

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

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SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
101	1	01	001	JOB	1401 AUTOCODER-PASS 2-PROCESS IOCS-MAIN 2 -VERSION 3						
102	1	02		CTL	630 1						
103	1	03		SFX	I						
104	1	04	OTHER	EQU	START			0101			
105	1	05	MINUS2	EQU	START			0002			
106	1	06	MINUS3	EQU	3			0003			
107	1	07	DIOSCB	EQU	LABDIO-4			0576			
108	1	08		ORG	1				0001		
109	1	09	MAINX	DA	1X86			0001	0086		ADDR
110	1	10	LMAINX	EQU	*			0086			
111	1	11	*	XINIT	INDEX1, INDEX2, INDEX3						
112	01		INDEX1	EQU	089			0089			
113	02		089	DCW	000			3 0089			4
114	04		091	DC	00			2 0091			4
115	05		INDEX2	EQU	094			0094			
116	06		094	DCW	000			3 0094			4
117	08		096	DC	00			2 0096			4
118	09		INDEX3	EQU	099			0099			
119	10		099	DCW	000			3 0099			4
120	12		100	DC	0			1 0100			4
121	1	12	*								
122	1	13	*	START OF MAIN LINE							
123	1	14	*								
124	1	15		ORG	101				0101		
125	1	16	START	RWD	4			5 0101	U %U4 R		4
126	1	17		RWD	5			5 0106	U %U5 R		4
127	1	18		RWD	6			5 0111	U %U6 R		4
128	1	19	BSS	OVLAY2,B				5 0116	B P32 B		5
129	1	20	B	REDREC				4 0121	B 774		5
130	1	21	C	MAINX&17, @JOB@				7 0125	C 018 W05		5
131	1	22	BU	CMCTL				5 0132	B 157 /		5
132	1	23	CC	1				2 0137	F 1		5
133	1	24	MCW	80,280				7 0139	M 080 280		5
134	1	25	W					1 0146	2		5
135	1	26		N1	CC 1 IN REV 0.			2 0147	N 1		6
136	1	27	B	WRTREC				4 0149	B 721		6
137	1	28	B	REDREC				4 0153	B 774		6
138	1	29	CMCTL	C	MAINX&17, @CTL@			7 0157	C 018 W08		6
139	1	30	BU	FIND				5 0164	B 642 /		6
140	1	31	BCE	ROBIN,MAINX&23,1				8 0169	B 623 024 1		6
141	1	32	MN	MAINX&21,*s8				7 0177	D 022 191		6
142	1	33	BCE	ROBIN,@456@,				8 0184	B 623 W11		7
143	1	34	CHAIN	2							
144			BCE					1 0192	B	MACRO	7
145			BCE					1 0193	B	GEN	7
146	1	35	B	BLUE				4 0194	B 627		7
147	1	36	ORG	201					0201		

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SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	1	37		DA	1X132			0201	0332		
149	1	38			6,6			0206		FIELD	
150	1	39	DTFTAB	EQU	LABDTF-1			0349			
151	1	40		ORG	333				0333		
152	1	41	EITHER	B	NEXREC			4 0333	B 681		8
153	1	42	*								
154	1	43	*		CONTROL CARD INFORMATION						
155	1	44	*								
156	1	45	SPECL	DCW	@*@			1 0337			8
157	1	46	SYMNM	DCW	#3			3 0340			8
158	1	47	*								
159	1	48	*		DTF MAJOR TABLE						
160	1	49	*								
161	1	50		DCW	@,@			1 0341			8
162	1	51		DCW	@,@			1 0342			8
163	1	52		DCW	@,@			1 0343			8
164	1	53	FILENM	DCW	#6			6 0349			8
165	1	54	LABDTF	DCW	@,@			1 0350			9
166	1	55		DCW	@,@			1 0351			9
167	1	56		DCW	@,@			1 0352			9
168	1	57		DCW	@,@			1 0353			9
169	1	58		DCW	@,@			1 0354			9
170	1	59		DCW	@,@			1 0355			9
171	1	60		DCW	@,@			1 0356			9
172	1	61		DCW	@,@			1 0357			10
173	1	62		DCW	@,@			1 0358			10
174	1	63		DCW	@,@			1 0359			10
175	1	64		DCW	@,@			1 0360			10
176	1	65		DCW	@,@			1 0361			10
177	1	66		DCW	@,@			1 0362			10
178	1	67		DCW	@,@			1 0363			10
179	1	68		DCW	@,@			1 0364			11
180	1	69		DCW	@ ;@			4 0368			11
181	1	70		DCW	@ ;@			1 0369			11
182	1	71		DCW	@ ;@			4 0373			11
183	1	72		DCW	@ ;@			10 0383			11
184	1	73		DCW	@ ;@			10 0393			11
185	1	74		DCW	@ ;@			10 0403			12
186	1	75		DCW	@ ;@			1 0404			12
187	1	76		DCW	@ ;@			10 0414			12
188	1	77		DCW	@ ;@			10 0424			12
189	1	78		DCW	@ ;@			1 0425			12
190	1	79		DCW	@ ;@			4 0429			12
191	1	80		DCW	@ ;@			1 0430			12
192	1	81		DCW	@ ;@			1 0431			13
193	1	82		DCW	@ ;@			1 0432			13
194	1	83		DCW	@ ;@			1 0433			13
195	1	84		DCW	@ ;@			1 0434			13
196	1	85		DCW	@ ;@			3 0437			13
197	1	86		DCW	@ ;@			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		I 5	0457		14
200	1	89		DCW	@ ;@ 109-118	39		I 10	0467		14
201	1	90		DCW	@ ;@ 119-128	40		I 10	0477		14
202	1	91		DCW	@ ;@ 129-138	41		I 10	0487		14
