW	@ ;@	I	10	0424			12
189	1	78		DCW	@ ;@	I	1	0425			12
190	1	79		DCW	@ ;@	I	4	0429			12
191	1	80		DCW	@ ;@	I	1	0430			12
192	1	81		DCW	@ ;@	I	1	0431			13
193	1	82		DCW	@ ;@	I	1	0432			13
194	1	83		DCW	@ ;@	I	1	0433			13
195	1	84		DCW	@ ;@	I	1	0434			13
196	1	85		DCW	@ ;@	I	3	0437			13
197	1	86		DCW	@ ;@	I	5	0442			13

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
198	1	87		DCW	@ ;@			I 10	0452		13
199	1	88		DCW	@ ;@ 104-108 NUMBER	35		SERIALNUM I 5	0457		14
200	1	89		DCW	@ ;@ 109-118	39		EX1ADDR I 10	0467		14
201	1	90		DCW	@ ;@ 119-128	40		EX2ADDR I 10	0477		14
202	1	91		DCW	@ ;@ 129-138	41		EX3ADDR I 10	0487		14
203	1	92		DCW	@ ;@ 139-148	42		EX4ADDR I 10	0497		15
204	1	93		DCW	@ ;@ 149-158	43		EX5ADDR I 10	0507		15
205	1	94		DCW	@ ;@ 159-168	44		EX6ADDR I 10	0517		15
206	1	95		DCW	@ ;@ 169-178	45		EX7ADDR I 10	0527		16
207	1	96		DCW	@ ;@ 179-188	46		EX8ADDR I 10	0537		16
208	1	97		DCW	@ ;@ 189-198	47		VARBUILD I 10	0547		16
209	1	98		DCW	@ ;@ 199 UNLOAD	37			I 1	0548	16
210	1	99		DCW	@ ;@ 100 NOREWD	38			I 1	0549	16
211	2	00		DCW	@ ;@ 9 201			OVERFLOW I 1	0550		16
212	2	01		DCW	@ ;@ 12 202				I 1	0551	16
213	2	02		DCW	@ ;@ 203-205 NUMBER			REELSEQP I 3	0554		17
214	2	03		DCW	@ ;@ 206			FORMCNTL I 1	0555		17
215	2	04		DCW	#9				I 9	0564	17
216	2	05		DCW	@ ;@ 216 ADDRESS			OVERFLOW I 1	0565		17
217	2	06		DCW	@ ;@				I 1	0566	17
218	2	07	ENDDTF	DCW	@ ;@				I 1	0567	17
219	2	08	*								
220	2	09	*		DIOCS MAJOR TABLE						
221	2	10	*								
222	2	11		DCW	@ ;@			I 1	0568		17
223	2	12	DIVIDE	EQU	*				I	0568	
224	2	13		DCW	@ ;@ 40 PAR OUT TAPEUSE			I 1	0569		18
225	2	14		DCW	@ ;@ 39 PAR INP TAPEUSE			I 1	0570		18
226	2	15		DCW	@ ;@ 38 PAR YES EXITS			I 1	0571		18
227	2	16	LABDIO	DCW	#9 DIOCSORG			I 9	0580		18
228	2	17		DCW	@ ;@ 5			I 1	0581		18
229	2	18		DCW	@ ;@ 6 OVERLAP FEATURES			I 1	0582		18
230	2	19		DCW	@ ;@ 7 TAPE IODEVICES			I 1	0583		18
231	2	20		DCW	@ ;@ 8 READER			I 1	0584		19
232	2	21		DCW	@ ;@ 9 PUNCH			I 1	0585		19
233	2	22		DCW	@ ;@ 10 PRINTER			I 1	0586		19
234	2	23		DCW	@ ;@ 11 STANDARD LABELDEF			I 1	0587		19
235	2	24		DCW	@ ;@ 12 NONSTANDARD			I 1	0588		19
236	2	25		DCW	@ ;@ 13 MIXED			I 1	0589		19
237	2	26		DCW	@ ;@ 14 CHECK			I 1	0590		19
238	2	27		DCW	@ ;@ 15 IDENT			I 1	0591		20
239	2	28		DCW	@ ;@ 16 TM			I 1	0592		20
240	2	29		DCW	@ ;@ 17 YES ALTDRIIVE			I 1	0593		20
241	2	30		DCW	@ ;@ 18 1 EXITS			I 1	0594		20
242	2	31		DCW	@ ;@ 19 2			I 1	0595		20
243	2	32		DCW	@ ;@ 20 3			I 1	0596		20
244	2	33		DCW	@ ;@ 21 4			I 1	0597		20
245	2	34		DCW	@ ;@ 22 5			I 1	0598		21
246	2	35		DCW	@ ;@ 23 6			I 1	0599		21
247	2	36		DCW	@ ;@ 24 7			I 1	0600		21

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
248	2	37		DCW	@ ;@ 25 8			I 1	0601		21
249	2	38		DCW	@ ;@ RDLIN LABELDEF			I 1	0602		21
250	2	39		DCW	@ ;@ 27 729 DRIVETYPE			I 1	0603		21
251	2	40		DCW	@ ;@ 28 7330			I 1	0604		21
252	2	41		DCW	@ ;@ 29 NORWD RWDOPTION			I 1	0605		22
253	2	42		DCW	@ ;@ 30 UNLOAD			I 1	0606		22
254	2	43		DCW	@ ;@ 31 TAPE, # READERERROR			I 1	0607		22
255	2	44		DCW	@ ;@ 32 SCAN			I 1	0608		22
256	2	45		DCW	@ ;@ 33 PROCESS			I 1	0609		22
257	2	46		DCW	@ ;@ CLEAN READERERROR			I 1	0610		22
258	2	47		DCW	@ ;@ 35 YES INPVAR			I 1	0611		22
259	2	48		DCW	@ ;@ 36 YES INPFKNO			I 1	0612		23
260	2	49		DCW	@ ;@ 37 RECORD COUNTS			I 1	0613		23
261	2	50		DCW	@ ;@ 38 HASH			I 1	0614		23
262	2	51		DCW	#5			I 5	0619		23
263	2	52		DCW	@ ;@ 39-44 CHECKPOINT			I 1	0620		23
264	2	53		DCW	@ ;@ 45 RELEASE FEATURES			I 1	0621		23
265	2	54	ENDDIO	DCW	@ ;@ 46 STORAGE			I 1	0622		23
266	2	55	*								
267	2	56	*								
268	2	57	ROBIN	S	SPECL			I 4	0623 S 337		24
269	2	575	BLUE	MCW	MAINX&25,NORDRL#1			I 7	0627 M 026 W12		24
270	2	58	THRU	B	WRTREC			I 4	0634 B 721		24
271	2	59		B	REDREC			I 4	0638 B 774		24
272	2	60	FIND	C	MAINX&19,KDIOCS			I 7	0642 C 020 V71		24
273	2	61		BE	GOTIT			I 5	0649 B 670 S		24
274	2	62	*								
275	2	63	*								
276	2	64	*		READ IN PHASE 2						
277	2	65	*								
278	2	66	*								
279	2	67		BCE	THRU,MAINX&5,*			I 8	0654 B 634 006 *		24
280	2	68	PREPS2	B	SAVCD			I 4	0662 B 098		25
281	2	69		B	PASS2			I 4	0666 B V06		25
282	2	70	GOTIT	MCW	@M@,LENGTH			I 7	0670 M W13 743		25
283	2	72	WHOM	B	WRTREC			I 4	0677 B 721		25
284	2	73	NEXREC	B	REDREC			I 4	0681 B 774		25
285	2	74	GAMMA	BCE	WHOM,MAINX&5,*			I 8	0685 B 677 006 *		25
286	2	75		C	MAINX&17,@DTF@			I 7	0693 C 018 W16		25
287	2	76		BE	DTFND			I 5	0700 B 713 S		26
288	2	77		B	WRTREC			I 4	0705 B 721		26
289	2	78		B	UPPER			I 4	0709 B 821		26
290	2	79	DTFND	B	SAVCD			I 4	0713 B 098		26
291	2	80		B	CRDOUT			I 4	0717 B J68		26
292	2	81	*								
293	2	82	*		WRITE ROUTINE						
294	2	83	*								
295	2	84	WRTREC	SBR	WRTXT&3			I 4	0721 H 761		26
296	2	85		MCW	LMAINX,LOPUT-1			I 7	0725 M 086 I97		26
297	2	86		SW	LOPUT			I 4	0732 , 198		27



SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
398	3	87	*		DIOSORG						
399	3	88	*								
400	3	89	DIOSB	SBR	INDEX1	I	4	1147	H 089		40
401	3	90		MCW	2&X1, INDEX1	I	7	1151	M 0'2 089		40
402	3	91		B	SCANX	I	4	1158	B N55		40
403	3	92		LCA	MAINX&18&X3, 0&X1	I	7	1162	L 0A9 0'0		40
404	3	93		B	NEKREC	I	4	1169	B 681		40
405	3	94	*								
406	3	95	*		READERROR						
407	3	96	*								
408	3	97	REASB	SBR	CHAIR&3, CHTAP	I	7	1173	H 066 /87		40
409	3	98		B	OPDSCN	I	4	1180	B 014		40
410	3	99		DCW	GREATB	I	3	1186	G27		41
411	4	00	CHTAP	C	OPDAR, @TAP@	I	7	1187	C W26 W37		41
412	4	01		BU	LSTPAR	I	5	1194	B 075 /		41
413	4	02		B	SCANX	I	4	1199	B N55		41
414	4	03		BCE	LSTPAR, MAINX&18&X3,	I	8	1203	B 075 0A9		41
415	4	04		MCW	MAINX&18&X3, DIOSB&31	I	7	1211	M 0A9 607		41
416	4	05		B	LSTPAR	I	4	1218	B 075		41
417	4	06	*								
418	4	07	*		COMBINATION READ/ WRITE ROUTINE						
419	4	08	*								
420	4	09	CTAPE	SBR	INDEX2	I	4	1222	H 094		42
421	4	10		SBR	ICONPR&3	I	4	1226	H T43		42
422	4	11		MCW	3&X2, INDEX2	I	7	1230	M 013 094		42
423	4	12		MCW	8&X2, ITAPEC&7	I	7	1237	M 018 T01		42
424	4	13		MCW	0&X2, IEORC&3	I	7	1244	M 010 T13		42
425	4	14		SW	ICOMPR&4	I	4	1251	, T19		42
426	4	15		MCW	7&X2, ICOMPR&6	I	7	1255	M 017 T21		43
427	4	16		A	@12@, ICOMPR&6	I	7	1262	A W39 T21		43
428	4	17		CW	ICOMPR&4	I	4	1269	) T19		43
429	4	18		MN	ITAPEC&3, IHALT&6	I	7	1273	D S97 U28		43
430	4	19		MN	ITAPEC&7, IHALT&6	I	7	1280	D T01 U28		43
431	4	20		MCW	@9@, IERRCT#1	I	7	1287	M W40 W41		43
432	4	21	ITAPEC	RT	0, 0	I	8	1294	M %U0 000 R		44
433	4	22		BCE	IOMET5, ITAPEC&7, W	I	8	1302	B T35 T01 W		44
434	4	23	IEORC	BEF	0	I	5	1310	B 000 K		44
435	4	24	ICOMPR	BCE	ITAPEC, 0, }	I	8	1315	B S94 000 }	GMARK	44
436	4	25		CHAIN	12	I				MACRO	
437				BCE		I	1	1323	B	GEN	44
438				BCE		I	1	1324	B	GEN	44
439				BCE		I	1	1325	B	GEN	44
440				BCE		I	1	1326	B	GEN	45
441				BCE		I	1	1327	B	GEN	45
442				BCE		I	1	1328	B	GEN	45
443				BCE		I	1	1329	B	GEN	45
444				BCE		I	1	1330	B	GEN	45
445				BCE		I	1	1331	B	GEN	45
446				BCE		I	1	1332	B	GEN	45
447				BCE		I	1	1333	B	GEN	46

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
448				BCE		I	1	1334	B	GEN	46
449	4	26	IOMET5	BER	IRWRED	I	5	1335	B T44 L		46
450	4	27	ICONPR	B	0	I	4	1340	B 000		46
451	4	28	IRWRED	S	@1@, IERRCT	I	7	1344	S W31 W41		46
452	4	29		MN	ITAPEC&3, *&4	I	7	1351	D S97 T61		46
453	4	30		BSP	0	I	5	1358	U %U0 B		46
454	4	31		BCE	ITROW, ITAPEC&7, W	I	8	1363	B T83 T01 W		47
455	4	32		BM	IHALT, IERRCT	I	8	1371	V U22 W41 K		47
456	4	33		B	ITAPEC	I	4	1379	B S94		47
457	4	34	ITROW	A	@1@, IERASC#2	I	7	1383	A W31 W43		47
458	4	35		SKP	6	I	5	1390	U %U6 E		47
459	4	36		BCE	IHALT, IERASC-1, 5	I	8	1395	B U07 W42 5		48
460	4	37		B	ITAPEC-7	I	4	1403	B S87		48
461	4	38	ICHALT	S	IERASC	I	4	1407	S W43		48
462	4	39		H	0, 202	I	7	1411	000 202		48
463	4	40		B	ITAPEC-7	I	4	1418	B S87		48
464	4	41	IHALT	H	0, 200	I	7	1422	. 000 200		48
465	4	42		BSS	ITAPEC-7, E	I	5	1429	B S87 E		48
466	4	43		MCW	ITAPEC&7, *&8	I	7	1434	M T01 U48		49
467	4	44		RT	0, 0	I	8	1441	M %U0 000 R		49
468	4	45		H	0, 201	I	7	1449	. 000 201		49
469	4	46		B	ICONPR	I	4	1456	B T40		49
470	4	47	PASSI	LCA	ENDDIO, ENDDTF	I	7	1460	L 622 567		49
471	4	48		LCA		I	1	1467	L		49
472	4	49		SBR	EITHER&3, DIFREC	I	7	1468	H 336 M06		50
473	4	50		MCW	&DTFTAB&X1, OPDFND&6	I	7	1475	M W46 093		50
474	4	51		LCA	186, LMAINX	I	7	1482	L 186 086		50
475	4	52		B	WRTREC	I	4	1489	B 721		50
476	4	53		B	DTFNM	I	4	1493	B L91		50
477	4	54	ALTRY	B	BYSS	I	4	1497	B C49		50
478	4	55		BSP	4	I	5	1501	U %U4 B		50
479	4	56	PASS2	RT	1, 3997	I	8	1506	M %U1 I97 R		51
480	4	57		RT	1, 3997	I	8	1514	M %U1 I97 R		51
481	4	58		SBR	TDF1&7, 341	I	7	1522	H P30 341		51
482	4	59		B	CTAPE	I	4	1529	B S22		51
483	4	60		NOP	TDF1	I	4	1533	N P23		51
484	4	61		B	OVLY3	I	4	1537	B 341		51
485	4	62	*								
486	4	63	NUMERC	SBR	INDEX1	I	4	1541	H 089		51
487	4	64		MCW	2&X1, INDEX1	I	7	1545	M 0'2 089		52
488	4	65		SW	MAINX&20	I	4	1552	, 021		52
489	4	66		MCW	MAINX&20, DTFTAB&X1	I	7	1556	M 021 309		52
490	4	67		B	DIFREC	I	4	1563	B M06		52
491	4	68	KDIOCS	DCW	@DIOCS@	I	5	1571			52
492	4	69	BLOBR	B	SCANX	I	4	1572	B N55		52
493	4	70		A	MAINX&18&X3, BLOWA-1	I	7	1576	A 0A9 W01		52
494	4	71		LCA	BLOWA-1, DTFTAB&24	I	7	1583	L W01 373		53
495	4	72		S	BLOWA	I	4	1590	S W02		53
496	4	73		B	EITHER	I	4	1594	B 333		53
497	4	74	BLOWA	DCW	&00000	I	5	1602			53

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
498	4	75		LTORG	*	I			1603		
				DCW	@JOB@	I	3	1605		LIT	53
				DCW	@CTL@	I	3	1608		LIT	53
				DCW	@456@	I	3	1611		LIT	53
			NORDRL	DCW	#01	I	1	1612		AREA	54
				DCW	@M@	I	1	1613		LIT	54
				DCW	@DTF@	I	3	1616		LIT	54
				DCW	@W@	I	1	1617		LIT	54
			SCNSWI	DCW	#01	I	1	1618		AREA	54
				DCW	@7@	I	1	1619		LIT	54
				DCW	@\$@	I	1	1620		LIT	54
				DCW	@ @	I	3	1623		LIT	55
			OPDARI	DCW	#03	I	3	1626		AREA	55
				DCW	@ @	I	2	1628		LIT	55
				DCW	@52@	I	2	1630		LIT	55
				DCW	@1@	I	1	1631		LIT	55
				DCW	@YES@	I	3	1634		LIT	55
				DCW	@TAP@	I	3	1637		LIT	55
				DCW	@12@	I	2	1639		LIT	56
				DCW	@9@	I	1	1640		LIT	56
			IERRCT	DCW	#01	I	1	1641		AREA	56
			IERASC	DCW	#02	I	2	1643		AREA	56
				DCW	&DTFTAB&X	I	3	1646	3U9	ADCON	56
499	4	76		ORG	1649	I			1649		
500	4	77	OVER	DCW	@}@	I	1	1649		GMARK	57
501	4	78		EX		I			B 000		58

