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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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1401 COBOL - BOOTSTRAP PAGE 1

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
101	1	010	000	JOB	1401 COBOL - BOOTSTRAP						
102	1	020		CTL	661 11						
103	1	030		ORG	100				0100		
104	1	040	X1	EQU	89			0089			
105	1	050		SW	087,092	7		0100	, 087 092		4
106	1	060		SW	097,100	7		0107	, 097 100		4
107	1	070		SBR	X1,3999	7		0114	H 089 I99		4
108	1	080	BOOTST	CS	0&X1	4		0121	/ 0|0		4
109	1	090		SBR	X1	4		0125	H 089		4
110	1	100		BW	22,100	8		0129	V 022 100 1		4
111	1	110		RTW	1,2000	8		0137	L %U1 !00 R		5
112	1	120		B	2000	4		0145	B !00		5
113	1	130		DCW	#1	1		0149			5
114	1	140		LTOrg	*				0150		
115	1	150		DCW	@}@	1		0150			5
116	1	160		END					/ 000 080		6

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

1401 COBOL - CONTROL FOR DETERMINING

PAGE 1

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
101	1	010	000	JOB	1401 COBOL - CONTROL FOR DETERMINING						
102	1	020		CTL	661 11						
103	1	030		ORG	2000				2000		
104	1	040	X1	EQU	89			0089			
105	1	050	X2	EQU	094			0094			
106	1	060	X3	EQU	099			0099			
107	1	070	SW1	EQU	81			0081			
108	1	080	GENSW	EQU	82			0082			
109	1	090	R6	EQU	83			0083			
110	1	100	R5	EQU	84			0084			
111	1	110	CONTRL	CS	099	4		2000	/ 099		4
112	1	120		SW	087,092	7		2004	, 087 092		4
113	1	130		SW	097	4		2011	, 097		4
114	1	140	CONT03	R		1		2015	1		4
115	1	150		BIN	READER, ?	5		2016	B J13 ?		4
116	1	160		SS	1	2		2021	K 1		4
117	1	170		C	012,@SYSTEMS@	7		2023	C 012 C28		4
118	1	180		BE	CONTSY	5		2030	B L88 S		5
119	1	190		C	020,@RUN @	7		2035	C 020 C33		5
120	1	200		BE	CONTCB	5		2042	B !70 S		5
121	1	210		MLC	NCTLMS,285	7		2047	M C01 285		5
122	1	220	CONT02	W		1		2054	2		5
123	1	230		BIN	CONT02, |	5		2055	B !54 |		5
124	1	240		CC	1	2		2060	F 1		5
125	1	250		H	CONT03	4		2062	. !15		6
126	2	010		B	CONT03	4		2066	B !15		6
127	2	020	CONTCB	MLC	@4@,REDCNT	7		2070	M C34 C21		6
128	2	030	CONT04	S	@1@,REDCNT	7		2077	S C35 C21		6
129	2	040		RTW	1,335	8		2084	L %U1 335 R		6
130	2	050		SBR	X3	4		2092	H 099		6
131	2	060	CONT05	BER	TERR	5		2096	B J21 L		6
132	2	070		BCE	HER,REDCNT, ?	8		2101	B J93 C21 ?		7
133	2	080		B	CONT04	4		2109	B !77		7
134	2	090	READER	H	CONT03	4		2113	. !15		7
135	2	100		B	CONT03	4		2117	B !15		7
136	2	110	TERR	MLC	&TERR1,CONT05&3	7		2121	M C38 !99		7
137	2	120		ZA	@0@,X2	7		2128	? C39 094		7
138	2	130	TERR1	BSP	1	5		2135	U %U1 B		7
139	2	140		A	@1@,REDCNT	7		2140	A C35 C21		8
140	2	150		BCE	*&5,X2,I	8		2147	B J59 094 I		8
141	2	160		B	CONT04	4		2155	B !77		8
142	2	170		CS	299	4		2159	/ 299		8
143	2	180		MLC	CNTRED,275	7		2163	M C20 275		8
144	2	190	CONT06	W		1		2170	2		8
145	2	200		BIN	CONT06, |	5		2171	B J70 |		8
146	2	210		MLC	&TERR,CONT05&3	7		2176	M C42 !99		9
147	2	220		CC	1	2		2183	F 1		9

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	2	230		H	CONTCB		4	2185	. !70		9
149	2	240		B	CONTCB		4	2189	B !70		9
150	2	250	HER	SW	1300,1		7	2193	, T00 001		9
151	3	010		RWD	5		5	2200	U %U5 R		9
152	3	020		RWD	6		5	2205	U %U6 R		9
153	3	030		RWD	4		5	2210	U %U4 R		10
154	3	040		BSS	*&5,C		5	2215	B K24 C		10
155	3	050		B	RCR		4	2220	B K29		10
156	3	060		RWD	3		5	2224	U %U3 R		10
157	3	070	RCR	SW	HEADER&15		4	2229	, /50		10
158	3	080		MLC	@T00@,X2		7	2233	M C45 094		10
159	3	090		C	010,@COBOL@		7	2240	C 010 C50		10
160	3	100		BE	REST1		5	2247	B K85 S		11
161	3	110		C	010,@XTRAN@		7	2252	C 010 C55		11
162	3	120		MLC	@X10@,PHASID		7	2259	M C58 /12		11
163	3	130		BE	REST1		5	2266	B K85 S		11
164	3	140		MLC	023,PHASID		7	2271	M 023 /12		11
165	3	150		MLC	@N@,TMSW		7	2278	M C59 /31		11
166	3	160	REST1	WTM	4		5	2285	U %U4 M		12
167	3	170		BSP	4		5	2290	U %U4 B		12
168	3	180	REATAR	MLC	FLIP1,PUTXWT&3		7	2295	M 574 445		12
169	3	190		MLC	FLIP1,PUT2B&3		7	2302	M 574 475		12
170	3	200		MLC	FLIP1,PUT2C&3		7	2309	M 574 480		12
171	3	210		MLC	FLIP2,GETXRD&3		7	2316	M 575 662		12
172	3	220		MLC	FLIP2,GET7&3		7	2323	M 575 701		13
173	3	230		MLC	FLIP2,GET4A&3		7	2330	M 575 692		13
174	3	240		MLC	FLIP2,FLIP3		7	2337	M 575 576		13
175	3	250		MLC	FLIP1		4	2344	M 574		13
176	4	010		MLC	FLIP3		4	2348	M 576		13
177	4	020		CS	0		4	2352	/ 000		13
178	4	030		SBR	HOLDER		4	2356	H R03		13
179	4	040		BCE	A1,HOLDER,I		8	2360	B P72 R03 I		14
180	4	050		BCE	A2,HOLDER,R		8	2368	B R06 R03 R		14
181	4	060		BCE	A3,HOLDER,Z		8	2376	B ?35 R03 Z		14
182	4	070		B	A4		4	2384	B A92		14
183	4	080	CONTSY	MLC	@2@,REDCNT		7	2388	M C60 C21		14
184	4	090	CONN1	S	@1@,REDCNT		7	2395	S C35 C21		15
185	4	100		RTW	1,100		8	2402	L %U1 100 R		15
186	4	110		SBR	X3		4	2410	H 099		15
187	4	120		BER	TERR		5	2414	B J21 L		15
188	4	130		BCE	GO,REDCNT,?		8	2419	B M31 C21 ?		15
189	4	140		B	CONN1		4	2427	B L95		15
190	4	150	GO	CW	R1,R6		7	2431	) 265 083		16
191	4	160		CW	SW1,R1		7	2438	) 081 265		16
192	4	170		CW	R3,R5		7	2445	) 299 084		16
193	4	180		CW	RR1		4	2452	) 570		16
194	4	190		MLCWA	@0@,GENSW		7	2456	L C39 082		16
195	4	200		SW	HDR1&15,072		7	2463	, 804 072		16
196	4	210		SW	001,040		7	2470	, 001 040		17
197	4	220		SW	47,54		7	2477	, 047 054		17

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
198	4	230		SW	61,68		7	2484	, 061 068		17
199	4	240		RWD	1		5	2491	U %U1 R		17
200	4	250		RWD	2		5	2496	U %U2 R		17
201	5	010		B	IORWD		4	2501	B N94		17
202	5	020		RTW	1,1000		8	2505	L %U1 |00 R		18
203	5	030		DCW	UPDT03		3	2515	N27		18
204	5	040		MLC	IOSBRD,*&4		7	2516	M P71 N26		18
205	5	050		SW	*		4	2523	, N26		18
206	5	060	UPDT03	B	IORWD		4	2527	B N94		18
207	5	070		WTW	2,1000		8	2531	L %U2 |00 W		18
208	5	080		DCW	*		3	2541	N41		18
209	5	090		MLC	IOSBRD,*&7		7	2542	M P71 N55		19
210	5	100		MLC	@ @, *		7	2549	M C61 N55		19
211	5	110		SW	STOPER		4	2556	, D65		19
212	5	120		B	IORWD		4	2560	B N94		19
213	5	130		WTW	2,2000		8	2564	L %U2 !00 W		19
214	5	140		DCW	*		3	2574	N74		19
215	5	150		B	IORWD		4	2575	B N94		19
216	5	160		RT	1,RDD1		8	2579	M %U1 D45 R		20
217	5	170		DCW	*		3	2589	N89		20
218	5	180		B	100		4	2590	B 100		20
219	5	190	IORWD	SBR	X1		4	2594	H 089		20
220	5	200		MLC	7&X1,IOINTD&7	MOVE IN I/O INSTRUCTION.	7	2598	M 0|7 O40		20
221	5	210		MLC	@012@,IOCHND&6	LOAD CHECK FOR NOISE RECORD.	7	2605	M C64 O72		20
222	5	220		MA	6&X1,IOCHND&6		7	2612	# 0|6 O72		21
223	5	230		MLC	10&X1,GENRFD&3	MOVE IN EOF ADDRESS.	7	2619	M 0/0 P67		21
224	5	240	RBKD	MLC	@9@,IOCERD		7	2626	M C65 P68		21
225	5	250	IOINTD	RT	0,0	SKELETON I/O INSTRUCTION.	8	2633	M %U0 000 R		21
226	6	010		SBR	*&4		4	2641	H O48		21
227	6	020		MLNS	0		4	2645	D 000		21
228	6	030		SAR	IOSBRD	GT POSITION OF GP-WM.	4	2649	Q P71		22
229	6	040		BCE	IOWRTD,IOINTD&7,W	IF WRITE I/O BRANCH.	8	2653	B O86 O40 W		22
230	6	050		BEF	GENRFD		5	2661	B P64 K		22
231	6	060	IOCHND	BCE	IOINTD,0,}		8	2666	B O33 000 }		22
232	6	070		BCE			1	2674	B		22
233	6	080		BCE			1	2675	B		22
234	6	090		BCE			1	2676	B		22
235	6	100		BCE			1	2677	B		23
236	6	110		BCE			1	2678	B		23
237	6	120		BCE			1	2679	B		23
238	6	130		BCE			1	2680	B		23
239	6	140		BCE			1	2681	B		23
240	6	150		BCE			1	2682	B		23
241	6	160		BCE			1	2683	B		23
242	6	170		BCE			1	2684	B		24
243	6	180		BCE			1	2685	B		24
244	6	190	IOWRTD	BER	IOERRD	IF ERROR BRANCH.	5	2686	B P00 L		24
245	6	200		BEF	GENRFD	IF EOF BRANCH.	5	2691	B P64 K		24
246	6	210		B	11&X1		4	2696	B 0/1		24
247	6	220	IOERRD	MLNS	IOINTD&3,*&4	CONDITION BACKSPACE INSTRUCTION.	7	2700	D O36 P10		24

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
248	6	230		BSP	0		5	2707	U %U0 B		24
249	6	240		BM	IO9CKD,IOCERD		8	2712	V P31 P68 K		25
250	6	250		S	@1@,IOCERD		7	2720	S C35 P68		25
251	7	010		B	IOINTD		4	2727	B O33		25
252	7	020	IO9CKD	BCE	SKPIND,IOINTD&7,W		8	2731	B P43 O40 W		25
253	7	030	HRRD	H	RBKD		4	2739	. O26		25
254	7	040	SKPIND	MLNS	IOINTD&3,*&4		7	2743	D O36 P53		25
255	7	050		SKP	0		5	2750	U %U0 E		26
256	7	060		BEF	HRRD		5	2755	B P39 K		26
257	7	070		B	IOINTD		4	2760	B O33		26
258	7	080	GENRFD	B	0		4	2764	B 000		26
259	7	090	IOCERD	DCW	@0@		1	2768			26
260	7	100	IOSBRD	DCW	@000@		3	2771			26
261	7	110	A1	SW	14000		4	2772	, !0?		26
262	7	120	A11	CS	15999		4	2776	/ I9I		27
263	7	130		SBR	A11&3		4	2780	H P79		27
264	7	140		BW	A11,14000		8	2784	V P76 !0? 1		27
265	7	150		MLC	GPMRK,15998		7	2792	M R05 I9H		27
266	7	160		MLC	GPMRK,15697		7	2799	M R05 F9G		27
267	7	170		SW	15998,15697		7	2806	, I9H F9G		27
268	7	180		MLC	@G0?@,PUT7&6		7	2813	M C68 394		28
269	7	190		MLC	@I9G@,PUTMX		7	2820	M C71 564		28
270	7	200		MLC	@F9H@,PUTXWT&6		7	2827	M C74 448		28
271	7	210		MLC	@I9G@,PUTT&6		7	2834	M C71 466		28
272	7	220		MLC	@G0?@,PUTA1		7	2841	M C68 567		28
273	7	230		MLC	@F9F@,GETMX		7	2848	M C77 570		29
274	7	240		MLC	@F9F@,GET1A&3		7	2855	M C77 628		29
275	7	250		MLC	@C9G@,GETXRD&6		7	2862	M C80 665		29
276	8	010		MLC	@C9I@,GETA1		7	2869	M C83 573		29
277	8	020		SW	15698,15397		7	2876	, F9H C9G		29
278	8	030		MLC	@C5?@,X1		7	2883	M C86 089		30
279	8	040		MLCWA	@I0?@,188		7	2890	L C89 188		30
280	8	050		B	UP1		4	2897	B A60		30
281	8	060	HOLDER	DCW	#3		3	2903			30
282	8	070	GPMRK	DCW	@ }@		2	2905			30
283	8	080	A2	SW	10000		4	2906	, !0!		30
284	8	090	A22	CS	12999		4	2910	/ 99I		30
285	8	100		SBR	A22&3		4	2914	H R13		31
286	8	110		BW	A22,10000		8	2918	V R10 !0! 1		31
287	8	120		MLC	GPMRK,11998		7	2926	M R05 I9Q		31
288	8	130		MLC	GPMRK,11697		7	2933	M R05 F9P		31
289	8	140		SW	11998,11697		7	2940	, I9Q F9P		31
290	8	150		MLC	@G0!@,PUT7&6		7	2947	M C92 394		32
291	8	160		MLC	@I9P@,PUTMX		7	2954	M C95 564		32
292	8	170		MLC	@F9Q@,PUTXWT&6		7	2961	M C98 448		32
293	8	180		MLC	@I9P@,PUTT&6		7	2968	M C95 466		32
294	8	190		MLC	@G0!@,PUTA1		7	2975	M C92 567		32
295	8	200		MLC	@F9O@,GETMX		7	2982	M D01 570		33
296	8	210		MLC	@F9O@,GET1A&3		7	2989	M D01 628		33
297	8	220		MLC	@C9P@,GETXRD&6		7	2996	M D04 665		33

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
298	8	230		MLC	@C9R@,GETA1	7		3003	M D07 573		33
299	8	240		SW	11698,11397	7		3010	, F9Q C9P		33
300	8	250		MLC	@C5!@,X1	7		3017	M D10 089		34
301	9	010		MLCWA	@I0!@,188	7		3024	L D13 188		34
302	9	020		B	UP1	4		3031	B A60		34
303	9	030	A3	SW	6000	4		3035	, !0|		34
304	9	040	A33	CS	7999	4		3039	/ I9Z		34
305	9	050		SBR	A33&3	4		3043	H ?42		34
306	9	060		BW	A33,6000	8		3047	V ?39 !0| 1		34
307	9	070		MLC	GPMRK,7817	7		3055	M R05 H1X		35
308	9	080		MLC	GPMRK,7998	7		3062	M R05 I9Y		35
309	9	090		SW	7998,7817	7		3069	, I9Y H1X		35
310	9	100		MLC	@H2|@,PUT7&6	7		3076	M D16 394		35
311	9	110		MLC	@I9X@,PUTMX	7		3083	M D19 564		35
312	9	120		MLC	@H1Y@,PUTXWT&6	7		3090	M D22 448		36
313	9	130		MLC	@I9X@,PUTT&6	7		3097	M D19 466		36
314	9	140		MLC	@H2|@,PUTA1	7		3104	M D16 567		36
315	9	150		MLC	@H1W@,GETMX	7		3111	M D25 570		36
316	9	160		MLC	@H1W@,GET1A&3	7		3118	M D25 628		36
317	9	170		MLC	@F3X@,GETXRD&6	7		3125	M D28 665		37
318	9	180		MLC	@F3Z@,GETA1	7		3132	M D31 573		37
319	9	190		SW	7818,7637	7		3139	, H1Y F3X		37
320	9	200		MLC	@F0|@,X1	7		3146	M D34 089		37
321	9	210		MLCWA	@I0|@,188	7		3153	L D37 188		37
322	9	220	UP1	MLC	@#@,PRT	7		3160	M D38 423		38
323	9	230		MLC	@#@,RTP	7		3167	M D38 614		38
324	9	240		MLC	@#@,RTP1	7		3174	M D38 735		38
325	9	250		MLC	@#@,PBB	7		3181	M D38 |18		38
326	10	010		B	SWINST	4		3188	B |32		38
327	10	020	A4	SW	3800	4		3192	, H00		38
328	10	030	A44	CS	3999	4		3196	/ I99		39
329	10	040		SBR	A44&3	4		3200	H A99		39
330	10	050		BW	A44,3800	8		3204	V A96 H00 1		39
331	10	060		MLC	GPMRK,3898	7		3212	M R05 H98		39
332	10	070		MLC	GPMRK,3998	7		3219	M R05 I98		39
333	10	080		SW	3998,3898	7		3226	, I98 H98		39
334	10	090		SW	3799,3899	7		3233	, G99 H99		40
335	10	100		MLC	@G90@,X1	7		3240	M D41 089		40
336	10	110		MLCWA	@I00@,188	7		3247	L D44 188		40
337	10	120		B	SWINST	4		3254	B |32		40
338	10	130	NCTLMS	DCW	@NO CONTROL CARD RELOAD CARDS AND PRESS START@	44		3301			42
339	10	140	CNTRED	DCW	@CAN NOT READ UNIT 1@	19		3320			42
340	10	150	REDCNT	DCW	@0@	1		3321			42
341	10	160		LTORG	*				3322		
		117		DCW	@SYSTEMS@	7		3328		LIT	42
		119			@RUN @	5		3333		LIT	42
					@4@	1		3334		LIT	43
					@1@	1		3335		LIT	43
		136			&TERR1	3		3338	J35	ADCON	43
					@0@	1		3339		LIT	43

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
		146			&TERR	3		3342	J21	ADCON	43
					@T00@	3		3345		LIT	43
		159			@COBOL@	5		3350		LIT	43
		161			@XTRAN@	5		3355		LIT	44
					@X10@	3		3358		LIT	44
					@N@	1		3359		LIT	44
					@2@	1		3360		LIT	44
					@ @	1		3361		LIT	44
					@012@	3		3364		LIT	44
					@9@	1		3365		LIT	44
					@G0?@	3		3368		LIT	45
					@I9G@	3		3371		LIT	45
					@F9H@	3		3374		LIT	45
					@F9F@	3		3377		LIT	45
					@C9G@	3		3380		LIT	45
					@C9I@	3		3383		LIT	45
					@C5?@	3		3386		LIT	45
					@I0?@	3		3389		LIT	46
					@G0!@	3		3392		LIT	46
					@I9P@	3		3395		LIT	46
					@F9Q@	3		3398		LIT	46
					@F9O@	3		3401		LIT	46
					@C9P@	3		3404		LIT	46
					@C9R@	3		3407		LIT	46
					@C5!@	3		3410		LIT	47
					@I0!@	3		3413		LIT	47
					@H2|@	3		3416		LIT	47
					@I9X@	3		3419		LIT	47
					@H1Y@	3		3422		LIT	47
					@H1W@	3		3425		LIT	47
					@F3X@	3		3428		LIT	47
					@F3Z@	3		3431		LIT	48
					@F0|@	3		3434		LIT	48
					@I0|@	3		3437		LIT	48
					@#@	1		3438		LIT	48
					@G90@	3		3441		LIT	48
					@I00@	3		3444		LIT	48
								3445			
342	10	170	RDD1	EQU	*&1						
343	10	180		DCW	#20			20	3464		48
344	10	190	STOPER	DCW	@} @			1	3465		49

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
345	10	200		JOB	1401 COBOL - UPDATE SYSTEM						
346	10	210		ORG	100				0100		
347	10	220	UPDTL1	R		1	0100	1			50
348	10	230	UPDTL2	SS	1	2	0101	K 1			50
349	10	240		C	20,@UPDAT@	7	0103	C 020	850		50
350	10	250		BE	CHECK	5	0110	B 138	S		50
351	11	010		C	20,@END @	7	0115	C 020	855		50
352	11	020		BE	END01	5	0122	B 524	S		50
353	11	030		MLC	&UPDTL2,071	7	0127	M 858	071		50
354	11	040		B	040	4	0134	B 040			51
355	11	050	CHECK	BWZ	DONE,SW1,1	8	0138	V 520	081 1		51
356	11	060	CHECK1	CW	RR1	4	0146	) 570			51
357	11	070		SW	SW1	4	0150	, 081			51
358	11	080		MLC	21,GENSW	7	0154	M 021	082		51
359	11	090		C	8,HEADID	7	0161	C 008	794		51
360	11	100		BE	FOUND	5	0168	B 342	S		51
361	11	110		BW	BON,R5	8	0173	V 238	084 1		52
362	11	120		CW	R6,R3	7	0181	) 083	299		52
363	11	130	BACK	B	IORWU	4	0188	B 611			52
364	11	140		RTW	1,HDR1	8	0192	L %U1	789 R		52
365	11	150		DCW	*-1	3	0202	201			52
366	11	160		SW	HDR1&15	4	0203	, 804			52
367	11	170		C	8,HEADID	7	0207	C 008	794		53
368	11	180		BE	FOUND	5	0214	B 342	S		53
369	11	190	HERE	B	IORWU	4	0219	B 611			53
370	11	200		WTW	2,HDR1	8	0223	L %U2	789 W		53
371	11	210		DCW	*-1	3	0233	232			53
372	11	220		B	CLEAR	4	0234	B 307			53
373	11	230	BON	B	IORWU	4	0238	B 611			53
374	11	240	RTTP	RTW	1,1000	8	0242	L %U1	|00 R		54
375	11	250		DCW	FINSH	3	0252	829			54
376	12	010		MLC	IOSBRU,*&4	7	0253	M 788	263		54
377	12	020		SW	*	4	0260	, 263			54
378	12	030		NOP		1	0264	N			54
379	12	040	R1	B	HX	4	0265	B 426			54
380	12	050		B	IORWU	4	0269	B 611			54
381	12	060		WTW	2,1000	8	0273	L %U2	|00 W		55
382	12	070		DCW	*-1	3	0283	282			55
383	12	080		MLC	IOSBRU,*&7	7	0284	M 788	297		55
384	12	090		MLC	DCBLNK,*	7	0291	M 805	297		55
385	12	100		NOP		1	0298	N			55
386	12	110	R3	B	HXX	4	0299	B 476			55
387	12	120		B	BACK	4	0303	B 188			55
388	12	130	CLEAR	SBR	RETURN&3	4	0307	H 341			56
389	12	140		SW	1000	4	0311	, |00			56
390	12	150		SBR	X1,3999	7	0315	H 089	I99		56
391	12	160	CLEAR1	CS	0&X1	4	0322	/ 0|0			56
392	12	170		SBR	X1	4	0326	H 089			56
393	12	180		BW	CLEAR1,1000	8	0330	V 322	|00 1		56
394	12	190	RETURN	B	*	4	0338	B 341			56

