

CLEAR STORAGE 1 008015 022026 030037 044 049 053053000000000001026
 CLEAR STORAGE 2 L088116 105106 1101178101/13140710280290568026/B001/0991,001/001117102
 BOOTSTRAP ,008015,022029,036040,047054,061068,072/061039 ,0010011040

SEQ PG LIN	LABEL	OP	OPERANDS	SEFX CT	LOCN	INSTRUCTION TYPE	CARD A-ADDR	B-ADDR
101			TAPE-TO-CARD UTILITY PROGRAM 1401-UT-028		1028			
102	1 010	JOB	TAPE-TO-CARD UTILITY PROGRAM 1401-UT-028					
103	1 020	CTL	6611					
104	1 030	START	ORG 2701					
105	1 040	SW	1,201	4	2701 / 080	2701	4	080
106	1 050	SW	1,060	4	2712 , 101	/ 001 201	4	001 201
107	1 060	LCA	GPMMK78,3998	7	2716 L L24 I98		4	101 201
108	1 070	R		1	2723 1		4	2324 3998
109	1 080	MCW	80,180	7	2724 M 080 180		4	080 180
110	1 090	A	11,0,ENDTYP	7	2731 A 110 K03		4	110 2203
111	1 100	MCW	11,0,ENDTYP	1	2738 M		5	
112	1 110	A		1	2739 A		5	
113	1 120	A	AUTST,112,	1	2740 A		5	
114	1 130	BCE	TEST FILE SELTN	8	2741 B P65 112		5	2765 112
115	1 140	A	11,6,SLFIL3	7	2749 A 116 J88		5	116 2188
116	1 150	A	STORE FILE 2	1	2756 A		5	
117	1 160	A	STORE FILE 1	1	2757 A		5	
118	1 170	MCW	NOP, SW1	7	2758 M L25 899		6	2325 899
119	1 180	BCE	AUTNOP,135,	8	2765 B A23 135		6	3123 135
120	1 190	SW	135,133	7	2773 , 135 133		6	135 133
121	1 200	A	19-1,1135	7	2780 A I78 135		6	3978 135
122	1 210	A	135,134	7	2787 A 135 134		6	135 134
123	1 220	MCW	134,AUTTOT+6	7	2794 M 134 146		7	134 1046
124	1 23	SW	CNTLNG+1	4	2801 , Q31 135		7	2831 135
125	1 24	B	PUNCH,135	7	2805 S 164 135		7	1064 135
126	1 25	NZ	EXMGRS,135	7	2812 I 435 135		7	435 135
127	1 26	A	CNTLNG+3	7	2816 A 335 Q33		7	135 2833
128	1 27	CM	CNTLNG+1	4	2826) 331		7	2831
129	1 28	CNTLNG SW	CDONT+4	4	2830 / 112		8	2312
130	1 29	CM	133,135	7	2834 / 133 135		8	133 135
131	1 30	CM	133,135	7	2834 / 133 135		8	133 135
132	1 31	FIXTST BCE	FIXNOP,141,	4	2841 B A30 141		8	3130 141
133	1 32	SW	136,138	7	2853 , 136 138		8	136 138
134	1 33	SW	140	7	2853 , 140		8	140
135	1 34	BCE	LDLFXB,143,1	8	2864 B 704 143 1		9	3004 143
136	1 35	MCW	141,LDLFX+3	7	2872 M 141 R04 1		9	141 2904
137	1 36	A	19,141	7	2879 A I79 141		9	3979 141
138	1 37	A	141,139	7	2886 A 141 139		9	141 139
139	1 38	MCW	139,GFPIX+6	7	2893 M 139 99		9	139 1099
140	1 39	R	0-0,FIXED	1	2900 1		9	
141	1 40	LDLFX LCA		7	2901 L 000 K92		10	000 2292
142	1 41	NOP		1	2908 N		10	
143	1 42	CS	80	4	2909 / 080		10	080
144	1 43	SW	1	4	2913 , 001		10	001 156
145	1 44	BCE	ALCDFX,156,	8	2917 B R39 156		10	2939
146	1 45	MCW	LDLFX+6,RDADTL+6	7	2925 M R07 279		10	2907 1979
147	1 46	MCW	NOP,NEWFIX+8	7	2932 M L25 267		10	2325 1967

TAPE-TO-CARD UTILITY PROGRAM 1401-UT-028

SEQ PG LIN	LABEL	OP	OPERANDS	SEFX CT	LOCN	INSTRUCTION TYPE	CARD A-ADDR	B-ADDR
148	1 47	ALCDFX BCE	FIXALL,137,A	8	2939 B B04 137 A		11	3204 137
149	1 48	MCW	137,FXCND	7	2947 M 137 K05		11	137 2205
150	1 49	MLTTEST BCE	MFLNOP,132,	8	2954 B B15 132		11	3215 132
151	1 50	SW	131	4	2962 , 131		11	131
152	1 51	C	RECLNG,MPCNST	7	2966 C 197 I91		11	2197 3991
153	1 52	BL	MFLC	5	2973 B R93 T		11	2993
154	1 53	SW	MFLCDS	4	2978 , L28		12	2328
155	1 54	MCW	132,MOVNCT+6	7	2982 M 132 73		12	132 1073
156	1 55	B	JOBEND	4	2989 B B22		12	3222
157	1 56	MFLC A	ONE80-2,132	7	2993 A K06 132		12	2206 132
158	1 57	LDLFXB MCW	139,+*4	4	3000 B R82		12	2982
159	1 58	LDLFXB MCW	139,+*4	7	3004 M 139 ?14		12	139 3014
160	1 59	SW	400	4	3011 , 400		12	400 1097
161	1 60	MCW	FIVE,GFPIX+4	7	3015 M A22 97		13	3122 1097
162	1 61	CM	GFPIX+7	4	3022 / 00		13	1100
163	1 62	MCW	B,GFPIX+7	7	3026 M L26 /00		13	2326
164	1 63	MCW	NOP,LDLFX-1	7	3033 M L25 R00		13	2325 2900
165	1 64	MCW	FIVE,LDLFX+1	7	3040 M A22 R02		13	3122 2902
166	1 65	CS	580	4	3047 / 580		13	580
167	1 66	CS	401	1	3051 /		13	
168	1 67	SW	*-7,RDADTL-1	4	3052 , 401		14	401
169	1 68	RCB	RD FIX INFO BINA	2	3056 1 C		14	
170	1 69	LCA	SET EOF TO RD FX	7	3058 L 757 272		14	3057 1972
171	1 70	CM	IN BINARY MODE	4	3065) R08		14	2908
172	1 71	MCW	MFLC,LDLFX+7	7	3069 M R93 R08		14	2993 2908
173	1 72	SW	ALCDFX-10,ALCDFX-13	7	3076 , R29 R26		14	2929 2926
174	1 73	A	ONE80-2,ALCDFX-8	7	3083 A K06 R31		14	2206 2931
175	1 74	A	ONE80-2,ALCDFX-11	7	3090 A K06 R28		15	2206 2928
176	1 75	MCW	LDLFX,ALCDFX-14	7	3097 M R01 R25		15	2901 2925
177	1 76	MCW	*-6,LDLFX	7	3104 M A04 R01		15	3104 2901
178	1 77	MCW	*-6,LDLFX	7	3118) R29 R26		15	2929 2926
179	1 78	SW	FIXTST+27	4	3118 B Q72		15	2872
180	1 79	FIVE	F	1	3122		15	
181	1 80	AUTNOP MCW	NOP,AUTTOT	8	3123 M L25 40		16	2325 1040
182	1 81	BCE	TSTSEO,160,	8	3130 B A49 160		16	3149 160
183	1 82	MCW	LCSELN,SW5+3	7	3138 M 144 08		16	3944 1008
184	1 83	B	SELECT	4	3145 B C95 15		16	3395
185	1 84	TSTSEO MCW	SOADD,BLARGR+14	7	3149 M 381 482		16	381 482
186	1 85	BCE	NOSEQ,148,	4	3156 B A68 148		17	3168 148
187	1 86	B	SELECT	4	3168 B C95 17		17	3395
188	1 87	NOSEQ MCW	NOP,SW4	7	3168 M L25 01		17	2325 1001
189	1 88	MCW	NOP,CVTTST-8	7	3175 M L25 V73		17	2325 1573
190	1 89	B	FIXTST	4	3182 B Q45 17		17	2845
191	1 90	FIXNOP MCW	NOP,MOVNCT-5	7	3186 M L25 62		17	2325 1062
192	1 91	MCW	NOP,MOVNCT-12	7	3193 M L25 55		18	2325 1055
193	1 92	B	MLTTEST	4	3200 M R54 18		18	2954
194	1 93	FIXALL MCW	BLANKS-1,MOVNCT-1	7	3204 M J89 66		18	2189 1066
195	1 94	B	FIXNOP+7	4	3211 B A93 18		18	3193
196	1 95	MFLNOP MCW	NOP,MOVNCT	7	3215 M L25 67		18	2325 1067
197	1 96	JOBEND BCE	END/OB,159,	8	3222 B B72 159		18	3272 159