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
502	4	79		JOB	1401 AUTOCODER-PASS 2-PROCESS IOCS-MAIN 1 -VERSION 3	I					
503	4	80		ORG	1650	I			1650		
504	4	81		SFX	I	I					
505	4	82		*							
506	4	83		*	DTF TABLE OF BRANCHES						
507	4	84		*							
508	4	85	DTFINT	SBR	INDEX3,DTFLAB	I	7	1650	H 099 H03		61
509	4	86		SBR	CHAIR&3,LSTPAR	I	7	1657	H 066 075		61
510	4	87		BCE	DIFREC,MAINX&20,	I	8	1664	B M06 021		61
511	4	88		CW	SCNSW	I	4	1672	) W18		61
512	4	89		C	MAINX&6,@EX@	I	7	1676	C 007 H48		61
513	4	90		BE	EXIRB	I	5	1683	B 131 S		61
514	4	91		S	INDEX2&1	I	4	1688	S 095		62
515	4	92	SEEK	C	MAINX&7,0&X3	I	7	1692	C 008 070		62
516	4	93		SBR	INDEX3	I	4	1699	H 099		62
517	4	94		BE	AGREE	I	5	1703	B 235 S		62
518	4	95		BCE	DIFREC,0&X3,@	I	8	1708	B M06 070 @		62
519	4	96		A	@7@,INDEX2	I	7	1716	A H49 094		62
520	4	97		B	SEEK	I	4	1723	B W92		62
521	4	98	DTFBR	B	OPDSCN	I	4	1727	B 014		63
522	4	99		DCW	REWXX	I	3	1733	E00		63
523	5	00		B	ACTUAL	I	4	1734	B 189		63
524	5	01		DCW	&DTFTAB&205	I	3	1740	554		63
525	5	02		B	ACTUAL	I	4	1741	B 189		63
526	5	03		DCW	&DTFTAB&108	I	3	1747	457		63
527	5	04		B	HEARB	I	4	1748	B N37		63
528	5	05		DCW	&DTFTAB&103	I	3	1754	452		64
529	5	06		B	OPDSCN	I	4	1755	B 014		64
530	5	07		DCW	&CHEXZ	I	3	1761	D87		64
531	5	08		B	OPDSCN	I	4	1762	B 014		64
532	5	09		DCW	&TYPXZ	I	3	1768	D74		64
533	5	10		B	TOTRB	I	4	1769	B 281		64
534	5	11		DCW	#3	I	3	1775			64
535	5	12		B	ACTUAL	I	4	1776	B 189		65
536	5	13		DCW	&DTFTAB&75	I	3	1782	424		65
537	5	14		B	ACTUAL	I	4	1783	B 189		65
538	5	15		DCW	&DTFTAB&65	I	3	1789	414		65
539	5	16		B	INDRB	I	4	1790	B 171		65
540	5	17		DCW	#3	I	3	1796			65
541	5	18		B	ACTUAL	I	4	1797	B 189		65
542	5	19		DCW	&DTFTAB&54	I	3	1803	403		66
543	5	20		B	IOARB	I	4	1804	B 247		66
544	5	21		DCW	&DTFTAB&44	I	3	1810	393		66
545	5	22		B	BLOBR	I	4	1811	B V72		66
546	5	23		DCW	&DTFTAB&24	I	3	1817	373		66
547	5	24		B	NUMERC	I	4	1818	B V41		66
548	5	25		DCW	@020@	I	3	1824			66
549	5	26		B	ACTUAL	I	4	1825	B 189		67
550	5	27		DCW	&DTFTAB&19	I	3	1831	368		67
551	5	28		B	OPDSCN	I	4	1832	B 014		67

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
552	5	29		DCW	&RECYZ			I 3 1838	D55		67
553	5	30		B	NUMERC			I 4 1839	B V41		67
554	5	31		DCW	@011@			I 3 1845			67
555	5	32		B	NUMERC			I 4 1846	B V41		67
556	5	33		DCW	@010@			I 3 1852			68
557	5	34		B	OPDSCN			I 4 1853	B 014		68
558	5	35		DCW	&MODXZ			I 3 1859	D30		68
559	5	36		B	OPDSCN			I 4 1860	B 014		68
560	5	37		DCW	&FILXZ			I 3 1866	D23		68
561	5	38		B	NUMERC			I 4 1867	B V41		68
562	5	39		DCW	@009@			I 3 1873			68
563	5	40		B	ACTUAL			I 4 1874	B 189		69
564	5	41		DCW	DTFTAB&198			I 3 1880	547		69
565	5	42		B	ACTSCN			I 4 1881	B /13		69
566	5	43		DCW	&DTFTAB-7			I 3 1887	342		69
567	5	44		B	NUMERC			I 4 1888	B V41		69
568	5	45		DCW	@206@			I 3 1894			69
569	5	46		B	OVERB			I 4 1895	B 106		69
570	5	47		DCW	#1			I 1 1899			70
571	5	48		ORG	1900			I	1900		
572	5	49		RTW	1,1			I 8 1900	L &U1 001 R		70
573	5	50		BER	HALT			I 5 1908	B Z21 L		70
574	5	51		CW	OVER			I 4 1913	) W49		70
575	5	52		B	OTHER			I 4 1917	B 101		70
576	5	53	HALT	BSP	1			I 5 1921	U &U1 B		70
577	5	54		NOP	288			I 4 1926	N 288		70
578	5	55		H				I 1 1930	.		71
579	5	56		B	1900			I 4 1931	B 200		71
580	5	57		*							
581	5	58	AGREE	S	INDEX3&1			I 4 1935	S 100		71
582	5	59		SW	MAINX&20			I 4 1939	, 021		71
583	5	60		B	DTFBR&X2			I 4 1943	B XK7		71
584	5	61		*	IOAREAS						
585	5	62		*							
586	5	63	IOARB	B	SCANX			I 4 1947	B N55		71
587	5	64		LCA	MAINX&18&X3,DTFTAB&44			I 7 1951	L 0A9 393		71
588	5	65		BW	EITHER,SCNSW			I 8 1958	V 333 W18 1		72
589	5	66		B	SCANX			I 4 1966	B N55		72
590	5	67		LCA	MAINX&18&X3,DTFTAB&34			I 7 1970	L 0A9 383		72
591	5	68		B	EITHER			I 4 1977	B 333		72
592	5	69		*							
593	5	70		*	TOTALS						
594	5	71		*							
595	5	72	TOTRB	SBR	CHAIR&3,TOTJK			I 7 1981	H 066 295		72
596	5	73		B	OPDSCN			I 4 1988	B 014		72
597	5	74		DCW	&TOTXZ			I 3 1994	E20		72
598	5	75	TOTJK	LCA	MAINX&18&X3,DTFTAB&80			I 7 1995	L 0A9 429		73
599	5	76		B	LSTPAR			I 4 2002	B 075		73
600	5	77	OVERB	SBR	CHAIR&3,OVEJK			I 7 2006	H 066 120		73
601	5	78		B	OPDSCN			I 4 2013	B 014		73

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
602	5	79		DCW	&OVEXZ			I 3 2019	E13		73
603	5	80	OVEJK	LCA	MAINX&18&X3,DTFTAB&216			I 7 2020	L 0A9 565		73
604	5	81		B	LSTPAR			I 4 2027	B 075		73
605	5	82		*							
606	5	83		*	EXITS ROUTINE						
607	5	84		*							
608	5	85	EXIRB	MCW	@1 8@,INDEX2			I 7 2031	M H52 094		74
609	5	86		MN	MAINX&7,INDEX2-1			I 7 2038	D 008 093		74
610	5	87		S	INDEX3&1			I 4 2045	S 100		74
611	5	88		B	SCANX			I 4 2049	B N55		74
612	5	89		LCA	MAINX&18&X3,DTFTAB&X2			I 7 2053	L 0A9 3M9		74
613	5	90		LCA	@\$,DTFTAB-6			I 7 2060	L H53 343		74
614	5	91		B	DIFREC			I 4 2067	B M06		75
615	5	92		*							
616	5	93		*	INDEX REGISTER						
617	5	94		*							
618	5	95	INDRB	MN	MAINX&21,DTFTAB&55			I 7 2071	D 022 404		75
619	5	96		MZ	@ @,DTFTAB&55			I 7 2078	Y H54 404		75
620	5	97		B	DIFREC			I 4 2085	B M06		75
621	5	98		*							
622	5	99		*	LOAD PARAMETERS - ACTUAL						
623	6	00		*							
624	6	01	ACTUAL	SBR	INDEX1			I 4 2089	H 089		75
625	6	015		BW	EITHER,SCNSW			I 8 2093	V 333 W18 1		75
626	6	02		MCW	2&X1,INDEX1			I 7 2101	M 0'2 089		76
627	6	03	SEARCH	B	SCANX			I 4 2108	B N55		76
628	6	04		LCA	MAINX&18&X3,0&X1			I 7 2112	L 0A9 0'0		76
629	6	05		SBR	INDEX1			I 4 2119	H 089		76
630	6	06		BW	DIFREC,SCNSW			I 8 2123	V M06 W18 1		76
631	6	07		B	SEARCH			I 4 2131	B J08		76
632	6	08	NEWVRT	SBR	WRTEXT&3			I 4 2135	H 761		76
633	6	09		MCW	LMAINX,LOPUT-1			I 7 2139	M 086 I97		77
634	6	10		SW	OUTPT&80			I 4 2146	, 192		77
635	6	11		MCW	GMWMRK,OUTPT&80			I 7 2150	M 773 I92		77
636	6	12	LONG	MCW	@*@,OUTPT&73			I 7 2157	M H55 I85		77
637	6	13		B	SHORT			I 4 2164	B 750		77
638	6	14		*							
639	6	15		*	OUTPUT MACRO STATEMENT FOR DIOC						
640	6	16		*							
641	6	17	CRDOUT	MN	@5@,TDF6&4			I 7 2168	D H56 768		77
642	6	18		CS	LMAINX			I 4 2175	/ 086		78
643	6	19		MCW	@55555@,MAINX&19			I 7 2179	M H61 020		78
644	6	20		SBR	INDEX3,ENDDIO			I 7 2186	H 099 622		78
645	6	21		B	GOOD&4			I 4 2193	B K01		78
646	6	22	GOOD	CS	LMAINX			I 4 2197	/ 086		78
647	6	23		SW	1			I 4 2201	, 001		78
648	6	24		SBR	INDEX1,MAINX&20			I 7 2205	H 089 021		78
649	6	25		MCW	@*@,MAINX&72			I 7 2212	M H62 073		79
650	6	26	LODPAR	MCW	0&X3,WKAREA-1			I 7 2219	M 070 L89		79
651	6	27		SBR	INDEX2			I 4 2226	H 094		79

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
652	6	28		MCW	INDEX1,SAVXL1#3	I	7	2230	M 089 H65		79
653	6	29		MCM	1&X2,0&X1	I	7	2237	P 011 0'0		79
654	6	30		SBR	INDEX1	I	4	2244	H 089		79
655	6	31		MCW	@, @,0&X1	I	7	2248	M H67 0'0		80
656	6	32		BCE	CONTIN,MAINX&72,'	I	8	2255	B L01 073		80
657	6	33		MCW	SAVXL1,INDEX1	I	7	2263	M H65 089		80
658	6	34		SW	0&X1	I	4	2270	, 0'0		80
659	6	35		MCW	@ @,MAINX&79	I	7	2274	M H69 080		80
660	6	36		MCW	MAINX&78	I	4	2281	M 079		80
661	6	37		CW	0&X1	I	4	2285	) 0'0		81
662	6	38		B	NEWWRIT	I	4	2289	B J35		81
663	6	39		CW	OUTPT&80	I	4	2293	) 192		81
664	6	40		B	GOOD	I	4	2297	B 397		81
665	6	41	CONTIN	MCW	0&X3,0&X3	I	7	2301	M 070 070		81
666	6	42		SBR	INDEX3	I	4	2308	H 099		81
667	6	43	COMBLK	C	0&X3,@ @	I	7	2312	C 070 H54		81
668	6	44		SAR	INDEX3	I	4	2319	Q 099		82
669	6	45		BE	COMBLK	I	5	2323	B L12 S		82
670	6	46		A	@1@,INDEX3	I	7	2328	A H70 099		82
671	6	47		B	ALLDIO,0&X3,,	I	8	2335	B L47 070		82
672	6	48		B	LODPAR	I	4	2343	B K19		82
673	6	49	ALLDIO	MCW	@ @,0&X1	I	7	2347	M H69 0'0		82
674	6	50		MCW	@ @,MAINX&72	I	7	2354	M H54 073		83
675	6	51		B	NEWWRIT	I	4	2361	B J35		83
676	6	52		CW	OUTPT&80	I	4	2365	) 192		83
677	6	53		MN	@6@,TDF6&4	I	7	2369	D H71 768		83
678	6	54	BETTER	B	PASSI	I	4	2376	B U60		83
679	6	55	WKAREA	DCW	@	I	11	2390			83
680	6	56	DTFNM	S	INDEX3&1	I	4	2391	S 100		84
681	6	57		B	SCANX	I	4	2395	B N55		84
682	6	58		LCA	MAINX&18&X3,FILENM	I	7	2399	L 0A9 349		84
683	6	59	DIFREC	B	REDREC	I	4	2406	B 774		84
684	6	60	DELTA	BCE	ALPHA,MAINX&5,*	I	8	2410	B M30 006	*	84
685	6	61		C	MAINX&19,@ @	I	7	2418	C 020 H76		84
686	6	62		BU	DTFOUT	I	5	2425	B M46 /		84
687	6	63	ALPHA	B	WRTRC	I	4	2430	B 721		85
688	6	64		BCE	DIFREC,MAINX&5,*	I	8	2434	B M06 006	*	85
689	6	65		B	DTFINT	I	4	2442	B W50		85
690	6	66	DTFOUT	MN	@5@,TDF6&4	I	7	2446	D H56 768		85
691	6	67		SBR	INDEX3,ENDDTF	I	7	2453	H 099 567		85
692	6	68		B	SAVCD	I	4	2460	B 098		85
693	6	69		SBR	WALK&3,ALTYB	I	7	2464	H Q99 097		86
694	6	70		C	MAINX&17,@DTF@	I	7	2471	C 018 H79		86
695	6	71		CS	LMAINX	I	4	2478	/ 086		86
696	6	72		MCW	@33333@,MAINX&19	I	7	2482	M H84 020		86
697	6	73		BE	SETDSW	I	5	2489	B N05 S		86
698	6	74	RIVER	SBR	BETTER&3,PASS2	I	7	2494	H L79 V06		86
699	6	75		SBR	GOOD&4	I	4	2501	B K01		87
700	6	76	SETDSW	SBR	BETTER&3,RNDTF	I	7	2505	H L79 N16		87
701	6	77		B	GOOD&4	I	4	2512	B K01		87

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
702	6	78	RNDTF	RTW	1,341	I	8	2516	L &U1 341 R		87
703	6	79		BSP	1	I	5	2524	U &U1 B		87
704	6	80		CW	DTFGM	I	4	2529	) 568		87
705	6	81		B	PASSI	I	4	2533	B U60		87
706	6	82	HEARB	B	SCANX	I	4	2537	B N55		88
707	6	83		MCW	MAINX&18&X3,DTFTAB&103	I	7	2541	M 0A9 452		88
708	6	84		B	ACTUAL	I	4	2548	B 189		88
709	6	85		DCW	&DTFTAB&93	I	3	2554	442		88
710	6	86	*								
711	6	87	*		SCAN FOR A COMMA OR TWO BLANKS						
712	6	88	*								
713	6	89	SCANX	SBR	CLUBS&3	I	4	2555	H 013		88
714	6	90	SCANL	SW	MAINX&20	I	4	2559	C 021		88
715	6	91		C	MAINX&21&X3,@ @	I	7	2563	C 0B2 H69		88
716	6	92		A	@1@,INDEX3	I	7	2570	A H70 099		89
717	6	93		BE	SETIT	I	5	2577	B 002 S		89
718	6	94		BCE	SETWMS,MAINX&19&X3,,	I	8	2582	B 006 0B0	,	89
719	6	95		C	INDEX3,@52@	I	7	2590	C 099 H86		89
720	6	96		BU	SCANL	I	5	2597	B N59 /		89
721	6	97	SETIT	SW	SCNSW	I	4	2602	, W18		89
722	6	98	SETWMS	SW	MAINX&20&X3	I	4	2606	, 0B1		90
723	6	99	CLUBS	B	0	I	4	2610	B 000		90
724	7	00	*								
725	7	01	*		SCAN OPERAND TABLE						
726	7	02	*								
727	7	03	*								
728	7	04	OPDSCN	SBR	INDEX2	I	4	2614	H 094		90
729	7	05		MCW	2&X2,SAVX2	I	7	2618	M 012 H89		90
730	7	06	OPDRTN	B	NEWSCN	I	4	2625	B '06		90
731	7	07		MCW	SAVX2#3,INDEX2	I	7	2629	M H89 094		90
732	7	08	SEEKOP	C	OPDAR,0&X2	I	7	2636	C W26 010		90
733	7	09		SBR	INDEX2	I	4	2643	H 094		91
734	7	10		MCW	0&X2,INDEX1	I	7	2647	M 010 089		91
735	7	11		SAR	INDEX2	I	4	2654	Q 094		91
736	7	12		BE	OPDFND	I	5	2658	B 087 S		91
737	7	13	CHAIR	BCE	LSTPAR,0&X2,@	I	8	2663	B 075 010 @		91
738	7	14		B	SEEKOP	I	4	2671	B 036		91
739	7	15	LSTPAR	BW	EITHER,SCNSW	I	8	2675	V 333 W18 1		92
740	7	16		B	OPDRTN	I	4	2683	B 025		92
741	7	17	OPDFND	LCA	@\$@,DIOCSB&X1	I	7	2687	L H53 5X6		92
742	7	18		B	LSTPAR	I	4	2694	B 075		92
743	7	19	SAVCD	SBR	SVCDX&3	I	4	2698	H P20		92
744	7	20		CS	186	I	4	2702	/ 186		92
745	7	21		SW	101	I	4	2706	, 101		92
746	7	22		MCW	LMAINX,186	I	7	2710	M 086 186		93
747	7	23	SVCDX	B	0	I	4	2717	B 000		93
748	7	24	*								
749	7	25	*		READ IN OVERLAY TWO						
750	7	26	*								
751	7	27	TDF1	DCW	#3	I	3	2723			93

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
752	7	28		RTW	1,101	I	8	2724	L %U1 101 R		93
753	7	29	OVLAY2	SW	GMOVL2	I	4	2732	, 332		93
754	7	30		MCW	GMMMRK,GMOVL2	I	7	2736	M 773 332		93
755	7	31		RT	1,101	I	8	2743	M %U1 101 R		94
756	7	32		B	CTAPE	I	4	2751	B S22		94
757	7	33		NOP	TDF1	I	4	2755	N P23		94
758	7	34		B	PUNCH	I	4	2759	B 101		94
759	7	35	*								
760	7	36	*		ALTER PART OF IOCS						
761	7	37	*								
762	7	38	ALTER	B	CTAPE	I	4	2763	B S22		94
763	7	39		NOP	TDF4A	I	4	2767	N A35		94
764	7	40		MCW	OUTPT%7,SYMM	I	7	2771	M 119 340		94
765	7	41		BSS	OUTCL,C	I	5	2778	B 119 C		95
766	7	42		BSP	4	I	5	2783	U %U4 B		95
767	7	43		SBR	RIVER&6,TUNEL	I	7	2788	H N00 Q88		95
768	7	44		SBR	PREPS2&3	I	4	2795	H 665		95
769	7	45		R		I	1	2799	1		95
770	7	46		C	MAINX&17,@ALT@	I	7	2800	C 018 H92		95
771	7	47		BU	WALK	I	5	2807	B Q96 /		95
772	7	48	HOMAL	B	SAVXX	I	4	2812	B C19		96
773	7	49		B	PACKX	I	4	2816	B R43		96
774	7	50	NOALTB	B	CTAPE	I	4	2820	B S22		96
775	7	51		NOP	TDF4A	I	4	2824	N A35		96
776	7	52		C	OUTPT&83,HLDA1	I	7	2828	C 195 I02		96
777	7	53		BE	CHECK	I	5	2835	B ?05 S		96
778	7	54	PROPRE	C	OUTPT&17,@JOB@	I	7	2840	C 129 H95		96
779	7	55	ALTS1	BU	ALTS2E	I	5	2847	B Q60 /		97
780	7	56		B	NOPJB	I	4	2852	B 205		97
781	7	57		B	NOTER	I	4	2856	B 220		97
782	7	58	ALTS2E	C	OUTPT&17,@CTL@	I	7	2860	C 129 H98		97
783	7	59	ALTS2	BE	OUTCL	I	5	2867	B 119 S		97
784	7	60	SOLVED	MCW	OUTPT&85,LMAINX	I	7	2872	M 197 086		97
785	7	61		SW	READS	I	4	2879	, 110		97
786	7	62	ALTIO	BSS	REGEN,G	I	5	2883	B A44 G		98
787	7	63	TUNEL	BW	BSPT4,READS	I	8	2888	V R04 I10 1		98
788	7	64	WALK	B	SAVCD	I	4	2896	B 098		98
789	7	65		B	ALTBY	I	4	2900	B U97		98
790	7	66	BSPT4	BW	REGL,XCARDS	I	8	2904	V R27 I09 1		98
791	7	67		MN	@5@,TDF6&4	I	7	2912	D H56 768		98
792	7	68		B	NEWVRT	I	4	2919	B J35		99
793	7	69		B	REGL&5	I	4	2923	B R32		99
794	7	70	REGL	BSP	4	I	5	2927	U %U4 B		99
795	7	71		LCA	AREASV,186	I	7	2932	L 331 186		99
796	7	72		B	ALTBY	I	4	2939	B U97		99
797	7	73	PACKX	SBR	PACKS&3	I	4	2943	H ?04		99
798	7	74		SW	BALTR	I	4	2947	, I03		99
799	7	75		CW	SCNSW	I	4	2951	) W18		100
800	7	76		C	INDEX3&1	I	4	2955	S 100		100
801	7	77		B	SCANX	I	4	2959	B N55		100