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
395	12	200	FOUND	BCE	P,GENSW,A	8		0342	B 393 082	A	57
396	12	210		BCE	I,GENSW,I	8		0350	B 456 082	I	57
397	12	220		BCE	H,GENSW,H	8		0358	B 375 082	H	57
398	12	230		BCE	P,GENSW,P	8		0366	B 393 082	P	57
399	12	240		H		1		0374	.		57
400	12	250	H	R		1		0375	1		57
401	13	010		SS	1	2		0376	K 1		57
402	13	020		MLC	15,HDR1&14	7		0378	M 015 803		58
403	13	030		MLC		1		0385	M		58
404	13	040		MLC		1		0386	M		58
405	13	050		MLC		1		0387	M		58
406	13	060		MLC		1		0388	M		58
407	13	070		B	UPDTL1	4		0389	B 100		58
408	13	080	P	SW	R1,R6	7		0393	, 265 083		58
409	13	090		MLC	PHASOR,RTTP&6	7		0400	M 797 248		59
410	13	100		MLC	PHASOR,START&6	7		0407	M 797 550		59
411	13	110		BW	BON,R5	8		0414	V 238 084	1	59
412	13	120		B	HERE	4		0422	B 219		59
413	13	130	HX	BCE	K,GENSW,P	8		0426	B 438 082	P	59
414	13	140		B	CLEAR	4		0434	B 307		59
415	13	150	K	MLC	@|00@,RTTP&6	7		0438	M 861 248		60
416	13	160		CW	R1,R5	7		0445	) 265 084		60
417	13	170		B	UPDTL1	4		0452	B 100		60
418	13	180	I	SW	R3	4		0456	, 299		60
419	13	190		BW	HXX,R6	8		0460	V 476 083	1	60
420	13	200		SW	R6	4		0468	, 083		60
421	13	210		B	HERE	4		0472	B 219		60
422	13	220	HXX	R		1		0476	1		61
423	13	230		SS	1	2		0477	K 1		61
424	13	240		MLC	15,HDR1&14	7		0479	M 015 803		61
425	13	250		MLC		1		0486	M		61
426	14	010		MLC		1		0487	M		61
427	14	020		MLC		1		0488	M		61
428	14	030		MLC		1		0489	M		61
429	14	040		MLC	PHASOR,START&6	7		0490	M 797 550		62
430	14	050		B	CLEAR	4		0497	B 307		62
431	14	060		B	IORWU	4		0501	B 611		62
432	14	070		WTW	2,HDR1	8		0505	L %U2 789	W	62
433	14	080		DCW	*-1	3		0515	514		62
434	14	090		B	UPDTL1	4		0516	B 100		62
435	14	100	DONE	SW	RR1	4		0520	, 570		62
436	14	110	END01	BCE	ENDD,GENSW,H	8		0524	B 806 082	H	63
437	14	120		BCE	END02,GENSW,0	8		0532	B 569 082	0	63
438	14	130	CONT	B	IORWU	4		0540	B 611		63
439	14	140	START	WTW	2,*	8		0544	L %U2 551	W	63
440	14	150		DCW	*-1	3		0554	553		63
441	14	160		MLC	IOSBRU,*&7	7		0555	M 788 568		63
442	14	170		MLC	DCBLNK,*	7		0562	M 805 568		64
443	14	180	END02	NOP		1		0569	N		64
444	14	190	RR1	B	CHECK1	4		0570	B 146		64

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
445	14	200		B	IORWU		4	0574	B 611		64
446	14	210		RTW	1,1000		8	0578	L %U1 |00 R		64
447	14	220		DCW	END		3	0588	830		64
448	14	230		MLC	IOSBRU,*&4		7	0589	M 788 599		64
449	14	240		SW	*		4	0596	, 599		65
450	14	250		MLC	@|00@,START&6		7	0600	M 861 550		65
451	15	010		B	CONT		4	0607	B 540		65
452	15	020	IORWU	SBR	X1		4	0611	H 089		65
453	15	030		MLC	7&X1,IOINTU&7	MOVE IN I/O INSTRUCTION.	7	0615	M 0|7 657		65
454	15	040		MLC	@012@,IOCHNU&6	LOAD CHECK FOR NOISE RECORD.	7	0622	M 864 689		65
455	15	050		MA	6&X1,IOCHNU&6		7	0629	# 0|6 689		66
456	15	060		MLC	10&X1,GENRFU&3	MOVE IN EOF ADDRESS.	7	0636	M 0/0 784		66
457	15	070	RBKU	MLC	@9@,IOCERU		7	0643	M 865 785		66
458	15	080	IOINTU	RT	0,0	SKELETON I/O INSTRUCTION.	8	0650	M %U0 000 R		66
459	15	090		SBR	*&4		4	0658	H 665		66
460	15	100		MLNS	0		4	0662	D 000		66
461	15	110		SAR	IOSBRU	GT POSITION OF GP-WM.	4	0666	Q 788		67
462	15	120		BCE	IOWRTU,IOINTU&7,W	IF WRITE I/O BRANCH.	8	0670	B 703 657 W		67
463	15	130		BEF	GENRFU		5	0678	B 781 K		67
464	15	140	IOCHNU	BCE	IOINTU,0,}		8	0683	B 650 000 }		67
465	15	150		BCE			1	0691	B		67
466	15	160		BCE			1	0692	B		67
467	15	170		BCE			1	0693	B		67
468	15	180		BCE			1	0694	B		68
469	15	190		BCE			1	0695	B		68
470	15	200		BCE			1	0696	B		68
471	15	210		BCE			1	0697	B		68
472	15	220		BCE			1	0698	B		68
473	15	230		BCE			1	0699	B		68
474	15	240		BCE			1	0700	B		68
475	15	250		BCE			1	0701	B		69
476	16	010		BCE			1	0702	B		69
477	16	020	IOWRTU	BER	IOERRU	IF ERROR BRANCH.	5	0703	B 717 L		69
478	16	030		BEF	GENRFU	IF EOF BRANCH.	5	0708	B 781 K		69
479	16	040		B	11&X1		4	0713	B 0/1		69
480	16	050	IOERRU	MLNS	IOINTU&3,*&4	CONDITION BACKSPACE INSTRUCTION.	7	0717	D 653 727		69
481	16	060		BSP	0	BACKSPACE TAPE IF EROR.	5	0724	U %U0 B		69
482	16	070		BM	IO9CKU,IOCERU	IF ERROR 9 TIMES THEN BRANCH.	8	0729	V 748 785 K		70
483	16	080		S	@1@,IOCERU	DECREMENT COUNTER.	7	0737	S 866 785		70
484	16	090		B	IOINTU	BRANCH TO EXECUTE I/O AGAIN.	4	0744	B 650		70
485	16	100	IO9CKU	BCE	SKPINU,IOINTU&7,W	IF WRITE THEN BRANCH.	8	0748	B 760 657 W		70
486	16	110	HRRU	H	RBKU		4	0756	. 643		70
487	16	120	SKPINU	MLNS	IOINTU&3,*&4		7	0760	D 653 770		70
488	16	130		SKP	0	SKIP FOR WRITE	5	0767	U %U0 E		71
489	16	140		BEF	HRRU		5	0772	B 756 K		71
490	16	150		B	IOINTU		4	0777	B 650		71
491	16	160	GENRFU	B	0		4	0781	B 000		71
492	16	170	IOCERU	DCW	@0@		1	0785			71
493	16	180	IOSBRU	DCW	@000@		3	0788			71
494	16	190	HDR1	DA	1X15			0789	0803		71

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
495	16	200			1,3			0791		FIELD	72
496	16	210	HEADID		4,6			0794		FIELD	72
497	16	220	PHASOR		7,9			0797		FIELD	72
498	16	230			10,12			0800		FIELD	72
499	16	240			13,15			0803		FIELD	72
500	16	250		DC	@}@			1 0804			73
501	17	010	DCBLNK	DCW	#1			1 0805			73
502	17	020	ENDD	B	IORWU			4 0806	B 611		73
503	17	030		WTW	2,HDR1			8 0810	L %U2 789 W		73
504	17	040		DCW	*-1			3 0820	819		73
505	17	050		SW	R5			4 0821	, 084		74
506	17	060		B	END02			4 0825	B 569		74
507	17	070	FINSH	H				1 0829	.		74
508	17	080	END	WTM	2			5 0830	U %U2 M		74
509	17	090		RWD	2			5 0835	U %U2 R		74
510	17	100		RWD	1			5 0840	U %U1 R		74
511	17	110		H				1 0845	.		74
512	17	120		LTORG	*				0846		
		349		DCW	@UPDAT@			5 0850		LIT	75
		351			@END @			5 0855		LIT	75
		353			&UPDTL2			3 0858	101	ADCON	75
					@|00@			3 0861		LIT	75
					@012@			3 0864		LIT	75
					@9@			1 0865		LIT	75
					@1@			1 0866		LIT	75
513	17	130		DCW	@}@			1 0867			76

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
514	17	140		JOB	1401 COBOL - SYSTEMS CONTROL PROGRAM						
515	17	150		ORG	335				0335		
516	17	160	PUTA	EQU	3901			3901			
517	17	170	PUTMAX	EQU	3997			3997			
518	17	180	GETA	EQU	3801			3801			
519	17	190	GETMAX	EQU	3897			3897			
520	17	200	GETX	SBR	X1	4		0335	H	089	77
521	17	210		B	Z2	4		0339	B	577	77
522	17	220	IORW	SBR	X1	4		0343	H	089	77
523	17	230		B	Z3	4		0347	B	717	77
524	17	240	SUPER	SBR	X1	4		0351	H	089	77
525	17	250		B	Z4	4		0355	B	959	77
526	18	010	DUMP	B	Z5	4		0359	B	|82	77
527	18	020	PUTX	SBR	X1	4		0363	H	089	78
528	18	030		SBR	PUT2&3, 3&X1	7		0367	H	437 0|3	78
529	18	040		MLC	2&X1, *&4	7		0374	M	0|2 384	78
530	18	050		MLC	*, IOSBR	7		0381	M	387 940	78
531	18	060	PUT7	MLC	IOSBR, PUTA	7		0388	M	940 I01	78
532	18	070	PUTX1	C	IOSBR, VEP	7		0395	C	940 561	78
533	18	080		BE	PUT6	5		0402	B	547 S	79
534	18	090		C	PUT7&6, PUTMX	7		0407	C	394 564	79
535	18	100	PUT1A	BE	WRITE	5		0414	B	438 S	79
536	18	110		SW	PUT7&4	4		0419	,	392	79
537	18	120	PRT	A	THREE, PUT7&6	7		0423	A	558 394	79
538	18	130		CW	PUT7&4	4		0430	)	392	79
539	18	140	PUT2	B	0	4		0434	B	000	79
540	18	150	WRITE	B	IORW	4		0438	B	343	80
541	18	160	PUTXWT	WT	1, PUTA-2	8		0442	M	%U1 H99 W	80
542	18	170		DCW	PUT4	3		0452		893	80
543	18	180	PUT2D	MLC	PUTA1, PUT7&6	7		0453	M	567 394	80
544	18	190	PUTT	ZA	SZRO, PUTMAX	7		0460	?	555 I97	80
545	18	200		NOP		1		0467	N		80
546	18	210	PUT2A	B	PUT2	4		0468	B	434	80
547	18	220	PUT2B	WTM	1	5		0472	U	%U1 M	81
548	18	230	PUT2C	RWD	1	5		0477	U	%U1 R	81
549	18	240		SW	PUT2A	4		0482	,	468	81
550	18	250		MLC	FLIP1, PUTXWT&3	7		0486	M	574 445	81
551	19	010		MLC	FLIP1, PUT2B&3	7		0493	M	574 475	81
552	19	020		MLC	FLIP1, PUT2C&3	7		0500	M	574 480	81
553	19	030		MLC	FLIP2, GETXRD&3	7		0507	M	575 662	82
554	19	040		MLC	FLIP2, GET7&3	7		0514	M	575 701	82
555	19	050		MLC	FLIP2, GET4A&3	7		0521	M	575 692	82
556	19	060		MLC	FLIP2, FLIP3	7		0528	M	575 576	82
557	19	070		MLC	FLIP1	4		0535	M	574	82
558	19	080		MLC	FLIP3	4		0539	M	576	82
559	19	090		B	PUT2	4		0543	B	434	83
560	19	100	PUT6	CW	PUT2A	4		0547	)	468	83
561	19	110		B	WRITE	4		0551	B	438	83
562	19	120	SZRO	DCW	@0@	1		0555			83
563	19	130	THREE	DCW	@003@	3		0558			83

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
564	19	140	VEP	DCW	@.EP@		3	0561			83
565	19	150	PUTMX	DCW	@I97@		3	0564			83
566	19	160	PUTA1	DCW	@I01@		3	0567			84
567	19	170	GETMX	DCW	@H97@		3	0570			84
568	19	180	GETA1	DCW	@H01@		3	0573			84
569	19	190	FLIP1	DCW	@6@		1	0574			84
570	19	200	FLIP2	DCW	@5@		1	0575			84
571	19	210	FLIP3	DCW	@0@		1	0576			84
572	19	220	Z2	SBR	GET2&3,6&X1		7	0577	H 654	0|6	84
573	19	230		MLC	2&X1,GET1A1&6		7	0584	M 0|2	638	85
574	19	240		MLC	5&X1,GET7A&3	LABEL	7	0591	M 0|5	713	85
575	19	250		C	GET1A&3,GETMX		7	0598	C 628	570	85
576	20	010		BE	READ	DOES AREA NEED FILLING	5	0605	B 655	S	85
577	20	020		SW	GET1A&1		4	0610	,	626	85
578	20	030	RTP	A	THREE,GET1A&3		7	0614	A 558	628	85
579	20	040		CW	GET1A&1		4	0621	)	626	86
580	20	050	GET1A	MLC	GETMAX,IOSBR		7	0625	M H97	940	86
581	20	060	GET1A1	MLC	IOSBR,*		7	0632	M 940	638	86
582	20	070	GETX1	C	IOSBR,VEP		7	0639	C 940	561	86
583	20	080		BE	GET7		5	0646	B 698	S	86
584	20	090	GET2	B	0		4	0651	B 000		86
585	20	100	READ	B	IORW		4	0655	B 343		86
586	20	110	GETXRD	RT	1,GETA-2		8	0659	M %U1	G99 R	87
587	20	120		DCW	GET4		3	0669	681		87
588	20	130		MLC	GETA1,GET1A&3		7	0670	M 573	628	87
589	20	140		B	GET1A		4	0677	B 625		87
590	20	150	GET4	MLC	EDMG,303		7	0681	M 952	303	87
591	20	160		W		NO EOP	1	0688	2		87
592	20	170	GET4A	RWU	1		5	0689	U %U1	U	87
593	20	180		H	READ		4	0694	.	655	88
594	20	190	GET7	RWD	1	REWIND TAPE	5	0698	U %U1	R	88
595	20	200		MLC	GETMX,GET1A&3		7	0703	M 570	628	88
596	20	210	GET7A	B	*	BRANCH TO LABEL	4	0710	B 713		88
597	20	220	GET6	DCW	@ @	TEMPORARY BOX	3	0716			88
598	20	230	Z3	MLC	7&X1,IOINST&7		7	0717	M 0|7	767	88
599	20	240		MLC	TWELVE,IOCHNS&6		7	0724	M 943	799	88
600	20	250		SW	IOCHNS&4		4	0731	,	797	89
601	21	010	RTP1	A	6&X1,IOCHNS&6		7	0735	A 0|6	799	89
602	21	020		CW	IOCHNS&4		4	0742	)	797	89
603	21	030		MLC	10&X1,GENREF&3	MOVE IN EOF ADDRESS.	7	0746	M 0/0	936	89
604	21	040	REINIT	MLC	NINE,IOCERR		7	0753	M 944	937	89
605	21	050	IOINST	RT	0,0	SKELETON I/O INSTRUCTION.	8	0760	M %U0	000 R	89
606	21	060		SBR	*&4		4	0768	H 775		90
607	21	070		MLNS	0		4	0772	D 000		90
608	21	080		SAR	IOSBR	GT POSITION OF GM-WM.	4	0776	Q 940		90
609	21	090		BCE	IOWRIT,IOINST&7,W	IF WRITE I/O BRANCH.	8	0780	B 813	767 W	90
610	21	100		BEF	GENREF		5	0788	B 933	K	90
611	21	110	IOCHNS	BCE	IOINST,0,}		8	0793	B 760	000 }	90
612	21	120		BCE			1	0801	B		90
613	21	130		BCE			1	0802	B		91

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
614	21	140		BCE			1	0803	B		91
615	21	150		BCE			1	0804	B		91
616	21	160		BCE			1	0805	B		91
617	21	170		BCE			1	0806	B		91
618	21	180		BCE			1	0807	B		91
619	21	190		BCE			1	0808	B		91
620	21	200		BCE			1	0809	B		92
621	21	210		BCE			1	0810	B		92
622	21	220		BCE			1	0811	B		92
623	21	230		BCE			1	0812	B		92
624	21	240	IOWRIT	BER	IOERR	IF ERROR BARNCH.	5	0813	B 827 L		92
625	21	250		BEF	GENREF	IF EOF BRANCH.	5	0818	B 933 K		92
626	22	010		B	11&X1		4	0823	B 0/1		92
627	22	020	IOERR	MLNS	IOINST&3,*&4	CONDITION BACKSPACE INSTRUCTION.	7	0827	D 763 837		93
628	22	030		BSP	0	BACKSPACE TAPE IF EROR.	5	0834	U %U0 B		93
629	22	040		BM	IO9CHK,IOCERR	IF ERROR 9 TIMES THEN BRANCH.	8	0839	V 858 937 K		93
630	22	050		S	ONE,IOCERR		7	0847	S 945 937		93
631	22	060		B	IOINST	BRANCH TO EXECUTE I/O AGAIN.	4	0854	B 760		93
632	22	070	IO9CHK	BCE	SKPINS,IOINST&7,W	IF WRITE THEN BRANCH.	8	0858	B 901 767 W		93
633	22	080		CS	332	IF REIED READ 9 TIMES AND	4	0866	/ 332		94
634	22	090		CS		ERROR THEN PRINT MESSAGE	1	0870	/		94
635	22	100	MESSGE	MLC	CNTRDM,275	"CANT READ UNIT N" AND	7	0871	M 949 275		94
636	22	110		MLN	IOINST&3,275	PROVIDE LINKAGE BACK TO	7	0878	D 763 275		94
637	22	120	IO9CH1	W		REXECUTE COMMAND.	1	0885	2		94
638	22	130		BIN	IO9CH1, |		5	0886	B 885 |		94
639	22	140		CC	1		2	0891	F 1		94
640	22	150	PUT4	H	REINIT		4	0893	. 753		95
641	22	160		B	REINIT		4	0897	B 753		95
642	22	170	SKPINS	MLNS	IOINST&3,*&4		7	0901	D 763 911		95
643	22	180		SKP	0	SKIP FOR WRITE	5	0908	U %U0 E		95
644	22	190		BEF	IOWREF	IF EOF ON WRITE BRANCH	5	0913	B 922 K		95
645	22	200		B	IOINST		4	0918	B 760		95
646	22	210	IOWREF	MLC	&CNTWT,MESSGE&3		7	0922	M S76 874		95
647	22	220		B	IO9CHK&8		4	0929	B 866		96
648	22	230	GENREF	B	0		4	0933	B 000		96
649	22	240	IOCERR	DCW	@0@		1	0937			96
650	22	250	IOSBR	DCW	@000@		3	0940			96
651	23	010	TWELVE	DCW	@012@		3	0943			96
652	23	020	NINE	DCW	@9@		1	0944			96
653	23	030	ONE	DCW	@1@		1	0945			96
654	23	040	CNTRDM	DCW	@TE 0@		4	0949			97
655	23	050	EDMG	DCW	@EOR@		3	0952			97
656	23	060	CNTWT	DCW	@EOF T0@		6	0958			97
657	23	070	Z4	MLC	2&X1,PHASID		7	0959	M 0 |2 /12		97
658	23	080	CBOL05	MLC	@N@,XYZ		7	0966	M S77 |52		97
659	23	090		B	IORW		4	0973	B 343		97
660	23	100		RTW	1,HEADER	IN	8	0977	L %U1 /35 R		97
661	23	110		DCW	SYSEOF		3	0987	/51		98
662	23	120		SW	HEADER&15		4	0988	, /50		98
663	23	130		B	REAS		4	0992	B S43		98

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
664	23	140		DCW	#3		3	0998			98
665	23	150		DCW	#5		5	1003			98
666	23	160	PHFUND	MLC	HEADER&8,INPHAS&6	CONDITION BUCKETS FOR CLEARING	7	1004	M /43 |66		98
667	23	170		MLC	HEADER&8,X2		7	1011	M /43 094		98
668	23	180	PBB	A	@100@,X2		7	1018	A S80 094		99
669	23	190		MLC	HEADER&14,X1	DELETING GROUP MARK-WORD MARK	7	1025	M /49 089		99
670	23	200	SWINST	SW	0&X2		4	1032	, 0|0		99
671	23	210	SWTCH1	CS	0&X1		4	1036	/ 0|0		99
672	23	220		SBR	X1		4	1040	H 089		99
673	23	230		BW	SWTCH1,0&X2		8	1044	V |36 0|0 1		99
674	23	240	XYZ	B	CBOL05		4	1052	B 966		99
675	23	250		B	IORW	READ PHASE IN	4	1056	B 343		100
676	24	010	INPHAS	RTW	1,*		8	1060	L %U1 |67 R		100
677	24	020		DCW	SYSEOF		3	1070	/51		100
678	24	030		MLC	HEADER&11,*&4		7	1071	M /46 |81		100
679	24	040	UNCONB	B	*		4	1078	B |81		100
680	24	050	Z5	MLC	PHASID,331		7	1082	M /12 331		100
681	24	060		MLC	DUMPID,PHASID		7	1089	M /29 /12		101
682	24	070		MLC	X3,XRGSV		7	1096	M 099 /25		101
683	24	080		MLC			1	1103	M		101
684	24	090		MLC			1	1104	M		101
685	24	100		B	CBOL05		4	1105	B 966		101
686	24	110	GTSTOV	DCW	@0@		1	1109			101
687	24	120	PHASID	DCW	@A01@		3	1112			101
688	24	130		DCW	@00000@		5	1117			102
689	24	140		DCW	@00000@		5	1122			102
690	24	150	XRGSV	DCW	@000@		3	1125			102
691	24	160	SCRBKT	DCW	@2@		1	1126			102
692	24	170	DUMPID	DCW	@DMP@		3	1129			102
693	24	180	PH10SW	DCW	@0@		1	1130			102
694	24	190	TMSW	DCW	@Y@		1	1131			102
695	24	200	SAVE	DCW	@000@		3	1134			103
696	24	210	HEADER	DA	1X15			1135	1149		103
697	24	220			1,3			1137		FIELD	103
698	24	230			4,6			1140		FIELD	103
699	24	240			7,9			1143		FIELD	103
700	24	250			10,12			1146		FIELD	103
701	25	010			13,15			1149		FIELD	103
702	25	020		DC	@}|@		1	1150			104
703	25	030	SYSEOF	RWD	1		5	1151	U %U1 R		104
704	25	040		B	CBOL05		4	1156	B 966		104
705	25	050		DCW	@A@		1	1160			104
706	25	060		DCW	@B@		1	1161			104
707	25	070		DCW	@C@		1	1162			105
708	25	080		DCW	@D@		1	1163			105
709	25	090		DCW	@E@		1	1164			105
710	25	100		DCW	@F@		1	1165			105
711	25	110		DCW	@G@		1	1166			105
712	25	120		DCW	@H@		1	1167			105
713	25	130		DCW	@I@		1	1168			105