SEQ PG LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION TYPE	CARD A-ADDR	B-ADDR
198	1 97	MCW	MOVTAPE DBLCLK	7	3230	M 953 T91		19	953 1391
199	1 98	MCW	MOVTAPE DBLCLK+14	7	3237	M 953 U05		19	953 1405
200	1 991	MCW	NOP BRKIND-8	7	3244	M L25 U26		19	2325 1426
201	1 99	MCW	LCELUFT_BRLKND-5	7	3251	M L44 U29		19	3944 1429
202	2 00	MCW	NOP FXBRK-4	7	3258	M L25 U64		19	2325 1464
203	2 01	MCW	NOP BLNBRK	7	3265	M L25 829		20	2325 829
204	2 02	ENDJOB BCE	HDRLGH,147,4	8	3272	B B92 147 4		20	3292 147
205	2 03	BCE	STORTR,ENDTVP,1	8	3280	B C28 K03 1		20	3328 2203
206	2 04	B	GPMTST	4	3288	B C36		20	3336
207	2 05	HDRLGH R		1	3292	1		20	080 3880
208	2 06	LCA	80,3880	7	3293	L 080 H80		20	080 3880
209	2 07	C	146,ZERO80	7	3300	C 146 K11		21	146 2211
210	2 08	BL	MORE	5	3307	B C16 T		21	3316
211	2 09	B	ENDJOB+8	4	3312	B B80		21	3280
212	2 10	MCW		1	3316	1		21	080 3960
213	2 11	MCW	80,3960	7	3317	M 080 I60		21	080 3960
214	2 12	B	ENDJOB+8	4	3324	B B80		21	3280
215	2 13	STORTR R		1	3328	1		21	080 2640
216	2 14	LCA	80,TRALOC	7	3329	L 080 O40		22	080 2640
217	2 15	GPMTST BCE	XCEFTN-7,155,	8	3336	B C70 155		22	3370 155
218	2 16	MCW	NOP, PUNCH+2	7	3344	M L25 I86		22	2325 1086
219	2 17	SW	155	4	3351	, 155		22	155 595
220	2 18	NOP	155,595	7	3355	N 155 595		22	155 595
221	2 19	MCW		4	3362	1		22	155 595
222	2 20	B	XCEFTN	4	3366	B C77		23	3377
223	2 21	MCW	NOP,CONGRK	7	3370	M L25 I75		23	2325 1075
224	2 22	XCEFTN SW	24,56	7	3377	, 024 056		23	024 056
225	2 23	SW	63,67	7	3384	, 063 067		23	063 067
226	2 24	R	56	4	3391	1 056		23	056
227	2 25	R	48	7	3395	, 048		23	048
228	2 26	MCW	BRFIX,NOSEQ-1	7	3406	M A38 A67		24	3948 3167
229	2 27	MCW	49,SEQTOT	7	3406	M A38 N46		24	060 2546
230	2 28	MCW	60	4	3413	M 060		24	060
231	2 29	MCW	60	4	3417	M 060		24	060
232	2 30	A	SEQTOT, FULTOT	7	3421	A N46 N45		24	2546 2545
233	2 31	MCW	48	4	3428	1 048		24	048
234	2 32	ENTHLD MCW	70, HOLD	7	3432	M 070 I77		25	070 3977
235	2 33	MCW		1	3439	M		25	25
236	2 34	MCW		1	3440	M		25	25
237	2 35	MCW	HOLD-8	4	3441	M I69		25	3969
238	2 36	MCW		1	3445	M		25	25
239	2 37	BCE	TWMLT, HOLD-1,1	8	3446	B E1 I76 1		25	3581 3976
240	2 38	BCE	TSRSEQ+7, HOLD-2,	8	3454	B A56 I75		25	3156 3975
241	2 39	A	19, HOLD-12	7	3462	A I79 I65		26	3979 3965
242	2 40	BWZ	INSERT, HOLD, K	8	3469	V G32 I77 K		26	3732 3977
243	2 41	BCE	LNHG M, HOLD-7, 1	8	3477	B G21 I70 1		26	3721 3970
244	2 42	ADNTRY A	CONST1, HOLD-4	7	3485	A J93 I73		26	2193 3973
245	2 43	MCW	HOLD-4	4	3492	M I73		26	3973
246	2 44	A	HOLD-12, HOLD-2	7	3496	A I65 I75		27	3965 3975
247	2 45	A	HOLD-12, HOLD-7	7	3503	A I65 I70		27	3965 3970

SEQ PG LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION TYPE	CARD A-ADDR	B-ADDR
248	2 46	C	HOLD, CDSQNO	7	3510	C I77 I63		27	3977 3963
249	2 47	BH	CSDRER	5	3517	B I20 U		27	3920
250	2 48	FLDMOV MCW	HOLD, FLD 1	7	3522	M I77 L44		27	3977 2344
251	2 49	MCW		1	3529	M		27	27
252	2 50	MCW		1	3530	M		27	27
253	2 51	MCW		1	3531	M		27	27
254	2 52	A	ONE80-2, FLDONT	7	3532	A K06 I81		28	2206 3981
255	2 53	BCE	MODTST-12,150,	8	3539	B F50 28		28	3650 150
256	2 54	NOP	SETLST	4	3547	N E93		28	3593
257	2 55	LSTREC A	ONE80-2, ADNTR	7	3551	A K06 I84		28	2206 3984
258	2 56	C	ADNTR, RECBK	7	3558	C I84 K00		28	3984 2200
259	2 57	BE	SETLST	5	3565	B E93 S		28	3593
260	2 58	A	RECLNG, LTRCTR	7	3570	A J97 I87		29	2197 3987
261	2 59	B	LSTREC	4	3577	B E51		29	2328
262	2 60	TWMLT SW	MPLCDS	4	3581	1 L28		29	2328
263	2 61	MCW	MLTST+23	4	3585	, R77		29	2977
264	2 62	B	ENTHLD+22	4	3589	B D54		29	3454
265	2 63	SETLST A	LTRCTR, HOLD-4	7	3593	A I87 I73		29	3987 3973
266	2 64	A	LTRCTR, HOLD-7	7	3600	A I87 I70		29	3987 3970
267	2 65	MCW	B, LSTREC-4	7	3607	M L26 E47		30	2326 3547
268	2 66	C	150, FLDONT	7	3614	C 150 I81		30	150 3981
269	2 67	BE	SEQ1	5	3621	B G61 S		30	3761 3981
270	2 68	BE	SEQ2	7	3626	C 152 I81		30	152 3981
271	2 69	BE	SEQ3	5	3633	B H07 S		30	3807 3981
272	2 70	C	154, FLDONT	7	3638	C 154 I81		30	154 3981
273	2 71	BE	SEQ3	5	3645	B H67 S		31	3867 3981
274	2 72	C	FLDONT, FULTOT	7	3650	C I81 N45		31	3916 2545
275	2 73	BE	TSRSEQ+7	5	3657	B A56 S		31	3156
276	2 74	MODTST BCE	MODTST, FLDONT, 2	6	3662	B G03 I81 2		31	3703 3981
277	2 75	A	ONE80-2, ENTHLD+2	4	3670	A K06 D34		31	2206 3434
278	2 76	FLDMOV MCW	UPDATE, FLD, STR	7	3677	M L26 E47		31	2326 3547
279	2 77	SELWKK SW	INSTRUCTION AND	4	3681	B E28		31	3548
280	2 78	MCW	AND BRANCH	4	3688	B E26		32	3528
281	2 79	MCW	HOLD, CDSQNO	7	3692	M I77 I63		32	3977 3963
282	2 80	B	ENTHLD	4	3699	B D52		32	3432
283	2 81	MODIFY MCW	ONE80-2, ENTHLD+2	7	3703	M K06 D34		32	2206 3434
284	2 82	MCW	ZZERO-2, MODTST+7	7	3710	M L04 F69		32	2304 3669
285	2 83	R	SELWKK	4	3717	1 F77		33	3677
286	2 84	LNHG M NZ	LNHG M, HOLD-6	4	3721	Y G21 I71		33	3721 3971
287	2 85	B	ADNTRY	4	3728	B D85		33	3485
288	2 86	INSERT NZ	HOLD, HOLD-7	7	3732	Y I77 I70		33	3977 3970
289	2 87	MCW	HOLD-2	4	3739	M I75		33	3975
290	2 88	NZ	BLANKS-1, HOLD	7	3743	Y I89 I77		33	2189 3977
291	2 89	A	HOLD-12, HOLD-2	4	3750	A I65 I75		34	3965 3975
292	2 90	B	FLDMOV-12	4	3757	B E10		34	3510 2650
293	2 91	MCW	FLDMOV+6, SQFLD1	7	3761	M E28 O50		34	3528 2650
294	2 92	MCW	HOLD-7, LDREAD+7	7	3768	M I70 556		34	3970 556
295	2 93	MCW	HOLD-4, LDREAD+3	7	3775	M I73 552		34	3973 552
296	2 94	MCW	HOLD-4, CONMOV+14	7	3782	M I73 W60		34	3973 1660
297	2 95	MCW	HOLD-10, LDREAD+10	7	3789	M I67 559		35	3967 559

SEQ PG LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION TYPE	CARD A-ADDR	B-ADDR	PAGE	
298	2	96	MCW			7	3796	M 167 I 41	35	3967	3941
299	2	97	B	HOLD-10,LDCTR		4	3803	B F50	35	3650	3941
300	2	98	MCW	MODTST-12		7	3807	M E28 O53	35	3528	2653
301	2	99	MCW	FLDMOV+6,SQFLD2		7	3814	M 170 567	35	3970	567
302	3	00	MCW	HOLD-7,LDREAD+1R		7	3821	M 173 W64	35	3973	1664
303	3	01	MCW	HOLD-4,CONMOV+1R		7	3828	M 173 563	35	3973	563
304	3	02	A	HOLD-10,LDCTR		7	3835	A I67 I 41	35	3967	3941
305	3	03	MCW	LDCTR,HOLD-10		7	3842	M I 41 I 67	35	3941	3967
306	3	04	MCW	LDCTR,LDREAD+21		7	3849	M I 41 570	35	3941	570
307	3	05	MCW	TWO,CLSQMW+21		7	3856	M L29 448	35	2329	448
308	3	06	B	MODTST-12		4	3863	B F50	35	3650	448
309	3	07	MCW	FLDMOV+6,SQFLD3		7	3867	M E28 O56	35	3528	2656
310	3	08	MCW	THREE,CLSQMW+21		7	3874	M O 44 448	37	2644	448
311	3	09	MCW	HOLD-7,LDREAD+29		7	3881	M I 70 578	37	3970	578
312	3	10	MCW	HOLD-4,LDREAD+25		7	3888	M I 73 574	37	3973	574
313	3	11	MCW	HOLD-4,CONMOV+22		7	3895	M I 73 W68	37	3973	1668
314	3	12	A	HOLD-10,LDCTR		7	3902	A I 67 I 41	38	3967	3941
315	3	14	MCW	LDCTR,LDREAD+32		7	3909	M I 41 581	38	3941	581
316	3	15	B	MODTST-12		4	3916	B F50	38	3650	448
317	3	16	CSQERR	SELCON,280		7	3920	M I 61 280	38	3961	280
318	3	17	W			1	3927	2	38		
319	3	18	CS	280		4	3928	/ 280	38	280	
320	3	19	SW	201		4	3932	, 201	38	201	
321	3	20	H	*-3		4	3936	. I 36	39	3936	
322	3	21	LDCTR	H2		2	3941		39		
323	3	22	LDSELT	FLDSEL		3	3944	600	39	600	
324	3	23	SELCON	@FLD CD NO SEQ ERR@		17	3961		39		
325	3	24	CLSQNO	H2		2	3963		39		
326	3	25	DCW	H2		2	3965		39		
327	3	26	DCW	H2		2	3967		39		
328	3	27	DCW	H3		3	3970		40		
329	3	28	DCW	H3		3	3972		40		
330	3	29	HOLD	DCW H4		4	3977		40		
331	3	30	I9	DCW H4		2	3979		40		
332	3	31	FLDCNT	DCW H2,@		4	3981		40		
333	3	32	ALDCNR	DCW H3		2	3984		40		
334	3	33	LHCTR	DCW H3		3	3988		40		
335	3	34	MECTST	DCW H4		3	3987		40		
336	3	35	BRFLX	DSA FIXTST		4	3991	O 45	41	2845	
337	3	36	ORG	333		3	3994	O 45	41	2845	
338	3	37	FLDSEQ	NOP	RESTORE APT SQER	4	0333	N 526	42	526	
339	3	38	SQFLD	MCW	SET SEQ FLD	7	0337	M O 50 347	42	2650	347
340	3	39	SQMOV	MCW	SQFLD1,SEQMOV+3	7	0344	M O 00 198	42	000	198
341	3	40	MCW	O-0,TEST	FOR COMPARE	1	0351	M	42	42	
342	3	41	MCW			1	0352	M	42	42	
343	3	42	MCW			1	0353	M	42	42	
344	3	43	MCW			1	0354	M	42	42	
345	3	44	A	ONR80-2,SEQCNT	TEST FOR FIRST	7	0355	A K06 O57	43	2206	2657
346	3	45	C	ZZZERO,RCOUNT	RECORD OF BLOCK	7	0362	C L06 L12	43	2306	2312
347	3	46	BE	ONCE		5	0369	B 493 S	43	493	