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
802	7	78		ZA	MAINX&18&X3,HLDA1#4	I	7	2963	? 0A9 I02		100
803	7	79		BW	PARKS,SCNSW	I	8	2970	V R93 W18 1		100
804	7	80		B	SCANX	I	4	2978	B N55		100
805	7	81		ZA	MAINX&18&X3,HLDB	I	7	2982	? 0A9 I07		100
806	7	82		CW	BALTR#1	I	4	2989	) I03		101
807	7	83	PARKS	CS	LMAINX	I	4	2993	/ 086		101
808	7	84		SW	1	I	4	2997	, 001		101
809	7	85	PACKS	B	0	I	4	3001	B 000		101
810	7	86	*								
811	7	87	*		ALTER NUMBER COMPARES EQUAL						
812	7	88	*								
813	7	89	CHECK	BW	WRPAL,BALTR	I	8	3005	V ?37 I03 1		101
814	7	90	DBLAL	C	OUTPT&83,HLDB#4	I	7	3013	C 195 I07		101
815	7	91		BE	WRPAL	I	5	3020	B ?37 S		101
816	7	92		B	CTAPE	I	4	3025	B S22		102
817	7	93		NOP	TDF4A	I	4	3029	N A35		102
818	7	94		B	DBLAL	I	4	3033	B ?13		102
819	7	95	WRPAL	BLC	TUNEL	I	5	3037	B Q88 A		102
820	7	96		R		I	1	3042	1		102
821	7	97		C	MAINX&17,@ALT@	I	7	3043	C 018 H92		102
822	7	98		BE	HOMAL	I	5	3050	B Q12 S		102
823	7	99		C	MAINX&17,@JOB@	I	7	3055	C 018 H95		103
824	8	00	ALTS3	BU	ALTS4E	I	5	3062	B ?75 /		103
825	8	01		B	NOPJB	I	4	3067	B 205		103
826	8	02		B	RSOLV	I	4	3071	B 175		103
827	8	03	ALTS4E	C	MAINX&17,@CTL@	I	7	3075	C 018 H98		103
828	8	04	ALTS4	BE	CRDCL	I	5	3082	B 138 S		103
829	8	05		BW	TUFF,BALTR	I	8	3087	V A03 I03 1		104
830	8	06		CW	READS	I	4	3095	) I10		104
831	8	07		B	ALTIO	I	4	3099	B Q83		104
832	8	08	TUFF	B	SAVXX	I	4	3103	B C19		104
833	8	09		CW	XCARDS	I	4	3107	) I09		104
834	8	101		SBR	RSOLV&7,SOLVED	I	7	3111	H 182 Q72		104
835	8	102		SBR	CHUCK&3	I	4	3118	H 234		104
836	8	10		MCW	@N@,NOSOL	I	7	3122	M I08 131		105
837	8	11		B	PROPRE	I	4	3129	B Q40		105
838	8	12	*								
839	8	13	*		TDF FOR READING 86 CHARACTER RECORDS						
840	8	14	*								
841	8	15	TDF4A	DCW	TUNEL	I	3	3135	Q88		105
842	8	16		RT	4,OUTPT	I	8	3136	M %U4 I12 R		105
843	8	17	*								
844	8	18	*		REGENERATION OF DIOCS AND DTF						
845	8	19	*								
846	8	20	REGEN	BW	ORDN,XCARDS	I	8	3144	V A85 I09 1		105
847	8	21		SBR	NEWREC&3,SPCAS	I	7	3152	H 684 A74		105
848	8	22		SBR	ALDIO-1,SOFT	I	7	3159	H B02 B68		106
849	8	23		CW	READS	I	4	3166	) I10		106
850	8	24		B	FINN	I	4	3170	B 642		106
851	8	25	SPCAS	MCW	AREASV,LMAINX	I	7	3174	M 331 086		106





SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
952	9	26		DCW	@@@	I	1	3521			119
953	9	27		DCW	-MINUS3&4	I	3	3524	I9C		119
954	9	28		DCW	@OUT@	I	3	3527			120
955	9	29		DCW	-MINUS2&4	I	3	3530	I9D		120
956	9	30	TAPT@	DCW	@INP@	I	3	3533			120
957	9	31		DCW	@@@	I	1	3534			120
958	9	32		DCW	@045@	I	3	3537			120
959	9	33		DCW	@REL@	I	3	3540			120
960	9	34		DCW	@046@	I	3	3543			120
961	9	35		DCW	@STO@	I	3	3546			121
962	9	36		DCW	@006@	I	3	3549			121
963	9	37	FEAT@	DCW	@OVT@	I	3	3552	OVERLAP		121
964	9	38		DCW	@@@	I	1	3553			121
965	9	39		DCW	@007@	I	3	3556			121
966	9	40		DCW	@TAP@	I	3	3559	TAPE		121
967	9	41		DCW	@008@	I	3	3562			121
968	9	42		DCW	@REA@	I	3	3565	READER		122
969	9	43		DCW	@009@	I	3	3568			122
970	9	44		DCW	@PUN@	I	3	3571	PUNCH		122
971	9	45		DCW	@010@	I	3	3574			122
972	9	46	IODT@	DCW	@PRI@	I	3	3577	PRINTER		122
973	9	47		DCW	@@@	I	1	3578			122
974	9	48		DCW	@011@	I	3	3581			122
975	9	49		DCW	@STA@	I	3	3584	STANDARD		123
976	9	50		DCW	@012@	I	3	3587			123
977	9	51		DCW	@NON@	I	3	3590	NONSTANDARD		123
978	9	52		DCW	@013@	I	3	3593			123
979	9	53		DCW	@MIX@	I	3	3596	MIXED		123
980	9	54		DCW	@014@	I	3	3599			123
981	9	55		DCW	@CHE@	I	3	3602	CHECK		123
982	9	56		DCW	@015@	I	3	3605			124
983	9	57		DCW	@IDE@	I	3	3608	IDENT		124
984	9	58		DCW	@026@	I	3	3611			124
985	9	59		DCW	@RDL@	I	3	3614			124
986	9	60		DCW	@016@	I	3	3617			124
987	9	61	LABT@	DCW	@TM @	I	3	3620	TM		124
988	9	62		DCW	@@@	I	1	3621			124
989	9	63		DCW	@018@	I	3	3624			125
990	9	64		DCW	@1 @	I	3	3627	EXIT 1		125
991	9	65		DCW	@019@	I	3	3630			125
992	9	66		DCW	@2 @	I	3	3633	EXIT 2		125
993	9	67		DCW	@020@	I	3	3636			125
994	9	68		DCW	@3 @	I	3	3639	EXIT 3		125
995	9	69		DCW	@021@	I	3	3642			125
996	9	70		DCW	@4 @	I	3	3645	EXIT 4		126
997	9	71		DCW	@022@	I	3	3648			126
998	9	72		DCW	@5 @	I	3	3651	EXIT 5		126
999	9	73		DCW	@023@	I	3	3654			126
1000	9	74		DCW	@6 @	I	3	3657	EXIT 6		126
1001	9	75		DCW	@024@	I	3	3660			126

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1002	9	76		DCW	@7 @	I	3	3663	EXIT 7		126
1003	9	77		DCW	@025@	I	3	3666			127
1004	9	78	EXIT@	DCW	@8 @	I	3	3669	EXIT 8		127
1005	9	79		DCW	@@@	I	1	3670			127
1006	9	80		DCW	@027@	I	3	3673			127
1007	9	81		DCW	@729@	I	3	3676	729		127
1008	9	82		DCW	@028@	I	3	3679			127
1009	9	83	DRIT@	DCW	@733@	I	3	3682	7330		127
1010	9	84		DCW	@@@	I	1	3683			128
1011	9	85		DCW	@029@	I	3	3686			128
1012	9	86		DCW	@NOR@	I	3	3689	NO RWED		128
1013	9	87		DCW	@030@	I	3	3692			128
1014	9	88	RWDT@	DCW	@UNL@	I	3	3695	UNLOAD		128
1015	9	89		DCW	@@@	I	1	3696			128
1016	9	90		DCW	@037@	I	3	3699			128
1017	9	91		DCW	@REC@	I	3	3702	RECORD		129
1018	9	92		DCW	@038@	I	3	3705			129
1019	9	93	COU@	DCW	@HAS@	I	3	3708	HASH		129
1020	9	94		DCW	@@@	I	1	3709			129
1021	9	95		DCW	@034@	I	3	3712			129
1022	9	96		DCW	@CLE@	I	3	3715			129
1023	9	97		DCW	@033@	I	3	3718			129
1024	9	98		DCW	@PRO@	I	3	3721			130
1025	9	99		DCW	@032@	I	3	3724			130
1026	10	00	REAT@	DCW	@SCA@	I	3	3727			130
1027	10	01	*								
1028	10	02	*		DTF TABLE OF LABELS						
1029	10	03	*								
1030	10	04		DCW	@@@	I	1	3728			130
1031	10	05		DCW	@OVE@	I	3	3731	OVERFLOW		130
1032	10	06		DCW	@FOR@	I	3	3734	FORMSCTL		130
1033	10	07		DCW	@COB@	I	3	3737	COBOL		130
1034	10	08		DCW	@VAR@	I	3	3740	VARBUILD		131
1035	10	09		DCW	@CHA@	I	3	3743	CHANDRIVE		131
1036	10	10		DCW	@FLL@	I	3	3746	FILETYPE		131
1037	10	11		DCW	@MOD@	I	3	3749	MODEPAR		131
1038	10	12		DCW	@CAR@	I	3	3752	CARDPROC		131
1039	10	13		DCW	@ALT@	I	3	3755	ALTTAPE		131
1040	10	14		DCW	@REC@	I	3	3758	RECFORM		131
1041	10	15		DCW	@SIZ@	I	3	3761	SIZERC		132
1042	10	16		DCW	@PAD@	I	3	3764	PADDING		132
1043	10	17		DCW	@BLO@	I	3	3767	BLOCKSIZE		132
1044	10	18		DCW	@IOA@	I	3	3770	IOAREAS		132
1045	10	19		DCW	@WRD@	I	3	3773	WORKAREA		132
1046	10	20		DCW	@IND@	I	3	3776	INDEXREC		132
1047	10	21		DCW	@EOF@	I	3	3779	EOFADDR		132
1048	10	22		DCW	@WLR@	I	3	3782	WLRADDR		133
1049	10	23		DCW	@TOT@	I	3	3785	TOTALS		133
1050	10	24		DCW	@TYP@	I	3	3788	TYPELABEL		133
1051	10	25		DCW	@CHE@	I	3	3791	CHECKLABEL		133

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1052	10	26		DCW	@HEA@				HEADER		133
1053	10	27		DCW	@SER@				SERIALNUM		133
1054	10	28		DCW	@REE@				REELSER		133
1055	10	29	DTFLAB	DCW	@REW@				REWIND		134
1056	10	30		*							
1057	10	31		*							
1058	10	32		*	LABEL TABLE						
1059	10	33		*							
1060	10	34		DCW	@@@						134
1061	10	35		DCW	@TAP@				TAPEUSE		134
1062	10	36		DCW	@CHE@				CHECKPOINT		134
1063	10	37		DCW	@DIO@				DIOCSORG		134
1064	10	38		DCW	@FEA@				FEATURES		134
1065	10	39		DCW	@IOD@				IODEVICES		134
1066	10	40		DCW	@LAB@				LABELDEF		135
1067	10	41		DCW	@ALT@				ALTAPE		135
1068	10	42		DCW	@EXI@				EXITS		135
1069	10	43		DCW	@VAR@				VARBULLD		135
1070	10	44		DCW	@COU@				COUNTS		135
1071	10	45		DCW	@DRI@				DRIVETYPE		135
1072	10	46		DCW	@RWD@				RWDOPTION		135
1073	10	47		DCW	@REA@				READERROR		136
1074	10	48	LBLTBL	DCW	@INP@				INPFXNO		136
1075	10	49		LTORG	*						
				DCW	@EX@					LIT	136
				DCW	@7@					LIT	136
				DCW	@1 8@					LIT	136
				DCW	@\$@					LIT	136
				DCW	@ @					LIT	136
				DCW	@*@					LIT	137
				DCW	@5@					LIT	137
				DCW	@55555@					LIT	137
				DCW	@'@					LIT	137
			SAVXLL	DCW	#03					AREA	137
				DCW	@, @					LIT	137
				DCW	@ @					LIT	137
				DCW	@1@					LIT	138
				DCW	@6@					LIT	138
				DCW	@ @ @					LIT	138
				DCW	@DTF@					LIT	138
				DCW	@33333@					LIT	138
				DCW	@52@					LIT	138
			SAVX2I	DCW	#03					AREA	138
				DCW	@ALT@					LIT	139
				DCW	@JOB@					LIT	139
				DCW	@CTL@					LIT	139
			HLDAL1	DCW	#04					AREA	139
			BALTRI	DCW	#01					AREA	139
			HLDBI	DCW	#04					AREA	139
				DCW	@N@					LIT	139

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
				XCARDS	DCW					AREA	140
				READSI	DCW	#01				AREA	140
1076	10	50		*							
1077	10	51		*	OUTPUT AREA						
1078	10	52		*							
1079	10	53		ORG	3912				3912		
1080	10	54	OUTPT	DA	1X86,G				3997		
1080				DCW	@*@					GMARK	141
1081	10	55	LOPUT	EQU	*						
1082	10	56		EX					B 000		142

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD	
1083	10	57		JOB	1401 AUTOCODER-PASS 2-COPY DTF TABLE	-VERSION	3	I				
1084	10	58		SFX	I			I				
1085	10	59		ORG	341			I	0341			
1086	10	60		DCW	@,@			I	1	0341	145	
1087	10	61		DCW	@;@	EXITS	YES	I	1	0342	145	
1088	10	62		DCW	@;@	COBOL	YES	I	1	0343	145	
1089	10	63		DCW	#6			I	6	0349	145	
1090	10	64		DCW	@;@	1	INPUT	1	FILETYPE	I	1	0350
1091	10	65		DCW	@;@	2	OUTPUT	2		I	1	0351
1092	10	66		DCW	@;@	3	TAPE	3		I	1	0352
1093	10	67		DCW	@;@	4	READER	4		I	1	0353
1094	10	68		DCW	@;@	5	PUNCH	5		I	1	0354
1095	10	69		DCW	@;@	6	PRINTER	6		I	1	0355
1096	10	70		DCW	@;@	7	LOAD	7	MODEPAR	I	1	0356
1097	10	71		DCW	@;@	8	CHECKPOINT	8	FEATURES	I	1	0357
1098	10	72		DCW	@;@	9	NUMBER	9	CHANDRIVE	I	1	0358
1099	10	73		DCW	@;@	10	NUMBER	10	CARDPROC	I	1	0359
1100	10	74		DCW	@;@	11	NUMBER	11	ALTTAPE	I	1	0360
1101	10	75		DCW	@;@	12	BLOCKED	12	RECFORM	I	1	0361
1102	10	76		DCW	@;@	13	UNBLOCKED	13		I	1	0362
1103	10	77		DCW	@;@	14	MIXED	14		I	1	0363
1104	10	78		DCW	@;@	15	VARIABLE	15		I	1	0364
1105	10	79		DCW	@ ;@	16-19	NUMBER	16	SIZEREC	I	4	0368
1106	10	80		DCW	@;@	29	NUMBER	17	PADDING	I	1	0369
1107	10	81		DCW	@ ;@	21-24	NUMBER	18	BLOCKSIZE	I	4	0373
1108	10	82		DCW	@ ;@	25-34	LABELS	19	IOAREAS	I	10	0383
1109	10	83		DCW	@ ;@	35-44		20		I	10	0393
1110	10	84		DCW	@ ;@	45-54	LABEL	21	WORKAREA	I	10	0403
1111	10	85		DCW	@;@	55	NUMBER	22	INDEXREG	I	1	0404
1112	10	86		DCW	@ ;@	56-65	LABEL	23	EORADDR	I	10	0414
1113	10	87		DCW	@ ;@	66-75	LABEL	24	WLRADDR	I	10	0424
1114	10	88		DCW	@;@	76	RECORD	25	TOTALS	I	1	0425
1115	10	89		DCW	@ ;@	77-80	HASH	26		I	4	0429
1116	10	90		DCW	@;@	81	STANDARD	27	TYPELABEL	I	1	0430
1117	10	91		DCW	@;@	82	NONSTANDARD	28		I	1	0431
1118	10	92		DCW	@;@	83	TM	29		I	1	0432
1119	10	93		DCW	@;@	84	ALL	30	CHECKLABEL	I	1	0433
1120	10	94		DCW	@;@	85	IDENT	31		I	1	0434
1121	10	95		DCW	@ ;@					I	3	0437
1122	10	96		DCW	@ ;@					I	5	0442
1123	10	97		DCW	@ ;@					I	10	0452
1124	10	98		DCW	@ ;@	104-108	NUMBER	35	SERIALNUM	I	5	0457
1125	10	99		DCW	@ ;@	109-118		39	EXIADDR	I	10	0467
1126	10	00		DCW	@ ;@	119-128		40	EXZADDR	I	10	0477
1127	10	01		DCW	@ ;@	129-138		41	EX3ADDR	I	10	0487
1128	10	02		DCW	@ ;@	139-148		42	EX4ADDR	I	10	0497
1129	10	03		DCW	@ ;@	149-158		43	EX5ADDR	I	10	0507
1130	10	04		DCW	@ ;@	159-168		44	EX6ADDR	I	10	0517
1131	10	05		DCW	@ ;@	169-178		45	EX7ADDR	I	10	0527
1132	10	06		DCW	@ ;@	179-188		46	EX8ADDR	I	10	0537