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
714	25	140		DCW	@J@		1	1169			106
715	25	150		DCW	@K@		1	1170			106
716	25	160		DCW	@L@		1	1171			106
717	25	170		DCW	@M@		1	1172			106
718	25	180		DCW	@N@		1	1173			106
719	25	190		DCW	@O@		1	1174			106
720	25	200		DCW	@P@		1	1175			106
721	25	210		DCW	@Q@		1	1176			107
722	25	220		DCW	@R@		1	1177			107
723	25	230		DCW	@S@		1	1178			107
724	25	240		DCW	@T@		1	1179			107
725	25	250		DCW	@U@		1	1180			107
726	26	010		DCW	@V@		1	1181			107
727	26	020		DCW	@W@		1	1182			107
728	26	030		DCW	@X@		1	1183			108
729	26	040		DCW	@Y@		1	1184			108
730	26	050	CBLBLK	DCW	@Z@		1	1185			108
731	26	060		DCW	@ @		1	1186			108
732	26	070		DCW	@?@		1	1187			108
733	26	080		DCW	@!@		1	1188			108
734	26	090		DCW	@.@		1	1189			108
735	26	100		DCW	@)@		1	1190			109
736	26	110		DCW	@\$@		1	1191			109
737	26	120		DCW	@*@		1	1192			109
738	26	130		DCW	@-@		1	1193			109
739	26	140		DCW	@/@		1	1194			109
740	26	150		DCW	@,@		1	1195			109
741	26	160		DCW	@%@		1	1196			109
742	26	170		DCW	@#@		1	1197			110
743	26	180		DCW	@@@		1	1198			110
744	26	190		DCW	@&@		1	1199			110
745	26	200		DCW	@0@		1	1200			110
746	26	210		DCW	@1@		1	1201			110
747	26	220		DCW	@2@		1	1202			110
748	26	230		DCW	@3@		1	1203			110
749	26	240		DCW	@4@		1	1204			111
750	26	250		DCW	@5@		1	1205			111
751	27	010		DCW	@6@		1	1206			111
752	27	020		DCW	@7@		1	1207			111
753	27	030		DCW	@8@		1	1208			111
754	27	040	CBLRM	DCW	@9@		1	1209			111
755	27	050		DCW	@|@		1	1210			111
756	27	060		DCW	CBLRM		3	1213	S09		112
757	27	070		DC	#2		2	1215			112
758	27	080		DCW	CBLRM		3	1218	S09		112
759	27	090		DC	#2		2	1220			112
760	27	100	GNPTRS	DCW	CBLRM		3	1223	S09		112
761	27	110		DCW	CBLBLK		3	1226	/85		112
762	27	120		DC	#2		2	1228			112
763	27	130		DCW	CBLBLK		3	1231	/85		112

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
764	27	140		DC	#2		2	1233			112
765	27	150	GNLPTR	DCW	CBLRM		3	1236	S09		112
766	27	160		DCW	@V@		1	1237			112
767	27	170		DCW	@01@		2	1239			113
768	27	180		DCW	@M@		1	1240			113
769	27	190		DCW	@01@		2	1242			113
770	27	200	REAS	C	PHASID,HEADER&5		7	1243	C /12 /40		113
771	27	210		BE	PHFUND		5	1250	B |04 S		113
772	27	220		B	IORW		4	1255	B 343		113
773	27	230		RT	1,HEADER		8	1259	M %U1 /35 R		113
774	27	240		DCW	SYSEOF		3	1269	/51		114
775	27	250		B	CBOL05		4	1270	B 966		114
776	28	010		LTORG	*				1274		
		646		DCW	&CNTWT		3	1276	958	ADCON	114
					@N@		1	1277		LIT	114
					@100@		3	1280		LIT	114
777	28	020		DCW	@}@		1	1281			114
778	28	030		END					/ 000 080		115

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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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1401 COBOL - FIRST PART OF DUMP PAGE 1

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
101	1	010	000	JOB	1401 COBOL - FIRST PART OF DUMP						
102	1	020		CTL	661 11						
103	1	030		ORG	363				0363		
104	1	040	X1	EQU	089			0089			
105	1	050	X2	EQU	094			0094			
106	1	060	X3	EQU	099			0099			
107	1	070	SUPER	EQU	351			0351			
108	1	080	XRGSV	EQU	1125			1125			
109	1	090	DUMP	W	PRINT THE PRINT BUFFER	1		0363	2		4
110	1	100		WM		2		0364	2)		4
111	1	110		CS	332	4		0366	/ 332		4
112	1	120		CS		1		0370	/		4
113	1	130		SW	213	4		0371	, 213		4
114	1	140		MLC	@.@,329	7		0375	M 456 329		4
115	1	150		MLC	329,328	7		0382	M 329 328		4
116	1	160	L1	MLC	ZERO,212	7		0389	M 455 212		5
117	1	170		MLC		1		0396	M		5
118	1	180		SW	L1&4	4		0397	, 393		5
119	1	190		A	@012@,L1&6	7		0401	A 459 395		5
120	1	200		CW	L1&4	4		0408	) 393		5
121	1	210		A	@001@,ZERO-1	7		0412	A 462 454		5
122	1	220		BAV	*&5	5		0419	B 428 Z		5
123	1	230		B	L1	4		0424	B 389		6
124	1	240		W		1		0428	2		6
125	1	250		CS	332	4		0429	/ 332		6
126	2	010		CS		1		0433	/		6
127	2	020		MLCWA	XRGSV,329	7		0434	L /25 329		6
128	2	030		MLCWA		1		0441	L		6
129	2	040		MLCWA		1		0442	L		6
130	2	050		W		1		0443	2		7
131	2	060		WM		2		0444	2)		7
132	2	070		B	SUPER	4		0446	B 351		7
133	2	080		DCW	@DM2@	3		0452			7
134	2	090		DCW	@ @	1		0453			7
135	2	100	ZERO	DCW	@00@	2		0455			7
136	2	110		LTORG					0456		
				DCW	@.@	1		0456		LIT	7
					@012@	3		0459		LIT	8
					@001@	3		0462		LIT	8
137	2	120		DCW	@}@	1		0463			8
138	2	130		END					/ 000 080		9

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

1401 COBOL - SECOND PART OF DUMP

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
101	1	010	000	JOB	1401 COBOL - SECOND PART OF DUMP						
102	1	020		CTL	661 11						
103	1	030		ORG	363				0363		
104	1	040	X1	EQU	89			0089			
105	1	050	X2	EQU	94			0094			
106	1	060	X3	EQU	99			0099			
107	1	070	SUPER	EQU	351			0351			
108	1	080		CS	0	4		0363	/ 000		4
109	1	090		SBR	CONST#3	4		0367	H 641		4
110	1	100		MN	@00@,CONST	7		0371	D 643 641		4
111	1	110		MN		1		0378	D		4
112	1	120		BCE	DDD,CONST,0	8		0379	B 401 641 0		4
113	1	130		MLC	@#@,RZZ	7		0387	M 644 594		4
114	1	140		MLC	@#@,MOD1	7		0394	M 644 493		4
115	1	150	DDD	SBR	X1,213	7		0401	H 089 213		5
116	1	160		MLC	@001@,X2	7		0408	M 647 094		5
117	1	170		B	*&8	4		0415	B 426		5
118	1	180	MOVE1	SBR	X1,212	7		0419	H 089 212		5
119	1	190		CS	332	4		0426	/ 332		5
120	1	200		CS		1		0430	/		5
121	1	210		MLC	ADDRS,205	7		0431	M 633 205		5
122	1	220		MLC	AD1401,209	7		0438	M 636 209		6
123	1	230	MOVE	BW	LOAD,0&X2	8		0445	V 471 0|0 1		6
124	1	240		MLNS	0&X2,0&X1	7		0453	D 0|0 0|0		6
125	1	250		MLZS	0&X2,0&X1	7		0460	Y 0|0 0|0		6
126	2	010		B	*&8	4		0467	B 478		6
127	2	020	LOAD	MLCWA	0&X2,0&X1	7		0471	L 0|0 0|0		7
128	2	030		BCE	L2,0&X2,}	8		0478	B 618 0|0 }		7
129	2	040	L3	A	@001@,TENCNT	7		0486	A 647 637		7
130	2	050	MOD1	A	@001@,X2	7		0493	A 647 094		7
131	2	060	MODIFY	A	@001@,X1	7		0500	A 647 089		7
132	2	070		BAV	LTEN	5		0507	B 516 Z		8
133	2	080		B	MOVE	4		0512	B 445		8
134	2	090	LTEN	A	@001@,HUNCNT	7		0516	A 647 638		8
135	2	100		BAV	LHUN	5		0523	B 539 Z		8
136	2	110		A	@001@,X1	7		0528	A 647 089		8
137	2	120		B	MODIFY	4		0535	B 500		8
138	2	130	LHUN	W		1		0539	2		8
139	2	140		WM		2		0540	2)		9
140	2	150		CS	332	4		0542	/ 332		9
141	2	160		CS		1		0546	/		9
142	2	170		SW	200	4		0547	, 200		9
143	2	180		BCV	OVRFLO	5		0551	B 612 @		9
144	2	190	RTRN	C	AD1401,CONST	7		0556	C 636 641		9
145	2	200		BE	HALT	5		0563	B 605 S		9
146	2	210		A	@100@,ADDRS	7		0568	A 650 633		10
147	2	220		MLC	X2,AD1401	7		0575	M 094 636		10

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	2	230		C	99&X2,299	7		0582	C 0R9 299		10
149	2	240		BU	MOVE1	5		0589	B 419 /		10
150	2	250	RZZ	A	@100@,X2	7		0594	A 650 094		10
151	3	010		B	RTRN	4		0601	B 556		10
152	3	020	HALT	B	SUPER	4		0605	B 351		11
153	3	030		DCW	@T/P@	3		0611			11
154	3	040	OVRFLO	CC	1	2		0612	F 1		11
155	3	050		B	RTRN	4		0614	B 556		11
156	3	060	L2	MLC	@),0&X1	7		0618	M 651 0|0		11
157	3	070		B	L3	4		0625	B 486		11
158	3	080	ADDRS	DCW	@00000@	5		0633			11
159	3	090	AD1401	DCW	@000@	3		0636			12
160	3	100	TENCNT	DCW	@1@	1		0637			12
161	3	110	HUNCNT	DCW	@0@	1		0638			12
162	3	120		LTORG					0639		
		109	CONST	DCW	#03	3		0641		AREA	12
					@00@	2		0643		LIT	12
					@#@	1		0644		LIT	12
					@001@	3		0647		LIT	12
					@100@	3		0650		LIT	13
					@)@	1		0651		LIT	13
163	3	130		ORG					0652		
164	3	140		DCW	@}@	1		0652			13
165	3	150		END					/ 000 080		14

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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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1401 COBOL - TAPE PRINT PAGE 1

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
101	1	010	000	JOB	1401 COBOL - TAPE PRINT						
102	1	020		CTL	661 11						
103	1	030		ORG	1400				1400		
104	1	040	INPUT	EQU	2000			2000			
105	1	050	X1	EQU	089			0089			
106	1	060		RWD	5	5		1400	U %U5	R	4
107	1	070		RWD	6	5		1405	U %U6	R	4
108	1	080		RWD	4	5		1410	U %U4	R	4
109	1	090		CS	332	4		1415	/ 332		4
110	1	100		CS		1		1419	/		4
111	1	110		MLC	@5@, IOUNIT	7		1420	M Y48	X30	4
112	1	120		B	TPRINT	4		1427	B U57		4
113	1	130		MLC	@6@, IOUNIT	7		1431	M Y49	X30	5
114	1	140		B	TPRINT	4		1438	B U57		5
115	1	150		MLC	@4@, IOUNIT	7		1442	M Y50	X30	5
116	1	160		B	TPRINT	4		1449	B U57		5
117	1	170		B	TFINSH	4		1453	B W67		5
118	1	180	TPRINT	SBR	TPRTRN&3	4		1457	H X29		5
119	1	190		CC	1	2		1461	F 1		5
120	1	200		CS	300	4		1463	/ 300		6
121	1	210		MLC	FNSHMS, 275	7		1467	M Y18	275	6
122	1	220		MLC	IOUNIT, 275	7		1474	M X30	275	6
123	1	230		W		1		1481	2		6
124	1	240		CC	J	2		1482	F J		6
125	1	250	REINIT	SBR	X1, 3999	7		1484	H 089	I99	6
126	2	010		MLC	IOUNIT, READ&3	7		1491	M X30	V37	6
127	2	020		MLC	IOUNIT, BACSPC&3	7		1498	M X30	W32	7
128	2	030	NXTRCD	CC	J	2		1505	F J		7
129	2	040		MLC	@9@, ERRCNT	7		1507	M Y51	X31	7
130	2	050		SW	INPUT	4		1514	, !00		7
131	2	060	CLEAR	CS	0&X1	4		1518	/ 0|0		7
132	2	070		SBR	X1	4		1522	H 089		7
133	2	080		BW	CLEAR, INPUT	8		1526	V V18	!00 1	7
134	2	090	READ	RT	0, INPUT	8		1534	M %U0	!00 R	8
135	2	100		SBR	ENDRCD	4		1542	H X34		8
136	2	110		BER	TER	5		1546	B W14	L	8
137	2	120		BEF	TPRTRN	5		1551	B X26	K	8
138	2	130		MLNS	@99@, ENDRCD	7		1556	D Y53	X34	8
139	2	140		MLNS		1		1563	D		8
140	2	150		A	@001@, ENDRCD	7		1564	A Y56	X34	8
141	2	160		MLC	&INPUT, X1	7		1571	M Y59	089	9
142	2	170	PRTNXL	MLC	99&X1, 300	7		1578	M 0Z9	300	9
143	2	180		W		1		1585	2		9
144	2	190		BCV	CC1	5		1586	B Y42	@	9
145	2	200	MODADD	A	@100@, X1	7		1591	A Y62	089	9
146	2	210		C	ENDRCD, X1	7		1598	C X34	089	9
147	2	220		BE	NXTRCD	5		1605	B V05	S	9

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	2	230		B	PRTNXL		4	1610	B V78		10
149	2	240	TER	S	ONE,ERRCNT		7	1614	S X35 X31		10
150	2	250		BM	TENERR,ERRCNT		8	1621	V W38 X31 K		10
151	3	010	BACSPC	BSP	0		5	1629	U %U0 B		10
152	3	020		B	READ		4	1634	B V34		10
153	3	030	TENERR	CS	300		4	1638	/ 300		10
154	3	040		MLC	REDERR,299		7	1642	M X98 299		10
155	3	050		W			1	1649	2		11
156	3	060		CC	1		2	1650	F 1		11
157	3	070		MLC	@9@,ERRCNT		7	1652	M Y51 X31		11
158	3	080		H	BACSPC	IF TRY AGAIN PUSH START ELSE	4	1659	. W29		11
159	3	090		B	REINIT		4	1663	B U84		11
160	3	100	TFINSH	CS	300	IF PRINTED ALL THREE TAPES	4	1667	/ 300		11
161	3	110		MLC	TPRTFS,275	PRINT MESSAGE REWIND 1,2,3	7	1671	M Y41 275		11
162	3	120		W		AND 4 AND HALT	1	1678	2		12
163	3	130		CC	1		2	1679	F 1		12
164	3	140		RWD	4		5	1681	U %U4 R		12
165	3	150		RWD	6		5	1686	U %U6 R		12
166	3	160		RWD	5		5	1691	U %U5 R		12
167	3	170		RWD	1		5	1696	U %U1 R		12
168	3	180		BSS	TFSH1,D		5	1701	B X10 D		12
169	3	190		B	LX1R		4	1706	B X21		13
170	3	200	TFSH1	MLC	153,1112		7	1710	M 153 /12		13
171	3	210		B	966		4	1717	B 966		13
172	3	220	LX1R	H			1	1721	.		13
173	3	230		B	TFSH1		4	1722	B X10		13
174	3	240	TPRTRN	B	*		4	1726	B X29		13
175	3	250	IOUNIT	DCW	@0@		1	1730			13
176	4	010	ERRCNT	DCW	@0@		1	1731			14
177	4	020	ENDRCD	DCW	@000@		3	1734			14
178	4	030	ONE	DCW	@1@		1	1735			14
179	4	040		DCW	@READ ERROR - PRESS START TO REREAD OR RESET START@		49	1784			16
180	4	050	REDERR	DC	@TO SKIP RECORD@		14	1798			16
181	4	060	FNSHMS	DCW	@ T/P FOR TAPE UNIT 0@		20	1818			17
182	4	070	TPRTFS	DCW	@TAPES 5,6 AND 4 PRINTED@		23	1841			18
183	4	080	CC1	CC	1		2	1842	F 1		18
184	4	090		B	MODADD		4	1844	B V91		18
185	4	100		LTORG					1848		
				DCW	@5@		1	1848		LIT	18
					@6@		1	1849		LIT	18
					@4@		1	1850		LIT	18
					@9@		1	1851		LIT	18
					@99@		2	1853		LIT	19
					@001@		3	1856		LIT	19
		141			&INPUT		3	1859	!00	ADCON	19
					@100@		3	1862		LIT	19
186	4	110		DCW	@}@		1	1863			19
187	4	120		END	335				/ 335 080		20

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CLEAR STORAGE 1 ,008015,019026,030,034041,045,053,0570571026 1
CLEAR STORAGE 2 L068112,102106,113/101099/I99,027A070028)027B0010270B0261,001/001113I0 2
BOOTSTRAP ,008015,022029,036040,047054,061068,072/061039 ,0010011040 3

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1401 COBOL - A01 PAGE 1

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
101	1	010	000	JOB	1401 COBOL - A01						
102	1	020		CTL	631 11						
103	1	030		ORG	1300				1300		
104	1	040	SUPER	EQU	351			0351			
105	1	050	IORW	EQU	343			0343			
106	1	060	START	SW	1,73	7		1300	, 001 073		4
107	1	070		SW	GM	4		1307	, Y15		4
108	1	080		CC	J	2		1311	F J		4
109	1	090		CC	1	2		1313	F 1		4
110	1	100		CS	332	4		1315	/ 332		4
111	1	110		CS		1		1319	/		4
112	1	120		MLC	HEADER,262	7		1320	M X82 262		4
113	1	130		C	80,@%)@	7		1327	C 080 Y32		5
114	1	131		BU	L0	5		1334	B T57 /		5
115	1	132		MLC	@B@,L7	7		1339	M Y33 V28		5
116	1	133		MLC	@B@,INIT1A	7		1346	M Y33 X21		5
117	1	134		B	L2	4		1353	B T72		5
118	1	140	L0	WR		1		1357	3		5
119	1	150		SS	1	2		1358	K 1		5
120	1	160		B	CCK1	4		1360	B U43		6
121	1	170	L1	W		1		1364	2		6
122	1	180		MLCWA	GM,3681	7		1365	L Y15 F81		6
123	1	190	L2	B	IORW	4		1372	B 343		6
124	1	200		RT	2,3601	8		1376	M %U2 F01 R		6
125	1	210		DCW	ERROR	3		1386	U03		6
126	1	220		C	3635,35	7		1387	C F35 035		6
127	1	230		BU	L2	5		1394	B T72 /		7
128	1	240		B	CCK1	4		1399	B U43		7
129	1	250	ERROR	NOP	ERR1	4		1403	N U23		7
130	2	010		MLC	@B@,ERROR	7		1407	M Y33 U03		7
131	2	020		RWD	2	5		1414	U %U2 R		7
132	2	030		B	L2	4		1419	B T72		7
133	2	040	ERR1	CS	332	4		1423	/ 332		7
134	2	050		CS		1		1427	/		8
135	2	060		MLC	@PROGRAM NOT ON TAPE 2@,230	7		1428	M Y54 230		8
136	2	070		W		1		1435	2		8
137	2	080		CC	1	2		1436	F 1		8
138	2	090	ERR2	H		1		1438	.		8
139	2	100		B	ERR2	4		1439	B U38		8
140	2	110	CCK1	CC	K	2		1443	F K		8
141	2	120		CS	262	4		1445	/ 262		9
142	2	130		BSS	INIT3,G	5		1449	B W91 G		9
143	2	140		B	NP1	4		1454	B U65		9
144	2	150	NEWPAG	CC	1	2		1458	F 1		9
145	2	160		CS	306	4		1460	/ 306		9
146	2	170		CS		1		1464	/		9
147	2	180	NP1	MLC	IDENT,306	7		1465	M X96 306		9

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	2	190		MLC	CDIMAG,229		7	1472	M Y06 229		10
149	2	200		MLC	SEQ,218		7	1479	M Y14 218		10
150	2	210		W			1	1486	2		10
151	2	220		CC	J		2	1487	F J		10
152	2	230		CS	306		4	1489	/ 306		10
153	2	240		CS			1	1493	/		10
154	2	250	NC1	B	INIT1		4	1494	B X14		10
155	3	010	NEWCRD	BCV	NEWPAG		5	1498	B U58 @		11
156	3	020		MLC	80,300		7	1503	M 080 300		11
157	3	030		MLC	@*@,292		7	1510	M Y55 292		11
158	3	040		MLC	72		4	1517	M 072		11
159	3	050		MCS	INT2,216		7	1521	Z Y21 216		11
160	3	060	L7	NOP	L3		4	1528	N V61		11
161	3	070		BLC	EOJ		5	1532	B X29 A		11
162	3	080		WR			1	1537	3		12
163	3	090		SS	1		2	1538	K 1		12
164	3	100		C	013,@END OF SOURCE@		7	1540	C 013 Y68		12
165	3	101		BU	L5		5	1547	B W05 /		12
166	3	102		CS	306		4	1552	/ 306		12
167	3	103		CS			1	1556	/		12
168	3	104		B	EOJ		4	1557	B X29		12
169	3	110	L3	W			1	1561	2		13
170	3	120	L3A	MLCWA	GM,81		7	1562	L Y15 081		13
171	3	130		B	IORW		4	1569	B 343		13
172	3	140		RT	2,001		8	1573	M %U2 001 R		13
173	3	150		DCW	L4		3	1583	V96		13
174	3	160		C	013,@END OF SOURCE@		7	1584	C 013 Y81		13
175	3	170		BU	L5		5	1591	B W05 /		13
176	3	180	L4	CS	332		4	1596	/ 332		14
177	3	190		CS			1	1600	/		14
178	3	200		B	EOJ		4	1601	B X29		14
179	3	210	L5	A	&1,INT2		7	1605	A Y82 Y21		14
180	3	220	NC2	MLCWA	GM,81		7	1612	L Y15 081		14
181	3	230		B	IORW		4	1619	B 343		14
182	3	240		WT	5,1		8	1623	M %U5 001 W		14
183	3	250		DCW	*&1		3	1633	W34		15
184	4	010	NC3	B	NEWCRD		4	1634	B U98		15
185	4	020	NC4	NOP	NC5		4	1638	N W65		15
186	4	030		C	16,VPROC		7	1642	C 016 Y30		15
187	4	040		BU	NEWCRD		5	1649	B U98 /		15
188	4	050		MLC	@B@,NC4		7	1654	M Y33 W38		15
189	4	060		B	NEWCRD		4	1661	B U98		15
190	4	070	NC5	MLCWA	GM,81		7	1665	L Y15 081		16
191	4	080		B	IORW		4	1672	B 343		16
192	4	090		WT	3,1		8	1676	M %U3 001 W		16
193	4	100		DCW	*&1		3	1686	W87		16
194	4	110		B	NEWCRD		4	1687	B U98		16
195	4	120	INIT3	RWD	3		5	1691	U %U3 R		16
196	4	130		MLC	@N@,NC3		7	1696	M Y83 W34		16
197	4	140		MLC	@N@,EOJ		7	1703	M Y83 X29		17

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
198	4	150		B	NP1		4	1710	B U65		17
199	4	160	INIT1	MLC	@N@,NC1		7	1714	M Y83 U94		17
200	4	170	INIT1A	NOP	L3A		4	1721	N V62		17
201	4	171		B	L5		4	1725	B W05		17
202	4	180	EOJ	B	EOJ1		4	1729	B X43		17
203	4	190		WTM	3		5	1733	U %U3 M		17
204	4	200		RWD	3		5	1738	U %U3 R		18
205	4	210	EOJ1	WTM	5		5	1743	U %U5 M		18
206	4	220		RWD	5		5	1748	U %U5 R		18
207	4	230		W			1	1753	2		18
208	4	240		CW	73		4	1754	) 073		18
209	5	010	L10	CCB	SUPER,1		5	1758	F 351 1		18
210	5	020		DCW	@A02@		3	1765			18
211	5	100	HEADER	DCW	@COBOL COMPILATION@		17	1782			19
212	5	110	IDENT	DCW	@IDENTIFICATION@		14	1796			19
213	5	120	CDIMAG	DCW	@CARD-IMAGE@		10	1806			20
214	5	130	SEQ	DCW	@SEQUENCE@		8	1814			20
215	5	140	GM	DC	@}@		1	1815			20
216	5	150	INT2	DCW	@000000@		6	1821			20
217	5	160	VPROC	DCW	@PROCEDURE@		9	1830			20
218	5	170		LTORG					1831		
				DCW	@%)@		2	1832		LIT	20
					@B@		1	1833		LIT	20
		135			@PROGRAM NOT ON TAPE 2@		21	1854		LIT	21
					@*@		1	1855		LIT	21
		164			@END OF SOURCE@		13	1868		LIT	21
		174			@END OF SOURCE@		13	1881		LIT	22
					&1		1	1882		LIT	22
					@N@		1	1883		LIT	22
219	5	180		ORG	3798				3798		
220	5	190		DCW	@}@		1	3798			23
221	5	200		END	START				/ T00 080		24