SEQ PG LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION TYPE	CARD A-ADDR	B-ADDR	PAGE	
348	3	47	MCW	TEST-7,SQINST+3		7	0374	M 191 423	43	191	423
349	3	48	SQADD	ADLNHG,TEST-4	UPDATE TAPE	7	0381	A L09 194	43	2309	194
350	3	49	A	ADLNHG,TEST-4	LOCATION BY ONE	7	0388	A L09 191	44	2309	191
351	3	50	MCW	TEST-4,SEQMK+3	RECORD LENGTH	7	0395	M 194 419	44	194	419
352	3	51	MCW	TEST-4,CLSQMW+3	AND COMPARE	7	0402	M 194 430	44	194	430
353	3	52	MCW	TEST-7,SQINST+6	INSTRUCTIONS	7	0409	M 191 426	44	191	426
354	3	53	SQMKM	SW		4	0416	O 000 000	44	000	000
355	3	54	SQINST	C		7	0420	C O 00 000	44	000	000
356	3	55	CLSQMW	CW		4	0427	O 000 000	45	000	000
357	3	56	BH	BLARGR	BR SEQ OK	5	0431	B 468 U	45	468	
358	3	57	BL	ERROR1	BR SEQ ERR	8	0436	B 504 T	45	504	
359	3	58	BCE	BLARGR,SEQCNT,1	BR ALL Flds CHKD	8	0441	B 468 O57 1	45	468	2657
360	3	59	SW	SEQFLD+1	SET INSTRUCTIONS	4	0449	, 338	45	338	
361	3	60	A	THREE,SEQFLD+3	FOR NEXT FIELD	7	0453	A O 44 340	45	2644	340
362	3	61	CW	SEQFLD+1	TO BE SEQUENCED	4	0460	O 338	45	338	
363	3	62	B	FLDSEQ+4		4	0464	B 337	46	337	
364	3	63	BLARGR	MCW	RESET COMPARE	7	0468	M O 47 340	46	2647	340
365	3	64	MCW	SQBASE,SEQFLD+3	TO CHECK MAJOR	7	0475	M O 04 O57	46	2304	2657
366	3	65	NOP	ZZZERO-2,SEQCNT	SEQ FIELD	7	0482	N J97 L09	46	2197	2309
367	3	66	B	RECLNG,ADLNHG	SEQ FIELD	4	0489	B I 05	46	1005	
368	3	67	ONCE	SW5	BR TO MAIN RINE	7	0493	A 188 423	46	188	423
369	3	68	B	TEST-10,SQINST+3		4	0500	B 381	47	381	
370	3	69	ERROR1	SW	SET INST TO PRIN	4	0504	, I 83	47	1083	
371	3	70	MCW	SEQERR,290	COMPLETE RECORD	7	0508	M 591 290	47	591	290
372	3	71	MCW	B,FLDSEQ	AND ERROR MSGE	7	0515	M L26 333	47	2326	333
373	3	72	B	BLARGR	RESTORE FROM	4	0522	B 468	47	468	
374	3	73	ERESTR	CS	SEQ ERR RINE	4	0530	/ 290	47	290	
375	3	74	SW	SSD+4		4	0534	, 201	47	201	
376	3	75	CW	SSD+4		4	0534	, I 83	48	1083	
377	3	76	BH	SEQFLD	BLARGR	7	0538	B 337	48	337	
378	3	77	MCW	ZZZERO,SQINST+3	LOAD LAST REC	7	0542	M O 06 423	48	2306	423
379	3	78	LDREAD	SW	SEQ FIELDS TO	4	0549	O 01 001	48	001	001
380	3	79	MCW	1,1	READ AREAS	7	0553	M O 01 001	48	001	001
381	3	80	SW	1,1		7	0560	M O 01 001	48	001	001
382	3	81	MCW	1,1		7	0571	M O 01 001	49	001	001
383	3	82	MCW	1,1		7	0575	M O 01 001	49	001	001
384	3	83	MCW	CONMOV+11		4	0582	B W57	49	1657	
385	3	84	B	@SQERR@		6	0591		49		
386	3	85	SEQERR	DCW		3	0594	333	49	333	
387	3	86	BRSEQ	DSA	FIELD SELECTION	7	0600	M L23 N50	50	2323	2550
388	3	87	ORG	FLDSEQ	MOVE FIELD	7	0607	M 186 617	50	186	617
389	3	88	FLDSEL	MCW	PARAMETERS	7	0614	M O 00 198	50	000	198
390	3	89	MCW	ONROL,CONTRL	TO HOLD AREA	1	0621	M	50	50	
391	3	90	ORG	FLDRORG,ORG+3		1	0622	M	50	50	
392	3	91	MCW	O-0,TEST		1	0623	M	50	50	
393	3	92	MCW			1	0624	M	50	50	
394	3	93	MCW			1	0624	M	50	50	
395	3	94	MCW			1	0625	C O 96 N43	51	2696	2543
396	3	95	MCW			5	0632	B 740 S	51	740	
397	3	96	BE	SELCTR,SELTOT							
			BE	PCHRR1							

SEQ PG LIN	LABEL OP	OPERANDS	SFX CT	LOCN	INSTRUCTION TYPE	CARD A-ADDR	B-ADDR
398 3 97	A	ONER0-2,SELCTR	7	0637	A K06 096	51	2206 2696
399 3 98	CTLCP C	TEST,CONTRL	7	0644	C 198 N50	51	198 2550
400 3 99	BU	PCRHR2	7	0644	B 784 /	51	784
401 4 00	BWZ	CHRADD,TEST-7,K	8	0651	V 814 191 K	51	814 191
402 4 01	A	ADLNHG,TEST-4	7	0664	A L09 194	52	2309 194
403 4 02	A	ADLNHG,TEST-7	7	0671	A L09 191	52	2309 191
404 4 03	MCW	TEST-7,INST+3	7	0678	M 191 713	52	191 713
405 4 04	MCW	TEST-4,CWINS+3	7	0685	M 194 720	52	194 720
406 4 05	MCW	TEST-4,WMINST+3	7	0692	M 194 702	52	194 702
407 4 06	WMINST SW	0-0	4	0699	, 000	52	000 000
408 4 07	MCW	TEST-2,INST+6	7	0703	M 196 716	53	196 716
409 4 08	INST MCW	0-0,01,00	7	0710	M 000 100	53	000 100
410 4 09	CWINS CW	ORG+1	4	0721	, 615	53	615
411 4 10	TRNFWD SW	TWELVE,ORG+3	7	0725	A M48 617	53	2548 617
412 4 11	A	ORG+1	4	0732	, 615	53	615
413 4 12	CW	ORG	4	0736	B 614	53	614
414 4 13	B	ORGL	7	0740	M N57 192	54	2557 1092
415 4 14	PCRHR1 MCW	SELPL,SW8+3	4	0747	B 133	54	1033
416 4 15	B	NUMCDS	4	0751	, 180	54	180
417 4 16	CLPCHI CS	101	4	0755	, 101	54	101
418 4 17	SW	NUMCDS	7	0759	M L05 N50	54	2305 2550
419 4 18	MCW	ZZZERO-1,CONTRL	7	0766	M L05 096	54	2305 2696
420 4 19	MCW	ZZZERO-1,SELCTR	7	0773	A J97 L09	55	2197 2309
421 4 20	A	RECLNG,ADLNHG	7	0773	A J97 L09	55	2197 2309
422 4 21	B	BLKTS-14	4	0780	B V25	55	1525
423 4 22	PCRHR2 MCW	ECLP2,SW8+3	7	0784	M N60 192	55	2560 1092
424 4 23	A	ONER0-2,CONTRL	7	0791	A K06 N50	55	2206 2550
425 4 24	B	NUMCDS	4	0798	B 133	55	133 180
426 4 25	CLPCH2 CS	180	4	0802	, 180	55	180
427 4 26	SW	101	4	0806	, 101	55	101
428 4 27	MCW	NUMCDS	7	0810	M 190 838	56	190 838
429 4 28	CHRADD MCW	TEST-8,ZWINS+3	7	0814	B 190 879	56	190 879
430 4 29	MCW	TEST-8,ZINST+14	7	0821	M 100 879	56	100 879
431 4 30	MCW	TEST-2,ZINST+6	7	0828	M 196 871	56	196 871
432 4 31	ZWINS SW	100	4	0835	, 100	56	100
433 4 32	MCW	TEST-2,ZINST+10	7	0839	M 196 875	56	196 875
434 4 33	C	ONER01,TEST-10	7	0846	C L23 188	57	2323 188
435 4 34	BH	ZINST	5	0853	B 865 U	57	865 U
436 4 35	MCW	NOP,ZINST+7	7	0858	M L25 872	57	2325 872
437 4 36	ZINST MCW	TEST-6,100	7	0865	M 192 100	57	192 100
438 4 37	MCW	100	4	0872	, 100	57	100
439 4 38	CW	100	4	0876	, 100	57	100
440 4 39	MCW	CHRADD,ZINST+7	7	0880	M 814 872	58	814 872
441 4 40	CS	TRNFWD	4	0887	B 721	58	721
442 4 41	CS	180	4	0891	, 180	58	180
443 4 42	SW1	101	4	0895	, 101	58	101
444 4 43	B	SW2	4	0899	B 949	58	949
445 4 44	SELFIL A	ONER0-2,FLNUM	7	0903	A K06 J84	58	2206 2182
446 4 45	FILCOMP A	FLNUM,SLFILL	7	0910	C J82 J84	58	2182 2184
447 4 46	BE	SW2	5	0917	B 949 S	59	949