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD	
1133	10	07		DCW	@ ;@	189-198		47	VARBUILD	I	10	0547
1134	10	08		DCW	@;@	199	UNLOAD	37	REWIND	I	1	0548
1135	10	09		DCW	@;@	200	NOREWD	38		I	1	0549
1136	10	10		DCW	@;@	9	201		OVERFLOW	I	1	0550
1137	10	11		DCW	@ ;@	12	202			I	1	0551
1138	10	12		DCW	@ ;@	203-205	NUMBER		REELSEQ	I	3	0554
1139	10	13		DCW	@;@	206			FORMCTL	I	1	0555
1140	10	14		DCW	#9					I	9	0564
1141	10	15		DCW	@;@	216	ADDRESS		OVERFLOW	I	1	0565
1142	10	16		DCW	@ ;@					I	1	0566
1143	10	17		DCW	@ ;@					I	1	0567
1144	10	18	DTFGM	DCW	@;@					I	1	0568
1145	10	19	EX							I		155

B 000

GMARK

				1401 AUTOCODER-PASS 2-ALTER OVERLAY	-VERSION 3	3724L			PAGE 25		
SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1146	11	20		JOB	1401 AUTOCODER-PASS 2-ALTER OVERLAY						
1147	11	21		SFX	I						
1148	11	22		ORG	101				0101		
1149	11	23		*							
1150	11	24		*							
1151	11	25		*	CTL CARD ON TAPE 4						
1152	11	26		*							
1153	11	27		PUNCH	CW			I 4	0101	) 332	158
1154	11	28		BSP	1			I 5	0105	U &U1 B	158
1155	11	29		BSP	1			I 5	0110	U &U1 B	158
1156	11	30		B	ALTER			I 4	0115	B P63	158
1157	11	31		OUTCL	MCW			I 7	0119	M I97 086	158
1158	11	32		BSS	PREPS2,C			I 5	0126	B 662 C	158
1159	11	33		NOSOL	SBR			I 7	0131	H 182 Q20	158
1160	11	34		*							
1161	11	35		*	CTL CARD FROM CARDS						
1162	11	36		*							
1163	11	37		CRDCL	BCE			I 8	0138	B 167 024 1	159
1164	11	38		MN	MAINX&21,*&8			I 7	0146	D 022 160	159
1165	11	39		BCE	LEAVE,@456@,			I 8	0153	B 167 237	159
1166	11	40		CHAIN	2			I			MACRO
1167				BCE				I 1	0161	B	GEN 159
1168				BCE				I 1	0162	B	GEN 159
1169	11	41		B	LETBE			I 4	0163	B 171	159
1170	11	42		LEAVE	S			I 4	0167	S 337	159
1171	11	43		LETBE	B			I 4	0171	B 183	160
1172	11	44		RSOLV	B			I 4	0175	B 721	160
1173	11	45		B	WRTAL			I 4	0179	B ?37	160
1174	11	46		*							
1175	11	47		NOPCL	SBR			I 4	0183	H 204	160
1176	11	48		MCW	@N@,ALTS2			I 7	0187	M 238 Q67	160
1177	11	49		MCW	@N@,ALTS4			I 7	0194	M 238 ?82	160
1178	11	50		NPCLX	B			I 4	0201	B 000	160
1179	11	51		NOPJB	SBR			I 4	0205	H 219	161
1180	11	52		SW	ALTS1&4,ALTS3&4			I 7	0209	, Q51 ?66	161
1181	11	53		NPJXB	B			I 4	0216	B 000	161
1182	11	54		NOTER	MCW			I 7	0220	M I97 086	161
1183	11	55		B	WRTREC			I 4	0227	B 721	161
1184	11	56		CHUCK	B			I 4	0231	B Q20	161
1185	11	57		LTORG	*			I		0235	
				DCW	@456@			I 3	0237		LIT 161
				DCW	@N@			I 1	0238		LIT 162
1186	11	58		ORG	246			I		0246	
1187	11	59		DA	1X86			I		0331	
1188	11	60		AREASV	EQU			I		0331	
1189	11	61		GMOVL2	DCW			I 1	0332		GMARK 163
1190	11	62		EX	@}@			I		B 000	164

				1401 AUTOCODER - PASS 2 - END OVERLAY	-VERSION 3	3725L			PAGE 26		
SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1191	11	63		JOB	1401 AUTOCODER - PASS 2 - END OVERLAY						
1192	11	64		SFX	I						
1193	11	65		ORG	341				0341		
1194	11	66		OVLY3	MN			I 7	0341	D 432 768	167
1195	11	73		SBR	LONG&3,@N@			I 7	0348	H J60 433	167
1196	11	74		LCA	186,LMAINX			I 7	0355	L 186 086	167
1197	11	75		B	NEWWRT			I 4	0362	B J35	167
1198	11	76		CW	OUTPT&80			I 4	0366	) I92	167
1199	11	77		SW	GMOVL4			I 4	0370	, 606	167
1200	11	78		MCW	GMMMRK,GMOVL4			I 7	0374	M 773 606	168
1201	11	79		B	CTAPE			I 4	0381	B S22	168
1202	11	80		NOP	TDF9			I 4	0385	N 412	168
1203	11	81		CW	GMOVL4			I 4	0389	) 606	168
1204	11	82		RWD	5			I 5	0393	U &U5 R	168
1205	11	83		B	CTAPE			I 4	0398	B S22	168
1206	11	84		NOP	TDFSYS			I 4	0402	N 423	168
1207	11	85		B	1900			I 4	0406	B 200	169
1208	11	86		TDF9	DCW			I 3	0412		169
1209	11	87		WTW	5,OVLY4			I 8	0413	L &U5 434 W	169
1210	11	88		TDFSYS	DCW			I 3	0423		169
1211	11	89		RTW	1,1650			I 8	0424	L &U1 W50 R	169
1212	11	92		*							
1213	11	93		LTORG	*			I		0432	
				DCW	@5@			I 1	0432		LIT 169
				DCW	@N@			I 1	0433		LIT 169
1214	11	94		OVLY4	EQU			I	0434		
1215	11	95		SFX	X			X			
1216	11	96		*	END OF JOB						
1217	11	97		*							
1218	11	98		C	CALLTX,BLANKS-2			X 7	0434	C I73 W14	170
1219	11	99		BE	STENDX			X 5	0441	B 450 S	170
1220	12	00		B	SUREXX			X 4	0446	B T08	170
1221	12	01		STENDX	B			X 4	0450	B O33	170
1222	12	02		RWD	5			X 5	0454	U &U5 R	170
1223	12	03		BSP	1			X 5	0459	U &U1 B	170
1224	12	04		BSP	1			X 5	0464	U &U1 B	170
1225	12	05		WTM	6			X 5	0469	U &U6 M	171
1226	12	06		RWD	6			X 5	0474	U &U6 R	171
1227	12	07		MCW	SYMMMX,MAINX&2			X 7	0479	M W01 003	171
1228	12	08		LCA	LOPUT&1,MAINX&35			X 7	0486	L I98 036	171
1229	12	09		WT	5,MAINX			X 8	0493	M &U5 001 W	171
1230	12	10		WTM	5			X 5	0501	U &U5 M	171
1231	12	11		RWD	4			X 5	0506	U &U4 R	172
1232	12	12		CW	LIPUT&1,MAINX&35			X 7	0511	) I87 036	172
1233	12	13		CW	100			X 4	0518	) 100	172
1234	12	14		BYPASX	RT			X 8	0522	M &U1 I97 R	172
1235	12	15		SW	LOPUT&1			X 4	0530	, I98	172
1236	12	16		BEF	CBSPX			X 5	0534	B 543 K	172
1237	12	17		B	BYPASX			X 4	0539	B 522	172
1238	12	18		CBSPX	RT			X 8	0543	M &U1 I97 R	173

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1239	12	19		SW	LOPUT&1	X	4	0551	, I98		173
1240	12	20		S	&1,CBSP1X	X	7	0555	S 605 604		173
1241	12	21		BM	CBSP3X,CBSP1X	X	8	0562	V 574 604 K		173
1242	12	22		B	CBSP2X	X	4	0570	B 543		173
1243	12	23		*							
1244	12	24		*	LOAD PASS 3						
1245	12	25		*							
1246	12	26	CBSP3X	CS	PARTB	X	4	0574	/ 466		173
1247	12	27		CS		X	1	0578	/		173
1248	12	28		CS		X	1	0579	/		174
1249	12	29		B	CTAPE	X	4	0580	B W50		174
1250	12	30		NOP	TDFE0J	X	4	0584	N 594		174
1251	12	31		B	2465	X	4	0588	B M65		174
1252	12	32	TDFE0J	DCW	CCHALT	X	3	0594	Y34		174
1253	12	33		RTW	1,2210	X	8	0595	L \$U1 K10 R		174
1254	12	34	CBSP1X	DCW	@11@	X	2	0604			174
1255	12	35		*							
1256	12	36	LTORG	*		X			0605		
			DCW	&1		X	1	0605		LIT	175
1257	12	37	GMOVL4	DCW	@j@	X	1	0606		GMARK	175
1258	12	38		EX		X			B 000		176

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1259	12	39		JOB	1401 AUTOCODER - PASS 2 - ALTER ASSEMBLY - VERSION 3 X						
1260	12	40		*							
1261	12	41		*	AREA DEFINITIONS						
1262	12	42		*							
1263	12	43		SFX	B	B					
1264	12	44		ORG	1	B			0001		
1265	12	45		DA	1X86 MAIN	B		0001	0086		ADDR
1266	12	46		EQU	* LMAIN	B			0086		
1267	12	47		ORG	87	B			0087		
1268	12	48		DCW	000 INDEX1	B	3	0089			179
1269	12	49		DC	00	B	2	0091			179
1270	12	50		DCW	000 INDEX2	B	3	0094			179
1271	12	51		DC	00	B	2	0096			179
1272	12	52		DCW	000 INDEX3	B	3	0099			179
1273	12	53		DC	00	B	2	0101			179
1274	12	54		ORG	100	B			0100		
1275	12	55		DC	@j@	B	1	0100		GMARK	180
1276	12	56		DA	1X86 INPUT	B		0101	0186		
1277	12	57		DC	@j@ LINPUT&1	B	1	0187		GMARK	181
1278	12	58		DC	0 ZEROX	B	1	0188			181
1279	12	59		DC	0 CARDSX	B	1	0189			181
1280	12	60		DCW	@***@ HLDSBX	B	3	0192			181
1281	12	61		*							
1282	12	62		*	INITIALIZATION						
1283	12	63		*							
1284	12	64		ORG	101	B			0101		
1285	12	65	VOICE	CS	CALLTX	B	4	0101	/ 173		182
1286	12	66		CS		B	1	0105	/		182
1287	12	67	IOCALT	CS	LMAINX	B	4	0106	/ 086		182
1288	12	68		B	CTAPEX	B	4	0110	B W50		182
1289	12	69		NOP	TDFIO5	B	4	0114	N 132		182
1290	12	70		BCE	IOCEOF,MAINXX&73,N	B	8	0118	B 141 074 N		182
1291	12	71		B	YOURS	B	4	0126	B 541		182
1292	12	72	TDFIO5	DCW	&IOCEOF	B	3	0132	141		183
1293	12	73		RT	5,MAINXX	B	8	0133	M \$U5 001 R		183
1294	12	74	IOCEOF	MCW	@1@,HAPPYX&4	B	7	0141	M 172 N74		183
1295	12	75		MCW	@/086@	B	4	0148	M 176		183
1296	12	76		B	OKAY	B	4	0152	B 467		183
1297	12	77	STRING	CS	LMAINX	B	4	0156	/ 086		183
1298	12	78		B	CTAPEX	B	4	0160	B W50		183
1299	12	79		NOP	TDFIO5	B	4	0164	N 132		184
1300	12	80		B	HAPPYX&5	B	4	0168	B N75		184
1301	12	81		LTORG	*	B			0172		
			DCW	@1@		B	1	0172		LIT	184
			DCW	@/086@		B	4	0176		LIT	184
1302	12	82		*							
1303	12	83		*	PARAMETER TABLE						
1304	12	84		*							
1305	12	85		ORG	201	B			0201		
1306	12	86		DA	1X266	B		0201	0466		

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1307	12	87			261,266 PARTBB	B		0466		FIELD	
1308	12	88	*								
1309	12	89	*	PROCESS EX							
1310	12	90	*								
1311	12	91	OKAY	SBR	SWITCH&3,CMALTB	B	7	0467	H L04 510		185
1312	12	92	EXSET	C	CALLTX,BLANKS-2 Q. ANY CALLS	B	7	0474	C 173 W14		185
1313	12	93		BE	PREEM	B	5	0481	B 506 S		185
1314	12	94	AL TSA	B	SUREXX	B	4	0486	B T08		185
1315	12	95		B	PREEM	B	4	0490	B 506		185
1316	12	96	LOGRS	C	CALLTX,BLANKS-2 Q. ANY CALLS	B	7	0494	C 173 W14		185
1317	12	97		BU	HAULT	B	5	0501	B S64 /		185
1318	12	98	PREEM	B	CARDS	B	4	0506	B 525		186
1319	12	99	*								
1320	13	00	*	INPUT ROUTINE							
1321	13	01	*								
1322	13	02	CMALT	BSS	LSTCD,C Q. NO ALTERS	B	5	0510	B 686 C		186
1323	13	03		BSS	LSTCD,A Q. NO MORE ALTERS	B	5	0515	B 686 A		186
1324	13	04		CS	LMAINX	B	4	0520	/ 086		186
1325	13	05		R		B	1	0524	1		186
1326	13	06	CARDS	SBR	PREEM&3,SBROTX	B	7	0525	H 509 O33		186
1327	13	07		MCW	@SCR@,CHARCR	B	7	0532	M '15 U62		186
1328	13	08		MCW		B	1	0539	M		187
1329	13	09		MCW		B	1	0540	M		187
1330	13	10	YOURS	C	MAINXX&17,@ALT@	B	7	0541	C 018 '18		187
1331	13	11		BCE	TREAD,MAINXX&5,*	B	8	0548	B 697 006 *		187
1332	13	12		BU	TREAD	B	5	0556	B 697 /		187
1333	13	13		S	INDEX1&1	B	4	0561	S 090		187
1334	13	14		B	SCANXX	B	4	0565	B M19		187
1335	13	15		ZA	MAINXX&18&X1,HLDA1#4	B	7	0569	? 0/9 '22		188
1336	13	16	ALTR4	B	OUTPTX&83,HLDA1 GET NEXT RECORD	B	4	0576	B W50		188
1337	13	17		NOP	TDFRAL	B	4	0580	N 922		188
1338	13	18		MCW	@R@,OUTPTX&84	B	7	0584	M '23 I96		188
1339	13	19		SW	LOPUTX&1	B	4	0591	, I98		188
1340	13	20		C	OUTPTX&83,HLDA1	B	7	0595	C I95 '22		188
1341	13	21	CALTR	BE	ALTR3 Q. ALTER NUMBER EQUAL TO	B	5	0602	B 631 S		188
1342	13	22		C	OUTPTX&17,@END@ NUMBER ON ALTER CARD	B	7	0607	C I29 '26		189
1343	13	23		BE	ENDST NO. WRITE TAPE	B	5	0614	B '02 S		189
1344	13	24		B	CTAPEX	B	4	0619	B W50		189
1345	13	245		SFX	X	X					
1346	13	25		NOP	TDF6	X	4	0623	N O24		189
1347	13	255		SFX	B	B					
1348	13	26		B	ALTR4	B	4	0627	B 576		189
1349	13	27	ALTR3	BCE	ALTR5,MAINXX&19&X1,, Q. DELETION	B	8	0631	B 651 050 ,		189
1350	13	28		B	CTAPEX	B	4	0639	B W50		189
1351	13	285		SFX	X	X					
1352	13	29		NOP	TDF6	X	4	0643	N O24		190
1353	13	295		SFX	B	B					
1354	13	30		B	SWITCH	B	4	0647	B L01		190
1355	13	31	ALTR5	B	SCANXX	B	4	0651	B M19		190
1356	13	32		ZA	MAINXX&18&X1,HLDA1	B	7	0655	? 0/9 '22		190

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1357	13	33	ALTR6	C	OUTPTX&83,HLDA1	B	7	0662	C I95 '22		190
1358	13	34		BE	MACRO DELETE UNTIL SECOND ALTER	B	5	0669	B 931 S		190
1359	13	35		B	CTAPEX NUMBER IS REACHED	B	4	0674	B W50		190
1360	13	36		NOP	TDFRAL	B	4	0678	N 922		191
1361	13	37		B	ALTR6	B	4	0682	B 662		191
1362	13	38	LSTCD	MCW	@N@,CALTR	B	7	0686	M '27 602		191
1363	13	39		B	ALTR4	B	4	0693	B 576		191
1364	13	40	*								
1365	13	41	*	MAJOR PROCESSING							
1366	13	42	*								
1367	13	43	TREAD	SW	1	B	4	0697	, 001		191
1368	13	44		SBR	BRNCHX&3,SWITCH	B	7	0701	H 099 L01		191
1369	13	45		BCE	HOMEXX,MAINXX&5,*	B	8	0708	B 048 006 *		191
1370	13	46		C	MAINXX&17,@MLC@	B	7	0716	C 018 '30		192
1371	13	47		BE	HOMEXX	B	5	0723	B 048 S		192
1372	13	48		C	MAINXX&17,@CHA@	B	7	0728	C 018 '33		192
1373	13	49		BE	CHAINK	B	5	0735	B H11 S		192
1374	13	50		C	MAINXX&17,@ENT@ Q. ENTER CARD	B	7	0740	C 018 '36		192
1375	13	51		BE	ENTST	B	5	0747	B 879 S		192
1376	13	52	SWMA1	C	MAINXX&17,@MA @ Q. MODIFY ADDRESS MACRO	B	7	0752	C 018 '39		193
1377	13	53	SWMA2	BE	MASETX	B	5	0759	B U33 S		193
1378	13	54		C	MAINXX&17,@EX @ Q. EX CARD	B	7	0764	C 018 '42		193
1379	13	55		BE	EXSET	B	5	0771	B 474 S		193
1380	13	56		C	MAINXX&17,@END@ Q. END CARD	B	7	0776	C 018 '26		193
1381	13	57		BE	ENDSTX	B	5	0783	B U78 S		193
1382	13	58		C	MAINXX&18,WHOOPS Q. CALL STATEMENT	B	7	0788	C 019 W05		194
1383	13	59		BE	CALLNX	B	5	0795	B J51 S		194
1384	13	60		C	MAINXX&19,INCLDX	B	7	0800	C 020 U59		194
1385	13	61		BE	CALLNX	B	5	0807	B J51 S		194
1386	13	62		C	MAINXX&19,LITORG-1	B	7	0812	C 020 T57		194
1387	13	63		BE	LOGRS	B	5	0819	B 494 S		194
1388	13	64		SBR	INDEX3,TABLEI Q. GET, PUT, OPEN OR CLOSE	B	7	0824	H 099 T74		195
1389	13	65	COMIOC	C	MAINXX&17,0&X3	B	7	0831	C 018 070		195
1390	13	66		SBR	INDEX3	B	4	0838	H 099		195
1391	13	67		BE	MSUBTX	B	5	0842	B P00 S		195
1392	13	68		BCE	OUTIOC,0&X3,#	B	8	0847	B 859 070 #		195
1393	13	69		B	COMIOC	B	4	0855	B 831		195
1394	13	70	OUTIOC	BCE	HOMEXX,MAINXX&19,	B	8	0859	B 048 020		196
1395	13	71		BCE	HOMEXX,MAINXX&15,	B	8	0867	B 048 016		196
1396	13	72		B	MSUBTX NO, MACRO	B	4	0875	B P00		196
1397	13	73	*								
1398	13	74	*	PROCESS FIXED FORM RECORD							
1399	13	75	*								
1400	13	76	ENTST	B	SBROTX	B	4	0879	B O33		196
1401	13	77		R		B	1	0883	1		196
1402	13	78		BCE	ENTST,MAINXX&7,*	B	8	0884	B 879 008 *		196
1403	13	79		C	MAINXX&15,@END@ Q. END CARD	B	7	0892	C 016 '26		197
1404	13	80		BE	ENDSTX	B	5	0899	B U78 S		197
1405	13	81		C	MAINXX&15,@ENT@ Q. NEW MODE	B	7	0904	C 016 '36		197
1406	13	82		BU	ENTST	B	5	0911	B 879 /		197