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CLEAR STORAGE 1 ,008015,019026,030,034041,045,053,0570571026 1
CLEAR STORAGE 2 L068112,102106,113/101099/I99,027A070028)027B0010270B0261,001/001113I0 2
BOOTSTRAP ,008015,022029,036040,047054,061068,072/061039 ,0010011040 3

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1401 COBOL - A02 PAGE 1

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
101	1	010	000	JOB	1401 COBOL - A02						
102	1	020		CTL	631 11						
103	1	030		ORG	1300				1300		
104	1	040	X2	EQU	94			0094			
105	1	050	X3	EQU	99			0099			
106	1	060	IORW	EQU	343			0343			
107	1	070	SUPER	EQU	351			0351			
108	1	080	PUTX	EQU	363			0363			
109	1	090		DCW	#1	1		1300			4
110	1	100	INT1	DCW	@000@	3		1303			4
111	1	110	INT2	DC	@000@	3		1306			4
112	1	120		C	151,0&X1	7		1307	C 151 0|0		4
113	1	130		BE	959	5		1314	B 959 S		4
114	1	140		MLC	2&X1,153	7		1319	M 0|2 153		4
115	1	150		BCE	959,152,M	8		1326	B 959 152 M		4
116	1	160		BCE	959,151,T	8		1334	B 959 151 T		5
117	1	170		BSS	150,B	5		1342	B 150 B		5
118	1	180		BSS	159,D	5		1347	B 159 D		5
119	1	190		B	959	4		1352	B 959		5
120	1	200		NOP		1		1356	N		5
121	1	210		DC	@A01@	3		1359			5
122	1	220		H		1		1360	.		5
123	1	230		B	141	4		1361	B 141		5
124	1	240		MLC	172,1112	7		1365	M 172 /12		6
125	1	250		B	966	4		1372	B 966		6
126	2	010	PATCH	DCW	@T/P@	3		1378			6
127	2	020	START	MLC	GM,81	7		1379	M L40 081		6
128	2	030		MLC	@101@,358	7		1386	M L11 358		6
129	2	040		MLCWA	PATCH,172	7		1393	L T78 172		6
130	2	050		MLCWA		1		1400	L		6
131	2	060		MLCWA	*****	1		1401	L		7
132	2	070		MLCWA	*****	1		1402	L		7
133	2	080		MLCWA	*****	1		1403	L		7
134	2	090		MLCWA	*****	1		1404	L		7
135	2	100		MLCWA	TEMPORARY PATCH	1		1405	L		7
136	2	110		MLCWA	TEMPORARY PATCH	1		1406	L		7
137	2	120		MLCWA	TEMPORARY PATCH	1		1407	L		7
138	2	130		MLCWA		1		1408	L		8
139	2	140		MLCWA	TEMPORARY PATCH	1		1409	L		8
140	2	150		MLCWA	TEMPORARY PATCH	1		1410	L		8
141	2	160		MLCWA	TEMPORARY PATCH	1		1411	L		8
142	2	170		MLCWA	TEMPORARY PATCH	1		1412	L		8
143	2	180		B	GETCRD	4		1413	B !74		8
144	2	190		C	21,HID	7		1417	C 021 X00		8
145	2	200		BE	STRT1	5		1424	B U40 S		9
146	2	210		B	ERROR	4		1429	B K47		9
147	2	220		DCW	NOID	3		1435	X25		9

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	2	230		B	STRT1A		4	1436	B U44		9
149	2	240	STRT1	B	GETCRD		4	1440	B !74		9
150	2	250	STRT1A	C	17,HPGID		7	1444	C 017 X10		9
151	3	010		BE	STRT2		5	1451	B U67 S		9
152	3	020		B	ERROR		4	1456	B K47		10
153	3	030		DCW	NOPGM		3	1462	X26		10
154	3	040		B	STRT6A		4	1463	B W21		10
155	3	050	STRT2	B	PUTX		4	1467	B 363		10
156	3	060		DCW	VPGM		3	1473	X13		10
157	3	070		MLC	@018@,CRDPTR		7	1474	M L14 099		10
158	3	080		MLC	@000@,WRDPTR		7	1481	M L17 094		10
159	3	090	STRT3	B	GETCH		4	1488	B Z01		11
160	3	100		BCE	STRT3,CH,.		8	1492	B U88 0?0 .		11
161	3	110		BCE	STRT3,CH,		8	1500	B U88 0?0		11
162	3	120		BCE	STRT5A,CH,@		8	1508	B V82 0?0 @		11
163	3	130	STRT3A	C	CH,@A@		7	1516	C 0?0 L18		11
164	3	140		BH	STRT4		5	1523	B V59 U		12
165	3	150	STRT3B	B	PUTCH		4	1528	B Y69		12
166	3	160		A	&1,WRDPTR		7	1532	A L19 094		12
167	3	170		C	WRDPTR,@120@		7	1539	C 094 L22		12
168	3	180		BE	STRT4		5	1546	B V59 S		12
169	3	190		B	GETCH		4	1551	B Z01		12
170	3	200		B	STRT3A		4	1555	B V16		12
171	3	210	STRT4	BCE	STRT3B,CH,-		8	1559	B V28 0?0 -		13
172	3	220		B	PUTX		4	1567	B 363		13
173	3	230		DCW	VPGM		3	1573	X13		13
174	3	240		B	STRT6		4	1574	B W17		13
175	3	250	STRT5	B	PUTCH		4	1578	B Y69		13
176	4	010	STRT5A	B	GETCH		4	1582	B Z01		13
177	4	020		BCE	STRT4,CH,@		8	1586	B V59 0?0 @		13
178	4	030		A	&1,WRDPTR		7	1594	A L19 094		14
179	4	040		C	WRDPTR,@120@		7	1601	C 094 L22		14
180	4	050		BL	STRT4		5	1608	B V59 T		14
181	4	060		B	STRT5		4	1613	B V78		14
182	4	070	STRT6	B	GETCRD		4	1617	B !74		14
183	4	080	STRT6A	C	18,HENV		7	1621	C 018 X24		14
184	4	090		BU	STRT6		5	1628	B W17 /		14
185	4	100		C	SEQ,NINZRO		7	1633	C X33 L05		15
186	4	110		BE	STRT6B		5	1640	B W73 S		15
187	4	120		B	PUTX		4	1645	B 363		15
188	4	130		DCW	&.DG@		3	1651	L25		15
189	4	140		B	PUTX		4	1652	B 363		15
190	4	150		DCW	SY1		3	1658	X27		15
191	4	160		B	PUTX		4	1659	B 363		15
192	4	170		DCW	SY2		3	1665	X30		16
193	4	180		B	PUTX		4	1666	B 363		16
194	4	190		DCW	SEQ		3	1672	X33		16
195	4	200	STRT6B	B	SUPER		4	1673	B 351		16
196	4	210		DCW	@A0B@		3	1679			16
197	4	220	EOJ	B	SUPER		4	1680	B 351		16

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
198	4	230		DCW	@BD6@		3	1686			16
199	4	240	HID	DCW	@IDENTIFICATION@		14	1700			17
200	4	250	HPGID	DCW	@PROGRAM-ID@		10	1710			17
201	5	010	VPGM	DCW	@.JB@		3	1713			17
202	5	020	HENV	DCW	@ENVIRONMENT@		11	1724			17
203	5	030	NOID	DCW	@0@		1	1725			17
204	5	040	NOPGM	DC	@0@		1	1726			18
205	5	050	SY1	DC	@0@		1	1727			18
206	5	060	SY2	DC	@000@		3	1730			18
207	5	070		DC	@0@		1	1731			18
208	5	080	ANERR1	DC	@0@		1	1732			18
209	5	090	SEQ	DC	@0@		1	1733			18
210	5	100	PTNOSW	DCW	@0@		1	1734			18
211	5	110	VAT	DCW	@ @@		3	1737			18
212	5	120	VPRD	DCW	@.PD@		3	1740			18
213	5	130	BLANK6	DCW	#6		6	1746			18
214	5	140	WORDAR	EQU	*			1746			
215	5	150		DCW	#50		50	1796			20
216	5	160		DC	#50		50	1846			22
217	5	170		DC	#22		22	1868			22
218	5	180	WORD	EQU	WORDAR&X2			1746	X		
219	5	190	WRDPTR	EQU	X2			0094			
220	5	200	PUTCH	SBR	PCHEX&3		4	1869	H Y97		22
221	5	210		MLNS	CH, CHX		7	1873	D 0?0 Z00		23
222	5	220		MLZS	CH, CHX		7	1880	Y 0?0 Z00		23
223	5	230		B	PUTX		4	1887	B 363		23
224	5	240		DCW	CHX		3	1893	Z00		23
225	5	250	PCHEX	B	*		4	1894	B Y97		23
226	6	010	CHX	DCW	#3		3	1900			23
227	6	020	GETCH	SBR	GTCHEX&3		4	1901	H Z55		23
228	6	030		C	CRDPTR, CRDMAX		7	1905	C 099 K17		24
229	6	040		BE	GTCH4		5	1912	B Z56 S		24
230	6	050	GTCH2	A	&1, CRDPTR		7	1917	A L19 099		24
231	6	060		C	CRDPTR, CRDMAX		7	1924	C 099 K17		24
232	6	070		BE	GTCH4		5	1931	B Z56 S		24
233	6	080		BCE	GTCHEX, ANMODE, 1		8	1936	B Z52 !73 1		24
234	6	090		BCE	GTCH6, CH,		8	1944	B Z76 0?0		25
235	6	100	GTCHEX	B	*		4	1952	B Z55		25
236	6	110	GTCH4	BCE	GTCH8, ANMODE, 1		8	1956	B !50 !73 1		25
237	6	120	GTCH5	B	GETCRD		4	1964	B !74		25
238	6	130		BCE	GTCH7, CH, -		8	1968	B Z98 0?0 -		25
239	6	140	GTCH6	B	GTNBLK		4	1976	B K24		25
240	6	150		S	&1, CRDPTR		7	1980	S L19 099		26
241	6	160		MLZS	@ @, CRDPTR		7	1987	Y L26 099		26
242	6	170		B	GTCHEX		4	1994	B Z52		26
243	6	180	GTCH7	B	GTNBLK		4	1998	B K24		26
244	6	190		BCE	GTCHEX, ANMODE, 0		8	2002	B Z52 !73 0		26
245	6	200		BCE	GTCH2, CH, @		8	2010	B Z17 0?0 @		26
246	6	210		B	ERROR		4	2018	B K47		27
247	6	220		DCW	ANERR1		3	2024	X32		27

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
248	6	230		B	PUTX		4	2025	B 363		27
249	6	240		DCW	VAT		3	2031	X37		27
250	6	250		B	PUTX		4	2032	B 363		27
251	7	010		DCW	VPRD		3	2038	X40		27
252	7	020		MLC	@0@, ANMODE		7	2039	M L27	!73	27
253	7	030		B	GTCH6		4	2046	B Z76		28
254	7	040	GTCH8	C	CRDPTR, @073@		7	2050	C 099	L30	28
255	7	050		BE	GTCH5		5	2057	B Z64	S	28
256	7	060		MLC	@073@, CRDMAX		7	2062	M L30	K17	28
257	7	070		B	GTCH6		4	2069	B Z52		28
258	7	080	ANMODE	DCW	@0@		1	2073			28
259	7	090	GETCRD	SBR	GTCDEX&3		4	2074	H K14		28
260	7	100	GTCD1	SW	81		4	2078	, 081		29
261	7	110		B	IORW		4	2082	B 343		29
262	7	120		RT	5, COL1		8	2086	M %U5	001 R	29
263	7	130		DCW	EOJ		3	2096	W80		29
264	7	140		C	COL6, LASTNO		7	2097	C 006	K23	29
265	7	150		BL	CARD1		5	2104	B J28	T	29
266	7	160		C	LASTNO, BLANK6		7	2109	C K23	X46	29
267	7	170		BE	CARD1		5	2116	B J28	S	30
268	7	180	CARD2	B	CARD1		4	2121	B J28		30
269	7	190		DCW	SEQ		3	2127	X33		30
270	7	200	CARD1	A	&1, INT2		7	2128	A L19	T06	30
271	7	210		MLC	@B@, PTNOSW		7	2135	M L31	X34	30
272	7	220		MLC	@073@, CRDPTR		7	2142	M L30	099	30
273	7	230		MLC	COL6, LASTNO		7	2149	M 006	K23	31
274	7	240	GTCD2	S	&1, CRDPTR		7	2156	S L19	099	31
275	7	250		MLZS	@ @, CRDPTR		7	2163	Y L26	099	31
276	8	010		C	CRDPTR, @008@		7	2170	C 099	L34	31
277	8	020		BH	GTCD1		5	2177	B !78	U	31
278	8	030		BCE	GTCD2, CH,		8	2182	B J56	0?0	32
279	8	040		A	&1, CRDPTR		7	2190	A L19	099	32
280	8	050		MLC	CRDPTR, CRDMAX		7	2197	M 099	K17	32
281	8	060		MLC	@007@, CRDPTR		7	2204	M L37	099	32
282	8	070	GTCDEX	B	*		4	2211	B K14		32
283	8	080	COL1	EQU	1			0001			
284	8	090	COL6	EQU	6			0006			
285	8	100	CRDMAX	DCW	#3		3	2217			32
286	8	110	CRDPTR	EQU	X3			0099			
287	8	120	CH	EQU	0&X3			0000			
288	8	130	LASTNO	DCW	#6		6	2223			33
289	8	140	GTNBLK	SBR	GTNBEX&3		4	2224	H K46		33
290	8	150	GTNB1	A	&1, CRDPTR		7	2228	A L19	099	33
291	8	160		BCE	GTNB1, CH,		8	2235	B K28	0?0	33
292	8	170	GTNBEX	B	*		4	2243	B K46		33
293	8	180	ERROR	SBR	ERRBKT		4	2247	H L08		33
294	8	190		A	&2, ERBKT		7	2251	A L38	L08	34
295	8	200		MLC	ERRBKT, *&4		7	2258	M L08	K68	34
296	8	210		MLC	*, *&7		7	2265	M K71	K78	34
297	8	220		MLC	@1@, *		7	2272	M L39	K78	34

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
298	8	230		A	&1,ERRBKT	7		2279	A L19 L08		34
299	8	240		MLC	ERRBKT,ERREX&3	7		2286	M L08 K96		35
300	8	250	ERREX	B	*	4		2293	B K96		35
301	9	010	NINZRO	DCW	@0000000000@	9		2305			35
302	9	020	ERRBKT	DCW	#3	3		2308			35
303	9	030		LTORG					2309		
				DCW	@101@	3		2311		LIT	35
					@018@	3		2314		LIT	35
					@000@	3		2317		LIT	35
					@A@	1		2318		LIT	36
					&1	1		2319		LIT	36
					@120@	3		2322		LIT	36
					@.DG@	3		2325		LIT	36
					@ @	1		2326		LIT	36
					@0@	1		2327		LIT	36
					@073@	3		2330		LIT	36
					@B@	1		2331		LIT	37
					@008@	3		2334		LIT	37
					@007@	3		2337		LIT	37
					&2	1		2338		LIT	37
					@1@	1		2339		LIT	37
304	9	040	GM	DCW	@}@	1		2340			37
305	9	050		END	START				/ T79 080		38

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CLEAR STORAGE 1      ,008015,019026,030,034041,045,053,0570571026      1
CLEAR STORAGE 2      L068112,102106,113/101099/I99,027A070028)027B0010270B0261,001/001113I0      2
BOOTSTRAP            ,008015,022029,036040,047054,061068,072/061039      ,0010011040      3

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1401 COBOL - A0B PAGE 1

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
101	1	010	000	JOB	1401 COBOL - A0B						
102	1	020		CTL	631 11						
103	1	030	HEADER	EQU	1135			1135			
104	1	040	IORW	EQU	343			0343			
105	1	050	BGNSUP	EQU	973			0973			
106	1	060	EOSUP	EQU	1300			1300			
107	1	070		ORG	3613				3613		
108	1	080	START	MLC	GM, EOSUP	7	3613		M G95 T00		4
109	1	090		SW	EOSUP	4	3620		, T00		4
110	1	100		CW	HEADER&15	4	3624		) /50		4
111	1	110		B	IORW	4	3628		B 343		4
112	1	120		WTW	4, BGNSUP	8	3632		L %U4 973 W		4
113	1	130		DCW	*&1	3	3642		F43		4
114	1	140		RWD	4	5	3643		U %U4 R		4
115	1	150		CW	EOSUP	4	3648		) T00		5
116	1	160		MLCWA	1306,978	7	3652		L T06 978		5
117	1	170		B	IORW	4	3659		B 343		5
118	1	180		RT	1, BGNSUP&6	8	3663		M %U1 979 R		5
119	1	190		DCW	*&1	3	3673		F74		5
120	1	200		SW	BGNSUP&100	4	3674		, |73		5
121	1	210	L	CS	3459	4	3678		/ D59		5
122	1	220		SBR	L&3	4	3682		H F81		6
123	1	230		BWZ	L, BGNSUP&100,1	8	3686		V F78 |73 1		6
124	1	240		CW	999	4	3694		) 999		6
125	1	250		B	3775	4	3698		B G75		6
126	2	010		LTORG	TEMPORARY PATCH				3702		
127	2	020		ORG	3775				3775		
128	2	030		B	IORW	4	3775		B 343		7
129	2	040		RTW	1, BGNSUP&6	8	3779		L %U1 979 R		7
130	2	050		DCW	*&1	3	3789		G90		7
131	2	060		B	BGNSUP&6	4	3790		B 979		7
132	2	070		DCW	#1	1	3794				7
133	2	080	GM	DCW	@} @	1	3795				7
134	2	090		END	START				/ F13 080		8

CLEAR STORAGE 1 ,008015,019026,030,034041,045,053,0570571026 1
 CLEAR STORAGE 2 L068112,102106,113/101099/I99,027A070028)027B0010270B0261,001/001113I0 2
 BOOTSTRAP ,008015,022029,036040,047054,061068,072/061039 ,0010011040 3

1401 COBOL - A03 PAGE 1

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
101	1	010	000	JOB	1401 COBOL - A03						
102	1	020		CTL	631 11						
103	1	030	BGNSUP	EQU	973			0973			
104	1	040		ORG	979				0979		
105	1	050	X2	EQU	94			0094			
106	1	060	X3	EQU	99			0099			
107	1	070	IORW	EQU	343			0343			
108	1	080	SUPER	EQU	351			0351			
109	1	090	PUTX	EQU	363			0363			
110	1	100	START	MLC	GM,81	7		0979	M E39	081	4
111	1	110		BSP	5	5		0986	U %U5	B	4
112	1	120		S	&1,INT2	7		0991	S F54	978	4
113	1	130		MLZS	@ @,INT2	7		0998	Y F55	978	4
114	1	140		B	GETCRD	4		1005	B ?37		4
115	1	150	ENVD	B	GETWRD	4		1009	B X43		4
116	1	160		C	WRDPTR,@006@	7		1013	C 094	F58	5
117	1	170		BU	ENVD	5		1020	B |09	/	5
118	1	180		C	WORD,HDATA	7		1025	C VP4	X15	5
119	1	190		BU	ENVD	5		1032	B |09	/	5
120	1	200	DATAD	B	GETWRD	4		1037	B X43		5
121	1	210		C	WRDPTR,@009@	7		1041	C 094	F61	5
122	1	220		BU	DATAD	5		1048	B |37	/	6
123	1	230		C	WORD,HPROC	7		1053	C VP4	X09	6
124	1	240		BE	PROCD	5		1060	B /16	S	6
125	1	250		C	WORD,HPICT	7		1065	C VP4	X24	6
126	2	010		BU	DATAD	5		1072	B |37	/	6
127	2	020		MLC	@B@,PICTSW	7		1077	M F62	X78	6
128	2	030	DAT2	B	GETCH	4		1084	B Q45		7
129	2	040		BCE	DAT2,CH,	8		1088	B |84	0?0	7
130	2	050		BCE	DAT2,CH,I	8		1096	B |84	0?0 I	7
131	2	060		BCE	DAT2,CH,S	8		1104	B |84	0?0 S	7
132	2	070		B	DATAD	4		1112	B |37		7
133	2	080	PROCD	MLC	@0@,EOJPDS	7		1116	M F63	E50	7
134	2	090		B	GETWRD	4		1123	B X43		8
135	2	100		C	WRDPTR,@006@	7		1127	C 094	F58	8
136	2	110		BU	PROCD	5		1134	B /16	/	8
137	2	120		C	WORD,HNOTE	7		1139	C VP4	V71	8
138	2	130		BE	NOTE	5		1146	B U42	S	8
139	2	140		C	WORD,HENTER	7		1151	C VP4	X30	8
140	2	150		BU	PROCD	5		1158	B /16	/	9
141	2	160		B	GETWRD	4		1163	B X43		9
142	2	170		C	WORD,HAUTO	7		1167	C VP4	X39	9
143	2	180		BE	AUTO	5		1174	B /86	S	9
144	2	190		B	ERROR	4		1179	B B30		9
145	2	200		DCW	ENTER1	3		1185	E42		9
146	2	210	AUTO	B	PUTX	4		1186	B 363		9
147	2	220		DCW	VAC	3		1192	X42		10

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	2	230		MLC	@1@,ACSW		7	1193	M F64 W97		10
149	2	240		B	AUTO1A		4	1200	B S14		10
150	2	250	MACSP	DCW	@.MC@		3	1206			10
151	3	010	AUTO1	B	PUTX		4	1207	B 363		10
152	3	020		DCW	MACSP		3	1213	S06		10
153	3	030	AUTO1A	B	IORW		4	1214	B 343		10
154	3	040		RT	5,COL1		8	1218	M %U5 001 R		11
155	3	050		DCW	EOJ		3	1228	E51		11
156	3	060		A	&1,INT2		7	1229	A F54 978		11
157	3	070		MLC	@007@,X3		7	1236	M F67 099		11
158	3	080		B	GTNBLK		4	1243	B A87		11
159	3	090		C	4&X3,HENTER-1		7	1247	C 0?4 X29		11
160	3	100		BE	AUTO2		5	1254	B T49 S		12
161	3	110	AUTO3	A	&1,X3		7	1259	A F54 099		12
162	3	120		C	X3,@073@		7	1266	C 099 F70		12
163	3	130		BE	HWTORF		5	1273	B U08 S		12
164	3	140		BCE	AUTO4,0&X3,E		8	1278	B S90 0?0 E		12
165	3	150		B	AUTO3		4	1286	B S59		12
166	3	160	AUTO4	C	4&X3,HENTER-1		7	1290	C 0?4 X29		13
167	3	170		BU	AUTO3		5	1297	B S59 /		13
168	3	180		BCE	*&5,15999&X3,		8	1302	B T14 III		13
169	3	190		B	AUTO3		4	1310	B S59		13
170	3	200		MLNS	0&X3,0&X3		7	1314	D 0?0 0?0		13
171	3	210		SBR	X3		4	1321	H 099		13
172	3	220		C	0&X3,@?@		7	1325	C 0?0 F71		14
173	3	230		BL	AUTO3		5	1332	B S59 T		14
174	3	240		C	6&X3,@?@		7	1337	C 0?6 F71		14
175	3	250		BL	AUTO3		5	1344	B S59 T		14
176	4	010	AUTO2	B	PUTX		4	1349	B 363		14
177	4	020		DCW	VAC		3	1355	X42		14
178	4	030		MLC	@0@,ACSW		7	1356	M F63 W97		14
179	4	040		BSP	5		5	1363	U %U5 B		15
180	4	050		S	&1,INT2		7	1368	S F54 978		15
181	4	060		MLZS	@ @,INT2		7	1375	Y F55 978		15
182	4	070		MLC	CRDMAX,CRDPTR		7	1382	M A80 099		15
183	4	080		MLC	@N@,GTWDSK		7	1389	M F72 X47		15
184	4	090		B	GETWRD		4	1396	B X43		15
185	4	100		B	GETWRD		4	1400	B X43		16
186	4	110		B	PROC		4	1404	B /16		16
187	4	120	HWTORF	MLC	@005@,CRDPTR		7	1408	M F75 099		16
188	4	130	HW1	A	&1,CRDPTR		7	1415	A F54 099		16
189	4	140		C	CRDPTR,@073@		7	1422	C 099 F70		16
190	4	150		BE	AUTO1		5	1429	B S07 S		16
191	4	160		B	PUTCH		4	1434	B Q13		16
192	4	170		B	HW1		4	1438	B U15		17
193	4	180	NOTE	MLC	@1@,EOJPDS		7	1442	M F64 E50		17
194	4	190		BCE	NOTE3,SECT,1		8	1449	B V09 K98 1		17
195	4	200	NOTE1	B	GETCH		4	1457	B Q45		17
196	4	210		BCE	NOTE2,CH,.		8	1461	B U84 0?0 .		17
197	4	220		B	PUTCH		4	1469	B Q13		17