203	1	92		DCW	@ ;@ 139-148	42		I 10	0497		15
204	1	93		DCW	@ ;@ 149-158	43		I 10	0507		15
205	1	94		DCW	@ ;@ 159-168	44		I 10	0517		15
206	1	95		DCW	@ ;@ 169-178	45		I 10	0527		16
207	1	96		DCW	@ ;@ 179-188	46		I 10	0537		16
208	1	97		DCW	@ ;@ 189-198	47		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			I 1	0550	OVERFLOW	16
212	2	01		DCW	@ ;@ 12 202			I 1	0551		16
213	2	02		DCW	@ ;@ 203-205 NUMBER			I 3	0554	REELSEQP	17
214	2	03		DCW	@ ;@ 206			I 1	0555	FORMCNTL	17
215	2	04		DCW	@ ;@ #9			I 9	0564		17
216	2	05		DCW	@ ;@ 216 ADDRESS			I 1	0565	OVERFLOW	17
217	2	06		DCW	@ ;@			I 1	0566		17
218	2	07	ENDDTF	DCW	@ ;@			I 1	0567		17
219	2	08	*								
220	2	09	*		DIOSCS 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		DIOSCSORG	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		EXITS	I 1	0594		20
242	2	31		DCW	@ ;@ 19			I 1	0595		20
243	2	32		DCW	@ ;@ 20			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, #		READERROR	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 READERROR			I 1	0610		22
258	2	47		DCW	@ ;@ 35 YES		INPVAR	I 1	0611		22
259	2	48		DCW	@ ;@ 36 YES		INPFXNO	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,@DIF@			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	WRTEXT&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	, I98	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, INDEXT	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	NEXREC	I	4	1169	B 681		40
405	3	94	*								
406	3	95	*		READERROR						
407	3	96	*								
408	3	97	REASB	SBR	CHAI&3, CHTAP	I	7	1173	H 066 /87		40
409	3	98		B	OPDSCN	I	4	1180	B 014		40
410	3	99		DCW	&RE&TB	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, INDEXT	I	7	1230	M 0'13 094		42
423	4	12		MCW	8&X2, ITAPEC&7	I	7	1237	M 0'18 T01		42
424	4	13		MCW	0&X2, IEORC&3	I	7	1244	M 0'10 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 0'17 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	IOMETS, 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		IOMETS	BER	I	5	1335	B T44 L		46
450	4	27		ICONPR	B	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	ICHALT, 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	IERRASC	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	PASS1	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	ALTYB	B	BYFSS	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, INDEXT	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	BLORB	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	*				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	@S@	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				1649		
500	4	77	OVER	DCW	@1@	I	1	1649		GMARK	57
501	4	78		EX					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	CHAR&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		RE	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 O14		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 O14		64
530	5	07		DCW	@CHEXZ	I	3	1761	D87		64
531	5	08		B	OPDSCN	I	4	1762	B O14		64
532	5	09		DCW	@TYPXZ	I	3	1768	D74		64
533	5	10		B	TOTRB	I	4	1769	B Z81		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	BLORB	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 O14		67

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
552	5	29		DCW	&RECXZ			1838	D55		67
553	5	30		B	NUMERC			1839	B V41		67
554	5	31		DCW	@011@			1845			67
555	5	32		B	NUMERC			1846	B V41		67
556	5	33		DCW	@010@			1852			68
557	5	34		B	OPDSCN			1853	B O14		68
558	5	35		DCW	&MODXZ			1859	D30		68
559	5	36		B	OPDSCN			1860	B O14		68
560	5	37		DCW	&FILXZ			1866	D23		68
561	5	38		B	NUMERC			1867	B V41		68
562	5	39		DCW	@009@			1873			68
563	5	40		B	ACTUAL			1874	B 189		69
564	5	41		DCW	DTFTAB&198			1880	547		69
565	5	42		B	ACTSCN			1881	B /13		69
566	5	43		DCW	@DTFTAB-7			1887	342		69
567	5	44		B	NUMERC			1888	B V41		69