SEQ PG LIN	LABEL OP	OPERANDS	SFX CT	LOCN	INSTRUCTION TYPE	CARD A-ADDR	B-ADDR
448 4 47	BL	ENDFIL	5	0922	B 57 T	59	1857
449 4 48	TAPMOV RT	1,TPNTRY	8	0927	M 101 P01 R	59	001 2701
450 4 49	MCW	BLANK	4	0935	M L03	59	2303
451 4 50	CW	100	1	0939	, 100	59	100
452 4 51	BEF	SELFIL	5	0940	B 903 K	59	903
453 4 52	B	TAPMOV	4	0945	B 927	59	927
454 4 53	SW2	NOP	4	0949	B 699	60	699
455 4 54	MOVTP RT	1,TPNTRY	8	0953	M 101 P01 R	60	001 2701
456 4 55	MCW	BLANK	4	0961	M L03	60	2303
457 4 56	CW	100	1	0965	, 100	60	100
458 4 57	BEF	TAPER	5	0966	B 888 L	60	1288
459 4 58	SW3	NOP	4	0971	N T66	60	1366
460 4 59	EOF	ERESET	5	0975	B W73 K	60	1673
461 4 60	BSS	FILND	5	0980	B 120 C	61	1020
462 4 61	MCW	XTRFCH,C	7	0985	M J93 183	61	2193 183
463 4 62	BSS	CONSTL,RECORD	7	0992	B 109 F	61	1009
464 4 63	TSTXCP NOP	NO SPF,F	5	0992	N /28	61	1128
465 4 64	SW4	EXCPFN	4	1001	B 333	61	333
466 4 65	SW5	FLDSEQ	4	1009	B 600	61	600
467 4 66	NO SPF MCW	BR FX FAR FLD SL	7	1009	M L25 186	61	2325 1086
468 4 67	B	NOP,FUNCH+2	4	1016	B 997	62	997
469 4 68	XTRFCH P	TSTXCP	1	1020	4	62	62
470 4 69	NOP	BYPASS RECORDS	1	1021	N	62	62
471 4 70	MCW	ON SENSE SWITCH	7	1022	M L25 120	62	2325 1020
472 4 71	B	C CONTROL	4	1029	B 953	62	953
473 4 72	NUMCDS A	ONER0-2,CDCNT	7	1033	A K06 L16	62	2206 2316
474 4 73	AUTTOT MCW	CDCNT,100	7	1040	M L16 100	62	2316 100
475 4 74	NOP	TO PUNCH	1	1047	N	63	63
476 4 75	A	ONER0-2,MPLCDS	7	1048	A K06 L28	63	2206 2328
477 4 76	BE	EXCDRO,MPLCDS	5	1095	C L05 L28	63	2205 2328
478 4 77	BE	ADDTL,INFO	7	1067	R 128 S	63	128 S
479 4 78	MOVNCT MCW	MPLCDS,100	7	1074	N L28 100	63	2328 100
480 4 79	NOP	MOVE INTRIA TO FC	1	1074	N	63	63
481 4 80	CONDRM B	CVTTSI	4	1075	B V81	63	1581
482 4 81	SSD BSS	BR PREPCH ON D	5	1079	B /05 D	64	1105
483 4 82	PUNCH P	PUNCH CARD	1	1084	4	64	64
484 4 83	NOP	1088 4	1	1088	4	64	64
485 4 84	SPF	PUNCH RELEASE	1	1086	9	64	64
486 4 85	SS	4	2	1087	K 4	64	64
487 4 86	SW8 B	STACKER SELECT	2	1089	B 607	64	607
488 4 87	GFPIX MCW	BR TO REC SEG	7	1093	M K92 100	64	2292 100
489 4 88	NOP	MOVE ADDTL INFO	7	1093	M K92 100	64	2292 100
490 4 89	B	TO PUNCH	1	1100	N	65	65
491 4 90	PRTFCH MCW	MOVACT	4	1101	B 167	65	1067
492 4 91	P	180,280	7	1105	M 180 280	65	180 280
493 4 92	W	TO PRINT AREA	1	1112	4	65	65
494 4 93	BCV	PRINT AND PUNCH	1	1113	2	65	65
495 4 94	B	FRMCTL	5	1114	B /23 @	65	1123
496 4 95	FRMCTL CCB	SW8-3,	4	1119	B 86	65	1086
497 4 97	EXCPFN LCA	RECORD,TSTCH1+3	7	1128	L 183 /73	66	183 173

SEQ PG LIN	LABEL	OP	OPERANDS	LOCATION FOR	SFX	CT	LOCN	INSTRUCTION TYPE	CARD A-ADDR	B-ADDR
498	4	981	LCA	RECORD, TSTCH2+3	7	1135	L 183 / 96		66	1196
499	4	982	EXCEPT A	RECLNG RECORD	7	1142	A 397 183		66	2197
500	4	99	A	ADDEK1, TSTCH1+3	7	1149	A 083 / 73		66	2683
501	5	00	A	ADDEK2, TSTCH2+3	7	1156	A 087 / 96		67	2687
502	5	01	CW	TSTCH1+1, TSTCH2+1	7	1163	/ 71 / 94		67	1171
503	5	02	TSTCH1 MCW	0-0, FIRSTX	7	1170	M 000 072		67	000
504	5	03	C	FIRSTX, XCHAR1	7	1177	C 072 080		67	2672
505	5	04	BU	TSTCH2	5	1184	B / 93 /		67	1193
506	5	05	B	XCPFND	4	1189	B S12		67	1212
507	5	06	TSTCH2 MCW	0-0, SECNDX	7	1193	M 000 073		68	000
508	5	07	C	SECNDX, XCHAR2	7	1200	C 073 084		68	2673
509	5	08	BU	SW4	5	1207	B 101 /		68	1001
510	5	09	XCPFND SW	NUMCDS+4	4	1212	| 37		68	1037
511	5	10	MCW	LCPTFN, NUMCDS+3	7	1216	M 076 | 36		68	2676
512	5	11	MCW	B	4	1223	M L26		68	2326
513	5	12	MCW	BLKTST+11	4	1227	/ V50		68	1550
514	5	13	MCW	BRKEND, BLKTST+10	7	1231	M 079 V49		69	2679
515	5	14	MCW	NOP, PRTPCH+7	7	1238	M L25 / 12		69	2325
516	5	15	MCW	NOP, PRTPCH+8	7	1245	M L25 / 13		69	2325
517	5	16	B	SW5	4	1252	B 105		69	1005
518	5	17	XCPFND LCA	NUMCDS+6, NUMCDS+6	7	1256	L 091 | 39		69	091
519	5	18	LCA	BLKDCW+4, BLKTST+11	7	1263	L 096 V50		69	096
520	5	19	LCA	FOUR, PRTPCH+7	7	1270	L 094 / 12		70	2694
521	5	20	LCA	TWO, PRTPCH+8	7	1277	L L29 / 13		70	2329
522	5	21	B	BLKTST+7	4	1284	B V46		70	1546
523	5	22	TAPER	TPECNT	4	1288	N T10		70	1310
524	5	23	P	ERRSTK, SW6-2, N	1	1292	4		70	1355
525	5	24	BCE	NOP, +1	8	1293	B F55 | 87 N		70	1087
526	5	25	MCW	NO	7	1301	M L25 T08		70	2325
527	5	26	SS	1673	2	1306	K W73 K		71	1673
528	5	271	NO		2	1310	M L26 S88		71	2326
529	5	272	MCW	B, TAPER	7	1317	A K06 V03		71	2206
530	5	28	A	ONE80-2, ERRCNT	8	1324	A K06 V03		71	2206
531	5	29	BCE	DBLCK, ERRCNT-1, 1	8	1331	B F91 V02 1		71	1391
532	5	29	BCE		5	1339	U \$11 B		71	001
533	5	291	BSP		7	1344	M L26 971		72	2326
534	5	30	MCW	B, SW3	4	1351	B 953		72	953
535	5	31	B	MOVTAPE	4	1355	M 070 T08		72	2670
536	5	32	ERRSTK MCW	KEIGHT-1, TPECNT-2	7	1355	M 070 T08		72	2670
537	5	33	B	TPECNT-2	4	1362	B T08		72	1308
538	5	34	ERESET MCW	ZZERO, ERRCNT	7	1366	M L06 V03		72	2306
539	5	35	MCW	NOP, TAPER	7	1373	M L25 S88		72	2325
540	5	36	MCW	NOP, SW3	7	1380	M L25 971		73	2325
541	5	37	B	EOF	4	1387	B 975		73	975
542	5	38	DBLCK NOP	NOP, PRTPCH+7	7	1391	N L25 / 12		73	2325
543	5	39	NOP	NOP, PRTPCH+8	7	1398	N L25 / 13		73	2325
544	5	40	NOP	CDNT, BLKCT	7	1405	N L16 V07		73	2316
545	5	41	SW	SSD+4, BLKTST+11	7	1412	| 83 V50		73	1083
546	5	42	MCW	LOCRND, BLKTST+10	7	1419	M V10 V49		74	1510
547	5	43	B	ERESET	4	1426	B T66		74	1366

SEQ PG LIN	LABEL	OP	OPERANDS	LOCATION FOR	SFX	CT	LOCN	INSTRUCTION TYPE	CARD A-ADDR	B-ADDR
548	5	431	B	FXBLK	4	1430	B U68		74	1468
549	5	435	BLKND BL	FLDSEL	5	1434	B 600 T		74	600
550	5	445	MCW	TWO, PRTPCH+8	7	1439	M L29 / 13		74	2329
551	5	45	MCW	FOUR	4	1446	M 094		74	2694
552	5	46	CW	SSD+4, BLKTST+11	7	1450	| 83 V50		74	1083
553	5	47	MCW	BLKDCW+4, BLKTST+11	7	1457	M 096 V50		75	096
554	5	48	B	BLKTST	4	1464	B V39		75	1539
555	5	49	FXBLK H		1	1468	.		75	1539
556	5	491	MCW	ZZERO, RCOUNT	7	1469	M L06 L12		75	2306
557	5	50	MCW	BLKCT, CDNT	7	1476	M V07 L16		75	1507
558	5	51	BSP	1	5	1483	U \$11 B		75	001
559	5	52	RT	1, TPETRY	8	1488	M \$11 P01 R		75	001
560	5	53	BSS	ERESET, G	5	1496	B T66 G		76	1366
561	5	54	H		1	1501	.		76	1366
562	5	55	ERRCNT DCW	#2	2	1503			76	76
563	5	56	BLKCT DCW	#4	2	1507			76	76
564	5	57	LOCND DSA	BLKND	3	1510	U34		76	1434
565	5	58	MCW	ONE80, PCHMOV+6	7	1511	M K08 693		76	2208
566	5	59	UPCNT MCW	BRCMP, SW8+3	7	1518	M K95 | 92		76	2295
567	5	60	A	ZZERO-2, RCOUNT	7	1525	A K06 L12		77	2206
568	5	61	MCW	ZZERO, MPLCDS	7	1532	M L06 L28		77	2206
569	5	62	BLKTST C	RECHLK, RCOUNT	7	1539	C K00 L12		77	2200
570	5	63	BL	TSTXCP	5	1546	B 997 T		77	997
571	5	64	A	RECHLK, RECTOT	7	1551	A K00 L20		77	2200
572	5	65	MCW	ZZERO, RCOUNT	7	1558	M L06 L12		78	2306
573	5	66	MCW	ZZERO	4	1565	M L06		78	2306
574	5	67	MCW	ZZERO	4	1569	M L06		78	2306
575	5	68	B	LDREAD-7	4	1573	B 542		78	542
576	5	69	B	MOVTAPE-4	4	1577	B 949		78	949
577	5	70	SW	CONVRT+101,	8	1584	B WEI 101		78	1631
578	5	71	SW	CVTST+42	7	1589	A K02 V87		78	2262
579	5	72	CW	ONE80-2, CVTST+6	4	1600	| 83 V50		78	2262
580	5	73	CW	CVTST+4	4	1604	C V85		79	1587
581	5	74	C	CVTST+6, ONE80	7	1604	C V87 K08		79	1587
582	5	75	BL	+4	5	1611	B W20 T		79	1620
583	5	76	B	CVTST	4	1616	B V81		79	1581
584	5	77	MCW	ONE01, CVTST+6	7	1620	M L23 V87		79	2323
585	5	78	B	SSD	4	1627	B | 79		79	1079
586	5	79	CONVRT SW	CVTST+4	4	1631	| V85		80	1585
587	5	80	MCW	CVTST+6, CONMOV+6	7	1635	M V87 W52		80	1587
588	5	81	CW	CVTST+4	4	1642	| V85		80	1585
589	5	82	CONMOV MCW	595, 0-0	7	1646	M 595 000		80	595
590	5	83	B	CVTST+8	4	1653	B V89		80	1589
591	5	84	CW	1	4	1657	| 001		80	001
592	5	85	CW	1	4	1661	| 001		81	001
593	5	86	CW	1	4	1665	| 001		81	001
594	5	87	B	MOVTAPE-4	4	1669	B 949		81	949
595	5	88	FILEND CS	299	4	1673	/ 299		81	299
596	5	89	CS	180	4	1677	/ 180		81	180
597	5	90	CS	80	4	1681	/ 080		81	080