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
198	4	230		B	NOTE1		4	1473	B U57		17
199	4	240	NOTE6	MLC	&EOJ1,NOTE3-1		7	1477	M F78 V08		18
200	4	250	NOTE2	B	PUTX		4	1484	B 363		18
201	5	010		DCW	VNOTE		3	1490	V74		18
202	5	020		MLC	&PUTX,EOJ3&3		7	1491	M F81 E97		18
203	5	030		MLC	@N@,GTWDSK		7	1498	M F72 X47		18
204	5	040		B	PROCD		4	1505	B /16		18
205	5	050	NOTE3	MLC	@0@,SECT		7	1509	M F63 K98		18
206	5	060		MLC	&NOTE6,EOJ3&3		7	1516	M F84 E97		19
207	5	070	NOTE4	B	GETCH		4	1523	B Q45		19
208	5	080		C	CRDPTR,@008@		7	1527	C 099 F87		19
209	5	090		BE	NOTE5		5	1534	B V47 S		19
210	5	100		B	PUTCH		4	1539	B Q13		19
211	5	110		B	NOTE4		4	1543	B V23		19
212	5	120	NOTE5	BCE	NOTE4,CH,		8	1547	B V23 0?0		19
213	5	130		MLC	@007@,CRDPTR		7	1555	M F67 099		20
214	5	140		B	NOTE2		4	1562	B U84		20
215	5	150	HNOTE	DCW	@NOTE @		6	1571			20
216	5	160	VNOTE	DCW	@*24@		3	1574			20
217	5	170	WORDAR	EQU	*			1574			
218	5	180		DCW	#50		50	1624			22
219	5	190		DC	#50		50	1674			24
220	5	200		DC	#22		22	1696			24
221	5	210	WORD	EQU	WORDAR&X2			1574	X		
222	5	220	WRDPTR	EQU	X2			0094			
223	5	230	ACSW	DCW	@0@		1	1697			24
224	5	240	VEOP	DCW	@.EP@		3	1700			24
225	5	250	HPROC	DCW	@PROCEDURE@		9	1709			25
226	6	010	HDATA	DCW	@DATA @		6	1715			25
227	6	020	HPICT	DCW	@PICTURE @		9	1724			25
228	6	030	HENTER	DCW	@ENTER @		6	1730			25
229	6	040	HAUTO	DCW	@AUTOCODER@		9	1739			25
230	6	050	VAC	DCW	@#DC@		3	1742			26
231	6	060	GETWRD	SBR	GTWDEX&3		4	1743	H K56		26
232	6	070	GTWDSK	NOP	GTW1A		4	1747	N K57		26
233	6	080		B	GETCH		4	1751	B Q45		26
234	6	090	GTW1	MLC	@001@,WRDPTR		7	1755	M F90 094		26
235	6	100	PTNOSW	NOP	PTCDNO		4	1762	N P20		26
236	6	110		C	CRDPTR,@008@		7	1766	C 099 F87		26
237	6	120		BE	PTC8		5	1773	B M93 S		27
238	6	130	PICTSW	NOP	PICTUR		4	1778	N N37		27
239	6	140		C	CH,@A@		7	1782	C 0?0 F91		27
240	6	150		BH	GTW2		5	1789	B Y10 U		27
241	6	160		C	CH,@Z@		7	1794	C 0?0 F92		27
242	6	170		BL	POSNUM		5	1801	B K99 T		27
243	6	180		B	WORDR		4	1806	B J35		27
244	6	190	GTW2	BCE	GTWDSK,CH,		8	1810	B X47 0?0		28
245	6	200		BCE	GTWDAN,CH,@		8	1818	B !31 0?0 @		28
246	6	210		BCE	LDPLMN,CH,&		8	1826	B 051 0?0 &		28
247	6	220		BCE	LDPLMN,CH,-		8	1834	B 051 0?0 -		28

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
248	6	230		BCE	OPER,CH,#	8		1842	B !23 0?0 #		29
249	6	240		BCE	PRD,CH,.	8		1850	B Z09 0?0 .		29
250	6	250		BCE	OPER,CH,%	8		1858	B !23 0?0 %		29
251	7	010		BCE	OPER,CH,)	8		1866	B !23 0?0)		29
252	7	020		BCE	OPER,CH,/	8		1874	B !23 0?0 /		30
253	7	030		BCE	ASTSK,CH,*	8		1882	B Z83 0?0 *		30
254	7	040		BCE	GTWDSK,CH,,	8		1890	B X47 0?0 ,		30
255	7	050		B	ERROR	4		1898	B B30		30
256	7	060		DCW	INVLD	3		1904	E43		30
257	7	070		B	GTWDSK	4		1905	B X47		30
258	7	080	PRD	MLC	@1@,PDSW	7		1909	M F64 E49		31
259	7	090		B	GETCH	4		1916	B Q45		31
260	7	100		MLC	@0@,PDSW	7		1920	M F63 E49		31
261	7	110		C	CH,@Z@	7		1927	C 0?0 F92		31
262	7	120		BL	PRD1	5		1934	B Z50 T		31
263	7	130		B	PUTX	4		1939	B 363		31
264	7	140		DCW	VPRD	3		1945	O50		31
265	7	150		B	GTW1	4		1946	B X55		32
266	7	160	PRD1	MLNS	CH,CH	7		1950	D 0?0 0?0		32
267	7	170		SBR	CRDPTR	4		1957	H 099		32
268	7	180		MLC	@. @,WORD	7		1961	M F93 VP4		32
269	7	190		B	PSNM2	4		1968	B M11		32
270	7	200	PRD2	B	PUTX	4		1972	B 363		32
271	7	210		DCW	VPRD	3		1978	O50		32
272	7	220		B	EOJ0	4		1979	B E67		33
273	7	230	ASTSK	B	GETCH	4		1983	B Q45		33
274	7	240		BCE	AST1,CH,*	8		1987	B !06 0?0 *		33
275	7	250		B	PUTX	4		1995	B 363		33
276	8	010		DCW	VASTK	3		2001	!19		33
277	8	020		B	GTW1	4		2002	B X55		33
278	8	030	AST1	B	PUTX	4		2006	B 363		33
279	8	040		DCW	VEXP	3		2012	!22		34
280	8	050		B	GTWDSK	4		2013	B X47		34
281	8	060	VASTK	DCW	@ *@	3		2019			34
282	8	070	VEXP	DCW	@ **@	3		2022			34
283	8	080	OPER	B	PUTCH	4		2023	B Q13		34
284	8	090		B	GTWDSK	4		2027	B X47		34
285	8	100	GTWDAN	MLC	@1@,ANMODE	7		2031	M F64 ?36		34
286	8	110		B	PUTX	4		2038	B 363		35
287	8	120		DCW	VAT	3		2044	J34		35
288	8	130	AN1	B	GETCH	4		2045	B Q45		35
289	8	140		BCE	AN4,CH,@	8		2049	B J21 0?0 @		35
290	8	150		C	WRDPTR,@120@	7		2057	C 094 F96		35
291	8	160		BL	AN2	5		2064	B !84 T		35
292	8	170		B	PUTCH	4		2069	B Q13		35
293	8	180		A	&1,WRDPTR	7		2073	A F54 094		36
294	8	190		B	AN1	4		2080	B !45		36
295	8	200	AN2	B	ERROR	4		2084	B B30		36
296	8	210		DCW	ANSIZE	3		2090	E44		36
297	8	220		B	PUTX	4		2091	B 363		36

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
298	8	230		DCW	VAT		3	2097	J34		36
299	8	240	AN3	B	GETCRD		4	2098	B ?37		36
300	8	250		BCE	AN3,008,		8	2102	B !98 008		37
301	9	010	AN5	MLC	@0@,ANMODE		7	2110	M F63 ?36		37
302	9	020		B	GTWDSK		4	2117	B X47		37
303	9	030	AN4	B	PUTX		4	2121	B 363		37
304	9	040		DCW	VAT		3	2127	J34		37
305	9	050		B	AN5		4	2128	B J10		37
306	9	060	VAT	DCW	@ @@		3	2134			37
307	9	070	WORDR	C	WRDPTR,@120@		7	2135	C 094 F96		38
308	9	080		BL	W2		5	2142	B J88 T		38
309	9	090		MLNS	CH,WORD		7	2147	D 0?0 VP4		38
310	9	100		MLZS	CH,WORD		7	2154	Y 0?0 VP4		38
311	9	110		B	GETCH		4	2161	B Q45		38
312	9	120		C	CH,@A@		7	2165	C 0?0 F91		38
313	9	130		BH	W4		5	2172	B K26 U		39
314	9	140	W1	A	&1,WRDPTR		7	2177	A F54 094		39
315	9	150		B	WORDR		4	2184	B J35		39
316	9	160	W2	B	ERROR		4	2188	B B30		39
317	9	170		DCW	WRD		3	2194	E45		39
318	9	180		MLC	@120@,WRDPTR		7	2195	M F96 094		39
319	9	190	W3	B	GETCH		4	2202	B Q45		39
320	9	200		C	CH,@?@		7	2206	C 0?0 F71		40
321	9	210		BL	W3		5	2213	B K02 T		40
322	9	220		B	PTNAM		4	2218	B C59		40
323	9	230		B	GTW1		4	2222	B X55		40
324	9	240	W4	BCE	W1,CH,-		8	2226	B J77 0?0 -		40
325	9	250		MLC	@B@,GTWDSK		7	2234	M F62 X47		40
326	10	010		B	PTNAM		4	2241	B C59		40
327	10	020	PNTSW1	NOP	NTEST2		4	2245	N K68		41
328	10	030	PSNTSW	NOP	NTEST1		4	2249	N N15		41
329	10	040	GTWDEX	B	*		4	2253	B K56		41
330	10	050	GTW1A	MLC	@N@,GTWDSK		7	2257	M F72 X47		41
331	10	060		B	GTW1		4	2264	B X55		41
332	10	070	NTEST2	MLC	@N@,PNTSW1		7	2268	M F72 K45		41
333	10	080		C	WORD,HNOTE		7	2275	C VP4 V71		41
334	10	090		BU	GTWDEX		5	2282	B K53 /		42
335	10	100		MLC	@1@,SECT		7	2287	M F64 K98		42
336	10	110		B	GTWDEX		4	2294	B K53		42
337	10	120	SECT	DCW	@0@		1	2298			42
338	10	130	POSNUM	C	WRDPTR,@120@		7	2299	C 094 F96		42
339	10	140		BL	PSNM1		5	2306	B L77 T		42
340	10	150		MLNS	CH,WORD		7	2311	D 0?0 VP4		42
341	10	160		MLZS	CH,WORD		7	2318	Y 0?0 VP4		43
342	10	170		B	GETCH		4	2325	B Q45		43
343	10	180		C	CH,@Z@		7	2329	C 0?0 F92		43
344	10	190		BL	PSNM2		5	2336	B M11 T		43
345	10	200		BCE	PSNM3,CH,.		8	2341	B M22 0?0 .		43
346	10	210		BCE	W1,CH,-		8	2349	B J77 0?0 -		43
347	10	220		C	CH,@?@		7	2357	C 0?0 F71		44

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
348	10	230		BL	W1		5	2364	B J77 T		44
349	10	240	PSNM0	B	PTNMLT		4	2369	B B92		44
350	10	250		B	GTW1		4	2373	B X55		44
351	11	010	PSNM1	B	ERROR		4	2377	B B30		44
352	11	020		DCW	NUMSIZ		3	2383	E46		44
353	11	030	PSNM1A	B	GETCH		4	2384	B Q45		44
354	11	040		C	CH,@?@		7	2388	C 0?0 F71		45
355	11	050		BL	PSNM1A		5	2395	B L84 T		45
356	11	060		MLC	@120@,WRDPTR		7	2400	M F96 094		45
357	11	070		B	PSNM0		4	2407	B L69		45
358	11	080	PSNM2	A	&1,WRDPTR		7	2411	A F54 094		45
359	11	090		B	POSNUM		4	2418	B K99		45
360	11	100	PSNM3	MLC	@1@,NLSW		7	2422	M F64 N11		46
361	11	110		B	GETCH		4	2429	B Q45		46
362	11	120		MLC	@0@,NLSW		7	2433	M F63 N11		46
363	11	130		C	CH,@Z@		7	2440	C 0?0 F92		46
364	11	140		BL	PSNM4		5	2447	B M75 T		46
365	11	150	PSNM3A	B	PTNMLT		4	2452	B B92		46
366	11	160		B	PUTX		4	2456	B 363		46
367	11	170		DCW	VPRD		3	2462	O50		47
368	11	180		BCE	EOJ1,NLSW,1		8	2463	B E79 N11 1		47
369	11	190		B	GTW1		4	2471	B X55		47
370	11	200	PSNM4	A	&1,WRDPTR		7	2475	A F54 094		47
371	11	210		MLC	@.@,WORD		7	2482	M F93 VP4		47
372	11	220		B	PSNM2		4	2489	B M11		47
373	11	230	PTC8	B	PUTX		4	2493	B 363		47
374	11	240		DCW	VCOL8		3	2499	N14		48
375	11	250		MLC	@B@,PSNTSW		7	2500	M F62 K49		48
376	12	010		B	PICTSW		4	2507	B X78		48
377	12	020	NLSW	DCW	@0@		1	2511			48
378	12	030	VCOL8	DCW	@.C8@		3	2514			48
379	12	040	NTEST1	SBR	NTEX&3		4	2515	H N36		48
380	12	050		MLC	@N@,PSNTSW		7	2519	M F72 K49		48
381	12	060		MLC	@B@,PNTSW1		7	2526	M F62 K45		49
382	12	070	NTEX	B	*		4	2533	B N36		49
383	12	080	PICTUR	B	PUTX		4	2537	B 363		49
384	12	090		DCW	VPC		3	2543	O47		49
385	12	100	PIC1	BCE	PIC2,CH, .		8	2544	B N72 0?0 .		49
386	12	110		BCE	PIC3,CH,		8	2552	B N98 0?0		49
387	12	120		B	PUTCH		4	2560	B Q13		49
388	12	130		B	GETCH		4	2564	B Q45		50
389	12	140		B	PIC1		4	2568	B N44		50
390	12	150	PIC2	B	GETCH		4	2572	B Q45		50
391	12	160		BCE	PIC6,CH,		8	2576	B O34 0?0		50
392	12	170		B	PUTX		4	2584	B 363		50
393	12	180		DCW	VDEC		3	2590	N97		50
394	12	190		B	PIC1		4	2591	B N44		50
395	12	200	VDEC	DCW	@ .@		3	2597			51
396	12	210	PIC3	B	PUTX		4	2598	B 363		51
397	12	220		DCW	VPC		3	2604	O47		51

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
398	12	230	PIC4	B	PIC5		4	2605	B 023		51
399	12	240		B	PUTX		4	2609	B 363		51
400	12	250		DCW	VPRD		3	2615	O50		51
401	13	010		MLC	@B@, PIC4		7	2616	M F62	O05	51
402	13	020	PIC5	MLC	@N@, PICTSW		7	2623	M F72	X78	52
403	13	030		B	GTW1		4	2630	B X55		52
404	13	040	PIC6	MLC	@N@, PIC4		7	2634	M F72	O05	52
405	13	050		B	PIC3		4	2641	B N98		52
406	13	060	VPC	DCW	@.PC@		3	2647			52
407	13	070	VPRD	DCW	@.PD@		3	2650			52
408	13	080	LDPLMN	MLC	CH, SIGN		7	2651	M 0?0	P19	52
409	13	090		B	GETCH		4	2658	B Q45		53
410	13	100		BCE	LDP01, CH,		8	2662	B 090	0?0	53
411	13	110		C	CH, @Z@		7	2670	C 0?0	F92	53
412	13	120		BL	POSNUM		5	2677	B K99	T	53
413	13	130		BCE	POSNUM, CH, .		8	2682	B K99	0?0	53
414	13	140	LDP01	MLNS	CH, CH		7	2690	D 0?0	0?0	53
415	13	150		SBR	CRDPTR		4	2697	H 099		54
416	13	160		MLC	SIGN, CH		7	2701	M P19	0?0	54
417	13	170		MLC	@ @, SIGN		7	2708	M F55	P19	54
418	13	180		B	OPER		4	2715	B !23		54
419	13	190	SIGN	DCW	#1		1	2719			54
420	13	200	PTCDNO	SBR	PTCDEX&3		4	2720	H Q06		54
421	13	210		C	SEQ, NINZRO		7	2724	C E48	B88	54
422	13	220		BE	PTCN1		5	2731	B P75	S	55
423	13	230		B	PUTX		4	2736	B 363		55
424	13	240		DCW	VDG		3	2742	Q09		55
425	13	250		B	PUTX		4	2743	B 363		55
426	14	010		DCW	ENTER1		3	2749	E42		55
427	14	020		B	PUTX		4	2750	B 363		55
428	14	030		DCW	WRD		3	2756	E45		55
429	14	040		B	PUTX		4	2757	B 363		56
430	14	050		DCW	SEQ		3	2763	E48		56
431	14	060		S	SEQ		4	2764	S E48		56
432	14	070		MLZS	@ @, SEQ		7	2768	Y F55	E48	56
433	14	080	PTCN1	B	PUTX		4	2775	B 363		56
434	14	090		DCW	VCD		3	2781	Q12		56
435	14	100		B	PUTX		4	2782	B 363		56
436	14	110		DCW	INT1		3	2788	975		57
437	14	120		B	PUTX		4	2789	B 363		57
438	14	130		DCW	INT2		3	2795	978		57
439	14	140		MLC	@N@, PTNOSW		7	2796	M F72	X62	57
440	14	150	PTCDEX	B	*		4	2803	B Q06		57
441	14	160	VDG	DCW	@.DG@		3	2809			57
442	14	170	VCD	DCW	@.CD@		3	2812			57
443	14	180	PUTCH	SBR	PCHEx&3		4	2813	H Q41		58
444	14	190		MLNS	CH, CHX		7	2817	D 0?0	Q44	58
445	14	200		MLZS	CH, CHX		7	2824	Y 0?0	Q44	58
446	14	210		B	PUTX		4	2831	B 363		58
447	14	220		DCW	CHX		3	2837	Q44		58

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
448	14	230	PCHEX	B	*		4	2838	B Q41		58
449	14	240	CHX	DCW	#3		3	2844			58
450	14	250	GETCH	SBR	GTCHEX&3		4	2845	H Q99		59
451	15	010		C	CRDPTR,CRDMAX		7	2849	C 099 A80		59
452	15	020		BE	GTCH4		5	2856	B R00 S		59
453	15	030	GTCH2	A	&1,CRDPTR		7	2861	A F54 099		59
454	15	040		C	CRDPTR,CRDMAX		7	2868	C 099 A80		59
455	15	050		BE	GTCH4		5	2875	B R00 S		59
456	15	060		BCE	GTCHEX,ANMODE,1		8	2880	B Q96 ?36 1		60
457	15	070		BCE	GTCH6,CH,		8	2888	B R20 0?0		60
458	15	080	GTCHEX	B	*		4	2896	B Q99		60
459	15	090	GTCH4	BCE	GTCH8,ANMODE,1		8	2900	B ?13 ?36 1		60
460	15	100	GTCH5	B	GETCRD		4	2908	B ?37		60
461	15	110		BCE	GTCH7,CH,-		8	2912	B R42 0?0 -		61
462	15	120	GTCH6	B	GTNBLK		4	2920	B A87		61
463	15	130		S	&1,CRDPTR		7	2924	S F54 099		61
464	15	140		MLZS	@ @,CRDPTR		7	2931	Y F55 099		61
465	15	150		B	GTCHEX		4	2938	B Q96		61
466	15	160	GTCH7	B	GTNBLK		4	2942	B A87		61
467	15	170		C	CRDPTR,@008@		7	2946	C 099 F87		62
468	15	180		BU	GTCH9		5	2953	B R65 /		62
469	15	190		MLZS	&1,SEQ		7	2958	Y F54 E48		62
470	15	200	GTCH9	BCE	GTCHEX,ANMODE,0		8	2965	B Q96 ?36 0		62
471	15	210		BCE	GTCH2,CH,@		8	2973	B Q61 0?0 @		62
472	15	220		B	ERROR		4	2981	B B30		62
473	15	230		DCW	ANERR1		3	2987	E47		63
474	15	240		B	PUTX		4	2988	B 363		63
475	15	250		DCW	VAT		3	2994	J34		63
476	16	010		B	PUTX		4	2995	B 363		63
477	16	020		DCW	VPRD		3	3001	O50		63
478	16	030		MLC	@0@,ANMODE		7	3002	M F63 ?36		63
479	16	040		B	GTCH6		4	3009	B R20		63
480	16	050	GTCH8	C	CRDPTR,@073@		7	3013	C 099 F70		64
481	16	060		BE	GTCH5		5	3020	B R08 S		64
482	16	070		MLC	@073@,CRDMAX		7	3025	M F70 A80		64
483	16	080		B	GTCHEX		4	3032	B Q96		64
484	16	090	ANMODE	DCW	@0@		1	3036			64
485	16	100	GETCRD	SBR	GTCDEX&3		4	3037	H A77		64
486	16	110	GTCD1	SW	81		4	3041	, 081		64
487	16	120		B	IORW		4	3045	B 343		65
488	16	130		RT	5,COL1		8	3049	M %U5 001 R		65
489	16	140		DCW	EOJ		3	3059	E51		65
490	16	150		C	COL6, LASTNO		7	3060	C 006 A86		65
491	16	160		BL	CARD1		5	3067	B ?91 T		65
492	16	170		C	LASTNO,BLANK6		7	3072	C A86 E38		65
493	16	180		BE	CARD1		5	3079	B ?91 S		65
494	16	190	CARD2	B	ERROR		4	3084	B B30		66
495	16	200		DCW	SEQ		3	3090	E48		66
496	16	210	CARD1	A	&1,INT2		7	3091	A F54 978		66
497	16	220		MLC	@B@,PTNOSW		7	3098	M F62 X62		66