568	5	45		DCW	@20@			1894			69
569	5	46		B	OVERB			1895	B !06		69
570	5	47		DCW	#1			1899			70
571	5	48		ORG	1900				1900		70
572	5	49		RTW	1,1			1900	L %U1 001 R		70
573	5	50		BER	HALT			1908	B 221 L		70
574	5	51		CW	OVER			1913	) W49		70
575	5	52		B	OTHER			1917	B 101		70
576	5	53	HALT	BSP	1			1921	U %U1 B		70
577	5	54		NOP	288			1926	N 288		70
578	5	55		H				1930	.		71
579	5	56		B	1900			1931	B Z00		71
580	5	57		*							
581	5	58	AGREE	S	INDEX3&1			1935	S 100		71
582	5	59	SW		MAINX&20			1939	, 021		71
583	5	60	B		DTFBR&X2			1943	B XK7		71
584	5	61	*		IOAREAS						
585	5	62	*								
586	5	63	IOARB	B	SCANX			1947	B N55		71
587	5	64	LCA		MAINX&18&X3,DTFTAB&44			1951	L 0A9 393		71
588	5	65	BW		EITHER, SCNSW			1958	V 333 W18 1		72
589	5	66	B		SCANX			1966	B N55		72
590	5	67	LCA		MAINX&18&X3,DTFTAB&34			1970	L 0A9 383		72
591	5	68	B		EITHER			1977	B 333		72
592	5	69	*								
593	5	70	*		TOTALS						
594	5	71	*								
595	5	72	TOTRB	SBR	CHAIR&3, TOTJK			1981	H 066 295		72
596	5	73		B	OPDSCN			1988	B O14		72
597	5	74		DCW	@TOTXZ			1994	E20		72
598	5	75	TOTJK	LCA	MAINX&18&X3,DTFTAB&80			1995	L 0A9 429		73
599	5	76		B	LSTPAR			2002	B 075		73
600	5	77	OVERB	SBR	CHAIR&3, OVEJK			2006	H 066 120		73
601	5	78		B	OPDSCN			2013	B O14		73

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
602	5	79		DCW	&OVEXZ			2019	E13		73
603	5	80	OVEJK	LCA	MAINX&18&X3,DTFTAB&216			2020	L 0A9 565		73
604	5	81		B	LSTPAR			2027	B 075		73
605	5	82	*								
606	5	83	*		EXITS ROUTINE						
607	5	84	*								
608	5	85	EXIRB	MCW	@1 @@, INDEX2			2031	M H52 094		74
609	5	86		MN	MAINX&7, INDEX2-1			2038	D 008 093		74
610	5	87		S	INDEX3&1			2045	S 100		74
611	5	88		B	SCANX			2049	B N55		74
612	5	89		LCA	MAINX&18&X3,DTFTAB&X2			2053	L 0A9 3M9		74
613	5	90		LCA	@@@,DTFTAB-6			2060	L H53 343		74
614	5	91		B	DIFREC			2067	B M06		75
615	5	92	*								
616	5	93	*		INDEX REGISTER						
617	5	94	*								
618	5	95	INDRB	MN	MAINX&21,DTFTAB&55			2071	D 022 404		75
619	5	96		MZ	@ @,DTFTAB&55			2078	H 54 404		75
620	5	97		B	DIFREC			2085	B M06		75
621	5	98	*								
622	5	99	*		LOAD PARAMETERS - ACTUAL						
623	6	00	*								
624	6	01	ACTUAL	SBR	INDEX1			2089	H 089		75
625	6	015		BW	EITHER, SCNSW			2093	V 333 W18 1		75
626	6	02		MCW	2&X1, INDEX1			2101	M 0'2 089		76
627	6	03	SEARCH	B	SCANX			2108	B N55		76
628	6	04		LCA	MAINX&18&X3, 0&X1			2112	L 0A9 0'0		76
629	6	05		SBR	INDEX1			2119	H 089		76
630	6	06		BW	DIFREC, SCNSW			2123	V M06 W18 1		76
631	6	07		B	SEARCH			2131	B J08		76
632	6	08	NEWWR	SBR	WRTXT&3			2135	H 761		76
633	6	09		MCW	LMAINX, LOPUT-1			2139	M 086 I97		77
634	6	10		SW	OUTPT&80			2146	, I92		77
635	6	11		MCW	GMMWRK, OUTPT&80			2150	M 773 I92		77
636	6	12	LONG	MCW	@* @, OUTPT&73			2157	M H55 I85		77
637	6	13		B	SHORT			2164	B 750		77
638	6	14	*								
639	6	15	*		OUTPUT MACRO STATEMENT FOR DIOC						
640	6	16	*								
641	6	17	CRDOUT	MN	@5@, TDF&4			2168	D H56 768		77
642	6	18		CS	LMAINX			2175	/ 086		78
643	6	19		MCW	@5555@, MAINX&19			2179	M H61 020		78
644	6	20		SBR	INDEX3, ENDDIO			2186	H 099 622		78
645	6	21		B	GOOD&4			2193	B K01		78
646	6	22	GOOD	CS	LMAINX			2197	/ 086		78
647	6	23		SW	1			2201	, 001		78
648	6	24		SBR	INDEX1, MAINX&20			2205	H 089 021		78
649	6	25		MCW	@ @, MAINX&72			2212	M H62 073		79
650	6	26	LODFAR	MCW	0&X3, WKAREA-1			2219	M 070 L89		79
651	6	27		SBR	INDEX2			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	F 011 0'0		79
654	6	30	SBR		INDEX1	I	4	2244	H 089		79
655	6	31	MCW		@ , 0, 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		NEWWRT	I	4	2289	B J35		81
663	6	39	CW		OUTPT&80	I	4	2293	) I92		81
664	6	40	B		GOOD	I	4	2297	B J97		81
665	6	41	CONTIN	MCW	0&X3, 0&X3	I	7	2301	M 070 0'0		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		LODFAR	I	4	2343	B K19		82