SEQ PG LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION TYPE	CARD A-ADDR	B-ADDR
598	5	91	P		1	1685	4		81
599	5	92	MCW	DUMMY PUNCH					
600	5	93	MCW	MOVE REC TOT					2541
601	5	94	MCW	AND CD CNT TO					2320
602	5	95	MCW	PRINT AREA					82
603	5	96	W	CD CNT					2316
604	5	97	CC	PRINT					82
605	5	98	CS	CLEAR PRINT AREA					82
606	5	99	SW	225					225
607	6	00	SW	101.1					82
608	6	01	MCW	225,RECTOT					201
609	6	02	MCW						101
610	6	03	MCW						001
611	6	04	MCW	PRTPCH+7,XTRPCH					1112
612	6	05	BCE	ALTSFK,PUNCH+3,N					1087
613	6	06	MCW	NOP,PUNCH+3					83
614	6	07	BSS	SWB ON,B					2325
615	6	08	B	ALLTAP,NUMFIL,					84
616	6	09	B	TYPFIL					1879
617	6	10	TSTNUM B	BR TO SPEC FILES					84
618	6	11	SW	UPDATE SELECT					1794
619	6	12	A	FILE COUNT					914
620	6	13	CW	TWO,FILCOMP+6					84
621	6	14	CW	FILCOMP+4					916
622	6	15	MULTFIL A	BR NEW FIX INFO					85
623	6	16	C	ONB80-2,FILTOT					1959
624	6	17	BU	NUMFIL,FILTOT					85
625	6	18	BU	BR ON MORE FILES					2202
626	6	19	MCW	PROSND CS					85
627	6	20	SW	ZZZERO-1,FILTOT					2332
628	6	21	CS	201					85
629	6	22	BSS	TYPFY+98					2301
630	6	23	REEL RND	FILE,E					86
631	6	24	FILE H	NO REWIND					86
632	6	25	ALTSFK MCW	REWIND TAPE					001
633	6	26	B	HALT BR NEWFIX					86
634	6	27	ENDFIL MCW	LETX K PUNCH+3					86
635	6	28	MCW	TSTALL-5					2330
636	6	29	B	LOCSLF,FILCOMP+6					1087
637	6	30	SWB ON H	TSTALL					87
638	6	31	ALLTAP LCA	GPWK78,TPNTRY+80					1759
639	6	32	RTW	1,TPNTRY					2324
640	6	33	MCW	BLANKS					87
641	6	34	B	TRAILR					2190
642	6	35	BEF	BR TO TRAILER					88
643	6	36	BKSPSE BSP	BR ON 2 TPKMS					1916
644	6	37	B	PROSND					88
645	6	38	TRAILR BCE	1					001
646	6	39	C	TYPFIL					88
647	6	40	TRAILT BU	TEST TRAILER LAB					1940
				ON TAPE TO LABEL					2781
				STORER FROM CARD					2640

SEQ PG LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION TYPE	CARD A-ADDR	B-ADDR
648	6	41	B	PROSND		4	1936	B Y13	88
649	6	42	TRALOK C	TWO TWO		7	1940	C L29 L29	89
650	6	43	MCW	TPNTRY+79,TRALOC		1	1947	M P80 O40	2329
651	6	44	C			7	1954	C	89
652	6	45	B	TRALFT		4	1955	B Z31	89
653	6	46	NEWFIX CS	TPNTRY+80		4	1959	P81	1931
654	6	47	NOP	TPNTRY		4	1963	N P01	89
655	6	48	B	HDRPRO		4	1967	B 183	2701
656	6	49	R			1	1971	1	89
657	6	50	NOP	INSERT NEW		1	1972	N	90
658	6	51	RDADTL NOP	INFORMATION IN		7	1973	N 000 000	000
659	6	52	NOP	FIXED INFO AREA		1	1980	N	90
660	6	53	CS	0		4	1981	/ 080	90
661	6	54	SW	80		4	1985	, 001	001
662	6	55	B	HDRPRO		4	1989	B 183	2083
663	6	56	TYPFIL B	TSTNUM		4	1993	B X71	91
664	6	57	LCA	GPWK78,TPNTRY+80		7	1997	M L24 P81	2781
665	6	58	RT	1,TPNTRY		8	2004	M P01 P01 R	91
666	6	59	MCW	BLANKS		4	2012	M J90	001
667	6	60	CS	180		4	2016	/ 180	2190
668	6	61	SW	101		4	2020	, 101	180
669	6	62	BEF	TSTNUM		5	2024	B X71 K	101
670	6	63	BCE	TRALOK,TPNTRY+80,		8	2029	B 171 P81	1771
671	6	64	MCW	TPNTRY+79,280		7	2037	M P80 280	2071
672	6	65	W	280,180		7	2044	M 280 180	2780
673	6	66	W			1	2051	2	280
674	6	67	CS	280		4	2052	/ 280	92
675	6	68	CS	TPNTRY+81		4	2056	/ P82	2782
676	6	69	SW	201,TPNTRY		7	2060	, 201 P01	92
677	6	70	B	TYPFIL+11		7	2067	B 104	2011
678	6	71	TRALOK MCW	TPNTRY+79,280		1	2078	M P80 280	2780
679	6	72	MCW			4	2079	B 144	93
680	6	73	B	TRANSC		4	2083	M P01 P01 R	2044
681	6	74	HDRPRO B	SW1-8		8	2087	M P01	93
682	6	75	RT	1,TPNTRY		4	2095	M L03	001
683	6	76	MCW	BLANK		1	2099		2303
684	6	77	CW			5	2100	B 891 K	94
685	6	78	BEF	SW1-8		4	2105	N 165	891
686	6	79	NOP	INITL		7	2109	N P80 280	2165
687	6	80	PART1	TPNTRY+79,280		7	2116	N 280 180	94
688	6	81	NOP	280,180		1	2123	N	280
689	6	82	NOP			4	2124	N 280	94
690	6	83	NOP	280		4	2124	N 280	280
691	6	84	MCW	TPNTRY+79,200		7	2128	M P80 200	2780
692	6	85	NOP	280,180		7	2135	N 280 180	280
693	6	86	W			1	2142	2	180
694	6	87	CS	280		4	2143	/ 280	95
695	6	88	SW	201,200		7	2147	, 201 200	280
696	6	89	MCW	B,PART1-4		7	2154	M L26 J05	2105
697	6	90	B	HDRPRO+4		4	2161	B 187	2087

SEQ PG LIN	LABEL OP	OPERANDS	SFX CT	LCN	INSTRUCTION TYPE	CARD A-ADDR	B-ADDR
698	6 91	INITL MCV	7	2165	M L25 J05	96	2325
699	6 92	BSP	1	2172	U #11 B	96	001
700	6 93	B SW1-8	4	2177	B 891	96	891
701	6 94	FILNUM DCW	2	2182		96	
702	6 95	SLFIL1 DCW	2	2184		96	
703	6 96	SLFIL2 DCW	2	2186		96	
704	6 97	SLFIL3 DCW	2	2188		96	
705	6 98	BLANKS DCW	2	2190		96	
706	6 99	TNTRY ROU	2	2701			
707	7 00	CONSTR DSA	3	2193	P00	97	2700
708	7 01	RECLNG DCW	4	2197		97	
709	7 02	RECLK DCW	3	2200		97	
710	7 03	NUMFIL DCW	2	2202		97	
711	7 04	ENDTYP DCW	1	2203		97	
712	7 05	FXCNO DCW	2	2205		97	
713	7 06	ONR80 DCW	3	2208		98	
714	7 07	ZERO80 DCW	3	2211		98	
715	7 08	SIX DCW	1	2212		98	
716	7 09	FIXED DS	3	2292			
717	7 10	BRMCP DSA	3	2295	607	99	607
718	7 11	BRUPT DSA	3	2298	V11	99	1511
719	7 12	UNITNO DCW	1	2299		99	
720	7 13	SXTEEN DCW	3	2302		99	
721	7 14	BLANK DCW	1	2303		99	
722	7 15	ZZERO DCW	3	2306		99	
723	7 16	ADLNHG DCW	3	2309		99	
724	7 17	RCOUNT DCW	3	2312		100	
725	7 18	CDNT DCW	4	2316		100	
726	7 19	RECTOT DCW	4	2320		100	
727	7 20	ONR01 DCW	3	2323		100	
728	7 21	SPR#78 DCW	1	2324		100	
729	7 22	OP	1	2325	N	100	
730	7 23	B	1	2326	B	100	
731	7 24	MFLCDS DCW	2	2328		101	
732	7 25	TWO DCW	1	2329		101	
733	7 26	LETR K DCW	2	2330		101	
734	7 27	FILTOT DCW	2	2332		101	
735	7 28	FLD 1	12	2344		101	
736	7 29	FLD 1	12	2356		101	
737	7 30	DCW	12	2368		102	
738	7 31	DCW	12	2380		102	
739	7 32	DCW	12	2392		102	
740	7 33	DCW	12	2404		103	
741	7 34	DCW	12	2416		103	
742	7 35	DCW	12	2428		103	
743	7 36	DCW	12	2440		104	
744	7 37	DCW	12	2452		104	
745	7 38	DCW	12	2464		104	
746	7 39	DCW	12	2476		105	
747	7 40	DCW	12	2488		105	