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
498	16	230		MLC	@073@,CRDPTR		7	3105	M F70 099		66
499	16	240		MLC	COL6, LASTNO		7	3112	M 006 A86		66
500	16	250	GTCD2	S	&1,CRDPTR		7	3119	S F54 099		67
501	17	010		MLZS	@ @,CRDPTR		7	3126	Y F55 099		67
502	17	020		C	CRDPTR,@008@		7	3133	C 099 F87		67
503	17	030		BH	GTCD1		5	3140	B ?41 U		67
504	17	040		BCE	GTCD2,CH,		8	3145	B A19 0?0		67
505	17	050		A	&1,CRDPTR		7	3153	A F54 099		68
506	17	060		MLC	CRDPTR,CRDMAX		7	3160	M 099 A80		68
507	17	070		MLC	@007@,CRDPTR		7	3167	M F67 099		68
508	17	080	GTCDEX	B	*		4	3174	B A77		68
509	17	090	INT1	EQU	975			0975			
510	17	100	INT2	EQU	978			0978			
511	17	110	COL1	EQU	1			0001			
512	17	120	COL6	EQU	6			0006			
513	17	130	CRDMAX	DCW	#3		3	3180			68
514	17	140	CRDPTR	EQU	X3			0099			
515	17	150	CH	EQU	0&X3			0000			
516	17	160	LASTNO	DCW	#6		6	3186			68
517	17	170	GTNBLK	SBR	GTNBEX&3		4	3187	H B29		68
518	17	180	GTNB1	A	&1,CRDPTR		7	3191	A F54 099		69
519	17	190		BCE	GTNB2,ACSW,0		8	3198	B B18 W97 0		69
520	17	200		C	CRDPTR,@073@		7	3206	C 099 F70		69
521	17	210		BE	HWTORF		5	3213	B U08 S		69
522	17	220	GTNB2	BCE	GTNB1,CH,		8	3218	B A91 0?0		69
523	17	230	GTNBEX	B	*		4	3226	B B29		69
524	17	240	ERROR	SBR	ERRBKT		4	3230	H B91		70
525	17	250		A	&2,ERRBKT		7	3234	A F97 B91		70
526	18	010		MLC	ERRBKT,*&4		7	3241	M B91 B51		70
527	18	020		MLC	*,*&7		7	3248	M B54 B61		70
528	18	030		MLC	@1@,*		7	3255	M F64 B61		70
529	18	040		A	&1,ERRBKT		7	3262	A F54 B91		70
530	18	050		MLC	ERRBKT,ERREX&3		7	3269	M B91 B79		71
531	18	060	ERREX	B	*		4	3276	B B79		71
532	18	070	NINZRO	DCW	@000000000@		9	3288			71
533	18	080	ERRBKT	DCW	#3		3	3291			71
534	18	090	PTNMLT	SBR	PTNLEX&3		4	3292	H C58		71
535	18	100		B	PUTX		4	3296	B 363		71
536	18	110		DCW	VNL		3	3302	C87		71
537	18	120		BCE	PTNM01,SIGN,		8	3303	B C32 P19		72
538	18	130		MLC	SIGN,CHX		7	3311	M P19 Q44		72
539	18	140		B	PUTX		4	3318	B 363		72
540	18	150		DCW	CHX		3	3324	Q44		72
541	18	160		MLC	@ @,SIGN		7	3325	M F55 P19		72
542	18	170	PTNM01	B	PURGE		4	3332	B C91		72
543	18	180		B	PUTX		4	3336	B 363		72
544	18	190		DCW	VNL		3	3342	C87		73
545	18	200		BCE	PTNLEX,PSNTSW,N		8	3343	B C55 K49 N		73
546	18	210		B	NTEST1		4	3351	B N15		73
547	18	220	PTNLEX	B	*		4	3355	B C58		73

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
548	18	230	PTNAM	SBR	PTNMEX&3		4	3359	H C84		73
549	18	240		B	PUTX		4	3363	B 363		73
550	18	250		DCW	VNM		3	3369	C90		73
551	19	010		B	PURGE		4	3370	B C91		74
552	19	020		B	PUTX		4	3374	B 363		74
553	19	030		DCW	VNM		3	3380	C90		74
554	19	040	PTNMEX	B	*		4	3381	B C84		74
555	19	050	VNL	DCW	@.NL@		3	3387			74
556	19	060	VNM	DCW	@.NM@		3	3390			74
557	19	070	PURGE	SBR	PRGEX&3		4	3391	H D50		74
558	19	080		MLC	WRDPTR, PRGSAV		7	3395	M 094 E26		75
559	19	090		MLC	@003@, WRDPTR		7	3402	M G00 094		75
560	19	100	PRG1	C	WRDPTR, PRGSAV		7	3409	C 094 E26		75
561	19	110		BL	PRG3		5	3416	B D51 T		75
562	19	120	PRG2	MLC	WORD, PRGSX		7	3421	M VP4 E29		75
563	19	130		B	PUTX		4	3428	B 363		75
564	19	140		DCW	PRGSX		3	3434	E29		76
565	19	150		C	WRDPTR, PRGSAV		7	3435	C 094 E26		76
566	19	160		BU	PRG6		5	3442	B E13 /		76
567	19	170	PRGEX	B	*		4	3447	B D50		76
568	19	180	PRG3	MLC	WRDPTR, PRGMAX		7	3451	M 094 E32		76
569	19	190		MLC	PRGSAV, WRDPTR		7	3458	M E26 094		76
570	19	200	PRG4	A	&1, WRDPTR		7	3465	A F54 094		77
571	19	210		C	WRDPTR, PRGMAX		7	3472	C 094 E32		77
572	19	220		BL	PRG5		5	3479	B D95 T		77
573	19	230		MLC	@ @, WORD		7	3484	M F55 VP4		77
574	19	240		B	PRG4		4	3491	B D65		77
575	19	250	PRG5	MLC	PRGMAX, WRDPTR		7	3495	M E32 094		77
576	20	010		MLC	PRGMAX, PRGSAV		7	3502	M E32 E26		78
577	20	020		B	PRG2		4	3509	B D21		78
578	20	030	PRG6	A	&3, WRDPTR		7	3513	A G01 094		78
579	20	040		B	PRG1		4	3520	B D09		78
580	20	050	PRGSAV	DCW	#3		3	3526			78
581	20	060	PRGSX	DCW	#3		3	3529			78
582	20	070	PRGMAX	DCW	#3		3	3532			78
583	20	080	BLANK6	DCW	#6		6	3538			79
584	20	090	GM	DC	@}@		1	3539			79
585	20	100	NOID	DCW	@0@		1	3540			79
586	20	110	NOPGM	DC	@0@		1	3541			79
587	20	120	ENTER1	DC	@0@		1	3542			79
588	20	130	INVLD	DC	@0@		1	3543			79
589	20	140	ANSIZE	DC	@0@		1	3544			79
590	20	150	WRD	DC	@0@		1	3545			79
591	20	160	NUMSIZ	DC	@0@		1	3546			79
592	20	170	ANERR1	DC	@0@		1	3547			79
593	20	180	SEQ	DC	@0@		1	3548			79
594	20	190	PDSW	DCW	@0@		1	3549			79
595	20	200	EOJPDS	DCW	@0@		1	3550			79
596	20	210	EOJ	BCE	PSNM3A, NLSW, 1		8	3551	B M52 N11 1		79
597	20	220		BCE	PRD2, PDSW, 1		8	3559	B Z72 E49 1		79

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
598	20	230	EOJ0	C	SEQ,NINZRO		7	3567	C E48 B88		80
599	20	240		BU	EOJ2		5	3574	B F43 /		80
600	20	250	EOJ1	BCE	EOJ3,EOJPDS,0		8	3579	B E94 E50 0		80
601	21	010		B	PUTX		4	3587	B 363		80
602	21	020		DCW	VPRD		3	3593	O50		80
603	21	030	EOJ3	B	PUTX		4	3594	B 363		80
604	21	040		DCW	VEOP		3	3600	X00		80
605	21	050		RWD	5		5	3601	U %U5 R		81
606	21	060		B	IORW		4	3606	B 343		81
607	21	070		RTW	4,BGNSUP		8	3610	L %U4 973 R		81
608	21	080		DCW	*&1		3	3620	F21		81
609	21	090		RWD	4		5	3621	U %U4 R		81
610	21	100		WTM	4		5	3626	U %U4 M		81
611	21	110		BSP	4		5	3631	U %U4 B		81
612	21	120		B	SUPER		4	3636	B 351		82
613	21	130		DCW	@A04@		3	3642			82
614	21	140	EOJ2	MLC	&EOJ1,PTCN1&3		7	3643	M G04 P78		82
615	21	150		B	PTCDNO		4	3650	B P20		82
616	21	160		LTORG					3654		
				DCW	&1		1	3654		LIT	82
					@ @		1	3655		LIT	82
					@006@		3	3658		LIT	82
					@009@		3	3661		LIT	83
					@B@		1	3662		LIT	83
					@0@		1	3663		LIT	83
					@1@		1	3664		LIT	83
					@007@		3	3667		LIT	83
					@073@		3	3670		LIT	83
					@?@		1	3671		LIT	83
					@N@		1	3672		LIT	84
					@005@		3	3675		LIT	84
	199				&EOJ1		3	3678	E79	ADCON	84
	202				&PUTX		3	3681	363	ADCON	84
	206				&NOTE6		3	3684	U77	ADCON	84
					@008@		3	3687		LIT	84
					@001@		3	3690		LIT	84
					@A@		1	3691		LIT	85
					@Z@		1	3692		LIT	85
					@.@		1	3693		LIT	85
					@120@		3	3696		LIT	85
					&2		1	3697		LIT	85
					@003@		3	3700		LIT	85
					&3		1	3701		LIT	85
	614				&EOJ1		3	3704	E79	ADCON	86
617	21	170		DCW	@}@		1	3705			86
618	21	180		END	START				/ 979 080		87

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CLEAR STORAGE 1      ,008015,019026,030,034041,045,053,0570571026      1
CLEAR STORAGE 2      L068112,102106,113/101099/I99,027A070028)027B0010270B0261,001/001113I0      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	010	000	JOB	1401 COBOL - A04						
102	1	020		CTL	631 11						
103	1	030		ORG	1300				1300		
104	1	040	SUPER	EQU	351			0351			
105	1	050	GETX	EQU	335			0335			
106	1	060	IORW	EQU	343			0343			
107	1	070	PUTX	EQU	363			0363			
108	1	080	X2	EQU	94			0094			
109	1	090	X3	EQU	99			0099			
110	1	100	TBLAR	EQU	2800			2800			
111	1	110	SMLTBL	EQU	2802			2802			
112	1	120	START	B	STRT1	4		1300	B T42		4
113	1	130	GTTBL	SBR	GTTBEX&3	4		1304	H T41		4
114	1	140		B	IORW	4		1308	B 343		4
115	1	150		RT	1, TBLAR	8		1312	M %U1 Q00 R		4
116	1	160		DCW	*&1	3		1322	T23		4
117	1	170		B	IORW	4		1323	B 343		4
118	1	180		RTW	1, TBLAR	8		1327	L %U1 Q00 R		4
119	1	190		DCW	*&1	3		1337	T38		5
120	1	200	GTTBEX	B	*	4		1338	B T41		5
121	1	210	STRT1	MLCWA	@0@, 190	7		1342	L P71 190		5
122	1	220		B	GTTBL	4		1349	B T04		5
123	1	230	L1	B	GETX	4		1353	B 335		5
124	1	240		DCW	SX	3		1359	Z51		5
125	1	250		DCW	EOJ	3		1362	Z19		5
126	2	010	L2	C	SX, VNM	7		1363	C Z51 Z54		6
127	2	020		BE	NAMER	5		1370	B X19 S		6
128	2	030		C	SX, VNL	7		1375	C Z51 Z57		6
129	2	040		BE	LIT	5		1382	B W13 S		6
130	2	050		C	SX, @. PC@	7		1387	C Z51 P74		6
131	2	060		BE	LIT	5		1394	B W13 S		6
132	2	061		BCE	LIT, SX, @	8		1399	B W13 Z51 @		7
133	2	070		C	SX, VCD	7		1407	C Z51 Z63		7
134	2	080		BE	CARDNO	5		1414	B V05 S		7
135	2	090		C	SX, VDG	7		1419	C Z51 Z66		7
136	2	100		BE	DIAGN	5		1426	B U61 S		7
137	2	110		B	PUTX	4		1431	B 363		7
138	2	120		DCW	SX	3		1437	Z51		7
139	2	130		C	SX, @#DC@	7		1438	C Z51 P77		8
140	2	140		BU	L1	5		1445	B T53 /		8
141	2	150		MLC	@1@, ACSW	7		1450	M P78 Z48		8
142	2	160		B	L1	4		1457	B T53		8
143	2	170	DIAGN	B	GETX	4		1461	B 335		8
144	2	180		DCW	ENTER1	3		1467	K60		8
145	2	190		DCW	EOJ	3		1470	Z19		8
146	2	200		B	GETX	4		1471	B 335		9
147	2	210		DCW	WRD	3		1477	K63		9

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	2	220		DCW	EOJ		3	1480	Z19		9
149	2	230		B	GETX		4	1481	B 335		9
150	2	240		DCW	SEQ		3	1487	K66		9
151	2	250		DCW	EOJ		3	1490	Z19		9
152	3	010		B	ANALYZ		4	1491	B Z85		9
153	3	020		B	GETX		4	1495	B 335		10
154	3	030		DCW	SX		3	1501	Z51		10
155	3	040		DCW	EOJ		3	1504	Z19		10
156	3	050	CARDNO	B	PUTX		4	1505	B 363		10
157	3	060		DCW	SX		3	1511	Z51		10
158	3	070		B	GETX		4	1512	B 335		10
159	3	080		DCW	INT1		3	1518	W04		10
160	3	090		DCW	EOJ		3	1521	Z19		11
161	3	100		B	GETX		4	1522	B 335		11
162	3	110		DCW	INT2		3	1528	W07		11
163	3	120		DCW	EOJ		3	1531	Z19		11
164	3	130		B	PUTX		4	1532	B 363		11
165	3	140		DCW	INT1		3	1538	W04		11
166	3	150		B	PUTX		4	1539	B 363		11
167	3	160		DCW	INT2		3	1545	W07		12
168	3	170		B	GETX		4	1546	B 335		12
169	3	180		DCW	SX		3	1552	Z51		12
170	3	190		DCW	EOJ		3	1555	Z19		12
171	3	200		C	SX,VC8		7	1556	C Z51 W10		12
172	3	210		BU	CDN2		5	1563	B V91 /		12
173	3	220		BCE	CDN1 ,DIV,P		8	1568	B V80 W11 P		12
174	3	230		B	L1		4	1576	B T53		13
175	3	240	CDN1	MLC	@1@,C8SW		7	1580	M P78 W12		13
176	3	250		B	L1		4	1587	B T53		13
177	4	010	CDN2	MLC	@0@,C8SW		7	1591	M P71 W12		13
178	4	020		B	L2		4	1598	B T63		13
179	4	030	INT1	DCW	#3		3	1604			13
180	4	040	INT2	DCW	#3		3	1607			13
181	4	050	VC8	DCW	@.C8@		3	1610			14
182	4	060	DIV	DCW	@E@		1	1611			14
183	4	070	C8SW	DCW	@0@		1	1612			14
184	4	080	LIT	BCE	LIT5,C8SW,1		8	1613	B X05 W12 1		14
185	4	090		B	PUTX		4	1621	B 363		14
186	4	100		DCW	SX		3	1627	Z51		14
187	4	110	LIT1	MLC	SX,CTL		7	1628	M Z51 Z69		14
188	4	120	LIT2	B	GETX		4	1635	B 335		15
189	4	130		DCW	SX		3	1641	Z51		15
190	4	140		DCW	EOJ		3	1644	Z19		15
191	4	150		C	SX,CTL		7	1645	C Z51 Z69		15
192	4	160		BE	LIT3		5	1652	B W68 S		15
193	4	170		B	PUTX		4	1657	B 363		15
194	4	180		DCW	SX		3	1663	Z51		15
195	4	190		B	LIT2		4	1664	B W35		16
196	4	200	LIT3	BCE	LIT4,C8SW,0		8	1668	B W94 W12 0		16
197	4	210		MLC	@0@,C8SW		7	1676	M P71 W12		16

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
198	4	220		B	PUTX		4	1683	B 363		16
199	4	230		DCW	VLB		3	1689	X18		16
200	4	240		B	L1		4	1690	B T53		16
201	4	250	LIT4	B	PUTX		4	1694	B 363		16
202	5	010		DCW	CTL		3	1700	Z69		17
203	5	020		B	L1		4	1701	B T53		17
204	5	030	LIT5	B	PUTX		4	1705	B 363		17
205	5	040		DCW	VLB		3	1711	X18		17
206	5	050		B	LIT1		4	1712	B W28		17
207	5	060	VLB	DCW	@.LB@		3	1718			17
208	5	070	NAMER	B	GETNAM		4	1719	B K98		17
209	5	080		BCE	PROCD, DIV, P		8	1723	B Y13 W11 P		18
210	5	090		BCE	DATAD, DIV, D		8	1731	B X78 W11 D		18
211	5	100		C	NAME, @DATA@		7	1739	C LH5 P82		18
212	5	110		BU	PROCD		5	1746	B Y13 /		18
213	5	120		C	X3, @004@		7	1751	C 099 P85		18
214	5	130		BU	PROCD		5	1758	B Y13 /		19
215	5	140		MLC	@D@, DIV		7	1763	M P86 W11		19
216	5	150		B	GTTBL		4	1770	B T04		19
217	5	160		B	PROCD		4	1774	B Y13		19
218	5	170	DATAD	C	NAME, HPROC		7	1778	C LH5 Z78		19
219	5	180		BU	PROCD		5	1785	B Y13 /		19
220	5	190		C	X3, @009@		7	1790	C 099 P89		19
221	5	200		BU	PROCD		5	1797	B Y13 /		20
222	5	210		MLC	@P@, DIV		7	1802	M P90 W11		20
223	5	220		B	GTTBL		4	1809	B T04		20
224	5	230	PROC2	B	LOOKUP		4	1813	B O39		20
225	5	240	PROC1	C	ANS, VNF		7	1817	C P70 Z81		20
226	5	250		BE	NOTFND		5	1824	B Z11 S		20
227	6	010		BCE	PROC3, C8SW, 0		8	1829	B Y88 W12 0		21
228	6	020		MLC	@0@, C8SW		7	1837	M P71 W12		21
229	6	030		C	ANS, @000@		7	1844	C P70 P93		21
230	6	040		BU	PROC2		5	1851	B Y63 /		21
231	6	050		MLC	VNF, ANS		7	1856	M Z81 P70		21
232	6	060	PROC2	B	PUTX		4	1863	B 363		21
233	6	070		DCW	VLB		3	1869	X18		22
234	6	080		B	PUTX		4	1870	B 363		22
235	6	090		DCW	ANS		3	1876	P70		22
236	6	100		B	PUTX		4	1877	B 363		22
237	6	110		DCW	VLB		3	1883	X18		22
238	6	120		B	L1		4	1884	B T53		22
239	6	130	PROC3	C	ANS, @000@		7	1888	C P70 P93		22
240	6	140		BE	L1		5	1895	B T53 S		23
241	6	150		B	PUTX		4	1900	B 363		23
242	6	160		DCW	ANS		3	1906	P70		23
243	6	170		B	L1		4	1907	B T53		23
244	6	180	NOTFND	B	PUTNAM		4	1911	B N08		23
245	6	190		B	L1		4	1915	B T53		23
246	6	200	EOJ	B	PUTX		4	1919	B 363		23
247	6	210		DCW	SX		3	1925	Z51		24

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
248	6	220		BCE	EOJ1,ACSW,1		8	1926	B Z41 Z48 1		24
249	6	230		B	SUPER		4	1934	B 351		24
250	6	240		DCW	@BD1@		3	1940			24
251	6	250	EOJ1	B	SUPER		4	1941	B 351		24
252	7	010		DCW	@A20@		3	1947			24
253	7	020	ACSW	DCW	@0@		1	1948			24
254	7	030	SX	DCW	#3		3	1951			25
255	7	040	VNM	DCW	@.NM@		3	1954			25
256	7	050	VNL	DCW	@.NL@		3	1957			25
257	7	060	VAT	DCW	@ @@		3	1960			25
258	7	070	VCD	DCW	@.CD@		3	1963			25
259	7	080	VDG	DCW	@.DG@		3	1966			25
260	7	090	CTL	DCW	#3		3	1969			25
261	7	100	HPROC	DCW	@PROCEDURE@		9	1978			26
262	7	110	VNF	DCW	@.NF@		3	1981			26
263	7	120	SYM	DCW	#3		3	1984			26
264	7	130	ANALYZ	SBR	ANLZEX&3		4	1985	H !93		26
265	7	140		MLC	@1@,190		7	1989	M P78 190		26
266	7	150		MLZS	SEQ,CONT		7	1996	Y K66 K67		26
267	7	160		MLZS	@ @,SEQ		7	2003	Y P94 K66		27
268	7	170		BCE	CNTIN,CONT,&		8	2010	B !94 K67 &		27
269	7	180		BCE	SQ,SEQ,1		8	2018	B J09 K66 1		27
270	7	190		BCE	ANE,ANERR1,1		8	2026	B J24 K65 1		27
271	7	200		BCE	NMSZ,NUMSIZ,1		8	2034	B J39 K64 1		27
272	7	210		BCE	WORDR,WRD,1		8	2042	B J54 K63 1		28
273	7	220		BCE	ANSIZ,ANSIZE,1		8	2050	B J69 K62 1		28
274	7	230		BCE	INVAL,INVL,1		8	2058	B J84 K61 1		28
275	7	240		BCE	ENT1,ENTER1,1		8	2066	B J99 K60 1		28
276	7	250		BCE	NPG,NOPGM,1		8	2074	B K14 K59 1		29
277	8	010		BCE	NID,NOID,1		8	2082	B K29 K58 1		29
278	8	020	ANLZEX	B	*		4	2090	B !93		29
279	8	030	CNTIN	SBR	ANLRT&3		4	2094	H K57		29
280	8	040		MLC	ERRA,SYM		7	2098	M K97 Z84		29
281	8	050		B	OUT		4	2105	B K40		29
282	8	060	SQ	SBR	ANLRT&3		4	2109	H K57		29
283	8	070		MLC	ERR1,SYM		7	2113	M K70 Z84		30
284	8	080		B	OUT		4	2120	B K40		30
285	8	090	ANE	SBR	ANLRT&3		4	2124	H K57		30
286	8	100		MLC	ERR2,SYM		7	2128	M K73 Z84		30
287	8	110		B	OUT		4	2135	B K40		30
288	8	120	NMSZ	SBR	ANLRT&3		4	2139	H K57		30
289	8	130		MLC	ERR3,SYM		7	2143	M K76 Z84		30
290	8	140		B	OUT		4	2150	B K40		31
291	8	150	WORDR	SBR	ANLRT&3		4	2154	H K57		31
292	8	160		MLC	ERR4,SYM		7	2158	M K79 Z84		31
293	8	170		B	OUT		4	2165	B K40		31
294	8	180	ANSIZ	SBR	ANLRT&3		4	2169	H K57		31
295	8	190		MLC	ERR5,SYM		7	2173	M K82 Z84		31
296	8	200		B	OUT		4	2180	B K40		31
297	8	210	INVAL	SBR	ANLRT&3		4	2184	H K57		32

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
298	8	220		MLC	ERR6 ,SYM		7	2188	M K85 Z84		32
299	8	230		B	OUT		4	2195	B K40		32
300	8	240	ENT1	SBR	ANLRT&3		4	2199	H K57		32
301	8	250		MLC	ERR7 ,SYM		7	2203	M K88 Z84		32
302	9	010		B	OUT		4	2210	B K40		32
303	9	020	NPG	SBR	ANLRT&3		4	2214	H K57		32
304	9	030		MLC	ERR8 ,SYM		7	2218	M K91 Z84		33
305	9	040		B	OUT		4	2225	B K40		33
306	9	050	NID	SBR	ANLRT&3		4	2229	H K57		33
307	9	060		MLC	ERR9 ,SYM		7	2233	M K94 Z84		33
308	9	070	OUT	B	PUTX		4	2240	B 363		33
309	9	080		DCW	VDG		3	2246	Z66		33
310	9	090		B	PUTX		4	2247	B 363		33
311	9	100		DCW	SYM		3	2253	Z84		34
312	9	110	ANLRT	B	*		4	2254	B K57		34
313	9	120	NOID	DCW	#1		1	2258			34
314	9	130	NOPGM	DC	#1		1	2259			34
315	9	140	ENTER1	DC	#1		1	2260			34
316	9	150	INVLD	DC	#1		1	2261			34
317	9	160	ANSIZE	DC	#1		1	2262			34
318	9	170	WRD	DC	#1		1	2263			34
319	9	180	NUMSIZ	DC	#1		1	2264			34
320	9	190	ANERR1	DC	#1		1	2265			34
321	9	200	SEQ	DC	#1		1	2266			34
322	9	210	CONT	DCW	#1		1	2267			34
323	9	220	ERR1	DCW	@A01@		3	2270			34
324	9	230	ERR2	DCW	@A0B@		3	2273			34
325	9	240	ERR3	DCW	@A0C@		3	2276			34
326	9	250	ERR4	DCW	@A0D@		3	2279			35
327	10	010	ERR5	DCW	@A0E@		3	2282			35
328	10	020	ERR6	DCW	@A0F@		3	2285			35
329	10	030	ERR7	DCW	@A0G@		3	2288			35
330	10	040	ERR8	DCW	@A0H@		3	2291			35
331	10	050	ERR9	DCW	@A0I@		3	2294			35
332	10	060	ERRA	DCW	@A1?@		3	2297			35
333	10	070	GETNAM	SBR	GTNMEX&3		4	2298	H L67		36
334	10	080		MLC	@000@ ,X3		7	2302	M P93 099		36
335	10	090	GTNM1	B	GETX		4	2309	B 335		36
336	10	100		DCW	SX		3	2315	Z51		36
337	10	110		DCW	EOJ		3	2318	Z19		36
338	10	120		C	SX ,VNM		7	2319	C Z51 Z54		36
339	10	130		BE	GTNM2		5	2326	B L49 S		36
340	10	140		A	&3 ,X3		7	2331	A P95 099		37
341	10	150		MLC	SX ,WORDAR&X3		7	2338	M Z51 LH5		37
342	10	160		B	GTNM1		4	2345	B L09		37
343	10	170	GTNM2	MLC	X3 ,SAVE		7	2349	M 099 035		37
344	10	180	GTNM2A	BCE	DECR ,WORDAR&X3 ,		8	2356	B L68 LH5		37
345	10	190	GTNMEX	B	*		4	2364	B L67		37
346	10	200	DECR	S	&1 ,X3		7	2368	S P96 099		38
347	10	210		MLZS	@ @ ,X3		7	2375	Y P94 099		38