673	6	49	ALLDIO	MCW	@ , 0, 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		NEWWRT	I	4	2361	B J35		83
676	6	52	CW		OUTPT&80	I	4	2365	) I92		83
677	6	53	MN		@@, TDF&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	WRTREC	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	@@, TDF&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, ALTBY	I	7	2464	H 099 U97		86
694	6	70	C		MAINX&17, @DTF@	I	7	2471	C 018 H79		86
695	6	71	CS		LMANX	I	4	2478	/ 086		86
696	6	72	MCW		@3333@, 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	B		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	, 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		SETTT	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 0'0		90
733	7	09	SBR		INDEX2	I	4	2643	H 094		91
734	7	10	MCW		0&X2, INDEX1	I	7	2647	M 0'0 089		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 0'0 @		91
738	7	14	B		SEEKOP	I	4	2671	B 036		91
739	7	15	LSTPAR	BW	ETHTER, 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	@@, DIOSB&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		LMANX, 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	GMMWRK,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,SYMMN	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 705 S		96
778	7	54	PROPRE	C	OUTPT&17,@JOB@	I	7	2840	C I29 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 I29 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	, I10		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 O98		98
789	7	65		B	ALTB	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	NEWWR1	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	ALTB	I	4	2939	B U97		99
797	7	73	PACKX	SBR	PACKS&3	I	4	2943	H 704		99
798	7	74		SW	BALTR	I	4	2947	, I03		99
799	7	75		CW	SCNSW	I	4	2951	) W18		100
800	7	76		S	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	WRTAL,BALTR	I	8	3005	V 237 I03 1		101
814	7	90	DBLAL	C	OUTPT&83,HLDB#4	I	7	3013	C 195 I07		101
815	7	91		BE	WRTAL	I	5	3020	B 237 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 213		102
819	7	95	WRTAL	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 775 /		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	NEXREC&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	FIND	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	@INF@	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	@OVE@	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	IODTB	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	LABTB	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	EXITB	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	DRITB	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	RWDTB	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	COUTB	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	REATB	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	@FIL@	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	@STZ@	I	3	3761		SIZEREC	132
1042	10	16		DCW	@PAD@	I	3	3764		PADDING	132
1043	10	17		DCW	@BL@	I	3	3767		BLOCKSIZE	132
1044	10	18		DCW	@IOA@	I	3	3770		IOAREAS	132
1045	10	19		DCW	@WOR@	I	3	3773		WORKAREA	132
1046	10	20		DCW	@IND@	I	3	3776		INDEXREC	132
1047	10	21		DCW	@EOP@	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		TYP LABEL	133
1051	10	25		DCW	@CHE@	I	3	3791		CHECK LABEL	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	@RE@				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	@IODE@				IODEVICES		134
1066	10	40		DCW	@LAB@				LABELDEF		135
1067	10	41		DCW	@ALT@				ALTTAPE		135
1068	10	42		DCW	@EXI@				EXITS		135
1069	10	43		DCW	@VAR@				VARBUILD		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@						136
				DCW	@7@					LIT	136
				DCW	@1 @@					LIT	136
				DCW	@S@					LIT	136
				DCW	@ @					LIT	136
				DCW	@*@					LIT	137
				DCW	@5@					LIT	137