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1407	13	83		B	PREEM	B	4	0916	B 506		197
1408	13	84	TDFRAL	DCW	000	B	3	0922			197
1409	13	85		DCW	@M%U4I12R@	B	8	0930			197
1410	13	86	*								
1411	13	87	*	DELETE	ENTIRE MACRO						
1412	13	88	*								
1413	13	89	MACRO	BCE	OUTMC,OUTPTX&74,R	B	8	0931	B 943 I86 R		198
1414	13	90		B	SWITCH	B	4	0939	B L01		198
1415	13	91	OUTMC	B	CTAPEX	B	4	0943	B W50		198
1416	13	92		NOP	TDFRAL	B	4	0947	N 922		198
1417	13	93		C	OUTPTX&19,BLANKS	B	7	0951	C I31 W16		198
1418	13	94	MCOUT	BE	OUTMC	B	5	0958	B 943 S		198
1419	13	95		MCW	@N@,MCOUT	B	7	0963	M '27 958		198
1420	13	96		BCE	OUTMC,OUTPTX&74,S	B	8	0970	B 943 I86 S		199
1421	13	97		BCE	OUTMC,OUTPTX&74,C	B	8	0978	B 943 I86 C		199
1422	13	98		BSP	4	B	5	0986	U 804 B		199
1423	13	99		MCW	OUTMC,MCOUT	B	7	0991	M 943 958		199
1424	14	00		B	CMALT	B	4	0998	B 510		199
1425	14	01	*								
1426	14	02	*	PROCESS	END CARD						
1427	14	03	*								
1428	14	04	ENDST	MCW	LOPUTX,LMAINX	B	7	1002	M I97 086		199
1429	14	05		B	ENDSTX	B	4	1009	B U78		200
1430	14	06		LTORG	*	B			1013		
				DCW	@SCR@	B	3	1015		LIT	200
				DCW	@ALT@	B	3	1018		LIT	200
			HLDALB	DCW	#04	B	4	1022		AREA	200
				DCW	@R@	B	1	1023		LIT	200
				DCW	@END@	B	3	1026		LIT	200
				DCW	@N@	B	1	1027		LIT	200
				DCW	@MLC@	B	3	1030		LIT	201
				DCW	@CHA@	B	3	1033		LIT	201
				DCW	@ENT@	B	3	1036		LIT	201
				DCW	@MA @	B	3	1039		LIT	201
				DCW	@EX @	B	3	1042		LIT	201
1431	14	07	GM2XXX	DCW	@}@	B	1	1043		GMARK	201
1432	14	08	NUORIG	EQU	*&1	B		1044			
1433	14	09		EX		B			B 000		202

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1434	14	10		JOB	1401 AUTOCODER - PASS 2 - INITIAL ASSEMBLY VERSION 3 B						
1435	14	11	*								
1436	14	12	*	AREA	DEFINITION						
1437	14	13	*								
1438	14	14		SFX	A	A					
1439	14	15		ORG	1	A			0001		
1440	14	16	MAINXX	DA	1X86	A		0001	0086		ADDR
1441	14	17		ORG	87	A			0087		
1442	14	18		DCW	@000@	A	3	0089			205
1443	14	19		DC	00	A	2	0091			205
1444	14	20		DCW	@000@	A	3	0094			205
1445	14	21		DC	00	A	2	0096			205
1446	14	22		DCW	@000@	A	3	0099			205
1447	14	23		DC	00	A	2	0101			205
1448	14	24		ORG	101	A			0101		
1449	14	25		DA	1X86 INPUTX	A			0101 0186		
1450	14	26	LIPUTX	EQU	*	A			0186		
1451	14	27		DC	@}@	A	1	0187		GMARK	206
1452	14	28	ZEROXX	DC	0	A	1	0188			206
1453	14	29	CARDSX	DC	0	A	1	0189			206
1454	14	30	HLD5BX	DCW	@***@	A	3	0192			206
1455	14	31	*								
1456	14	32	*	INITIALIZATION							
1457	14	33	*								
1458	14	34		ORG	100	A			0100		
1459	14	35		DC	@}@	A	1	0100		GMARK	207
1460	14	36	START	CS	CALLTX	A	4	0101	/ 173		207
1461	14	37		CS		A	1	0105	/		207
1462	14	37.1		BCE	*&5,CARDSX,1	A	8	0106	B 118 189 1		207
1463	14	37.2		B	RED	A	4	0114	B 132		207
1464	14	37.3		MCW	@N@,RHO&1	A	7	0118	M 959 764		208
1465	14	37.4		MCW	@N@,TSTEN&5	A	7	0125	M 959 780		208
1466	14	38	RED	SW	NTPER&4	A	4	0132	, 885		208
1467	14	39		SW	TSTEN&4	A	4	0136	, 779		208
1468	14	40		SW	OUTS2&4	A	4	0140	, 762		208
1469	14	41		BCE	READT,IOCSAV-3,*	A	8	0144	B 467 H07 *		208
1470	14	42		MCW	@N@,SWMA1	A	7	0152	M 959 526		209
1471	14	43		MCW	@N@,SWMA2	A	7	0159	M 959 533		209
1472	14	44		B	READT	A	4	0166	B 467		209
1473	14	45		ORG	201	A			0201		
1474	14	46		DA	1X266	A		0201	0466		
1475	14	47	PARTBX		261,266	A		0466		FIELD	
1476	14	48	*								
1477	14	49	*	MAJOR	PROCESSING						
1478	14	50									
1479	14	51	READT	B	TWEDB GET NEXT RECORD	A	4	0467	B 653		210
1480	14	52	TREAD	SW	1	A	4	0471	, 001		210
1481	14	53		SBR	BRNCH&3_READT	A	7	0475	H 099 467		210
1482	14	54		BCE	OUTS2,MAINXX&5,* Q, COMMENTS CARD	A	8	0482	B 758 006 *		210
1483	14	55		C	MAINXX&19,@CHAIN@	A	7	0490	C 020 964		210



SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1484	14	56		BE	CHAINX	A	5	0497	B H11 S		210
1485	14	57		C	MAINXX&19,@MLCWA@	A	7	0502	C 020 969		211
1486	14	58		BE	OUTS2	A	5	0509	B 758 S		211
1487	14	59		C	MAINXX&17,@ENT@	Q.	7	0514	C 018 972		211
1488	14	60		BE	ENTST	A	5	0521	B 795 S		211
1489	14	61	SWMA1	C	MAINXX&19,@MA @	Q.	7	0526	C 020 977		211
1490	14	62	SWMA2	BE	MASETX	A	5	0533	B U33 S		211
1491	14	63		C	MAINXX&19,@EX @	Q.	7	0538	C 020 982		212
1492	14	64		BE	EXSET	A	5	0545	B 857 S		212
1493	14	65		C	MAINXX&17,@END@	Q.	7	0550	C 018 985		212
1494	14	66		BE	ENDSTX	A	5	0557	B U78 S		212
1495	14	67		C	MAINXX&18,WHOOPS	A	7	0562	C 019 W05		212
1496	14	68		BE	CALLX	Q.	5	0569	B 351 S		212
1497	14	69		C	MAINXX&19,INCLDX	A	7	0574	C 020 U59		213
1498	14	70		BE	CALLX	A	5	0581	B 351 S		213
1499	14	71		C	MAINXX&19,@LTORG@	A	7	0586	C 020 990		213
1500	14	72		BE	LORGS	Q.	5	0593	B 918 S		213
1501	14	73		SBR	INDEX3,TABLEI	A	7	0598	H 099 T74		213
1502	14	74	FEW	C	MAINXX&17,0&X3	A	7	0605	C 018 070		213
1503	14	75		SBR	INDEX3	A	4	0612	H 099		214
1504	14	76		BE	MSUBTX	A	5	0616	B P00 S		214
1505	14	77		BCE	MANY,0&X3,#	A	8	0621	B 633 070 #		214
1506	14	78		B	FEW	A	4	0629	B 605		214
1507	14	79	MANY	BCE	OUTS2,MAINXX&19,	A	8	0633	B 758 020		214
1508	14	80		BCE	OUTS2,MAINXX&15,	A	8	0641	B 758 016		214
1509	14	81		B	MSUBTX	NO.	4	0649	B P00		215
1510	14	82		*							
1511	14	83		*	INPUT ROUTINE						
1512	14	84		*							
1513	14	85	TWEDB	SBR	TWDB1&3	A	4	0653	H 696		215
1514	14	86		CS	LMINX	A	4	0657	/ 086		215
1515	14	87		B	RTWED	A	4	0661	B 677		215
1516	14	88	CHART	C		A	1	0665	C		215
1517	14	89		BSS	EOF4,A	Q.	5	0666	B 934 A		215
1518	14	90		R		A	1	0671	1		215
1519	14	91		SSB	TWDB1,1	A	5	0672	K 693 1		216
1520	14	92	RTWED	B	CTAPEX	A	4	0677	B W50		216
1521	14	93		NOP	TDF4	A	4	0681	N 699		216
1522	14	94		BCE	CHANGE,MAINXX&73,N	A	8	0685	B 708 074 N		216
1523	14	95	TWDB1	B	TREAD	A	4	0693	B 471		216
1524	14	96	TDF4	DCW	&EOF4	A	3	0699	934		216
1525	14	97		DCW	@M&U5001R@	A	8	0707			216
1526	14	98	CHANGE	CW	CHART,TSTEN&4	A	7	0708	) 665 779		217
1527	14	99		MN	@4@,TDF4&4	A	7	0715	D 991 703		217
1528	15	00		CW	OUTS2&4,NTPER&4	A	7	0722	) 762 885		217
1529	15	01		C	CALLTX,BLANK	A	7	0729	C 173 999		217
1530	15	02		BE	HOOHA	A	5	0736	B 745 S		217
1531	15	03		B	SUREXX	A	4	0741	B T08		217
1532	15	04	HOOHA	MCW	@SCR@,CHARCR	A	7	0745	M 994 U62		218
1533	15	05		MCW		A	1	0752	M		218

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1534	15	06		MCW		A	1	0753	M		218
1535	15	07		B	TWDB1	A	4	0754	B 693		218
1536	15	08		*							
1537	15	09		*	READ RELEASE						
1538	15	10		*							
1539	15	11	OUTS2	BSS	OUTSBX,C	A	5	0758	B 041 C		218
1540	15	12	RHO	NOP		A	1	0763	N		218
1541	15	13		MCW	@@@,RHO	A	7	0764	M 995 763		218
1542	15	14		B	OUTSBX	A	4	0771	B 041		219
1543	15	15		*							
1544	15	16		*	FIXED FORM RECORDS						
1545	15	17		*							
1546	15	18	TSTEN	BSS	ENTST,C	Q.	5	0775	B 795 C		219
1547	15	19		SRF		NO.	1	0780	8		219
1548	15	20		SBR	NOSIR&3,ANTST	A	7	0781	H 917 803		219
1549	15	21		MCW	@N@,BUT1XX	A	7	0788	M 959 037		219
1550	15	22	ENTST	B	SBROTX	A	4	0795	B 033		219
1551	15	23		B	TWEDB	A	4	0799	B 653		219
1552	15	24	ANTST	MCW	@B@,BUT1XX	A	7	0803	M 996 037		220
1553	15	25		SBR	NOSIR&3,TREAD	A	7	0810	H 917 471		220
1554	15	26		BCE	TSTEN,MAINXX&7,*	A	8	0817	B 775 008 *		220
1555	15	27		C	MAINXX&15,@END@	Q.	7	0825	C 016 985		220
1556	15	28		BE	ENDSTX	A	5	0832	B U78 S		220
1557	15	29		C	MAINXX&15,@ENT@	Q.	7	0837	C 016 972		221
1558	15	30		BU	TSTEN	A	5	0844	B 775 /		221
1559	15	31		B	SBROTX	A	4	0849	B 033		221
1560	15	32		B	READT	A	4	0853	B 467		221
1561	15	33		*							
1562	15	34		*	PROCESS EX						
1563	15	35		*							
1564	15	36	EXSET	C	CALLTX,BLANK#3	Q.	7	0857	C 173 999		221
1565	15	37		BE	OUTS2	A	5	0864	B 758 S		221
1566	15	38		B	SUREXX	A	4	0869	B T08		221
1567	15	39		B	SBROTX	A	4	0873	B 033		222
1568	15	40		B	READT	A	4	0877	B 467		222
1569	15	41		*							
1570	15	42		*	READ RELEASE REDUNDANCY ROUTINE						
1571	15	43		*							
1572	15	44	NTPER	BSS	YESIR,C	Q.	5	0881	B 896 C		222
1573	15	45		R		A	1	0886	1		222
1574	15	46		SS	1	A	2	0887	K 1		222
1575	15	47		MCW	@N@,RHO	A	7	0889	M 959 763		222
1576	15	48	YESIR	SBR	COMETS&3,CRWRED	A	7	0896	H X65 X71		222
1577	15	49		SBR	CCONPR&3,NOSIR	A	7	0903	H X70 914		223
1578	15	50		B	CRWRED	A	4	0910	B X71		223
1579	15	51	NOSIR	B	TREAD	A	4	0914	B 471		223
1580	15	52		*							
1581	15	53		*	PROCESS LTORG						
1582	15	54		*							
1583	15	55	LORGS	C	CALLTX,BLANK	Q.	7	0918	C 173 999		223

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1584	15	56		BU	HAULIT	A	5	0925	B S64 /		223
1585	15	57		B	OUTS2	A	4	0930	B 758		223
1586	15	58	EOF4	CS	LMAINX	A	4	0934	/ 086		223
1587	15	59		SW	1	A	4	0938	, 001		224
1588	15	60		MCW	@END\$\$\$@,MAINXX&18	A	7	0942	M '05 019		224
1589	15	61		B	ENDSTX	A	4	0949	B U78		224
1590	15	62	ANTPER	DCW	&NTPERA	A	3	0955	881		224
1591	15	63	ACRWED	DCW	&CRWRED	A	3	0958	X71		224
1592	15	64		LTORG	*	A			0959		
				DCW	@N@	A	1	0959		LIT	224
				DCW	@CHAIN@	A	5	0964		LIT	224
				DCW	@MLCWA@	A	5	0969		LIT	225
				DCW	@ENT@	A	3	0972		LIT	225
				DCW	@M@	A	5	0977		LIT	225
				DCW	@EX @	A	5	0982		LIT	225
				DCW	@END@	A	3	0985		LIT	225
				DCW	@LTORG@	A	5	0990		LIT	225
				DCW	@4@	A	1	0991		LIT	225
				DCW	@SCR@	A	3	0994		LIT	226
				DCW	@8@	A	1	0995		LIT	226
				DCW	@B@	A	1	0996		LIT	226
			BLANKA	DCW	#03	A	3	0999		AREA	226
				DCW	@END\$\$\$@	A	6	1005		LIT	226
1593	15	65	*								
1594	15	66	*		MAIN LINE PROCESSING ANNEX						
1595	15	67	*								
1596	15	68		SFX	X	X					
1597	15	69		ORG	NUORIG	X			1044		
1598	15	70	EOF1B	RWD	1	X	5	1044	U %U1 R		227
1599	15	71		S	PREVS	X	4	1049	S H72		227
1600	15	72		B	SWITCH	X	4	1053	B L01		227
1601	15	73	*								
1602	15	74	*		PROCESS LOZENGED FIELD 6 - 20						
1603	15	75	*								
1604	15	76	LOZENG	BM	MLBLZ,MAINX&2&X1 Q. INTERNAL LEVEL	X	8	1057	V D68 0'3 K		227
1605	15	77		B	LABEL	X	4	1065	B /19		227
1606	15	78		MCW	BLANKS,MAINX&4&X1	X	7	1069	M W16 0'5		227
1607	15	79		MCW	INDEX1,SAVX1#3	X	7	1076	M 089 W11		227
1608	15	80		MCW	INDEX3,INDEX2	X	7	1083	M 099 094		228
1609	15	81		B	SBRD	X	4	1090	B G46		228
1610	15	82		A	SAVX1,INDEX1	X	7	1094	A W11 089		228
1611	15	83		MCW	0&X3,MAINX&X1	X	7	1101	M 070 0'1		228
1612	15	84		MCW	SAVX1,INDEX1	X	7	1108	M W11 089		228
1613	15	85		B	UPENGL	X	4	1115	B A48		228
1614	15	86	*								
1615	15	87	*		LOCATE PARAMETERS						
1616	15	88	*								
1617	15	89	LABEL	SBR	LEXIT#3	X	4	1119	H S63		229
1618	15	90		MCW	BLANKS#5,INDEX3	X	7	1123	M W16 099		229
1619	15	91		MCW	BLANKS,CNTP	X	7	1130	M W16 W19		229