SEQ PG LIN	LABEL OP	OPERANDS	SFX CT	LCN	INSTRUCTION TYPE	CARD A-ADDR	B-ADDR
748	7 41	DCW	12	2500		105	
749	7 42	DCW	12	2512		106	
750	7 43	DCW	12	2524		106	
751	7 44	CONST2 DCW @ CDNT @	8	2532		106	
752	7 45	CONST3 DCW @ NUM REC @	9	2541		107	
753	7 46	SELTOT DCW	2	2543		107	
754	7 47	FULTOT DCW	2	2545		107	
755	7 48	SEOTOT DCW	1	2546		107	
756	7 49	TWELVE DCW	2	2548		107	
757	7 50	CONTRL DCW	2	2550		107	
758	7 51	Z280 DCW	4	2554		107	
759	7 52	BCLP1 DSA	3	2557	751	108	751
760	7 53	BCLP2 DSA	3	2560	802	108	802
761	7 54	TRALOC DS	3	2560	802	108	802
762	7 55	BRFILE DSA	3	2640			
763	7 56	THREE DCW	3	2643	Y42	109	1842
764	7 57	SQBASE DSA	1	2644		109	
765	7 58	SQFLD1 DCW	3	2647	D50	109	2650
766	7 59	SQFLD2 DCW	3	2650		109	
767	7 60	SQFLD3 DCW	3	2653		109	
768	7 61	SEQCNT DCW	3	2656		109	
769	7 62	LETR F DCW	1	2657		109	
770	7 63	ONR00 DCW	1	2658		110	
771	7 64	BRVP DSA	3	2661		110	
772	7 65	BRVAR DSA	3	2664	V25	110	1525
773	7 66	STRHLD DCW	3	2667	649	110	649
774	7 67	REIGHT DCW	2	2671		110	
775	7 68	FIRSTX DCW	1	2672		110	
776	7 69	SECNDA DCW	1	2673	/05	111	1105
777	7 70	LCFPR DSA	3	2676	S56	111	1256
778	7 71	EXPND DSA	1	2679		111	
779	7 72	EXPND DSA	3	2680		111	
780	7 73	ADPX1 DCW	3	2683		111	
781	7 74	XCHAR2 DCW	3	2684		111	
782	7 75	ADPX2 DCW	3	2687		111	
783	7 76	MUDJGT MN	1	2688	D	112	
784	7 77	LETR S DCW	1	2689		112	
785	7 78	LCCSW4 DSA	3	2692	01	112	1001
786	7 79	LETR Y MZ	1	2693	Y	112	
787	7 80	FOUR DCW	1	2694		112	
788	7 81	SELCTR DCW	2	2696	B P01	112	2701
789	7 82	EX	2	2696		113	

SEQ PG LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION TYPE	CARD A-ADDR	B-ADDR
790		JOB	1401-UT-028 EXCEPTION ROUTINE						
791	7 83	ORG	2701				2701		
792	7 84	BCE	TPUNIT,117,	8	2701	M A50 117		3150	117
793	7 85	MCW	BR NO EXCEPTIONS	7	2709	M L26 997		116	2326
794	7 86	BCE	SET INSTRUCTIONS	8	2716	B P77 160		116	2777
795	7 87	OPTST	FOR EXCEPTION	8	2714	B P59 117 2		116	2759
796	7 88	BCE	OPTION DESIRED	8	2732	B P92 117 3		116	2792
797	7 89	BCE		8	2740	B Q03 117 4		117	2803
798	7 90	MCW		8	2748	M L25 186		117	2325
799	7 91	B	SETXCP	4	2755	B Q31		117	2831
800	7 92	PRINTX	NOP, PUNCH+2	7	2759	M L25 186		117	2325
801	7 93	MCW	NOP, OPTION+7	7	2766	M L25 S45		117	2325
802	7 94	B	SETXCP	4	2773	B Q31		117	2831
803	7 95	FIXCPT	NOP, EXCEPT	7	2777	M L25 /42		118	2325
804	7 96	ERROR	OPTST	4	2784	B P24		118	2724
805	7 97	ERROR	*-3	4	2788	. P88		118	2788
806	7 98	PTPCHX	NOP, OPTION	7	2792	M L25 S38		118	2325
807	7 99	B	PRINTX+7	4	2799	B P66		118	2766
808	8 00	STKSIX	STKX+6, OPTION+6	7	2803	M A35 S44		118	3135
809	8 01	MCW	XCFSK+6, OPTION+13	7	2810	M A42 S51		119	3142
810	8 02	MCW	REFSTK+6, XCPEND+20	7	2817	M A49 S76		119	3149
811	8 03	MCW	NOP, XCPEND+21	7	2824	M L25 S77		119	2325
812	8 04	SETXCP	117, FOUR	7	2831	C 117 O94		119	117 2694
813	8 05	BL	ERROR	5	2838	B P88 T		119	2788
814	8 06	MCW	118, XCHAR1	7	2843	M 118 O80		120	118 2680
815	8 07	BCE	XLOCIM,121,1	8	2850	B A07 121 1		120	3107 121
816	8 08	A	124, ADDRXL	7	2858	A 124 O83		120	124 2683
817	8 09	BCE	NOCHR2,126,	8	2865	B P63 126		120	3063 126
818	8 10	STORE2	125, XCHAR2	7	2873	M 125 O84		120	125 2684
819	8 11	BCE	XLOCZM,127,1	7	2878	B A18 127 1		121	3118 127
820	8 12	BCE	130, ADDRXL	8	2886	A 130 O85		121	130 2687
821	8 13	BWZ	DCHE1,120, B	8	2888	A 120 O86		121	3088 120
822	8 14	BWZ	DCHE1,120, S	8	2903	V 120 O87		121	2903 120
823	8 15	BWZ	ERROR,120 S	8	2911	V P88 120 S		121	2788 120
824	8 16	MCW	MVDIGT, TSTCH1	7	2919	M O88 /70 S		122	2688 1170
825	8 17	DCCHR1	BLANK,120	7	2926	V L03 120		122	2303 120
826	8 18	BCE	ANDOR,120,1	8	2933	B P60 120 1		122	2960 120
827	8 19	BCE	*+5,120,2	8	2941	B P53 120 2		122	2953 120
828	8 20	B	ERROR	4	2949	B P88		122	2788
829	8 21	MCW	LETR, S, TSTCH1+18	7	2953	M O89 /88		123	2689 1188
830	8 22	ANDOR	OR,119,2	8	2960	B R94 119 2		123	2994 119
831	8 23	BCE	*+5,119,1	8	2968	B R60 119 1		123	2980 119
832	8 24	NOP	ERROR	4	2976	N P88		123	2788
833	8 25	MCW	NOP, TSTCH1+19	7	2980	M L25 /89		123	2325 1189
834	8 26	MCW	LOGSM4, TSTCH1+17	7	2987	M O92 /87		124	2692 1187
835	8 27	OR	ZNCHR2,126,2	8	2994	V P96 126 2		124	3096 126
836	8 28	BWZ	DGCHR2,126,2	8	3002	V P25 126 2		124	3025 126
837	8 29	BWZ	ERROR,126,S	8	3010	V P88 126 S		124	2788 126
838	8 30	MCW	MVDIGT, TSTCH2	7	3018	M O88 /93		124	2688 1193
839	8 31	DGCHR2	BLANK,126	7	3025	V L03 126		125	2303 126

SEQ PG LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION TYPE	CARD A-ADDR	B-ADDR
840	8 32	BCE	TPUNIT,126,1	8	3032	B A50 126 1		3150	126
841	8 33	BCE	*+5,126,2	8	3040	B P52 126 2		125	3052 126
842	8 34	B	ERROR	4	3048	B P88		125	2788
843	8 35	MCW	LETR, S, TSTCH2+18	7	3052	M O89 S11		125	2689 1211
844	8 36	B	TPUNIT	4	3059	B A50		125	3150
845	8 37	NOCHR2	125	4	3063	. 125		126	125
846	8 38	MCW	124,130	7	3067	M 124 130		126	124 130
847	8 39	MCW	118,125	7	3074	M 118 125		126	118 125
848	8 40	B	STORE2	4	3081	B Q73		126	2873
849	8 41	ZNCHR1	LETR Y, TSTCH1	7	3085	M O93 /70		126	2693 1170
850	8 42	B	DGCHR1	4	3092	B R26		126	2926
851	8 43	ZNCHR2	LETR Y, TSTCH2	7	3096	M O93 /93		127	2693 1193
852	8 44	B	DGCHR2	4	3103	B P25		127	3025
853	8 45	XLOC1M	LETR Y,122	7	3107	V O93 122		127	2693 122
854	8 46	B	STORE2-15	4	3114	B Q58		127	2858
855	8 47	XLOC2M	LETR Y,128	7	3118	V O93 128		127	2693 128
856	8 48	B	STORE2+15	4	3125	B Q88		127	2888
857	8 49	STKX	SW8-1, STRKLD	7	3129	M 188 O69		128	1088
858	8 50	XCFSTK	KEIGHT, SW8-1	7	3136	M O71 188		128	2671 1088
859	8 51	RETSTK	STKHL, SW8-1	7	3143	M O69 188		128	2669 1088
860	8 52	TPUNIT	FGMSEL,142,	8	3150	B B46 142		128	3246 142
861	8 53	SW	142	4	3158	. 142		128	142
862	8 54	MCW	142, UNITNO	7	3162	M 142 K99		129	142 2299
863	8 55	MCW	UNITNO, ALITAP+10	7	3169	M K99 Y89		129	2299 1889
864	8 551	MCW	UNITNO, TPCNT+32	7	3176	M K99 T42		129	2299 1342
865	8 56	MCW	UNITNO, TYPFIL+14	7	3183	M K99 107		129	2299 2007
866	8 57	MCW	UNITNO, REEL+3	7	3190	M K99 Y40		129	2299 1840
867	8 58	MCW	UNITNO, BKSPSE+3	7	3197	M K99 Z10		130	2299 1910
868	8 59	MCW	UNITNO, MOVTRP+3	7	3204	M K99 P56		130	2299 956
869	8 60	MCW	UNITNO, TAPROV+3	7	3211	M K99 P50		130	2299 1350
870	8 61	MCW	UNITNO, FAREK+8	7	3218	M K99 U91		130	2299 1491
871	8 62	MCW	UNITNO, FAREK+3	7	3225	M K99 U91		130	2299 1491
872	8 63	MCW	UNITNO, HRSRPR+7	7	3232	M K99 190		131	2299 2090
873	8 64	MCW	UNITNO, INITL+10	4	3239	M K99 J75		131	2299 2175
874	8 65	PGMSEL	CS	80	3246	/ O80		131	080
875	8 66	SW	24,56	7	3250	/ O24 056		131	024 056
876	8 67	SW	63,67	7	3250	/ O63 067		131	063 067
877	8 68	R	ERROR	1	3264	. 1		131	063
878	8 69	BCE	SELPGM,160,	8	3265	B B77 160		132	3277 160
879	8 70	B	RUNOUT	4	3273	B B97		132	3297
880	8 71	SELPGM	ECE	8	3277	B O56 J94 V		132	056 2194
881	8 72	BCE	56,76,2	8	3285	B O56 076 2		132	056 076
882	8 73	R	SELPGM+8	4	3293	. 1 B85		132	3285
883	8 74	RUNOUT	BCE	8	3297	B O56 076		133	056 076
884	8 75	R	ERROR	4	3305	. 1 B97		133	056 076
885	8 76	NOP	OPTST-23	1	3309	N P24		133	2724
886	8 77	EX							