				DCW	@55555@					LIT	137
				DCW	@' @					LIT	137
			SAVXL1	DCW	#03					AREA	137
				DCW	@, @					LIT	137
				DCW	@ @ @					LIT	137
				DCW	@1@					LIT	138
				DCW	@6@					LIT	138
				DCW	@ @ @					LIT	138
				DCW	@DIF@					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
			HLDA1I	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					AREA	140
1076	10	50	*								
1077	10	51	*		OUTPUT AREA						
1078	10	52	*								
1079	10	53									
1080	10	54	OUTPT	DA	3912, 1X86, G						
1080	10	54		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
1146	11	20		JOB	1401 AUTOCODER-PASS 2-ALTER OVERLAY	-VERSION	3	I			
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	GMOVL2			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	OUTPT&85,LMAINX			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	RSOLV&7,NOALTB			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	LEAVE,MAINX&23,1			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	SPECL			I 4	0167 S 337		159
1171	11	43	LETBE	B	NOPL			I 4	0171 B 183		160
1172	11	44	RSOLV	B	WRTREC			I 4	0175 B 721		160
1173	11	45		B	WRTAL			I 4	0179 B 237		160
1174	11	46		*							
1175	11	47	NOPCL	SBR	NPCLX&3			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 238 782		160
1178	11	50	NPCLX	B	0			I 4	0201 B 000		160
1179	11	51	NOPJB	SBR	NPJEX&3			I 4	0205 H 219		161
1180	11	52		SW	ALTS1&4,ALTS3&4			I 7	0209 , Q51 766		161
1181	11	53	NPJBX	B	0			I 4	0216 B 000		161
1182	11	54	NOTER	MCW	OUTPT&85,LMAINX			I 7	0220 M I97 086		161
1183	11	55		B	WRTREC			I 4	0227 B 721		161
1184	11	56	CHUCK	B	NOALTB			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
				ORG	246			I		0246	
1186	11	58		DA	1X86			I	0246	0331	
1187	11	59		AREASV	EQU	*		I	0331		
1188	11	60		GMOVL2	DCW	@ @		I 1	0332		GMARK 163
1190	11	62		EX				I	B 000		164

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1191	11	63		JOB	1401 AUTOCODER - PASS 2 - END OVERLAY	-VERSION	3	I			
1192	11	64		SFX	I						
1193	11	65		ORG	341				0341		
1194	11	66	OVLY3	MN	@5@,TDF6&4			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	NEWWRIT			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	#3			I 3	0412		169
1209	11	87		WTW	5,OVLY4			I 8	0413 L %U5 434 W		169
1210	11	88	TDFSYS	DCW	#3			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	*41			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	SBROTX			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	SYMMNX, 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 ) 187 036		172
1233	12	13		CW	100			X 4	0518 ) 100		172
1234	12	14	BYPASX	RT	1,3997			X 8	0522 M %U1 I97 R		172
1235	12	15		SW	LOPUT&1			X 4	0530 , I98		172
1236	12	16		BEF	CBSP2X			X 5	0534 B 543 K		172
1237	12	17		B	BYPASX			X 4	0539 B 522		172
1238	12	18	CBSP2X	RT	1,3997			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,CBSPLX	X	7	0555	S 605 604		173
1241	12	21		BM	CBSP3X,CBSPLX	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	TDPEOJ	X	4	0584	N 594		174
1251	12	31		B	2465	X	4	0588	B M65		174
1252	12	32		TDPEOJ	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	* &1	X			0605		
				DCW	&1	X	1	0605		LIT	175
1257	12	37		GMOVL4	DCW @1@	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	@1@	B	1	0100		GMARK	180
1276	12	56		DA	1X86 INPUT	B		0101	0186		
1277	12	57		DC	@1@ LIPUT&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	/ !73		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	TDPIO5	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		TDPIO5	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	TDPIO5	B	4	0164	N 132		184
1300	12	80		B	HAPPYX&5	B	4	0168	B N75		184
1301	12	81		LTORG	* &1	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 S10		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	LOR GS	C	CALLTX,BLANKS-2 Q. ANY CALLS	B	7	0494	C 173 W14		185