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1620	15	92		MN	MAINX&1&X1,CNTP	X	7	1137	D 0'2 W19		229
1621	15	93	CIRCL	S	&1,CNTP	X	7	1144	S W17 W19		229
1622	15	94		BM	TENSR,CNTP	X	8	1151	V /70 W19 K		230
1623	15	95		A	@3@,INDEX3	X	7	1159	A W18 099		230
1624	15	96		B	CIRCL	X	4	1166	B /44		230
1625	15	97	TENSR	BCE	CHZON,DECTB-2&X3,0	X	8	1170	B 174 UI0 0		230
1626	15	98		MCW	BLANKS,CNTP#1	X	7	1178	M W16 W19		230
1627	15	99		MCW	DECTB&X3,INDEX3	X	7	1185	M UI2 099		231
1628	16	00		MN	MAINX&2&X1,CNTP	X	7	1192	D 0'3 W19		231
1629	16	01	MOVINP	S	&1,CNTP	X	7	1199	S W17 W19		231
1630	16	02		MCW	0&X3,0&X3	X	7	1206	M 070 070		231
1631	16	03		SAR	WAREA#3	X	4	1213	Q W22		231
1632	16	04		BCE	CHZON,0&X3,, Q. MISSING PARAMETER	X	8	1217	B 174 070 ,		232
1633	16	05		BM	PUTIN,CNTP Q. PARAMETER LOCATED	X	8	1225	V S44 W19 K		232
1634	16	06		MCW	WAREA,INDEX3	X	7	1233	M W22 099		232
1635	16	07		B	MOVINP	X	4	1240	B /99		232
1636	16	08	PUTIN	BCE	CHZON,0&X3,;	X	8	1244	B 174 070 ;		232
1637	16	09		BWZ	DELET,MAINX&2&X1,S	X	8	1252	V D41 0'3 S		233
1638	16	10	LEXIT	B	0	X	4	1260	B 000		233
1639	16	11	*								
1640	16	12	*		PROCESS LTORG						
1641	16	13	*								
1642	16	14	HAULIT	MCW	@ORG @,MAINX&19 REPLACE LTORG WITH ORG	X	7	1264	M W27 020		233
1643	16	15		MCW	@L@,MAINX&74	X	7	1271	M W28 075		233
1644	16	16		B	SBR0T	X	4	1278	B 033		233
1645	16	17		B	EXITC	X	4	1282	B D79		233
1646	16	18		CS	LMAIN	X	4	1286	/ 086		233
1647	16	19		MCW	LITORG,MAINX&20 GENERATE LTORG*	X	7	1290	M T58 021		234
1648	16	20		MCW	CHARCC,MAINX&74	X	7	1297	M U61 075		234
1649	16	21		B	WHYYY	X	4	1304	B K97		234
1650	16	22	*								
1651	16	23	*		PREPARATION FOR LTORG,EX,EX OR IOCS						
1652	16	24	*								
1653	16	25	SUREX	SBR	SIMPLE&3	X	4	1308	H T41		234
1654	16	26		SW	1	X	4	1312	, 001		234
1655	16	27		CS	LIPUTX	X	4	1316	/ 186		234
1656	16	28		LCA	LMAINX,LIPUTX	X	7	1320	L 086 186		234
1657	16	29		B	EXITCX	X	4	1327	B D79		235
1658	16	30		LCA	LIPUTX,LMAINX	X	7	1331	L 186 086		235
1659	16	31	SIMPLE	B	0	X	4	1338	B 000		235
1660	16	32	TDFEXT	DCW	&RWDEXT	X	3	1344	D83		235
1661	16	33		DCW	@M%U1001R@	X	8	1352			235
1662	16	34	LITORG	DCW	@LTORG*@	X	6	1358			235
1663	16	35	*								
1664	16	36	*		IOCS TABLE						
1665	16	37	*								
1666	16	38		DCW	@#@	X	1	1359			235
1667	16	39		DCW	@RLS@	X	3	1362			236
1668	16	40		DCW	@GET@	X	3	1365			236
1669	16	41		DCW	@PUT@	X	3	1368			236

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1670	16	42		DCW	@DTF@	X	3	1371			236
1671	16	43	TABLEI	DCW	@OPE@	X	3	1374			236
1672	16	44	*								
1673	16	45	*	GENERATE	UNKNOWN MACRO CARD						
1674	16	46	*								
1675	16	47	NOROT	SBR	NROTC&3	X	4	1375	H U14		236
1676	16	48		CS	LMAINX	X	4	1379	/ 086		236
1677	16	49		MCW	@B@,MAINX&85	X	7	1383	M W29 086		237
1678	16	50		MCW	@UNKNOWN@,MAINX&19	X	7	1390	M W36 020		237
1679	16	51		MCW	CHARCC,MAINX&74	X	7	1397	M U61 075		237
1680	16	52		MCW	@*@,MAINX&5	X	7	1404	M W37 006		237
1681	16	53	NROTC	B	0	X	4	1411	B 000		237
1682	16	54	POTS	MCW	@B@, SWITCH	X	7	1415	M W29 L01		237
1683	16	55		MCW	@N@,NEXTCD	X	7	1422	M W38 N66		238
1684	16	56		B	COOKER	X	4	1429	B E90		238
1685	16	57	*								
1686	16	58	*	MODIFY	ADDRESS MACRO						
1687	16	59	*								
1688	16	60	MASET	MCW	CHARCR,MAINX&74	X	7	1433	M U62 075		238
1689	16	61		B	SBROTY	X	4	1440	B O33		238
1690	16	62		MCW	@D@,MAINX&17	X	7	1444	M W39 018		238
1691	16	63		B	SGC	X	4	1451	B P18		238
1692	16	64	INCLDX	DCW	@INCLD@	X	5	1459			238
1693	16	65	CHARCS	DCW	@Z@	X	1	1460			239
1694	16	66	CHARCC	DCW	@Y@	X	1	1461			239
1695	16	67	CHARCR	DCW	@W@	X	1	1462			239
1696	16	68	KINGS	B	NOROT	X	4	1463	B T75		239
1697	16	69		MCW	HLOSB,MAINX&10	X	7	1467	M 192 011		239
1698	16	70		B	WHYYY	X	4	1474	B K97		239
1699	16	71	ENDSTX	B	CTAPE	X	4	1478	B W50		239
1700	16	72		NOP	TDF5	X	4	1482	N V89		240
1701	16	73		B	OVLY4I	X	4	1486	N 434		240
1702	16	74	DECTB	DCW	&PARTB	X	3	1492	466		240
1703	16	75		DA	9X3	X		1493	1519		
1704	16	76	ENDDC	EQU	*	X		1519			
1705	16	77	MOVEC	LCA	@;@,0&X3	X	7	1520	L W40 070		241
1706	16	78		SBR	INDEX3	X	4	1527	H 099		241
1707	16	79		A	@3@,INDEX2&1	X	7	1531	A W18 095		242
1708	16	80		BCE	MIDDLE,INDEX2&1,3	X	8	1538	B H22 095 3		242
1709	16	81	LOWER	A	@1@,INDEX1	X	7	1546	A W41 089		242
1710	16	82		SW	MAINX&20&X1	X	4	1553	, OS1		242
1711	16	83		BCE	MOVEC,MAINX&20&X1,,	X	8	1557	B V20 OS1 ,		242
1712	16	84	WEEDD	MCW	INDEX2&1,IOCSAV	X	7	1565	M 095 H10		243
1713	16	85		B	WEEDBX	X	4	1572	B N39		243
1714	16	86		MCW	IOCSAV,INDEX2&1	X	7	1576	M H10 095		243
1715	16	87		B	COMSN	X	4	1583	B P79		243
1716	16	88	TDF5	DCW	#3	X	3	1589			243
1717	16	89		RTW	5,OVLY4I	X	8	1590	L \$U5 434 R		243
1718	16	90	NEWEST	DC	0	X	1	1598			243
1719	16	91	SYMM	DCW	@000@	X	3	1601			243

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1720	16	92	WHOOPS	DCW	@CALL@	X	4	1605			244
1721	16	93	ADDCAL	DCW	&CALLTX	X	3	1608	'73		244
1722	16	94	LTORG	*		X			1609		
			SAVX1X	DCW	#03	X	3	1611		AREA	244
			BLANKS	DCW	#05	X	5	1616		AREA	244
				DCW	&1	X	1	1617		LIT	244
				DCW	@3@	X	1	1618		LIT	244
			CNTPX	DCW	#01	X	1	1619		AREA	244
			WAREAX	DCW	#03	X	3	1622		AREA	245
				DCW	@ORG @	X	5	1627		LIT	245
				DCW	@L@	X	1	1628		LIT	245
				DCW	@B@	X	1	1629		LIT	245
				DCW	@UNKNOWN@	X	7	1636		LIT	245
				DCW	@*@	X	1	1637		LIT	245
				DCW	@N@	X	1	1638		LIT	245
				DCW	@D@	X	1	1639		LIT	246
				DCW	@;@	X	1	1640		LIT	246
				DCW	@1@	X	1	1641		LIT	246
1723	16	95		ORG	1649	X			1649		
1724	16	96	GM1	DCW	@j@	X	1	1649		GMARK	247
1725	16	97		EX		X			B 000		248

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1726	16	98		JOB	1401 AUTOCODER - PASS 2 - MACRO-GENERATOR- VERSION 3	X					
1727	16	99		SFX	X	X					
1728	17	00	*								
1729	17	01	*	GENERALIZED TAPE INPUT/OUTPUT ROUTINE							
1730	17	02	*								
1731	17	03		ORG	1650	X		1650			
1732	17	04	CTAPEX	SBR	INDEX2	X	4	1650	H 094		251
1733	17	05		SBR	CCONPR&3	X	4	1654	H X70		251
1734	17	06		MCW	3&X2,INDEX2	X	7	1658	M 013 094		251
1735	17	07		MCW	8&X2,CTAPEX&7	X	7	1665	M 018 X29		251
1736	17	08		MCW	0&X2,CEORC&3	X	7	1672	M 010 X41		251
1737	17	09		SW	CCOMPR&4	X	4	1679	, X47		251
1738	17	10		MCW	7&X2,CCOMPR&6	X	7	1683	M 017 X49		252
1739	17	11		A	@1@,CCOMPR&6	X	7	1690	A Y93 X49		252
1740	17	12		CW	CCOMPR&4	X	4	1697	) X47		252
1741	17	13		MN	CTAPEX&3,CHALT&6	X	7	1701	D X25 Y55		252
1742	17	14		MN	CTAPEX&7,CHALT&6	X	7	1708	D X29 Y55		252
1743	17	15		MCW	@9@,CERRCT#1	X	7	1715	M Y94 Y95		252
1744	17	16	CTAPEX	RT	0,0	X	8	1722	M #00 000 R		253
1745	17	17		BCE	COMETS,CTAPEX&7,W	X	8	1730	B X62 X29 W		253
1746	17	18	CEORC	BEF	0	X	5	1738	B 000 K		253
1747	17	19	CCOMPR	BCE	CTAPEX,0,}	X	8	1743	B X22 000 } GMARK		253
1748	17	20		B		X	1	1751	B		253
1749	17	21		B		X	1	1752	B		253
1750	17	22		B		X	1	1753	B		253
1751	17	23		B		X	1	1754	B		254
1752	17	24		B		X	1	1755	B		254
1753	17	25		B		X	1	1756	B		254
1754	17	26		B		X	1	1757	B		254
1755	17	27		B		X	1	1758	B		254
1756	17	28		B		X	1	1759	B		254
1757	17	29		B		X	1	1760	B		254
1758	17	30		B		X	1	1761	B		255
1759	17	31	COMETS	BER	CRWRED	X	5	1762	B X71 L		255
1760	17	32	CCONPR	B	0	X	4	1767	B 000		255
1761	17	33	CRWRED	S	@1@,CERRCT	X	7	1771	S Y96 Y95		255
1762	17	34	MN	CTAPEX&3,*&4	X	7	1778	D X25 X88		255	
1763	17	35		BSP	0	X	5	1785	U #00 B		255
1764	17	36		BCE	CTROW,CTAPEX&7,W	X	8	1790	B Y10 X29 W		255
1765	17	37		BM	CHALT,CERRCT	X	8	1798	V Y49 Y95 K		256
1766	17	38		B	CTAPEX	X	4	1806	B X22		256
1767	17	39	CTROW	A	@1@,CERASC#2	X	7	1810	A Y96 Y98		256
1768	17	40		SKP	6	X	5	1817	U #06 E		256
1769	17	41		BCE	CCHALT,CERASC-1,5	X	8	1822	B Y34 Y97 5		256
1770	17	42		B	CTAPEX-7	X	4	1830	B X15		256
1771	17	43	CCHALT	S	CERASC	X	4	1834	S Y98		257
1772	17	44		H	0,202	X	7	1838	. 000 202		257
1773	17	45		B	CTAPEX-7	X	4	1845	B X15		257
1774	17	46	CHALT	H	0,200	X	7	1849	000 200		257
1775	17	47		BSS	CTAPEX-7,E	X	5	1856	B X15 E		257

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1776	17	48		MCW	CTAPEX&7,*&8	X	7	1861	M X29 Y75		257
1777	17	49		RT	0,0	X	8	1868	M #00 000 R		258
1778	17	50		H	0,201	X	7	1876	. 000 201		258
1779	17	51		B	CCONPR	X	4	1883	B X67		258
1780	17	52	HEADR	DCW	@HEADR@	X	5	1891			258
1781	17	53		LTORG	*	X			1892		
				DCW	@12@	X	2	1893		LIT	258
				DCW	@9@	X	1	1894		LIT	258
				CERRCT	DCW #01	X	1	1895		AREA	258
				DCW	@1@	X	1	1896		LIT	259
				CERASC	DCW #02	X	2	1898		AREA	259
1782	17	54	*		INITIALIZATION						
1783	17	55	*								
1784	17	56	*								
1785	17	57		ORG	1900	X		1900			
1786	17	58	STARTX	MCW	340,IOCSAV	X	7	1900	M 340 H10		260
1787	17	59		MCW		X	1	1907	M		260
1788	17	595		MCW	NORDRL,HOLE#1	X	7	1908	M W12 155		260
1789	17	60		B	CTAPE	X	4	1915	B W50		260
1790	17	61		NOP	TDFSS	X	4	1919	N 268		260
1791	17	62		CW	GMI	X	4	1923	) W49		260
1792	17	63		SW	3998	X	4	1927	, 198		260
1793	17	64		MCW	LIPUT&1,3998	X	7	1931	M 187 198		261
1794	17	65		CW	3995,3997	X	7	1938	) 195 197		261
1795	17	66		BSS	ALTERX,B	X	5	1945	B 277 B		261
1796	17	67		RWD	1	X	5	1950	U #01 R		261
1797	17	675		MCW	HOLE,CARDSX	X	7	1955	M 155 189		261
1798	17	68		B	STARTA	X	4	1962	B 101		261
1799	17	69	TDFSS	DCW	&CCHALT	X	3	1968	Y34		261
1800	17	70		DCW	@L&U1001R@	X	8	1976			262
1801	17	71	ALTERX	B	CTAPEX	X	4	1977	B W50		262
1802	17	72		NOP	TDFSS	X	4	1981	N 268		262
1803	17	73		CW	GM2XXX	X	4	1985	) '43		262
1804	17	74		RWD	1	X	5	1989	U #01 R		262
1805	17	75		MCW	IOCSAV,SYMNM	X	7	1994	M H10 W01		262
1806	17	76		MCW	&IOCALT,SWITCH&3	X	7	2001	M 158 L04		262
1807	17	77		SBR	HAPPY&3,STRING	X	7	2008	H N73 156		263
1808	17	78		MCW	@N@,OUTSB	X	7	2015	M 159 041		263
1809	17	79		MCW	@N@,BUT1X	X	7	2022	M 159 037		263
1810	17	80		MCW	@N@,BUT2X	X	7	2029	M 159 089		263
1811	17	81		BCE	VOICEB,IOCSAV-3,*	X	8	2036	B 101 H07 *		263
1812	17	82		MCW	@N@,SWMA2B	X	7	2044	M 159 759		264
1813	17	83		B	VOICEB	X	4	2051	B 101		264
1814	17	84		LTORG	*	X			2055		
				HOLEX	DCW #01	X	1	2055		AREA	264
				DCW	&IOCALT	X	3	2058	106	ADCON	264
				DCW	@N@	X	1	2059		LIT	264
1815	17	85		ORG	1900	X		1900			
1816	17	86		DA	1X174	X		1900	2073		
1817	17	87	CALLT	EQU	*	X		2073			

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1818	17	88	*								
1819	17	89	*	PROCESS	MISSING PARAMETERS WITH REGARD TO ZONE						
1820	17	90	*								
1821	17	91	CHZON	BWZ	SLASH,MAINX&2&X1,S	X	8	2074	V J08 0'3 S		265
1822	17	92		BWZ	DELET,MAINX&2&X1,B	X	8	2082	V D41 0'3 B		265
1823	17	93		MCW	@B@,MAINX&85	X	7	2090	M H44 086		265
1824	17	94	ZONBR	CW	MAINX&X1,MAINX&3&X1	X	7	2097	) 0'1 0'4		265
1825	17	95	ZONCH	B	DEFND	X	4	2104	B ?41		265
1826	17	96	SLASH	MCW	BLANKS-2,MAINX&2&X1	X	7	2108	M W14 0'3		266
1827	17	97		B	ZONBR	X	4	2115	B !97		266
1828	17	98	SUBSET	MCW	@NB, SWITCH	X	7	2119	M H45 L01		266
1829	17	99		MCW	@B@,NEXTCD	X	7	2126	M H44 N66		266
1830	18	00		MCW	CHARCS,MAINX&74	X	7	2133	M U60 075		266
1831	18	01		B	CALIT	X	4	2140	B J58		266
1832	18	02	MASKS	MCW	@B@,NOCAL	X	7	2144	M H44 K20		267
1833	18	03	*								
1834	18	04	*	PROCESSING CALL STATEMENT							
1835	18	05	*								
1836	18	06	CALLN	MCW	CHARCR,MAINX&74	X	7	2151	M U62 075		267
1837	18	07	CALIT	MCW	ADDCAL,INDEX2 BEGIN SCAN OF CALL TABLE	X	7	2158	M W08 094		267
1838	18	08		SW	MAINX&20	X	4	2165	, 021		267
1839	18	09	YSCALX	BCE	XXXX,INDEX2-2,Y Q. CALL TABLE EXCEEDED	X	8	2169	B K90 092 Y		267
1840	18	10		C	0&X2,@ @	X	7	2177	C 010 H48		268
1841	18	11		BE	SPADEX	X	5	2184	B K09 S		268
1842	18	12		C	0&X2,MAINX&22	X	7	2189	C 010 023		268
1843	18	13		SAR	INDEX2	X	4	2196	Q 094		268
1844	18	14		BE	QUEEN	X	5	2200	B K16 S		268
1845	18	15		B	YSCALX	X	4	2205	B J69		268
1846	18	16	SPADEX	MCW	MAINX&22,0&X2	X	7	2209	M 023 010		268
1847	18	17	QUEEN	CW	MAINX&20	X	4	2216	) 021		269
1848	18	18	NOCALX	NOP	SKELCX	X	4	2220	N R17		269
1849	18	19		B	SBROT	X	4	2224	B O33		269
1850	18	20		BCE	SWITCH,MAINX&19,D Q. INCLD STATEMENT	X	8	2228	B L01 020 D		269
1851	18	21	*								
1852	18	22	*	LOAD PARAMETES INTO TABLE							
1853	18	23	*								
1854	18	24		MCW	MAINX&10,PARTB	X	7	2236	M 011 466		269
1855	18	25		SBR	INDEX3	X	4	2243	H 099		269
1856	18	26		S	INDEX1&1	X	4	2247	S 090		269
1857	18	27	DIMNDX	B	SCANXX	X	4	2251	B M19		270
1858	18	28		SW	1	X	4	2255	, 001		270
1859	18	29	LCA	MAINX&18&X1,0&X3	X	7	2259	L 0'9 0'0		270	
1860	18	30		SBR	INDEX3	X	4	2266	H 099		270
1861	18	31	BCE	HEARTX,MAINX&19&X1,	X	8	2270	B L09 080		270	
1862	18	32	BCE	WEEDBX,MAINX&19&X1,,	X	8	2278	B N39 080 ,		270	
1863	18	33		B	DIMNDX	X	4	2286	B K51		270
1864	18	34	XXXX	MCW	@7@,MAINX&85	X	7	2290	M H49 086		271
1865	18	35	WHYYY	B	SBROT	X	4	2297	B O33		271
1866	18	36	SWITCH	B	READTA	X	4	2301	B 467		271
1867	18	37		B	POTS	X	4	2305	B U15		271