SEQ PG LIN	LABEL OP	OPERANDS	SFX CT	LOCN	INSTRUCTION TYPE	CARD A-ADDR	B-ADDR
887							
888	8 78	JOB			0600		690
889	8 79	VARECD MCW	7	0600	M 393 690	137	2193
890	8 80	CONST,VARINS+10	7	0607	M 737 662	137	737
891	8 81	VCONST,VNDTST+6	7	0614	M 061 693	137	2661
892	8 82	ONE00,VARINS+13	7	0621	, 688 660	137	688
893	8 83	VARINS+8,VNDTST+4	7	0628	A K06 693	137	2206
894	8 84	ONE80-2,VARINS+13	7	0635	A K06 690	138	2206
895	8 85	ONE80-2,VARINS+10	7	0642	A K06 662	138	2206
896	8 86	VARINS+8,VNDTST+6	7	0649	) 688 660	138	688
897	8 87	VAREND,0-0	8	0656	V 698 000 1	138	698
898	8 88	VARINS+13,ONE80	7	0664	C 693 K08	138	698
899	8 89	BE	5	0671	B 680 S	139	680
900	8 90	VARECD+21	4	0676	B 621	139	621
901	8 91	VARINS MCW	7	0680	M 067 | 92	139	2667
902	8 92	BRVAR,SW8+3	7	0687	M 000 000	139	000
903	8 93	NUMCDS	4	0694	B | 33	139	1033
904	8 94	VAREND MCW	7	0698	M 064 | 92	139	2664
905	8 95	CS	4	0705	/ 180	139	180
906	8 96	SW	7	0709	, 660 101	140	660
907	8 97	MCW	7	0716	M 662 730	140	662
908	8 98	VNDTST+4	4	0723	) 660	140	660
909	8 99	VARCWM CW	4	0727	) 000	140	000
910	9 00	B	4	0731	B 687	140	687
911	9 01	VCONST DSA	3	0737	POI	140	2701
912	9 02	EX			B B97	141	3297
		RUNOUT					

SEQ PG LIN	LABEL OP	OPERANDS	SFX CT	LOCN	INSTRUCTION TYPE	CARD A-ADDR	B-ADDR
913							
914	9 03	JOB			0600		084
915	9 04	CEG MCW	7	0600	M 397 084	144	2197
916	9 05	CMP C	5	0614	C N54 084	144	2554
917	9 06	BH	4	0619	/ 180 U	144	659
918	9 07	CS	4	0619	/ 180	144	180
919	9 08	SW	7	0623	, 101 692	144	101
920	9 09	MCW	7	0630	M 98 | 92	144	2298
921	9 10	SETFCH MCW	7	0637	M 084 693	145	084
922	9 11	A	7	0644	A 084 183	145	084
923	9 12	CW	4	0651	| 692	145	692
924	9 13	B	4	0655	B 680	145	680
925	9 14	ADDR0 A	7	0659	A N54 183	145	2554
926	9 15	S	7	0666	S N54 084	145	2554
927	9 16	MZ	7	0673	Y J89 084	146	2189
928	9 17	REMOV MCW	7	0680	M 183 690	146	183
929	9 18	PCHMOV MCW	7	0687	M 000 180	146	000
930	9 19	NOP	1	0694	N	146	000
931	9 20	B	4	0695	B | 33	146	1033
932	9 21	COLBIN RTB	8	0699	M #B1 P01 R	146	001
933	9 22	BER	5	0707	B 793 L	146	793
934	9 23	MCW	7	0712	M L06 854	147	2306
935	9 24	BEF	5	0719	B 773 K	147	773
936	9 25	MBC	8	0724	M Q60 580 B	147	2860
937	9 26	A	7	0732	A K06 L16	147	2206
938	9 27	ONE80-2,CDCNT	7	0739	A K06 L20	147	2206
939	9 28	MCW	7	0746	M | 87 755	148	1087
940	9 29	PCB	2	0753	4 C	148	000
941	9 30	CW	8	0755	N 4	148	000
942	9 31	SW	8	0757	) Q69 Q62 5	148	2869
943	9 32	B	4	0769	B 953	148	953
944	9 33	MCW	7	0773	B P02	148	2702
945	9 34	FILMVK CW	4	0777	B 873	149	1673
946	9 35	B	8	0781	B 953 P81	149	953
947	9 36	TSSTIN RCE	4	0789	B 699	149	699
948	9 37	B	8	0793	B 829 853 1	149	829
949	9 38	TAPERB RCE	5	0801	U #U1 B	149	001
950	9 39	ESP	8	0806	V 818 Q69 1	149	818
951	9 391	EWZ	4	0814	A K06 854	150	953
952	9 40	B	7	0818	A K06 854	150	2206
953	9 41	ENTER A	4	0825	B 699	150	699
954	9 43	B	4	0829	B 712	150	712
955	9 44	B	1	0833	.	150	001
956	9 45	H	5	0834	U #U1 B	150	001
957	9 46	BSP	8	0839	M #B1 P01 R	150	001
958	9 47	RTB	5	0847	B 712 G	151	712
959	9 48	BSS	1	0852	.	151	000
960	9 49	H	2	0854	B B97	151	3297
961	9 50	BERCNT DCW					
962	9 51	EX					
		RUNOUT					

SEQ PG LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION TYPE	CARD A-ADDR	B-ADDR
963		JOB	1401-UT-028 ANML ROUTINE						
964	9 52	ORG	2701			2701		3605	2194
965	9 53	VARTST BCE	VRANL,RECLNG-3,V BR VAR LNG ANAL		8	2701	B R22 143	155	2922
966	9 54	BCE	FINISH,143, BR ON NO BINARY		4	2717	/ 599	155	599
967	9 55	CS			1	2721	/	155	599
968	9 56	CS			4	2722	, 401	155	401
969	9 57	SW	MIXED,143,2		8	2726	B D43 143 2	155	3443
970	9 58	BCE	B,MOVTA*2		7	2734	M L26 955	156	2348
971	9 59	MCW	*+1,DEBLCK+7		7	2741	M P48 T98	156	2748
972	9 591	MCW	B,TAPMOV+2		7	2748	M L26 929	156	2326
973	9 60	MCW	NOP,AUTTOT+4		7	2745	D L25 144	156	2325
974	9 61	MN	NOP,AUTTOT+4		7	2752	D L25 144	156	2325
975	9 62	MN	LENGTH ROUTINE		7	2762	D L25 97	156	2325
976	9 63	MCW	TO OPERATE IN		7	2769	/ 00 147	157	1100
977	9 64	MCW	B,GFIX+7,AUTTOT+7		7	2776	M L26 147	157	2326
978	9 65	MCW	B,AUTTOT+7		7	2783	M L26 / 00	157	2326
979	9 66	LCA	B,GFIX+7		7	2790	L G04 185	157	3704
980	9 67	LCA	B,INPCH,PUNCH+1		7	2797	L G04 121	157	3704
981	9 671	LCA	B,INPCH,XTRPCH+1		7	2804	L G04 /13	158	3704
982	9 672	MCW	B,INPCH,PRTPCH+8		7	2811	M L25 U39	158	2325
983	9 673	MCW	NOP,BLKNND+5		7	2818	M L25 U46	158	2325
984	9 674	MCW	NOP,BLKNND+12		7	2825	M L25 T91	158	2325
985	9 675	MCW	NOP,BLKNND+12		7	2832	M L25 T98	158	2325
986	9 68	MCW	NOP,DEBLCK+7		7	2839	M L25 607	159	2325
987	9 69	MCW	NOP,COMP+7		7	2846	M L25 614	159	2325
988	9 70	C	RECLNG,ONE68		7	2853	C J97 F91	159	2197
989	9 71	BE	FULLCD		5	2860	B E73 S	159	3573
990	9 72	MCW	RECLNG,CVTPCH		7	2865	M J97 G02	159	2197
991	9 73	A	CVTPCH		4	2872	A G02	159	3702
992	9 74	A	CVTPCH		7	2876	A G02 G02	160	3702
993	9 75	A	RECLNG,CVTPCH		7	2880	A G01 F98	160	3701
994	9 76	MCW	NOP,SETPCH		7	2884	M L25 637	160	2325
995	9 77	PCHSET	MCW		7	2901	L F99 694	160	3699
996	9 78	LCA	BRCHV,PCMOV+7		7	2908	M L25 V11	160	2325
997	9 79	MCW	NOP,UPCNT		7	2915	M L25 V18	161	2325
998	9 80	MCW	NOP,UPCNT+7		7	2922	M K99 233	161	2329
999	9 81	FINISH	MCW		7	2929	M K99 E67	161	2329
1000	9 82	MCW	UNTRNO,BACKUP+19		7	2936	B R62 J84	161	2962
1001	9 83	BCE	NOSEL,SIFL11,		8	2943	M L25 X59	161	2325
1002	9 84	MCW	NOP,*STALL,		7	2951	M L25 X71	162	2325
1003	9 85	MCW	NOP,*STNUM		7	2958	B ?06 K	162	3006
1004	9 86	B	HEADR		8	2962	B R77 K02	162	2977
1005	9 87	NOSEL	BCE		4	2970	B ?06	162	3006
1006	9 88	B	HEADR		3	2976	Z59	162	1959
1007	9 89	LCWFX	DSA		7	2977	M R76 Z96	162	2976
1008	9 90	REELND	MCW		7	2984	M R76 127	163	2976
1009	9 91	MCW	LCWFX,TRANRC-17		7	2991	B ?06 K03 1	163	3006
1010	9 92	BCE	NOSEL,SIFL11,		8	2991	B ?06 K03 1	163	3006
1011	9 93	MCW	NOP,ENDTYP,1		7	2999	M L25 Y98	163	2325
1012	9 94	HEADR	BCE		8	3006	B E54 147	163	3584
									147