1317 12 97		BU	HAULTI	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	LMAXNX	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	CTAPEX GET NEXT RECORD	B	4	0576	B W50		188
1337 13 17		NOP	TD FRAL	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	, 198		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	TD F6	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,,	B	8	0631	B 651 O50 ,		189
1350 13 28		B	CTAPEX Q. DELETION	B	4	0639	B W50		189
1351 13 285		SFX	X	X					
1352 13 29		NOP	TD F6	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	TD FRAL	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	CHAINX	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	LOR GS	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	OF	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 8U4 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
	HLDA1B	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	@j@	B	1	1043		GMARK	201
1432 14 08	NUORIG	EQU	*&l	B		1044			
1433 14 09		EX		B			B 000		202

SEQ PG LIN	LABEL	OF	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	@j@	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	HLDSBX	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	@j@	A	1	0100		GMARK	207
1460 14 36	START	CS	CALLTX	A	4	0101	/ !73		207
1461 14 37		CS		A	1	0105	/		207
1462 14 371		BCE	*&5,CARDSX,1	A	8	0106	B 118 189 1		207
1463 14 372		B	RED	A	4	0114	B 132		207
1464 14 373		MCW	@N@,RHO&1	A	7	0118	M 959 764		208
1465 14 374		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	OUTS&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	DA	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	BRNCHX&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. ENTER CARD	A	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. MODIFY ADDRESS MACRO	A	7	0526	C 020 977		211
1490 14 62	SWMA2	BE	MASET X	A	5	0533	B U33 S		211
1491 14 63		C	MAINXX&19,@EX @ Q. EX CARD	A	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. END CARD	A	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 019 905		212
1496 14 68		BE	CALLNX Q. CALL STATEMENT	A	5	0569	B 351 S		212
1497 14 69		C	MAINXX&19,INCLDX	A	7	0574	C 020 U59		213
1498 14 70		BE	CALLNX	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. LTORG CARD	A	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. MACRO	A	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	LMAINX	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. LAST CARD	A	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	@#05001R@	A	8	0707			216
1526 14 98	CHANGE	CW	CHART,ISTEN&4	A	7	0708	) 665 779		217
1527 14 99		MM	@@,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. TAPE INPUT	A	5	0775	B 795 C		219
1547 15 19		SFP	NO. START RAD FEED	A	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. END CARD	A	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. NEW MODE	A	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. ANY CALLS	A	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. TAPE INPUT	A	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. ANY CALLS	A	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	&CRWRD	A	3	0958	X71		224
1592 15 64		LTORG	*	A			0959		
		DCW	@#	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	@MA @	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	@@	A	1	0995		LIT	226
		DCW	@@	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	SBGRD	X	4	1090	B /44		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	UFENGL	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 U10 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 U12 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	SBROT	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	LTORG, 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	EXITC	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	@%U1001R@	X	8	1352			235