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1868	18	38	*								
1869	18	39	*	GENERATE BRANCH AND DCW,S							
1870	18	40	*								
1871	18	41	HEARTX	LCA	@ @,0&X3	X	7	2309	L H50 0'0		271
1872	18	42		CS	LMAINX	X	4	2316	/ 086		271
1873	18	43		MCW	PARTB,MAINX&10	X	7	2320	M 466 011		271
1874	18	44		MCW	PARTB-6,MAINX&24	X	7	2327	M 460 025		272
1875	18	45		SAR	INDEX3	X	4	2334	Q 099		272
1876	18	46		MCW	@B@,MAINX&15	X	7	2338	M H44 016		272
1877	18	47	SLAM	MCW	CHARCC,MAINX&74	X	7	2345	M U61 075		272
1878	18	48		MCW	INDEX3,SAVXL2#3	X	7	2352	M 099 H53		272
1879	18	49		MCW	SAVXL2,INDEX3	X	7	2359	M H53 099		272
1880	18	50		CW	MAINX&23	X	4	2366	) 024		273
1881	18	51		B	SBROT	X	4	2370	B O33		273
1882	18	52		CS	LMAINX	X	4	2374	/ 086		273
1883	18	53	BCE	SWITCH,0&X3,	X	8	2378	B L01 0'0		273	
1884	18	54		MCW	@DCW@,MAINX&17	X	7	2386	M H56 018		273
1885	18	55		MCW	INDEX3,INDEX2	X	7	2393	M 099 094		273
1886	18	56		B	SBGRDX	X	4	2400	B G46		273
1887	18	57		MCW	0&X3,MAINX&20&X1	X	7	2404	M 0'0 051		274
1888	18	58		SAR	INDEX3	X	4	2411	Q 099		274
1889	18	59		B	SLAM	X	4	2415	B L45		274
1890	18	60	*								
1891	18	61	*	SCAN FOR COMMA, TWO BLANKS, OR AN @							
1892	18	62	*								
1893	18	63	SCANXX	SBR	CLUBS&3	X	4	2419	H N12		274
1894	18	64	SCANL	SW	MAINX&20	X	4	2423	, 021		274
1895	18	65		BCE	SCNAT,MAINX&20&X1,@	X	8	2427	B N13 0S1 @		274
1896	18	66		BCE	CETWMS,MAINX&20&X1,,	X	8	2435	B M98 0S1 ,		274
1897	18	67		C	MAINX&20&X1,@ @	X	7	2443	C 0S1 H58		275
1898	18	68		BE	CLUBS	X	5	2450	B N09 S		275
1899	18	69	CXIT1	A	@1@,INDEX1	X	7	2455	A H59 089		275
1900	18	70		C	INDEX1,@52@	X	7	2462	C 089 H61		275
1901	18	71		BU	SCANL	X	5	2469	B M23 /		275
1902	18	72		C	MAINX&71,@ @	X	7	2474	C 072 H58		275
1903	18	73		BE	CLUBS	X	5	2481	B N09 S		276
1904	18	74		BCE	CLUBS,MAINX&71,	X	8	2486	B N09 072		276
1905	18	75		B	CXIT	X	4	2494	B N02		276
1906	18	76	CETWMS	SW	MAINX&21&X1	X	4	2498	, 0S2		276
1907	18	77	CXIT	A	@1@,INDEX1	X	7	2502	A H59 089		276
1908	18	78		CLUBS	B	X	4	2509	B 000		276
1909	18	79	SCNAT	ZA	@510@,INDEX1&1	X	7	2513	? H64 090		276
1910	18	80	ATLOK	BCE	CXIT1,MAINX&20&X1,@	X	8	2520	B M55 0S1 @		277
1911	18	81		S	&10,INDEX1&1	X	7	2528	S H66 090		277
1912	18	82		B	ATLOK	X	4	2535	B N20		277
1913	18	83	*								
1914	18	84	*	OBTAIN MORE PARAMETERS FROM ADDITIONAL RECORDS							
1915	18	85	*								
1916	18	86	WEEDBX	SBR	WEDXT&3	X	4	2539	H 021		277
1917	18	87		B	NEWED	X	4	2543	B N54		277

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1918	18	88	WEDDBX	A	@1@,INDEX1	X	7	2547	A H59 089		277
1919	18	89	NEWEDD	C	INDEX1,@52@	X	7	2554	C 089 H61		278
1920	18	90		BU	LOOPW	X	5	2561	B 006 /		278
1921	18	91	NEXTCD	NOP	CALLCD	X	4	2566	N G80		278
1922	18	92	HAPPY	B	TWEDBA READ NEXT RECORD	X	4	2570	B 653		278
1923	18	93		NOP		X	1	2574	N		278
1924	18	94		MCW	CHARCR,MAINX&74	X	7	2575	M U62 075		278
1925	18	95	THRU	B	SBROTX	X	4	2582	B 033		278
1926	18	96		BCE	HAPPY,MAINX&5,*	X	8	2586	B N70 006 *		279
1927	18	97		S	INDEX1&1	X	4	2594	S 090		279
1928	18	98		BCE	MOVEC,MAINX&20,, Q. FIRST PARAMETER MISSING	X	8	2598	B V20 021 ,		279
1929	18	99	LOOPW	BCE	WEDDBX,MAINX&20&X1,	X	8	2606	B N47 051		279
1930	19	00		SW	MAINX&20&X1	X	4	2614	, 051		279
1931	19	01	WEDXT	B	0	X	4	2618	B 000		279
1932	19	02	TDF6	DCW	&CCHALT	X	3	2624	Y34		279
1933	19	03		DCW	@M%U6I12W@	X	8	2632			280
1934	19	04	*								
1935	19	05	*	OUTPUT ROUTINE							
1936	19	06	*								
1937	19	07	SBROTX	SBR	BRNCH&3	X	4	2633	H 099		280
1938	19	08	BUT1X	B	HOMEX	X	4	2637	B 048		280
1939	19	09	OUTSB	MCW	ANTPER,COMETS&3	X	7	2641	M 955 X65		280
1940	19	10	HOMEX	MCW	LMAIN,LOPUT	X	7	2648	M 086 I97		280
1941	19	11		BCE	BUT2X,OUTPT&73,*	X	8	2655	B 089 I85 *		280
1942	19	12		MCW	BLANKS-3,OUTPT&73	X	7	2663	M W13 I85		281
1943	19	13		SW	LOPUT&1	X	4	2670	, I98		281
1944	19	14		MCW	LIPUT&1,LOPUT&1	X	7	2674	M 187 I98		281
1945	19	15		B	CTAPEX	X	4	2681	B W50		281
1946	19	16		NOP	TDF6	X	4	2685	N 024		281
1947	19	17	BUT2X	MCW	ACRWED,COMETS&3	X	7	2689	M 958 X65		281
1948	19	18	BRNCH	B	0	X	4	2696	B 000		281
1949	19	19	*								
1950	19	20	*	PROCESS PARAMETERS FOR SUBSTITUTION							
1951	19	21	*								
1952	19	22	MSUBTX	MCW	@R@,MAINX&74	X	7	2700	M H67 075		282
1953	19	23		B	SBROTX	X	4	2707	B 033		282
1954	19	24		A	@1@,SYMMN	X	7	2711	A H59 W01		282
1955	19	25	SGC	MCW	MAINX&17,HLDSE	X	7	2718	M 018 192		282
1956	19	26		S	ENDDC	X	4	2725	S V19		282
1957	19	27		CHAIN	8	X				MACRO	
1958				S		X	1	2729	S	GEN	282
1959				S		X	1	2730	S	GEN	282
1960				S		X	1	2731	S	GEN	283
1961				S		X	1	2732	S	GEN	283
1962				S		X	1	2733	S	GEN	283
1963				S		X	1	2734	S	GEN	283
1964				S		X	1	2735	S	GEN	283
1965				S		X	1	2736	S	GEN	283
1966	19	28		S	INDEX2&2	X	4	2737	S 096		283
1967	19	29		A	@3@,INDEX2&1	X	7	2741	A H68 095		284

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1968	19	30		MCW	MAINX&10,PARTE	X	7	2748	M 011 466		284
1969	19	31		SBR	INDEX3	X	4	2755	H 099		284
1970	19	32		S	INDEX1&1	X	4	2759	S 090		284
1971	19	33		BCE	BTREND,MAINX&20,	X	8	2763	B Q25 021		284
1972	19	34		BCE	MOVEC,MAINX&20,,	X	8	2771	B V20 021 ,		284
1973	19	35	COMSN	A	@3@,INDEX2&1	X	7	2779	A H68 095		285
1974	19	36		BCE	ABOVE,INDEX2&1,3	X	8	2786	B H33 095 3		285
1975	19	37	BELOW	B	SCANXX	X	4	2794	B M19		285
1976	19	38		LCA	MAINX&18&X1,0&X3	X	7	2798	L 0/9 070		285
1977	19	39		SBR	INDEX3	X	4	2805	H 099		285
1978	19	40		BCE	MOVEC,MAINX&20&X1,,	X	8	2809	B V20 051 ,		285
1979	19	41		BCE	WEDD,MAINX&19&X1,,	X	8	2817	B V65 050 ,		286
1980	19	42	BTREND	LCA	@,,0&X3	X	7	2825	L H69 070		286
1981	19	43		CS	LMAINX	X	4	2832	/ 086		286
1982	19	44		C	PREVS#3,HLDSE	X	7	2836	C H72 192		286
1983	19	45		MCW	@999@,PREVS	X	7	2843	M H75 H72		286
1984	19	46		BE	HARMN	X	5	2850	B R65 S		286
1985	19	47		BH	RDTT1	X	5	2855	B Q65 U		287
1986	19	48	EOF1	RWD	1	X	5	2860	U %U1 R		287
1987	19	49	*								
1988	19	50	*	SUBSTITUTIONS							
1989	19	51	*								
1990	19	52	RDTT1	SW	100	X	4	2865	, 100		287
1991	19	53		B	CTAPE	X	4	2869	B W50		287
1992	19	54		NOP	TDFLIB	X	4	2873	N B18		287
1993	19	55		C	MAINX&19,HEADR	X	7	2877	C 020 Y91		287
1994	19	56		BU	RDTT1	X	5	2884	B Q65 /		287
1995	19	57		C	MAINX&7,@999@	X	7	2889	C 008 H75		288
1996	19	58		BE	KINGS	X	5	2896	B U63 S		288
1997	19	59		C	MAINX&7,HLDSE	X	7	2901	C 008 192		288
1998	19	60		BU	RDTT1	X	5	2908	B Q65 /		288
1999	19	61		B	HARMN	X	4	2913	B R65		288
2000	19	62	SKELC	MCW	@N@,NOCAL	X	7	2917	M H45 K20		288
2001	19	63		MCW	CHARCS,MAINX&74	X	7	2924	M U60 075		289
2002	19	64		B	SBROT	X	4	2931	B 033		289
2003	19	65		BCE	HARMN,MAINX&19,D	X	8	2935	B R65 020 D		289
2004	19	66		MCW	@B @,MAINX&19	X	7	2943	M H80 020		289
2005	19	67	BOUTS	CW	ZEROX	X	4	2950	) 188		289
2006	19	68		MCW	CHARCC,MAINX&74	X	7	2954	M U61 075		289
2007	19	69		B	SBROTX	X	4	2961	B 033		290
2008	19	70	HARMN	CS	LMAINX	X	4	2965	/ 086		290
2009	19	71		SW	1,100	X	7	2969	, 001 100		290
2010	19	72		MCW	LIPUT&1,100	X	7	2976	M 187 100		290
2011	19	73		B	CTAPEX	X	4	2983	B W50		290
2012	19	74		NOP	TDFLIB2	X	4	2987	N B29		290
2013	19	75		C	MAINX&19,HEADR	X	7	2991	C 020 Y91		290
2014	19	76		MCW	MAINX&7,PREVS	X	7	2998	M 008 H72		291
2015	19	77		BE	SWITCH	X	5	3005	B L01 S		291
2016	19	78		C	MAINX&7,@)00@	X	7	3010	C 008 H83		291
2017	19	79		BU	LZFPND	X	5	3017	B ?26 /		291

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
2018	19	80		SW	ZEROX	X	4	3022	, 188		291
2019	19	81	*								
2020	19	82	*	RIGHT TO	LEFT SCAN FOR LOZENGES						
2021	19	83	*								
2022	19	84	LZPND	ZA	@690@,INDEX1&1	X	7	3026	? H86 090		291
2023	19	85	LOZSC	BCE	LZCNT,MAINX&X1,)	X	8	3033	B B38 0'1 )		292
2024	19	86	DEFND	S	&10,INDEX1&1	X	7	3041	S H66 090		292
2025	19	87		C	INDEX1,@15@	X	7	3048	C 089 H88		292
2026	19	88		BU	LOZSC	X	5	3055	B ?33 /		292
2027	19	89		S	INDEX1&1	X	4	3060	S 090		292
2028	19	90	CLEANC	B	SCANXX	X	4	3064	B M19		292
2029	19	91		CW	MAINX&20,MAINX&20&X1	X	7	3068	) 021 051		293
2030	19	92		C	INDEX1,@51@	X	7	3075	C 089 H90		293
2031	19	93		BL	ENDCLN	X	5	3082	B A26 T		293
2032	19	94		C	MAINX&20&X1,@ @	X	7	3087	C 051 H58		293
2033	19	95		BU	CLEANC	X	5	3094	B ?64 /		293
2034	19	96		BCE	ENDCLN,MAINX&5,*	X	8	3099	B A26 006 *		293
2035	19	97		SW	MAINX&20&X1	X	4	3107	, 051		294
2036	19	98		MCW	BLANKS-4,MAINXX&71	X	7	3111	M W12 072		294
2037	19	99		MCW	MAINXX&71	X	4	3118	M 072		294
2038	20	00		CW	MAINXX&20&X1	X	4	3122	) 051		294
2039	20	01	*								
2040	20	02	*	RIGHT TO	LEFT SCAN FOR LOZENGES 6 - 20						
2041	20	03	*								
2042	20	04	ENDCLN	MCW	@015@,INDEX1	X	7	3126	M H93 089		294
2043	20	05		SBR	ZONCH&3,UPENGL	X	7	3133	H J07 A48		294
2044	20	06	ENGLOZ	BCE	LOZENG,MAINX&X1,)	X	8	3140	B '57 0'1 )		295
2045	20	07	UPENGL	S	&10,INDEX1&1	X	7	3148	S H66 090		295
2046	20	08		C	INDEX1,@04@	X	7	3155	C 089 H95		295
2047	20	09		BU	ENGLOZ	X	5	3162	B A40 /		295
2048	20	10	OUTSD	SBR	ZONCH&3,DEFND	X	7	3167	H J07 ?41		295
2049	20	11	SHIFTL	NOP	PARTB,MAINX&10	X	7	3174	N 466 011		296
2050	20	12		MCW	@N@,SHIFTL	X	7	3181	M H45 A74		296
2051	20	13		C	MAINX&18,WHOOFS	X	7	3188	C 019 W05		296
2052	20	14		BE	MASKS	X	5	3195	B J44 S		296
2053	20	15		C	MAINX&19,INCLD	X	7	3200	C 020 U59		296
2054	20	16		BE	MASKS	X	5	3207	B J44 S		296
2055	20	17		B	BOUITS	X	4	3212	B R50		297
2056	20	18	TDFLIB	DCW	&KINGS	X	3	3218	U63		297
2057	20	19		DCW	@M%U1001R@	X	8	3226			297
2058	20	20	TDFLB2	DCW	&EOF1B	X	3	3229	'44		297
2059	20	21		DCW	@M%U1001R@	X	8	3237			297
2060	20	22	*								
2061	20	23	*	PROCESS	LOZENGED FIELDS 21 - 72						
2062	20	24	*								
2063	20	25	LZCNT	BCE	DEFND,MAINX&1&X1,	X	8	3238	B ?41 0'2		297
2064	20	26		SW	MAINX&X1,MAINX&3&X1	X	7	3246	, 0'1 0'4		298
2065	20	27		BM	SYSTEM,MAINX&2&X1	X	8	3253	V C56 0'3 K		298
2066	20	28		B	LABEL	X	4	3261	B /19		298
2067	20	29		MCW	INDEX3,SAVX3#3	X	7	3265	M 099 H98		298

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
2068	20	30		S	INDEX3,WAREA	X	7	3272	S 099 W22		298
2069	20	31		MZ	BLANKS,WAREA	X	7	3279	Y W16 W22		299
2070	20	32		MCW	@I99@,INDEX3	X	7	3286	M I01 099		299
2071	20	33		S	WAREA,INDEX3	X	7	3293	S W22 099		299
2072	20	34		MCW	@I@,INDEX3-2	X	7	3300	M I02 097		299
2073	20	35		C	INDEX3,@I9F@	X	7	3307	C 099 I05		299
2074	20	36		BL	SPTYP	X	5	3314	B C78 T		300
2075	20	37		MCW	MAINX&76&X3,MAINX&72	X	7	3319	M 0G7 073		300
2076	20	38		SBR	MOVE3&6	X	4	3326	H C47		300
2077	20	39	LMN	CW	MAINX&3&X1	X	4	3330	) 0'4		300
2078	20	40		MCW	SAVX3,INDEX3	X	7	3334	M H98 099		300
2079	20	41	MOVE3	MCW	0&X3,0	X	7	3341	M 0?0 000		300
2080	20	42		CW	MAINX&X1	X	4	3348	) 0'1		300
2081	20	43		B	DEFND	X	4	3352	B ?41		301
2082	20	44	SYSTEM	MCW	MAINX&68,MAINX&71	X	7	3356	M 069 072		301
2083	20	45		MCW	SYMM	X	4	3363	M W01		301
2084	20	46		CW	MAINX&X1,MAINX&3&X1	X	7	3367	) 0'1 0'4		301
2085	20	47		B	DEFND	X	4	3374	B ?41		301
2086	20	48	*								
2087	20	49	*	SPECIALIZED	PROCESSING OF ONE AND TWO CHARACTER OPERANDS						
2088	20	50	*								
2089	20	51	SPTYP	LCA	MAINX&72,OUTPT&72	X	7	3378	L 073 I84		301
2090	20	52		CW	MAINX&X1,MAINX&3&X1	X	7	3385	) 0'1 0'4		302
2091	20	53		MCW	BLANKS-2,MAINX&71	X	7	3392	M W14 072		302
2092	20	54		BCE	HOUSE,INDEX3,H	X	8	3399	B D22 099 H		302
2093	20	55		MCW	OUTPT&72,MAINX&71	X	7	3407	M I84 072		302
2094	20	56		SBR	MOVE3&6	X	4	3414	H C47		302
2095	20	57		B	SPOUT	X	4	3418	B D33		302
2096	20	58	HOUSE	MCW	OUTPT&72,MAINX&70	X	7	3422	M I84 071		303
2097	20	59		SBR	MOVE3&6	X	4	3429	H C47		303
2098	20	60	SPOUT	CW	OUTPT&3&X1	X	4	3433	) I/5		303
2099	20	61		B	LMN	X	4	3437	B C30		303
2100	20	62	DELET	BW	LBLMV,ZEROX	X	8	3441	V D53 188 1		303
2101	20	63		B	HARMN	X	4	3449	B R65		303
2102	20	64	LBLMV	MCW	@M@,SHIFTL	X	7	3453	M I06 A74		303
2103	20	65		CW	ZEROX	X	4	3460	) 188		304
2104	20	66		B	HARMN	X	4	3464	B R65		304
2105	20	67	MLBLZ	MCW	SYMM,MAINX&10	X	7	3468	M W01 011		304
2106	20	68		B	OUTSD	X	4	3475	B A67		304
2107	20	69	*								
2108	20	70	*	PULL IN	CALLED ROUTINES AT L/TORG, END OR EXECUTE CARDS						
2109	20	71	*								
2110	20	72		EXIT	SBR	CEXIT1&3	X	4	3479	H G45	304
2111	20	73		RWDEXT	RWD	1	X	5	3483	U #U1 R	304
2112	20	74		CWPRC	CW	NEWEST	X	4	3488	) V98	304
2113	20	75		TPRD1	SW	100	X	4	3492	, 100	305
2114	20	76		MCW	LIPUT&1,100	X	7	3496	M I87 100		305
2115	20	77		B	CTAPEX	X	4	3503	B W50		305
2116	20	78		NOP	TDPEXT	X	4	3507	N T44		305
2117	20	79		C	MAINX&19,HEADR	X	7	3511	C 020 Y91		305