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
348	10	220		B	GTNM2A		4	2382	B L56		38
349	10	230	WORDAR	EQU	*			2385			
350	10	240		DCW	#50		50	2435			40
351	10	250		DC	#50		50	2485			42
352	11	010		DC	#22		22	2507			42
353	11	020	NAME	EQU	WORDAR&X3			2385	X		
354	11	030	PUTNAM	SBR	PTNMEX&3		4	2508	H O32		42
355	11	040		BCE	PTNM01,C8SW,1		8	2512	B N31 W12 1		43
356	11	050		MLC	VNM,SYM		7	2520	M Z54 Z84		43
357	11	060		B	PTNM02		4	2527	B N45		43
358	11	070	PTNM01	MLC	VLB,SYM		7	2531	M X18 Z84		43
359	11	080		MLC	@0@,C8SW		7	2538	M P71 W12		43
360	11	090	PTNM02	B	PUTX		4	2545	B 363		43
361	11	100		DCW	SYM		3	2551	Z84		44
362	11	110	PTNM03	C	X3,SAVE		7	2552	C 099 O35		44
363	11	120		BE	PTNM04		5	2559	B N82 S		44
364	11	130		A	&1,X3		7	2564	A P96 099		44
365	11	140		MLC	@ @,NAME		7	2571	M P94 LH5		44
366	11	150		B	PTNM03		4	2578	B N52		44
367	11	160	PTNM04	MLC	@000@,X3		7	2582	M P93 099		45
368	11	170	PTNM05	A	&3,X3		7	2589	A P95 099		45
369	11	180		MLC	WORDAR&X3,SZ		7	2596	M LH5 O38		45
370	11	190		B	PUTX		4	2603	B 363		45
371	11	200		DCW	SZ		3	2609	O38		45
372	11	210		C	X3,SAVE		7	2610	C 099 O35		45
373	11	220		BU	PTNM05		5	2617	B N89 /		46
374	11	230		B	PUTX		4	2622	B 363		46
375	11	240		DCW	SYM		3	2628	Z84		46
376	11	250	PTNMEX	B	*		4	2629	B O32		46
377	12	010	SAVE	DCW	#3		3	2635			46
378	12	020	SZ	DCW	#3		3	2638			46
379	12	030	LOOKUP	C	X3,@001@		7	2639	C 099 P99		46
380	12	040		BE	LKSLNF		5	2646	B 095 S		47
381	12	050		MLC	SMLTBL,X2		7	2651	M Q02 094		47
382	12	060	LKSLCT	C	X3,0&X2		7	2658	C 099 0!0		47
383	12	070		SBR	LKSLFD&3		4	2665	H P09		47
384	12	080		BL	LKSLNF		5	2669	B 095 T		47
385	12	090		BE	LKSLFD		5	2674	B P06 S		47
386	12	100		MLC	0&X2,0&X2		7	2679	M 0!0 0!0		48
387	12	110		MLC			1	2686	M		48
388	12	120		SBR	X2		4	2687	H 094		48
389	12	130		B	LKSLCT		4	2691	B 058		48
390	12	140	LKSLNF	MLC	VNF,ANS		7	2695	M Z81 P70		48
391	12	150		B	PROC1		4	2702	B Y17		48
392	12	160	LKSLFD	MLC	*,X2		7	2706	M P12 094		48
393	12	170	LKSLK	C	NAME,0&X2		7	2713	C LH5 0!0		49
394	12	180		BH	LKSLNF		5	2720	B 095 U		49
395	12	190		BE	LKFND		5	2725	B P46 S		49
396	12	200		MLC	0&X2,0&X2		7	2730	M 0!0 0!0		49
397	12	210		MLC			1	2737	M		49

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
398	12	220		SBR	X2		4	2738	H 094		49
399	12	230		B	LKLN		4	2742	B P13		49
400	12	240	LKFND	MLC	0&X2,0&X2		7	2746	M 0!0 0!0		50
401	12	250		SBR	*&4		4	2753	H P60		50
402	13	010		MLC	*,ANS		7	2757	M P63 P70		50
403	13	020		B	PROC1		4	2764	B Y17		50
404	13	030	ANS	DCW	@000@		3	2770			50
405	13	040		LTORG					2771		
				DCW	@0@		1	2771		LIT	50
					@.PC@		3	2774		LIT	50
					@#DC@		3	2777		LIT	51
					@1@		1	2778		LIT	51
					@DATA@		4	2782		LIT	51
					@004@		3	2785		LIT	51
					@D@		1	2786		LIT	51
					@009@		3	2789		LIT	51
					@P@		1	2790		LIT	51
					@000@		3	2793		LIT	52
					@ @		1	2794		LIT	52
					&3		1	2795		LIT	52
					&1		1	2796		LIT	52
					@001@		3	2799		LIT	52
406	13	050		DCW	@}@		1	2800			52
407	13	060		END	START				/ T00 080		53

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CLEAR STORAGE 1      ,008015,019026,030,034041,045,053,0570571026      1
CLEAR STORAGE 2      L068112,102106,113/101099/I99,027A070028)027B0010270B0261,001/001113I0      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	010	000	JOB	1401 COBOL - A05						
102	1	020		CTL	631 11						
103	1	030		ORG	2800				2800		
104	1	040		DCW	LKTB1	3		2802	Q95		4
105	1	050			@001@	3		2805			4
106	1	060			&ETB02	3		2808	D26		4
107	1	070			@002@	3		2811			4
108	1	080			&ETB03	3		2814	D06		4
109	1	090			@003@	3		2817			4
110	1	100			&ETB04	3		2820	D00		4
111	1	110			@004@	3		2823			5
112	1	120			&ETB05	3		2826	C65		5
113	1	130			@005@	3		2829			5
114	1	140			&ETB06	3		2832	C49		5
115	1	150			@006@	3		2835			5
116	1	160			&ETB07	3		2838	B86		5
117	1	170			@007@	3		2841			5
118	1	180			&ETB08	3		2844	B26		6
119	1	190			@008@	3		2847			6
120	1	200			&ETB09	3		2850	A71		6
121	1	210			@009@	3		2853			6
122	1	220			&ETB10	3		2856	?99		6
123	1	230			@010@	3		2859			6
124	1	240			&ETB11	3		2862	?60		6
125	1	250			@011@	3		2865			7
126	2	010			&ETB12	3		2868	?46		7
127	2	020			@012@	3		2871			7
128	2	030			&ETB13	3		2874	?16		7
129	2	040			@013@	3		2877			7
130	2	050			&ETB14	3		2880	R84		7
131	2	060			@014@	3		2883			7
132	2	070			&ETB15	3		2886	R67		8
133	2	080			@015@	3		2889			8
134	2	090			&ETB16	3		2892	R31		8
135	2	100	LKTB1		@016@	3		2895			8
136	2	110	*		ENVIRONMENT DIVISION TABLES						
137	2	120		DCW	#17	17		2912			8
138	2	130			@*99@	3		2915			8
139	2	140	ETB16		@NO-PRINT-STORAGE@	16		2931			9
140	2	150			@*98@	3		2934			9
141	2	160			@SOURCE-COMPUTER@	15		2949			9
142	2	170			@*97@	3		2952			9
143	2	180	ETB15		@OBJECT-COMPUTER@	15		2967			10
144	2	190			@*92@	3		2970			10
145	2	200	ETB14		@OBJECT-PROGRAM@	14		2984			10
146	2	210			@*95@	3		2987			10
147	2	220			@SPECIAL-NAMES@	13		3000			11

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	2	230			@*94@		3	3003			11
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150	2	250			@*93@		3	3019			11
151	3	010			@INPUT-OUTPUT@		12	3031			12
152	3	020			@*96@		3	3034			12
153	3	030	ETB12		@FILE-CONTROL@		12	3046			12
154	3	040			@*91@		3	3049			12
155	3	050	ETB11		@ENVIRONMENT@		11	3060			13
156	3	060			@*90@		3	3063			13
157	3	070			@NO-RELEASE@		10	3073			13
158	3	080			@*72@		3	3076			13
159	3	090			@NO-OVERLAP@		10	3086			13
160	3	100			@000@		3	3089			14
161	3	110	ETB10		@CHARACTERS@		10	3099			14
162	3	120			@*85@		3	3102			14
163	3	130			@1403-P-C9@		9	3111			14
164	3	140			@*87@		3	3114			14
165	3	150			@1403-P-CV@		9	3123			14
166	3	160			@*86@		3	3126			15
167	3	170			@1403-P-CB@		9	3135			15
168	3	180			@000@		3	3138			15
169	3	190			@CHARACTER@		9	3147			15
170	3	200			@000@		3	3150			15
171	3	210			@ALTERNATE@		9	3159			15
172	3	220			@*74@		3	3162			15
173	3	230	ETB09		@ADDRESSES@		9	3171			16
174	3	240			@*79@		3	3174			16
175	3	250			@PRIORITY@		8	3182			16
176	4	010			@000@		3	3185			16
177	4	020			@OPTIONAL@		8	3193			16
178	4	030			@000@		3	3196			16
179	4	040			@MULTIPLE@		8	3204			17
180	4	050			@*84@		3	3207			17
181	4	060			@IBM-1401@		8	3215			17
182	4	070			@*06@		3	3218			17
183	4	080	ETB08		@DIVISION@		8	3226			17
184	4	090			@*82@		3	3229			17
185	4	100			@1403-CT@		7	3236			18
186	4	110			@*81@		3	3239			18
187	4	120			@1401-SS@		7	3246			18
188	4	130			@*08@		3	3249			18
189	4	140			@THROUGH@		7	3256			18
190	4	150			@*09@		3	3259			18
191	4	160			@SECTION@		7	3266			18
192	4	170			@*70@		3	3269			19
193	4	180			@RESERVE@		7	3276			19
194	4	190			@*74@		3	3279			19
195	4	200	ETB07		@ADDRESS@		7	3286			19
196	4	210			@*83@		3	3289			19
197	4	220			@1403-P@		6	3295			19

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
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199	4	240			@1402-R@		6	3304			20
200	4	250			@*88@		3	3307			20
201	5	010			@1402-P@		6	3313			20
202	5	020			@000@		3	3316			20
203	5	030			@STATUS@		6	3322			20
204	5	040			@*77@		3	3325			20
205	5	050			@SELECT@		6	3331			20
206	5	060			@*76@		3	3334			21
207	5	070			@MEMORY@		6	3340			21
208	5	080			@*75@		3	3343			21
209	5	090	ETB06		@ASSIGN@		6	3349			21
210	5	100			@*89@		3	3352			21
211	5	110			@TAPES@		5	3357			21
212	5	120			@000@		3	3360			21
213	5	130	ETB05		@AREAS@		5	3365			22
214	5	140			@*08@		3	3368			22
215	5	150			@THRU@		4	3372			22
216	5	160			@*89@		3	3375			22
217	5	170			@TAPE@		4	3379			22
218	5	180			@000@		3	3382			22
219	5	190			@SIZE@		4	3386			22
220	5	200			@000@		3	3389			23
221	5	210			@FILE@		4	3393			23
222	5	220			@000@		3	3396			23
223	5	230	ETB04		@AREA@		4	3400			23
224	5	240			@*71@		3	3403			23
225	5	250	ETB03		@OFF@		3	3406			23
226	6	010			@000@		3	3409			23
227	6	020			@TO@		2	3411			24
228	6	030			@*31@		3	3414			24
229	6	040			@ON@		2	3416			24
230	6	050			@*33@		3	3419			24
231	6	060			@NO@		2	3421			24
232	6	070			@000@		3	3424			24
233	6	080	ETB02		@IS@		2	3426			24
234	6	090		DCW	@}@		1	3427			25
235	6	100		END					/ 000 080		26

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BOOTSTRAP            ,008015,022029,036040,047054,061068,072/061039      ,0010011040      3

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1401 COBOL - A06 PAGE 1

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102	1	020		CTL	631 11						
103	1	030		ORG	2800				2800		
104	1	040		DCW	LKTB2	3	2802	R01			4
105	1	050			@001@	3	2805				4
106	1	060			&DTB02	3	2808	G45			4
107	1	070			@002@	3	2811				4
108	1	080			&DTB03	3	2814	G05			4
109	1	090			@003@	3	2817				4
110	1	100			&DTB04	3	2820	F81			4
111	1	110			@004@	3	2823				5
112	1	120			&DTB05	3	2826	F04			5
113	1	130			@005@	3	2829				5
114	1	140			&DTB06	3	2832	D68			5
115	1	150			@006@	3	2835				5
116	1	160			&DTB07	3	2838	C60			5
117	1	170			@007@	3	2841				5
118	1	180			&DTB08	3	2844	B70			6
119	1	190			@008@	3	2847				6
120	1	200			&DTB09	3	2850	B04			6
121	1	210			@009@	3	2853				6
122	1	220			&DTB10	3	2856	A32			6
123	1	230			@010@	3	2859				6
124	1	240			&DTB11	3	2862	?80			6
125	1	250			@011@	3	2865				7
126	2	010			&DTB12	3	2868	?66			7
127	2	020			@012@	3	2871				7
128	2	030			&DTB13	3	2874	?51			7
129	2	040			@013@	3	2877				7
130	2	050			&DTB14	3	2880	?19			7
131	2	060			@014@	3	2883				7
132	2	070			&DTB15	3	2886	?02			8
133	2	080			@015@	3	2889				8
134	2	090			&DTB18	3	2892	R66			8
135	2	100			@018@	3	2895				8
136	2	110			&DTB20	3	2898	R45			8
137	2	120	LKTB2		@020@	3	2901				8
138	2	130	*		DATA DIVISION TABLES						
139	2	140		DCW	#21	21	2922				8
140	2	150			@/30@	3	2925				9
141	2	160	DTB20		@REEL-SEQUENCE-NUMBER@	20	2945				9
142	2	170			@/31@	3	2948				9
143	2	180	DTB18		@FILE-SERIAL-NUMBER@	18	2966				10
144	2	190			@/01@	3	2969				10
145	2	200			@WORKING-STORAGE@	15	2984				10
146	2	210			@/02@	3	2987				10
147	2	220	DTB15		@RETENTION-CYCLE@	15	3002				11

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	2	230			@/25@		3	3005			11
149	2	240	DTB14		@IDENTIFICATION@		14	3019			11
150	2	250			@/32@		3	3022			11
151	3	010			@CREATION-DATE@		13	3035			12
152	3	020			@000@		3	3038			12
153	3	030	DTB13		@COMPUTATIONAL@		13	3051			12
154	3	040			@/03@		3	3054			12
155	3	050	DTB12		@ALPHANUMERIC@		12	3066			13
156	3	060			@\$01@		3	3069			13
157	3	070	DTB11		@HIGH-VALUES@		11	3080			13
158	3	080			\$\$\$02@		3	3083			13
159	3	090			@LOW-VALUES@		10	3093			13
160	3	100			\$\$\$01@		3	3096			14
161	3	110			@HIGH-VALUE@		10	3106			14
162	3	120			@000@		3	3109			14
163	3	130			@CHARACTERS@		10	3119			14
164	3	140			\$\$\$10@		3	3122			14
165	3	150	DTB10		@ALPHABETIC@		10	3132			14
166	3	160			@/05@		3	3135			15
167	3	170			@REDEFINES@		9	3144			15
168	3	180			@/06@		3	3147			15
169	3	190			@RECORDING@		9	3156			15
170	3	200			\$\$\$02@		3	3159			15
171	3	210			@LOW-VALUE@		9	3168			15
172	3	220			@/07@		3	3171			15
173	3	230			@JUSTIFIED@		9	3180			16
174	3	240			@*03@		3	3183			16
175	3	250			@DEPENDING@		9	3192			16
176	4	010			@000@		3	3195			16
177	4	020	DTB09		@CHARACTER@		9	3204			16
178	4	030			@/04@		3	3207			16
179	4	040			@SUPPRESS@		8	3215			17
180	4	050			@/08@		3	3218			17
181	4	060			@STANDARD@		8	3226			17
182	4	070			@000@		3	3229			17
183	4	080			@LOCATION@		8	3237			17
184	4	090			@*06@		3	3240			17
185	4	100			@DIVISION@		8	3248			18
186	4	110			@000@		3	3251			18
187	4	120			@CONTAINS@		8	3259			18
188	4	130			@/09@		3	3262			18
189	4	140	DTB08		@CONSTANT@		8	3270			18
190	4	150			@*08@		3	3273			18
191	4	160			@THROUGH@		7	3280			19
192	4	170			@*09@		3	3283			19
193	4	180			@SECTION@		7	3290			19
194	4	190			@/11@		3	3293			19
195	4	200			@RECORDS@		7	3300			19
196	4	210			@000@		3	3303			19
197	4	220			@PROTECT@		7	3310			19

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
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199	4	240			@PICTURE@		7	3320			20
200	4	250			@*14@		3	3323			20
201	5	010			@OMITTED@		7	3330			20
202	5	020			@\$16@		3	3333			20
203	5	030			@NUMERIC@		7	3340			20
204	5	040			@/12@		3	3343			20
205	5	050			@LEAVING@		7	3350			21
206	5	060			@000@		3	3353			21
207	5	070	DTB07		@DISPLAY@		7	3360			21
208	5	080			@\$08@		3	3363			21
209	5	090			@ZER0ES@		6	3369			21
210	5	100			@/13@		3	3372			21
211	5	110			@VALUES@		6	3378			21
212	5	120			@\$02@		3	3381			22
213	5	130			@SPACES@		6	3387			22
214	5	140			@000@		3	3390			22
215	5	150			@SIGNED@		6	3396			22
216	5	160			@/11@		3	3399			22
217	5	170			@RECORD@		6	3405			22
218	5	180			@\$09@		3	3408			22
219	5	190			@QUOTES@		6	3414			23
220	5	200			@000@		3	3417			23
221	5	210			@PLACES@		6	3423			23
222	5	220			@/14@		3	3426			23
223	5	230			@OCCURS@		6	3432			23
224	5	240			@/23@		3	3435			23
225	5	250			@FILLER@		6	3441			23
226	6	010			@000@		3	3444			24
227	6	020			@DOLLAR@		6	3450			24
228	6	030			@000@		3	3453			24
229	6	040			@DIGITS@		6	3459			24
230	6	050			@/16@		3	3462			24
231	6	060	DTB06		@BLOCKS@		6	3468			24
232	6	070			@\$08@		3	3471			24
233	6	080			@ZEROS@		5	3476			25
234	6	090			@/13@		3	3479			25
235	6	100			@VALUE@		5	3484			25
236	6	110			@000@		3	3487			25
237	6	120			@USAGE@		5	3492			25
238	6	130			@000@		3	3495			25
239	6	140			@TIMES@		5	3500			25
240	6	150			@\$02@		3	3503			26
241	6	160			@SPACE@		5	3508			26
242	6	170			@/17@		3	3511			26
243	6	180			@RIGHT@		5	3516			26
244	6	190			@\$09@		3	3519			26
245	6	200			@QUOTE@		5	3524			26
246	6	210			@/18@		3	3527			26
247	6	220			@POINT@		5	3532			27

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
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249	6	240			@PLACE@		5	3540			27
250	6	250			@000@		3	3543			27
251	7	010			@LINES@		5	3548			27
252	7	020			@/19@		3	3551			27
253	7	030			@LABEL@		5	3556			27
254	7	040			@/20@		3	3559			28
255	7	050			@FLOAT@		5	3564			28
256	7	060			@000@		3	3567			28
257	7	070			@DIGIT@		5	3572			28
258	7	080			@000@		3	3575			28
259	7	090			@CLASS@		5	3580			28
260	7	100			@/21@		3	3583			28
261	7	110			@CHECK@		5	3588			29
262	7	120			@/16@		3	3591			29
263	7	130			@BLOCK@		5	3596			29
264	7	140			@/22@		3	3599			29
265	7	150	DTB05		@BLANK@		5	3604			29
266	7	160			@\$08@		3	3607			29
267	7	170			@ZERO@		4	3611			29
268	7	180			@000@		3	3614			30
269	7	190			@WHEN@		4	3618			30
270	7	200			@*08@		3	3621			30
271	7	210			@THRU@		4	3625			30
272	7	220			@/10@		3	3628			30
273	7	230			@SIZE@		4	3632			30
274	7	240			@000@		3	3635			30
275	7	250			@SIGN@		4	3639			31
276	8	010			@000@		3	3642			31
277	8	020			@MODE@		4	3646			31
278	8	030			@000@		3	3649			31
279	8	040			@LINE@		4	3653			31
280	8	050			@/15@		3	3656			31
281	8	060			@LEFT@		4	3660			31
282	8	070			@*28@		3	3663			32
283	8	080			@FROM@		4	3667			32
284	8	090			@*29@		3	3670			32
285	8	100			@FILE@		4	3674			32
286	8	110			@/24@		3	3677			32
287	8	120	DTB04		@DATA@		4	3681			32
288	8	130			@000@		3	3684			32
289	8	140			@FOR@		3	3687			33
290	8	150			@000@		3	3690			33
291	8	160			@ARE@		3	3693			33
292	8	170		DCW	@000@		3	3696			33
293	8	180		DCW	@AND@		3	3699			33
294	8	190			@\$40@		3	3702			33
295	8	200	DTB03		@ALL@		3	3705			33
296	8	210			@000@		3	3708			34
297	8	220			@TO@		2	3710			34

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
298	8	230			@000@		3	3713			34
299	8	240			@ON@		2	3715			34
300	8	250			@*32@		3	3718			34
301	9	010			@OF@		2	3720			34
302	9	020			@000@		3	3723			34
303	9	030			@IS@		2	3725			35
304	9	040			@*32@		3	3728			35
305	9	050			@IN@		2	3730			35
306	9	060			@/25@		3	3733			35
307	9	070			@ID@		2	3735			35
308	9	080			@/26@		3	3738			35
309	9	090			@FD@		2	3740			35
310	9	100			@/03@		3	3743			36
311	9	110	DTB02		@AN@		2	3745			36
312	9	120		DCW	@}@		1	3746			36
313	9	130		END					/ 000 080		37

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CLEAR STORAGE 1      ,008015,019026,030,034041,045,053,0570571026      1
CLEAR STORAGE 2      L068112,102106,113/101099/I99,027A070028)027B0010270B0261,001/001113I0      2
BOOTSTRAP            ,008015,022029,036040,047054,061068,072/061039      ,0010011040      3

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1401 COBOL - A07 PAGE 1

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
101	1	010	000	JOB	1401 COBOL - A07						
102	1	020		CTL	631 11						
103	1	030		ORG	2800				2800		
104	1	040		DCW	LKTB3	3		2802	Q65		4
105	1	050			@001@	3		2805			4
106	1	060			&PTB02	3		2808	G21		4
107	1	070			@002@	3		2811			4
108	1	080			&PTB03	3		2814	F66		4
109	1	090			@003@	3		2817			4
110	1	100			&PTB04	3		2820	F30		4
111	1	110			@004@	3		2823			5
112	1	120			&PTB05	3		2826	D76		5
113	1	130			@005@	3		2829			5
114	1	140			&PTB06	3		2832	C40		5
115	1	150			@006@	3		2835			5
116	1	160			&PTB07	3		2838	B41		5
117	1	170			@007@	3		2841			5
118	1	180			&PTB08	3		2844	?91		6
119	1	190			@008@	3		2847			6
120	1	200			&PTB09	3		2850	?14		6
121	1	210			@009@	3		2853			6
122	1	220			&PTB10	3		2856	R30		6
123	1	230			@010@	3		2859			6
124	1	240			&PTB11	3		2862	Q91		6
125	1	250	LKTB3		@011@	3		2865			7
126	2	010	*		COBOL KEY-WORD TABLES						
127	2	020	*		PROCEDURE DIVISION TABLES						
128	2	030		DCW	#12	12		2877			7
129	2	040			@\$01@	3		2880			7
130	2	050	PTB11		@HIGH-VALUES@	11		2891			7
131	2	060			@\$02@	3		2894			7
132	2	070			@LOW-VALUES@	10		2904			8
133	2	080			@\$01@	3		2907			8
134	2	090			@HIGH-VALUE@	10		2917			8
135	2	100			@\$10@	3		2920			8
136	2	110	PTB10		@ALPHABETIC@	10		2930			8
137	2	120			@*40@	3		2933			8
138	2	130			@REPLACING@	9		2942			9
139	2	140			@*01@	3		2945			9
140	2	150			@PROCEDURE@	9		2954			9
141	2	160			@*02@	3		2957			9
142	2	170			@OTHERWISE@	9		2966			9
143	2	180			@\$02@	3		2969			9
144	2	190			@LOW-VALUE@	9		2978			10
145	2	200			@*03@	3		2981			10
146	2	210			@DEPENDING@	9		2990			10
147	2	220			@000@	3		2993			10