SEQ PG LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION TYPE	CARD A-ADDR	B-ADDR
1013	9 95	CLRTPE	LCA		7	3014	L L24 R00	163	2324
1014	9 96	CS	GPWK78,TPNTRY+199		4	3021	/ Q99	164	2899
1015	9 97	CS	TPNTRY+198		1	3025	/	164	2899
1016	9 98	SW	TPNTRY		4	3026	, P01	164	2701
1017	9 99	RT	L,TPNTRY		8	3030	M #U1 P01 R	164	001
1018	10 00	MCW	BLANK		4	3038	M L03	164	2303
1019	10 01	CW			1	3042	)	164	
1020	10 02	BEF	LDCLER		5	3043	B F50 K	164	3650
1021	10 03	NOP	BACKUP		4	3048	N E64	165	3564
1022	10 04	SW	L44		4	3052	, 144	165	144
1023	10 05	LCA	157,97		7	3056	L 157 097	165	157
1024	10 06	BCE	PRTDR,87,1		8	3063	B A44 087 1	165	3144
1025	10 07	BCE	PCHDR,87,2		8	3071	B C00 087 2	165	3300
1026	10 08	BCE	HDCHP,87,4		8	3079	B C89 087 4	165	3389
1027	10 09	B	SETEND		4	3087	B D05	166	3405
1028	10 10	MCW	B,CLRTPE+34		7	3091	M L26 ?48	166	2326
1029	10 11	BCE	CLRTPE+16,97,		8	3098	B ?30 097	166	3030
1030	10 12	BCE	HDFT,97,2		8	3106	B A20 097 2	166	3129
1031	10 13	MCW	NOP,HDRPRO		7	3114	M L25 183	166	2325
1032	10 14	BCE	CLRTPE+16,97,1		8	3121	M ?30 097 1	167	3030
1033	10 15	MCW	NOP,TPPFIL		7	3129	M L25 Z93	167	2325
1034	10 16	B	CLRTPE+16		4	3136	B ?30	167	3030
1035	10 17	B	CLRTPE+16		4	3140	B ?30	167	3030
1036	10 18	PRTDR	C		7	3144	C 086 K11	167	086
1037	10 19	BL	DBLINE		5	3151	B B20 T	167	3220
1038	10 20	SW	PRTINS+1,PRTINS+5		7	3156	, A85 A89	168	3185
1039	10 21	MCW	86,PRTINS+6		7	3163	M 086 A90	168	086
1040	10 22	A	86,PRTINS+3		7	3170	A 086 A87	168	086
1041	10 23	CW	PRTINS+1,PRTINS+5		7	3177	, A85 A89	168	3189
1042	10 24	MCW	TPNTRY+1,200		7	3184	M P00 200	168	2700
1043	10 25	MCW	PRTINS+6,PART2+6		7	3191	M A50 J84	168	2184
1044	10 27	W	280,180		7	3198	, 280 180	169	280
1045	10 27	W			1	3205	, 280 180	169	280
1046	10 28	CC	1		2	3206	F 1	169	280
1047	10 29	CS	280		4	3208	/ 280	169	280
1048	10 30	SW	201		4	3212	, 201	169	201
1049	10 31	B	AFTLIST		4	3216	B ?91	169	3091
1050	10 32	DBLINE	MCW		7	3220	M B05 J23	170	3205
1051	10 33	MCW	PRTINS+21,PART1+14		7	3220	M B20 J09	170	3205
1052	10 34	MCW	DBLINE,PART1		7	3234	M B08 J24	170	3208
1053	10 35	CS	280		4	3241	/ 280	170	280
1054	10 36	MCW	TPNTRY+79,280		7	3245	M P80 280	170	2780
1055	10 37	NOP	280,180		7	3252	N 280 180	170	280
1056	10 38	W			1	3259	, 280	171	280
1057	10 39	CS	280		4	3264	, 201	171	201
1058	10 40	SW	201		4	3268	S K11 086	171	2211
1059	10 41	S	ZER080,86		7	3275	Y J89 086	171	2189
1060	10 42	MZ	BLANKS-1,86		7	3282	M B48 A87	171	3248
1061	10 43	MCW	DBLINE+28,PRTINS+3		7	3289	M B20 J16	171	3220
1062	10 44	MCW	DBLINE,PART1+7		7	3289	M B20 J16	171	3220

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SEQ PG LIN	LABEL OP	OPERANDS	SFX CT	LOCN	INSTRUCTION TYPE	CARD A-ADDR	B-ADDR
1063 10 45	B	PRTRDR+12	4	3296	B A56	172	3156
1064 10 46	PCHDR MCW	PCHDR,DBLINE+12	7	3300	M C00 B32	172	3300
1065 10 47	MCW	SIX DBLINE+39	7	3307	M K12 B59	172	3259
1066 10 48	MCW	PCHDR,PTINS+14	7	3314	M C00 A98	172	3300
1067 10 49	MCW	SIX,PTINS+21	7	3321	M K12 B05	172	3205
1068 10 50	MCW	PCHDR,PART2+7	7	3328	M C00 J35	172	3300
1069 10 51	MCW	SIX,PART2+14	7	3335	M K12 J42	173	2142
1070 10 52	MCW	SIX,TRANRC	4	3342	M K12 I44	173	2212
1071 10 53	CS	180	4	3349	/ 180	173	180
1072 10 54	SW	101	4	3353	/ 101	173	101
1073 10 55	B	PRTRDR	4	3357	B A44	173	3144
1074 10 56	SW	HDOMP+1,HDOMP+4	7	3361	/ C90 C93	173	3393
1075 10 57	A	86,HDOMP+6	7	3368	A 086 C95	174	086
1076 10 58	A	86,HDOMP+3	7	3375	A 086 C92	174	086
1077 10 59	MCW	HDOMP+1,HDOMP+4	7	3382	/ C90 C93	174	3390
1078 10 60	HDOMP C	3801,TPNTRY	7	3389	C H01 P01	174	3801
1079 10 61	BE	SETEND	5	3396	B D05 S	174	3405
1080 10 62	B	HD RMSG	4	3401	B D23	174	3423
1081 10 63	SETEND MCW	NOP,PART2+14	7	3405	M L25 J42	175	2325
1082 10 64	MCW	NOP,TRANRC+7	7	3412	M L25 I51	175	2325
1083 10 65	B	AFTLIST	4	3419	B ?91	175	3091
1084 10 66	HD RMSG MCW	HDERR,220	7	3423	M F85 220	175	3685
1085 10 67	W	220	1	3430	2	175	220
1086 10 68	CS	201	4	3431	/ 220	175	201
1087 10 69	SW	201	4	3435	/ 201	175	201
1088 10 70	H	SETEND	4	3439	. D05	176	3405
1089 10 71	MIXED MCW	B,SW2	7	3443	M L26 949	176	2326
1090 10 72	MCW	NOP,OPCNT+7	7	3450	M L25 V18	176	2326
1091 10 73	MCW	UNLINO,BINBK+13	7	3457	M K59 842	176	2299
1092 10 74	ECE	*6,156,	9	3464	B D72 158	176	3472
1093 10 75	MCW	NOP,BINBK	7	3472	M K59 837	177	2289
1094 10 76	MCW	UNLINO,BINBK+8	7	3479	M K59 837	177	2289
1095 10 77	MCW	UNLINO,TRAPER+11	7	3486	M K39 804	177	2289
1096 10 78	MCW	UNLINO,COLIN+3	7	3493	M K39 702	177	2289
1097 10 79	MCW	NOP,PUNCH+2	7	3500	M L25 I86	177	2325
1098 10 80	MCW	BINER,SW8+3	7	3507	M F88 92	178	3688
1099 10 81	MCW	BINER,NUMCDS-1	7	3514	M F88 132	178	3688
1100 10 82	MCW	BINER,CVTTST-1	7	3521	M F88 V80	178	3688
1101 10 83	MCW	NOP,XTRPCH	7	3528	M L25 20	178	2325
1102 10 84	MCW	Z880,RECLG	7	3535	M N54 J97	178	2554
1103 10 841	ECE	FINISH,158,	8	3542	B R22 I58	179	2922
1104 10 842	MCW	NOP,BINBK	7	3550	M L25 829	179	2325
1105 10 85	B	FINISH	4	3557	B R22	179	2922
1106 10 86	BRPCH DSA	PUNCH	3	3563	I84	179	1084
1107 10 87	BACKUP BSP	1	5	3564	U&U1 B	179	001
1108 10 88	B	LDCLER	4	3569	B F50	179	3650
1109 10 89	FULLCD MCW	ENCNST,CONST1	7	3573	M G07 J93	179	3707
1110 10 90	B	PCHSET	4	3580	B Q94	180	2894
1111 10 91	NOHDR MCW	LCDDCL,AFTLIST+10	7	3584	M F04 A01	180	3604
1112 10 92	LCA	157,97	7	3591	L 157 097	180	157

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SEQ PG LIN	LABEL OP	OPERANDS	SFX CT	LOCN	INSTRUCTION TYPE	CARD A-ADDR	B-ADDR
1113 10 93	B	AFTLIST	4	3598	B 291	180	3091
1114 10 94	LCDDCL DSA	LDCLER	3	3604	F50	180	3650
1115 10 95	VENNAL MCW	ALUTAP+7,MOVTP	7	3605	M Y86 953	180	1886
1116 10 96	MCW	LCVRCD,SW5+3	7	3612	M F46 I08	180	3646
1117 10 97	MCW	NOP,PUNCH+2	7	3619	M L25 I86	181	2325
1118 10 98	MCW	NOHDR+7,MOVTP+8	7	3626	M E91 961	181	3591
1119 10 99	MCW	BLNKS,MOVTP+11	7	3633	M F49 964	181	3649
1120 11 00	B	FINISH	4	3640	B R22	181	2922
1121 11 01	LCVRCD DSA	VARECD	3	3646	600	181	600
1122 11 02	BLNKS DSA	BLANKS	3	3649	J90	181	2190
1123 11 03	LDCLER CS	80	4	3650	/ 080	181	080
1124 11 04	SW	24,56	7	3654	, 024 056	182	024
1125 11 05	SW	63,67	7	3661	, 063 067	182	063
1126 11 06	R	56	4	3668	1 056	182	056
1127 11 07	HDERR DCW	@HEAD COMP UNEQ@	14	3685		182	
1128 11 08	BINER DSA	TSSTEIN	3	3688	781	182	781
1129 11 09	ONE68 DCW	168	3	3691		182	
1130 11 10	BECHMV DCW	@M000580B@	8	3699		183	
1131 11 11	CVTFCH DCW	#3	3	3702		183	
1132 11 12	BINFCH DCW	@4C@	2	3704		183	
1133 11 13	BKNST DCW	092	3	3707		183	
1134 11 14	BRHDDR DSA	HDRPRO	3	3710	I83	183	2083
1135 11 15	EX	VARTST	3	3710	I83 B P01	184	2701