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
2118	20	80		BU	TPRD1	X	5	3518	B D92 /		305
2119	20	81	SOLUT	C	MAINX&7,@999@	X	7	3523	C 008 H75		305
2120	20	82		BE	EOF1A	X	5	3530	B F56 S		306
2121	20	83	OPPENT	MCW	ADDCAL,INDEX1	X	7	3535	M W08 089		306
2122	20	84	PRTRNER	BCE	TPRD1,INDEX1-2,Y	X	8	3542	B D92 087 Y		306
2123	20	85		SW	MAINX&5	X	4	3550	, 006		306
2124	20	86		C	0&X1,MAINX&7	X	7	3554	C 0'0 008		306
2125	20	87		SAR	INDEX1	X	4	3561	Q 089		306
2126	20	88		BU	PRTRNER	X	5	3565	B E42 /		307
2127	20	89		BW	TPRD1,1&X1	X	8	3570	V D92 0'1 1		307
2128	20	90		CW	MAINX&5	X	4	3578	) 006		307
2129	20	91		SW	1&X1	X	4	3582	, 0'1		307
2130	20	92		SW	NEWEST	X	4	3586	, V98		307
2131	20	93	COOKER	B	CTAPEX	X	4	3590	B W50		307
2132	20	94		NOP	TDPEXT	X	4	3594	N T44		307
2133	20	95		C	MAINX&18,WHOOPS	X	7	3598	C 019 W05		308
2134	20	96		BE	SUBSET	X	5	3605	B J19 S		308
2135	20	97		C	MAINX&19,INCLD	X	7	3610	C 020 U59		308
2136	20	98		BE	SUBSET	X	5	3617	B J19 S		308
2137	20	99		C	MAINX&19,HEADR	X	7	3622	C 020 Y91		308
2138	21	00		BE	SOLUT	X	5	3629	B E23 S		308
2139	21	01		MCW	CHARCC,MAINX&74	X	7	3634	M U61 075		309
2140	21	02		LCA	LOPUT&1,100	X	7	3641	L I98 100		309
2141	21	03		B	SBROT	X	4	3648	B O33		309
2142	21	04		B	COOKER	X	4	3652	B E90		309
2143	21	05	EOF1A	MCW	ADDCAL,INDEX1	X	7	3656	M W08 089		309
2144	21	06	COMBL	BCE	CEXIT,INDEX1-2,Y	X	8	3663	B G26 087 Y		309
2145	21	07		C	0&X1,@ @	X	7	3671	C 0'0 H48		310
2146	21	08		SAR	INDEX1	X	4	3678	Q 089		310
2147	21	09		BE	CEXIT	X	5	3682	B G26 S		310
2148	21	10		BW	COMBL,1&X1	X	8	3687	V F63 0'1 1		310
2149	21	11		BW	RWDEXT,NEWEST	X	8	3695	V D83 V98 1		310
2150	21	12		*							
2151	21	13		*	CREATE COMMENTS CARD FOR UNKNOWN SUBROUTINES						
2152	21	14		*							
2153	21	15	UNKNWN	B	NOROT	X	4	3703	B T75		310
2154	21	16		SW	1&X1	X	4	3707	, 0'1		311
2155	21	17		MCW	3&X1,MAINX&10	X	7	3711	M 0'3 011		311
2156	21	18		B	SBROT	X	4	3718	B O33		311
2157	21	19		B	COMBL	X	4	3722	B F63		311
2158	21	20	CEXIT	CS	CALLT	X	4	3726	/ 173		311
2159	21	21		CS		X	1	3730	/		311
2160	21	22		CW	100	X	4	3731	) 100		311
2161	21	23		MCW	@999@,PREVS	X	7	3735	M H75 H72		312
2162	21	24	CEXIT1	B	0	X	4	3742	B 000		312
2163	21	25	SBGRD	SBR	GRAND&3	X	4	3746	B G57		312
2164	21	26		S	INDEX1&1	X	4	3750	S 090		312
2165	21	27	GRAND	BW	0,0&X2	X	8	3754	V 000 010 1		312
2166	21	28		S	@10@,INDEX2&1	X	7	3762	S I08 095		312
2167	21	29		A	@1@,INDEX1	X	7	3769	A H59 089		313

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
2168	21	30		B	GRAND	X	4	3776	B G54		313
2169	21	31	CALLCD	CS	LMAINX	X	4	3780	/ 086		313
2170	21	32		B	CTAPE	X	4	3784	B W50		313
2171	21	33		NOP	TDPEXT	X	4	3788	N T44		313
2172	21	34		MCW	CHARCS,MAINX&74	X	7	3792	M U60 075		313
2173	21	35		SW	1	X	4	3799	, 001		313
2174	21	36		B	THRU	X	4	3803	B N82		314
2175	21	37	IOCSAV	DCW	#4	X	4	3810			314
2176	21	38	CHAINX	MCW	@R@,MAINX&74	X	7	3811	M H67 075		314
2177	21	39		B	WHYYY	X	4	3818	B K97		314
2178	21	40	MIDLE	MCW	INDEX3,DECTB&X2	X	7	3822	M 099 UR2		314
2179	21	41		B	LOWER	X	4	3829	B V46		314
2180	21	42	ABOVE	MCW	INDEX3,DECTB&X2	X	7	3833	M 099 UR2		314
2181	21	43		B	BELOW	X	4	3840	B P94		315
2182	21	44		LTORG	*	X			3844		
				DCW	@B@	X	1	3844		LIT	315
				DCW	@N@	X	1	3845		LIT	315
				DCW	@ @	X	3	3848		LIT	315
				DCW	@7@	X	1	3849		LIT	315
				DCW	@ @	X	1	3850		LIT	315
			SAVXL2	DCW	#03	X	3	3853		AREA	315
				DCW	@DCW@	X	3	3856		LIT	316
				DCW	@ @	X	2	3858		LIT	316
				DCW	@1@	X	1	3859		LIT	316
				DCW	@52@	X	2	3861		LIT	316
				DCW	@510@	X	3	3864		LIT	316
				DCW	&10	X	2	3866		LIT	316
				DCW	@R@	X	1	3867		LIT	316
				DCW	@3@	X	1	3868		LIT	317
				DCW	@,@	X	1	3869		LIT	317
			PREVSX	DCW	#03	X	3	3872		AREA	317
				DCW	@999@	X	3	3875		LIT	317
				DCW	@B @	X	5	3880		LIT	317
				DCW	@)00@	X	3	3883		LIT	317
				DCW	@690@	X	3	3886		LIT	317
				DCW	@15@	X	2	3888		LIT	318
				DCW	@51@	X	2	3890		LIT	318
				DCW	@015@	X	3	3893		LIT	318
				DCW	@04@	X	2	3895		LIT	318
			SAVX3X	DCW	#03	X	3	3898		AREA	318
				DCW	@I99@	X	3	3901		LIT	318
				DCW	@I@	X	1	3902		LIT	318
				DCW	@I9F@	X	3	3905		LIT	319
				DCW	@M@	X	1	3906		LIT	319
				DCW	@10@	X	2	3908		LIT	319
2183	21	45		*							
2184	21	46		*	OUTPUT AREA						
2185	21	47		*							
2186	21	48		ORG	3912	X		3912			
2187	21	49	OUTPT	DA	1X86,G	X		3912	3997		



SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
2187				DCW	@*@	X	1	3998		GMARK	320
2188	21	50	LOPUT	EQU	*-1	X		3997			
2189	21	51		EX		X			B 000		321
2190	21	52		END	START	X			/ 200 080		

SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS
ABOVEX	3833	ACRWED	958	ACTOUT	1143	ACTSCN	1113	ACTUAL	2089	ADDCAL	1608	AGREEI	1935
ALDIOI	3203	ALDTFI	3308	ALLDIO	2347	ALPHAI	2430	ALTBVI	1497	ALTERI	2763	ALTERX	1977
ALTOIO	2883	ALTR3B	631	ALTR4B	576	ALTR5B	651	ALTR6B	662	ALTS1I	2847	ALTS2E	2860
ALTS2I	2867	ALTS3I	3062	ALTS4E	3075	ALTS4I	3082	ALTSAB	486	ANTPER	955	ANTSTA	803
AREASV	331	ATLOKX	2520	B	86	BALTRI	3903	BELOWX	2794	BETTER	2376	BLANKA	999
BLANKS	1616	BLKFDI	1097	BLOBBI	1572	BLOWAI	1602	BLUEI	627	BOUTSX	2950	BRNCHX	2696
BRTBLI	886	BSPT4I	2904	BTREND	2825	BUT1XX	2637	BUT2XX	2689	BYPASX	522	BYPSSI	3349
BYPSXI	3377	CALITX	2158	CALLCD	3780	CALLNX	2151	CALLTX	2073	CALTRB	602	CARDSB	525
CARDSX	189	CBSPIX	604	CBSP2X	543	CBSP3X	574	CCHALT	1834	CCOMPR	1743	CCONPR	1767
CEORCX	1738	CERASC	1898	CERRCT	1895	CETWMS	2498	CEXIT1	3742	CEXITX	3726	CHAINX	3811
CHAIRI	2663	CHALTX	1849	CHANGE	708	CHARCC	1461	CHARCR	1462	CHARCS	1460	CHARTA	665
CHECKI	3005	CHEXZI	3487	CHTAPI	1187	CHUCKI	231	CHZONX	2074	CIRCLX	1144	CLEANC	3064
CLUBSI	2610	CLUBSX	2509	CMALTB	510	CMCTLI	157	CNTFX	1619	COMBLK	2312	COMBLX	3663
COMEQI	984	COMETS	1762	COMIOC	831	COMPRI	851	COMSNX	2779	CONTIN	2301	COOKER	3590
COUTBI	3708	CRDCLI	138	CRDOUT	2168	CRWRBD	1771	CTAPBC	1722	CTAPEI	1222	CTAPEX	1650
CTROWX	1810	CWPRCX	3488	CXIT1X	2455	CXITX	2502	DBLALI	3013	DBLCKI	3272	DECTBX	1492
DEFNDX	3041	DELETX	3441	DELTAI	2410	DIFREC	2406	DIMNDX	2251	DIOCSB	576	DIOSBI	1147
DIVIDE	568	DRITBI	3682	DTFBR1	1727	DTFGMI	568	DTFINT	1650	DTFLAB	3803	DTFNDI	713
DTFNMI	2391	DTFOUT	2446	DTFTAB	349	EITHER	333	ENDCLN	3126	ENDDCX	1519	ENDDIO	622
ENDDTF	567	ENDSTB	1002	ENDSTX	1478	ENGL0Z	3140	ENTSTA	795	ENTSTB	879	EOP1AX	3656
EOP1BX	1044	EOP1X	2860	EOP4A	934	EXIRBI	2031	EXISBI	992	EXITBI	3669	EXITCX	3479
EXSETA	857	EXSETB	474	FDBLKI	1090	FEATBI	3552	FEWA	605	FILENM	349	FILXZI	3423
FINAL2	3261	FINALI	3252	FINDI	642	FOUNDI	1105	GAMMAI	685	GM1X	1649	GM2XXX	1043
GM0VL2	332	GM0VL4	606	GMWRKR	773	GOODI	2197	GOTITI	670	GRANDX	3754	HALTI	1921
HAPPYX	2570	HARMNX	2965	HAULIT	1264	HEADRX	1891	HEARBI	2537	HEARTX	2309	HLD1A1B	1022
HLD1A1	3902	HLD1B	3907	HLD5BX	192	HOLEX	2055	HOMALI	2812	HOMEXX	2648	HOHAA	745
HOUSEX	3422	ICHALT	1407	ICONPR	1315	ICONPR	1340	IEORCI	1310	IERASC	1643	IERRCT	1641
IHALTI	1422	INCLDX	1459	INDEX1	89	INDEX2	94	INDEX3	99	INDRBI	2071	IOARBI	1947
IOCALT	106	IOCEOF	141	IOCSAV	3810	IODTBI	3577	IOMETX	1335	IRWRED	1344	ITAPEC	1294
ITROWI	1383	KDIOCS	1571	KINGSX	1463	LABDIO	580	LABDTF	350	LABELX	1119	LABTBI	3620
LBLMVX	3453	LBLTBL	3846	LEAVEI	167	LENGTH	743	LETTBI	171	LEXITX	1260	LIPUTI	186
LITORG	1358	LMAINX	86	LMNX	3330	LODPAR	2219	LONGI	2157	LOOPWX	2606	LOPUTI	3998
LOPUTX	3997	LORGSX	918	LORGSB	494	LOWEX	1546	LOZENG	1057	LOZSCX	3033	LSTCDB	686
LSTPAR	2675	LUNETI	3334	LZCNTX	3238	LZFNDX	3026	MACROB	931	MAINXI	1	MAINXX	1
MANYA	633	MASBET	1433	MASKSX	2144	MCOUTB	958	MIDLEX	3822	MINUS2	2	MINUS3	3
MLBLZX	3468	MODXZI	3430	MOVE3X	3341	MOVECX	1520	MOVINT	1199	MSUBTX	2700	NEWEED	2554
NEWEST	1598	NEWSCN	1006	NEWWRT	2135	NEXRCX	681	NEXTCD	2566	NOALTB	2820	NOCALX	2220
NOPLCI	183	NOPJBI	205	NORDRL	1612	NOROTX	1375	NOSIRA	914	NOSOLI	131	NOTERI	220
NPCLXI	201	NPJRXI	216	NROTXC	1411	NTPERA	881	NUMERC	1541	NUORIG	1044	NWEXTI	1101
NWSCNL	1021	OKAYB	467	OPDARI	1626	OPDFND	2687	OPDRTN	2625	OPDSCN	2614	OPPENT	3535
ORDNI	3185	OTHERI	101	OUTCLI	119	OUTIOC	859	OUTMCB	943	OUTPTI	3912	OUTPTX	3912
OUTS2A	758	OUTSBX	2641	OUTSDX	3167	OVEJKI	2020	OVERBI	2006	OVERI	1649	OVEXZI	3513
OVLAY2	2732	OVL3I1	341	OVL4I1	434	PACKSI	3001	PACKSI	2943	PARKSI	2993	PARTBX	466
PASS2I	1506	PASSI1	1460	POTSX	1415	PREEMB	506	PREPS2	662	PREVSX	3872	PROPRE	2840
PRTNER	3542	PUNCHI	101	PUTINX	1244	QUEENB	2216	RDT4AI	3241	RDTPLX	2865	READSI	3910
READTA	467	REASBI	1173	REATBI	3727	REXZI	3455	REDA	132	REDEXT	806	REDREC	774
REGENI	3144	REGLI	2927	REWZDI	3500	RHOA	763	RIVERI	2494	RNDTFI	2516	ROBNI	623
RSOLVI	175	RWEDA	677	RWEDI	798	RWDEXT	3483	RWTBI	3695	SAVCDI	2698	SAVLX	1611
SAVKZ1	3889	SAVK3X	3898	SAVKLI	3865	SAVKL2	3853	SAVXTI	3330	SAVXXI	3319	SBGRDX	3746
SBROTX	2633	SCANLI	2559	SCANLX	2423	SCANXI	2555	SCANXX	2419	SCNATX	2513	SCNSWI	1618
SEARCH	2108	SEBK1	1692	SEBKOP	2636	SETDSW	2505	SETITI	2602	SETWMS	2606	SGCX	2718
SHIFTL	3174	SHORTI	750	SIMPLE	1338	SKELCY	2917	SLAMY	2345	SLASHX	2108	SOFTI	3268
SOLUTX	3523	SOLVED	2872	SPEDEX	2209	SPCASI	3174	SPECLI	337	SPOUTX	3433	SPTYPX	3378
STARTA	101	STARTI	101	STARTX	1900	STENDX	450	STRING	156	SUBSET	2119	SUREXX	1308
SVCDXI	2717	SWITCX	2301	SWMA1A	526	SWMA1B	752	SWMA2A	533	SWMA2B	759	SYMMMI	340
SYMMNX	1601	SYSTMX	3356	TABLEI	1374	TAPTBI	3533	TDF1I	2723	TDF4A	699	TDF4AI	3135
TDF4I	812	TDF5X	1589	TDF6I	764	TDF6X	2624	TDF9I	412	TDFE0J	594	TDFEXT	1344
TDFIO5	132	TDFL1B	3229	TDFL1B	3218	TDFRAL	922	TDFSSX	1968	TDFSYS	423	TENSRX	1170
THRU1	634	THRUX	2582	TOTJKI	1995	TOTRBI	1981	TOTXZI	3520	TPRDLX	3492	TREADA	471

TREADB	697	TRPCKI	3284	TSTENA	775	TUFFI	3103	TUNELI	2888	TWDB1A	693	TWEDBA	653
TYPXZI	3474	UNKNWN	3703	UPENGL	3148	UPPERI	821	VOICEB	101	WALKI	2896	WAREAX	1622
WEDDBX	2547	WEDXTX	2618	WEEDBX	2539	WEEDDX	1565	WHOMI	677	WHOOPS	1605	WHYYX	2297
WKAREA	2390	WRTALI	3037	WRTEXT	758	WRTREC	721	XCARDS	3909	XXXXX	2290	YESIRA	896
YOURS	541	YSCALX	2169	ZEROXX	188	ZONBRX	2097	ZONCHX	2104				

\*\*\*\*\* \*\*

3 Errors

ERROR