1662 16 34	LTORG	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	@RL@	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	SBROTX	X	4	1440	B 033		238
1690 16 62		MCW	@@,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	HLDDB,MAINX&10	X	7	1467	M 192 011		239
1698 16 70		B	WHYY	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	OVL4I	X	4	1486	B 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	, 0S1		242
1711 16 83		BCE	MOVEC,MAINX&20&X1,,	X	8	1557	B V20 0S1 ,		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,OVL4I	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		LITORG	*	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	@1@	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, CTAPEC&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	@12@, CCOMPR&6	X	7	1690	A Y93 X49		252
1740	17	12		CW	CCOMPR&4	X	4	1697	) X47		252
1741	17	13		MN	CTAPEC&3, CHALT&6	X	7	1701	D X25 Y55		252
1742	17	14		MN	CTAPEC&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	CTAPEC	RT	0,0	X	8	1722	M @U0 000 R		253
1745	17	17		BCE	COMETS, CTAPEC&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	CTAPEC, 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	CTAPEC&3, * &4	X	7	1778	D X25 X88		255
1763	17	35		BSP	0	X	5	1785	U @U0 B		255
1764	17	36		BCE	CTROW, CTAPEC&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	CTAPEC	X	4	1806	B X22		256
1767	17	39	CTROW	A	@1@, CERASC#2	X	7	1810	A Y96 Y98		256
1768	17	40		SAP	6	X	5	1817	U @U6 E		256
1769	17	41		BCE	CCHALT, CERASC-1, 5	X	8	1822	B Y34 Y97 5		256
1770	17	42		B	CTAPEC-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	CTAPEC-7	X	4	1845	B X15		257
1774	17	46	CHALT	H	0, 200	X	7	1849	, 000 200		257
1775	17	47		BSS	CTAPEC-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	CTAPEC&7, * &8	X	7	1861	M X29 Y75		257
1777	17	49		RT	0,0	X	8	1868	M @U0 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	*								
1783	17	55	*	INITIALIZATION							
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 Z68		260
1791	17	62		CW	GM1	X	4	1923	) W49		260
1792	17	63		SW	3998	X	4	1927	, I98		260
1793	17	64		MCW	LINPUT&1, 3998	X	7	1931	M 187 I98		261
1794	17	65		CW	3995, 3997	X	7	1938	) I95 I97		261
1795	17	66		BSS	ALTERX, B	X	5	1945	B Z77 B		261
1796	17	67		RWD	1	X	5	1950	U @U1 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 Z68		262
1803	17	73		CW	GM2XXX	X	4	1985	) '43		262
1804	17	74		RWD	1	X	5	1989	U @U1 R		262
1805	17	75		MCW	IOCSAV, SYMM	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@, SRMA2B	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
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	OPPEM	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	TDFEXT	X	4	3594	N T44		307
2133	20	95		C	MAINX&18,WHOOFS	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	/ !73		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	H 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 0'0 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	TDFEXT	X	4	3788	N T44		313
2172	21	34		MCW	CHARCC,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		315
				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			/ Z00 080		

SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS
ABOVE	3833	ACRWD	958	ACTOUT	1143	ACTSCN	1113	ACTUAL	2089	ADDCAL	1608	AGREEI	1935
ALDIO	3203	ALDIFI	3308	ALLDIO	2347	ALPHAI	2430	ALBYI	1497	ALTERI	2763	ALTERX	1977
ALTI0	2883	ALTR3B	631	ALTR4B	576	ALTR5B	651	ALTR6B	662	ALTS1I	2847	ALTS2E	2860
ALTSZ1	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	BLORBI	1572	BLOWAI	1602	BLUJI	627	BOUTSX	2950	BRNCHX	2696
BRIBLI	886	BSPT4I	2904	BTRND	2825	BUTLXX	2637	BUTZXX	2689	BYPASX	522	BYPSSI	3349
BYFSXI	3377	CALITX	2158	CALLCD	3780	CALLNX	2151	CALITX	2073	CALTRB	602	CARDSB	525
CARDGX	189	CBSPIX	604	CBSP2X	543	CBSP3X	574	CCHALI	1834	CCOMPR	1743	CCONPR	1767
CEORCX	1738	CERASC	1898	CERRCT	1895	CETWMS	2498	CEXITI	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	CMAITB	510	CMCTLI	157	CNTFX	1619	COMBLK	2312	COMBLX	3663
COMEQI	984	COMETS	1762	COMIOC	831	COMPRI	851	COMSNX	2779	CONTIN	2301	COOKER	3590
COTRBI	3708	CRDCLI	138	CRDOUT	2168	CRWRED	1771	CTAPEC	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	DTFBRI	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	EOF1AX	3656
EOF1BX	1044	EOF1X	2860	EOF4A	934	EXIRBI	2031	EXISBI	992	EXITBI	3669	EXITCX	3479
EXSETA	857	EXSETB	474	FBBLKI	1090	FEATBI	3552	FEWA	605	FILENM	349	FILXZI	3423
FINAL2	3261	FINALI	3252	FINDI	642	FOUNDI	1105	GAMMAI	685	GMIX	1649	GM2XXI	1043
GM0VL2	332	GM0VL4	606	GMMWRK	773	GOODI	2197	GOTTI	670	GRANDX	3754	HALTI	1921
HAPPYX	2570	HARMNX	2955	HAULIT	1264	HEADRX	1891	HEARBI	2537	HEARTX	2309	HLDA1B	1022
HLDA1I	3902	HLDBI	3907	HLDSBX	192	HOLEX	2055	HOMALI	2812	HOMEXX	2648	HOHAA	745
HOUSEX	3422	IHALT	1407	ICONPR	1315	ICONPR	1340	IEORCI	1310	IERASC	1643	IERRCT	1641
IHALTI	1422	INCLDX	1459	INDEXI	89	INDEX2	94	INDEX3	99	INDRBI	2071	IOARBI	1947
IOCALT	106	IOCEOF	141	IOCSAV	3810	IODTBI	3577	IOMETS	1335	IRWRD	1344	ITAPEC	1294
ITROWI	1383	KDIOCS	1571	KINGSX	1463	LABDIO	580	LABDTF	350	LABELX	1119	LABTBI	3620
LBLMVX	3453	LBLTEL	3846	LEAVEI	167	LENGTH	743	LETBEI	171	LEXITX	1260	LIPUTX	186
LITORG	1358	LMAINX	86	LMNX	3330	LODPAR	2219	LONGI	2157	LOOPWX	2606	LOPUTI	3998
LOPUTX	3997	LORGSA	918	LORGSB	494	LOWERX	1546	LOZENG	1057	LOZSCX	3033	LSTCDB	686
LSTPAR	2675	LUNETI	3334	LZCNTX	3238	LZFNDX	3026	MACROB	931	MAINXI	1	MAINXX	1
MANYA	633	MASETX	1433	MASKSX	2144	MCOUTB	958	MIDLEX	3822	MINUS2	2	MINUS3	3
MLBLZX	3468	MODXZI	3430	MOVE3X	3341	MOVECX	1520	MOVINP	1199	MSUBTX	2700	NEWEED	2554
NEWEST	1598	NEWSCN	1006	NEWWR	2135	NEXREC	681	NEXTCD	2566	NOALTB	2820	NOCALX	2220
NOPLI	183	NOFJBI	205	NORDRL	1612	NOROTX	1375	NOSIRA	914	NOSOLI	131	NOTERI	220
NPLCXI	201	NPJBI	216	NROTCX	1411	NTPERA	681	NUMERC	1541	NUORIG	1044	NWEXTI	1101
NWSCNL	1021	OKAYB	467	OPDARI	1626	OPDEND	2687	OPDRTN	2625	OPDSCH	2614	OPENT	3535
ORDNI	3185	OTHERI	101	OUTCLI	119	OUTIOC	859	OUTNCB	943	OUTPTI	3912	OUTPTX	3912
OUTS2A	758	OUTSBX	2641	OUTSDX	3167	OVEJKI	2020	OVERBI	2006	OVERI	1649	OVEXZI	3513
OVLY2	2732	OVLY3I	341	OVLY4I	434	PACKSI	3001	PACXKI	2943	PARKSI	2993	PARTBX	466
PASS2I	1506	PASSII	1460	POTSX	1415	PREEMB	506	PREPS2	662	PREVSX	3872	PROPRE	2840
PRTNER	3542	PUNCHI	101	PUTINX	1244	QUEENX	2216	RDT4AI	3241	RDTPIX	2865	READSI	3910
READTA	467	REASBI	1173	REATBI	3727	RECKZI	3455	REDA	132	REDEXT	806	REDREC	774
REGENI	3144	REGLI	2927	REWKZI	3500	RHOA	763	RIVERI	2494	RNDTFI	2516	ROBINI	623
RSOLVI	175	RTWEDA	677	RWZEDI	798	RWDEXT	3483	RWDTBI	3695	SAVCDI	2698	SAVXIX	1611
SAVX2I	3889	SAVX3X	3898	SAVXL1	3865	SAVXL2	3853	SAVXTI	3330	SAVXXI	3319	SBGRDX	3746
SBROTX	2633	SCANLI	2559	SCANLX	2423	SCANXI	2555	SCANXX	2419	SCNATX	2513	SCNSWI	1618
SEARCH	2108	SEEKI	1692	SEEKOP	2636	SETDSW	2505	SETITI	2602	SETWMS	2606	SGCX	2718
SHIFTL	3174	SHORTI	750	SIMPLE	1338	SKELCX	2917	SLAMX	2345	SLASHX	2108	SOFTI	3268
SOLUTX	3523	SOLVED	2872	SPADEX	2209	SPCASI	3174	SPECLI	337	SPOUTX	3433	SPTYPX	3378
STARTA	101	STARTI	101	STARTX	1900	STENDX	450	STRING	156	SUBSET	2119	SUREXX	1308
SVCXDI	2717	SWITCH	2301	SWMA1A	526	SWMA1B	752	SWMA2A	533	SWMA2B	759	SYMMNI	340
SYMNMX	1601	SYSTMX	3356	TABLEI	1374	TAPTBI	3533	TDF1I	2723	TDF4A	699	TDF4AI	3135
TDF4I	812	TDF5X	1589	TDF6I	764	TDF6X	2624	TDF9I	412	TDFEOJ	594	TDFEXT	1344
TDFIO5	132	TDFLB2	3229	TDFLIB	3218	TDFRAL	922	TDFSSX	1968	TDFSYS	423	TENSRX	1170
THRUI	634	THRUX	2582	TOTJKI	1995	TOTRBI	1981	TOTXZI	3520	TPRD1X	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
WEDDEX	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