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	2	230			@AUTOCODER@		9	3002			10
149	2	240			@000@		3	3005			10
150	2	250	PTB09		@ADVANCING@		9	3014			11
151	3	010			@*39@		3	3017			11
152	3	020			@TALLYING@		8	3025			11
153	3	030			@)01@		3	3028			11
154	3	040			@SUBTRACT@		8	3036			11
155	3	050			@000@		3	3039			11
156	3	060			@SENTENCE@		8	3047			12
157	3	070			@\$12@		3	3050			12
158	3	080			@POSITIVE@		8	3058			12
159	3	090			@\$14@		3	3061			12
160	3	100			@NEGATIVE@		8	3069			12
161	3	110			@)02@		3	3072			12
162	3	120			@MULTIPLY@		8	3080			13
163	3	130			@*06@		3	3083			13
164	3	140	PTB08		@DIVISION@		8	3091			13
165	3	150			@*07@		3	3094			13
166	3	160			@VARYING@		7	3101			13
167	3	170			@*08@		3	3104			13
168	3	180			@THROUGH@		7	3111			13
169	3	190			@*09@		3	3114			14
170	3	200			@SECTION@		7	3121			14
171	3	210			@*10@		3	3124			14
172	3	220			@ROUNDED@		7	3131			14
173	3	230			@/11@		3	3134			14
174	3	240			@RECORDS@		7	3141			14
175	3	250			@*11@		3	3144			14
176	4	010			@PROCEED@		7	3151			15
177	4	020			@)03@		3	3154			15
178	4	030			@PERFORM@		7	3161			15
179	4	040			@\$16@		3	3164			15
180	4	050			@NUMERIC@		7	3171			15
181	4	060			@*37@		3	3174			15
182	4	070			@LEADING@		7	3181			15
183	4	080			@\$20@		3	3184			16
184	4	090			@GREATER@		7	3191			16
185	4	100			@000@		3	3194			16
186	4	110			@FILLING@		7	3201			16
187	4	120			@\$20@		3	3204			16
188	4	130			@EXCEEDS@		7	3211			16
189	4	140			@)30@		3	3214			16
190	4	150			@EXAMINE@		7	3221			17
191	4	160			@)04@		3	3224			17
192	4	170			@DISPLAY@		7	3231			17
193	4	180			@)05@		3	3234			17
194	4	190	PTB07		@COMPUTE@		7	3241			17
195	4	200			@\$08@		3	3244			17
196	4	210			@ZEROES@		6	3250			17
197	4	220			@\$02@		3	3253			18

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
198	4	230			@SPACES@		6	3259			18
199	4	240			@*13@		3	3262			18
200	4	250			@REWIND@		6	3268			18
201	5	010			@/11@		3	3271			18
202	5	020			@RECORD@		6	3277			18
203	5	030			@\$09@		3	3280			18
204	5	040			@QUOTES@		6	3286			19
205	5	050			@*15@		3	3289			19
206	5	060			@OUTPUT@		6	3295			19
207	5	070			@*16@		3	3298			19
208	5	080			@GIVING@		6	3304			19
209	5	090			@ #@		3	3307			19
210	5	100			@EQUALS@		6	3313			19
211	5	110			@)06@		3	3316			20
212	5	120			@DIVIDE@		6	3322			20
213	5	130			@*17@		3	3325			20
214	5	140			@BEFORE@		6	3331			20
215	5	150			@)07@		3	3334			20
216	5	160	PTB06		@ACCEPT@		6	3340			20
217	5	170			@\$08@		3	3343			20
218	5	180			@ZEROS@		5	3348			21
219	5	190			@)08@		3	3351			21
220	5	200			@WRITE@		5	3356			21
221	5	210			@*18@		3	3359			21
222	5	220			@UNTIL@		5	3364			21
223	5	230			@ *@		3	3367			21
224	5	240			@TIMES@		5	3372			21
225	5	250			@A05@		3	3375			22
226	6	010			@TALLY@		5	3380			22
227	6	020			@\$02@		3	3383			22
228	6	030			@SPACE@		5	3388			22
229	6	040			@\$09@		3	3391			22
230	6	050			@QUOTE@		5	3396			22
231	6	060			@000@		3	3399			22
232	6	070			@LINES@		5	3404			23
233	6	080			@*20@		3	3407			23
234	6	090			@INPUT@		5	3412			23
235	6	100			@*38@		3	3415			23
236	6	110			@FIRST@		5	3420			23
237	6	120			@000@		3	3423			23
238	6	130			@ERROR@		5	3428			23
239	6	140			@ #@		3	3431			24
240	6	150			@EQUAL@		5	3436			24
241	6	160			@000@		3	3439			24
242	6	170			@ENTER@		5	3444			24
243	6	180			@000@		3	3447			24
244	6	190			@COBOL@		5	3452			24
245	6	200			@)09@		3	3455			24
246	6	210			@CLOSE@		5	3460			25
247	6	220			@)10@		3	3463			25

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
248	6	230			@ALTER@		5	3468			25
249	6	240			@*22@		3	3471			25
250	6	250	PTB05		@AFTER@		5	3476			25
251	7	010			@\$08@		3	3479			25
252	7	020			@ZERO@		4	3483			25
253	7	030			@000@		3	3486			26
254	7	040			@WITH@		4	3490			26
255	7	050			@*23@		3	3493			26
256	7	060			@UPON@		4	3497			26
257	7	070			@ *@		3	3500			26
258	7	080			@TIME@		4	3504			26
259	7	090			@*08@		3	3507			26
260	7	100			@THRU@		4	3511			27
261	7	110			@000@		3	3514			27
262	7	120			@THEN@		4	3518			27
263	7	130			@000@		3	3521			27
264	7	140			@THAN@		4	3525			27
265	7	150			@)11@		3	3528			27
266	7	160			@STOP@		4	3532			27
267	7	170			@/10@		3	3535			28
268	7	180			@SIZE@		4	3539			28
269	7	190			@)13@		3	3542			28
270	7	200			@READ@		4	3546			28
271	7	210			@)14@		3	3549			28
272	7	220			@OPEN@		4	3553			28
273	7	230			@*24@		3	3556			28
274	7	240			@NOTE@		4	3560			29
275	7	250			@*25@		3	3563			29
276	8	010			@NEXT@		4	3567			29
277	8	020			@)15@		3	3570			29
278	8	030			@MOVE@		4	3574			29
279	8	040			@*26@		3	3577			29
280	8	050			@LOCK@		4	3581			29
281	8	060			@000@		3	3584			30
282	8	070			@LINE@		4	3588			30
283	8	080			@\$21@		3	3591			30
284	8	090			@LESS@		4	3595			30
285	8	100			@*27@		3	3598			30
286	8	110			@INTO@		4	3602			30
287	8	120			@*28@		3	3605			30
288	8	130			@FROM@		4	3609			31
289	8	140			@*29@		3	3612			31
290	8	150			@FILE@		4	3616			31
291	8	160			@)16@		3	3619			31
292	8	170			@EXIT@		4	3623			31
293	8	180			@*02@		3	3626			31
294	8	190	PTB04		@ELSE@		4	3630			31
295	8	200			@*30@		3	3633			32
296	8	210			@RUN@		3	3636			32
297	8	220			@\$30@		3	3639			32

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
298	8	230			@NOT@		3	3642			32
299	8	240			@)17@		3	3645			32
300	8	250			@END@		3	3648			32
301	9	010			@\$32@		3	3651			32
302	9	020			@AND@		3	3654			33
303	9	030			@\$40@		3	3657			33
304	9	040			@ALL@		3	3660			33
305	9	050			@)18@		3	3663			33
306	9	060	PTB03		@ADD@		3	3666			33
307	9	070			@000@		3	3669			33
308	9	080			@TO@		2	3671			33
309	9	090			@\$31@		3	3674			34
310	9	100			@OR@		2	3676			34
311	9	110			@000@		3	3679			34
312	9	120			@ON@		2	3681			34
313	9	130			@*32@		3	3684			34
314	9	140			@OF@		2	3686			34
315	9	150			@*33@		3	3689			34
316	9	160			@NO@		2	3691			35
317	9	170			@000@		3	3694			35
318	9	180			@IS@		2	3696			35
319	9	190			@*32@		3	3699			35
320	9	200			@IN@		2	3701			35
321	9	210			@)19@		3	3704			35
322	9	220			@IF@		2	3706			35
323	9	230			@)20@		3	3709			36
324	9	240			@GO@		2	3711			36
325	9	250			@*35@		3	3714			36
326	10	010			@BY@		2	3716			36
327	10	020			@000@		3	3719			36
328	10	030	PTB02		@AT@		2	3721			36
329	10	040		DCW	@}@		1	3722			36
330	10	050		END					/ 000 080		37

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CLEAR STORAGE 1 ,008015,019026,030,034041,045,053,0570571026 1
CLEAR STORAGE 2 L068112,102106,113/101099/I99,027A070028)027B0010270B0261,001/001113I0 2
BOOTSTRAP ,008015,022029,036040,047054,061068,072/061039 ,0010011040 3

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1401 COBOL - A20 PAGE 1

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
101	1	010	000	JOB	1401 COBOL - A20						
102	1	020		CTL	631 11						
103	1	030		ORG	1300				1300		
104	1	040	X1	EQU	89			0089			
105	1	050	GETX	EQU	335			0335			
106	1	060	IORW	EQU	343			0343			
107	1	070	SUPER	EQU	351			0351			
108	1	080	PUTX	EQU	363			0363			
109	1	090	START	B	PLACE	4		1300	B V25		4
110	1	100		DCW	VAC	3		1306	T86		4
111	1	110	START1	B	GTPTIL	4		1307	B U57		4
112	1	120		DCW	VDC	3		1313	T89		4
113	1	130		B	PUTSX	4		1314	B U42		4
114	1	140		A	&1,CNTR	7		1318	A Z81 T83		4
115	1	150		B	PUTX	4		1325	B 363		4
116	1	160		DCW	VAC	3		1331	T86		5
117	1	170		B	PUTX	4		1332	B 363		5
118	1	180		DCW	CNTR	3		1338	T83		5
119	1	190		B	PLACE	4		1339	B V25		5
120	1	200		DCW	CNTR	3		1345	T83		5
121	1	210	START2	B	GETSX	4		1346	B U24		5
122	1	220		C	SX,VDC	7		1350	C T92 T89		5
123	1	230		BE	START3	5		1357	B T73 S		6
124	1	240		B	PLACE	4		1362	B V25		6
125	1	250		DCW	SX	3		1368	T92		6
126	2	010		B	START2	4		1369	B T46		6
127	2	020	START3	B	PUTSX	4		1373	B U42		6
128	2	030		B	START1	4		1377	B T07		6
129	2	040	CNTR	DCW	@000@	3		1383			6
130	2	050	VAC		@.AC@	3		1386			7
131	2	060	VDC		@#DC@	3		1389			7
132	2	070	SX		#3	3		1392			7
133	2	080	EOJ	B	PUTSX	4		1393	B U42		7
134	2	090		B	PLACE	4		1397	B V25		7
135	2	100		DCW	VDE	3		1403	U20		7
136	2	110		B	PLACE	4		1404	B V25		7
137	2	120		DCW	VEB	3		1410	U23		8
138	2	130		B	SUPER	4		1411	B 351		8
139	2	140		DCW	@BD1@	3		1417			8
140	2	150	VDE		@.DE@	3		1420			8
141	2	160	VEB		@.EB@	3		1423			8
142	2	170	GETSX	SBR	GTSEX&3	4		1424	H U41		8
143	2	180		B	GETX	4		1428	B 335		8
144	2	190		DCW	&SX	3		1434	T92		9
145	2	200			&EOJ	3		1437	T93		9
146	2	210	GTSEX	B	*	4		1438	B U41		9
147	2	220	PUTSX	SBR	PTSEX&3	4		1442	H U56		9

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	2	230		B	PUTX		4	1446	B 363		9
149	2	240		DCW	&SX		3	1452	T92		9
150	2	250	PTSEX	B	*		4	1453	B U56		9
151	3	010	GTPTIL	SBR	X1	GTPTIL	4	1457	H 089		10
152	3	020		MLC	@P@,GTPSW		7	1461	M Z82 V24		10
153	3	030		MLC	X1,GTL5V		7	1468	M 089 V23		10
154	3	040		MLC	2&X1,GTL03&3		7	1475	M 0|2 U89		10
155	3	050	GTL02	B	GETSX		4	1482	B U24		10
156	3	060	GTL03	C	*,SX		7	1486	C U92 T92		10
157	3	070		BE	GTL04		5	1493	B V10 S		11
158	3	080		BCE	PUTSX,GTPSW,P		8	1498	B U42 V24 P		11
159	3	090		B	GTL02		4	1506	B U82		11
160	3	100	GTL04	MLC	GTL5V,X1		7	1510	M V23 089		11
161	3	110		B	3&X1		4	1517	B 0|3		11
162	3	120	GTL5V	DCW	#3		3	1523			11
163	3	130	GTPSW		#1		1	1524			11
164	3	140	PLACE	SBR	X1		4	1525	H 089		12
165	3	150		SBR	PLC2&3,3&X1		7	1529	H V99 0|3		12
166	3	160		MLC	2&X1,PLC1&3		7	1536	M 0|2 V46		12
167	3	170	PLC1	MLC	0,PLCSY		7	1543	M 000 W79		12
168	3	180	PLC1A	MLC	PLCSY,PLCB		7	1550	M W79 W82		12
169	3	190		C	PLCSY,@.EB@		7	1557	C W79 Z85		12
170	3	200		BE	PLC3		5	1564	B W00 S		13
171	3	210		C	PLC1A&6,&PLCMAX		7	1569	C V56 Z88		13
172	3	220		BE	PLC3		5	1576	B W00 S		13
173	3	230		MA	@003@,PLC1A&6					MACRO	
174				SW	PLC1A&6-2		4	1581	, V54	GEN	13
175				A	@003@,PLC1A&6		7	1585	A Z91 V56	GEN	13
176				CW	PLC1A&6-2		4	1592	) V54	GEN	13
177	3	240	PLC2	B	0		4	1596	B 000		13
178	3	250	PLC3	SW	PLC5&1		4	1600	, W76		14
179	4	010		B	IORW		4	1604	B 343		14
180	4	020		RT	4,PLC5		8	1608	M %U4 W75 R		14
181	4	030		DCW	PLC4		3	1618	W23		14
182	4	040		B	PLC3		4	1619	B W00		14
183	4	050	PLC4	BSP	4		5	1623	U %U4 B		14
184	4	060		SW	PLCMAX&1		4	1628	, Z80		14
185	4	070		B	IORW		4	1632	B 343		15
186	4	080		WT	4,PLCA		8	1636	M %U4 W80 W		15
187	4	090		DCW	*&1		3	1646	W47		15
188	4	100		WTM	4		5	1647	U %U4 M		15
189	4	110		BSP	4		5	1652	U %U4 B		15
190	4	120		MLC	&PLCB,PLC1A&6		7	1657	M Z94 V56		15
191	4	130		ZA	@0@,PLCMAX		7	1664	? Z95 Z79		15
192	4	140		B	PLC2		4	1671	B V96		16
193	4	150	PLC5	EQU	*&1			1675			
194	4	160		DCW	@ }@		2	1676			16
195	4	170	PLCSY	DCW	#3		3	1679			16
196	4	180		DA	1X300			1680	1979		16
197	4	190	PLCA		1			1680		SBFLD	

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
198	4	200	PLCB		3			1682		SBFLD	
199	4	210	PLCMAX	EQU	*			1979			
200	4	220		DC	@}@	1		1980			17
201	4	230		LTORG					1981		
				DCW	&1	1		1981		LIT	17
					@P@	1		1982		LIT	17
					@.EB@	3		1985		LIT	17
		171			&PLCMAX	3		1988	Z79	ADCON	17
					@003@	3		1991		LIT	18
		190			&PLCB	3		1994	W82	ADCON	18
					@0@	1		1995		LIT	18
202	4	240		DCW	@}@	1		1996			18
203	4	250		END	START				/ T00 080		19

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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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1401 COBOL - BD1 PAGE 1

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
101	1	010	000	JOB	1401 COBOL - BD1						
102	1	020		CTL	661111						
103	1	030		ORG	1300				1300		
104	1	040	PUTX	EQU	363			0363			
105	1	050	SUPER	EQU	351			0351			
106	1	060	GETX	EQU	335			0335			
107	1	070	X	B	GETSR1	4		1300	B O10		4
108	1	080		C	SX,@*91@	7		1304	C Q18 Q24		4
109	1	090		BU	X	5		1311	B T00 /		4
110	1	100		SW	1002	4		1316	, |02		4
111	1	110		B	GETSR	4		1320	B M15		4
112	1	120		C	SX,@*06@	7		1324	C Q18 Q27		4
113	1	130		BU	DIOG12	5		1331	B M88 /		4
114	1	140		B	GETSR1	4		1336	B O10		5
115	1	150		C	SX,@.PD@	7		1340	C Q18 Q30		5
116	1	160		BU	DIOG15	5		1347	B M99 /		5
117	1	170		B	GETSR	4		1352	B M15		5
118	1	180		C	SX,@*94@	7		1356	C Q18 Q33		5
119	1	190		BU	DIOG16	5		1363	B N10 /		5
120	1	200		B	GETSR	4		1368	B M15		5
121	1	210		C	SX,@*09@	7		1372	C Q18 Q36		6
122	1	220		BU	DIOG17	5		1379	B N21 /		6
123	1	230		B	GETSR1	4		1384	B O10		6
124	1	240		C	SX,@.PD@	7		1388	C Q18 Q30		6
125	1	250		BU	DIOG15	5		1395	B M99 /		6
126	2	010		B	GETSR	4		1400	B M15		6
127	2	020		C	SX,@*98@	7		1404	C Q18 Q39		6
128	2	030		BU	DIOG27	5		1411	B N54 /		7
129	2	040	K2	B	GETSR1	4		1416	B O10		7
130	2	050		C	SX,@.PD@	7		1420	C Q18 Q30		7
131	2	060		BU	DIOG15	5		1427	B M99 /		7
132	2	070		B	GETSR	4		1432	B M15		7
133	2	080		C	SX,@*84@	7		1436	C Q18 Q42		7
134	2	090		BU	DIOG18	5		1443	B N32 /		7
135	2	100	NOREL	B	GETSR	4		1448	B M15		8
136	2	110		MLC	SX,HOLD	7		1452	M Q18 Q15		8
137	2	120	NOREL1	C	SX,@*76@	7		1459	C Q18 Q45		8
138	2	130		BE	MEMORY	5		1466	B L91 S		8
139	2	140		C	SX,@*90@	7		1471	C Q18 Q48		8
140	2	150		BE	NOREL	5		1478	B U48 S		8
141	2	160		C	SX,@*99@	7		1483	C Q18 Q51		9
142	2	170		BE	NOREL	5		1490	B U48 S		9
143	2	180		C	SX,@*97@	7		1495	C Q18 Q54		9
144	2	190		BU	DIOG22	5		1502	B N65 /		9
145	2	200	K3	B	GETSR1	4		1507	B O10		9
146	2	210		C	SX,@.PD@	7		1511	C Q18 Q30		9
147	2	220		BU	DIOG15	5		1518	B M99 /		10

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	2	230		B	GETSR		4	1523	B M15		10
149	2	240		C	SX,@*84@		7	1527	C Q18 Q42		10
150	2	250		BU	DIOG18		5	1534	B N32 /		10
151	3	010	XYZ	B	GETSR		4	1539	B M15		10
152	3	020	XYZ1	MLC	SX,HOLD		7	1543	M Q18 Q15		10
153	3	030		C	SX,@*76@		7	1550	C Q18 Q45		10
154	3	040		BE	MEMOR1		5	1557	B W26 S		11
155	3	050		C	SX,@*75@		7	1562	C Q18 Q57		11
156	3	060		BE	ASSIGN		5	1569	B X14 S		11
157	3	070		C	SX,@*72@		7	1574	C Q18 Q60		11
158	3	080		BE	XYZ		5	1581	B V39 S		11
159	3	090		C	SX,@*99@		7	1586	C Q18 Q51		11
160	3	100		BE	XYZ		5	1593	B V39 S		12
161	3	110		C	SX,@*95@		7	1598	C Q18 Q63		12
162	3	120		BE	SPECIA		5	1605	B X50 S		12
163	3	130	COULD	C	SX,@*93@		7	1610	C Q18 Q66		12
164	3	140		BE	INOUT		5	1617	B !85 S		12
165	3	150		B	DIOG22		4	1622	B N65		12
166	3	160	MEMOR1	B	GETSR		4	1626	B M15		12
167	3	170		C	SX,@.NL@		7	1630	C Q18 Q69		13
168	3	180		BE	NUM		5	1637	B X06 S		13
169	3	190		C	SX,@*74@		7	1642	C Q18 Q72		13
170	3	200		BU	DIOG3		5	1649	B P85 /		13
171	3	210		B	GETSR		4	1654	B M15		13
172	3	220		C	SX,@.NL@		7	1658	C Q18 Q69		13
173	3	230		BU	DIOG3		5	1665	B P85 /		14
174	3	240		B	SKIP		4	1670	B K00		14
175	3	250		B	GETSR		4	1674	B M15		14
176	4	010		C	SX,@*08@		7	1678	C Q18 Q75		14
177	4	020		BU	DIOG3		5	1685	B P85 /		14
178	4	030		B	GETSR		4	1690	B M15		14
179	4	040		C	SX,@.NL@		7	1694	C Q18 Q69		14
180	4	050		BU	DIOG3		5	1701	B P85 /		15
181	4	060	NUM	B	SKIP		4	1706	B K00		15
182	4	070		B	XYZ		4	1710	B V39		15
183	4	080	ASSIGN	B	GETSR		4	1714	B M15		15
184	4	090		C	SX,@*92@		7	1718	C Q18 Q78		15
185	4	100		BU	DIOG3		5	1725	B P85 /		15
186	4	110		B	GETSR		4	1730	B M15		15
187	4	120		C	SX,@*89@		7	1734	C Q18 Q81		16
188	4	130		BU	DIOG3		5	1741	B P85 /		16
189	4	140		B	XYZ		4	1746	B V39		16
190	4	150	SPECIA	B	GETSR1		4	1750	B O10		16
191	4	160		C	SX,@.PD@		7	1754	C Q18 Q30		16
192	4	170		BU	DIOG15		5	1761	B M99 /		16
193	4	180	SPECL	B	GETSR		4	1766	B M15		16
194	4	190	SPECL1	MLC	SX,HOLD		7	1770	M Q18 Q15		17
195	4	200		C	SX,@*80@		7	1777	C Q18 Q84		17
196	4	210		BE	R1402		5	1784	B Y89 S		17
197	4	220		C	SX,@*88@		7	1789	C Q18 Q87		17

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
198	4	230		BE	R1402	5		1796	B Y89 S		17
199	4	240		C	SX,@*83@	7		1801	C Q18 Q90		17
200	4	250		BE	P1403	5		1808	B Z57 S		18
201	5	010		C	SX,@*82@	7		1813	C Q18 Q93		18
202	5	020		BE	R1402	5		1820	B Y89 S		18
203	5	030		C	SX,@*86@	7		1825	C Q18 Q96		18
204	5	040		BE	CB1403	5		1832	B Z81 S		18
205	5	050		C	SX,@*85@	7		1837	C Q18 Q99		18
206	5	060		BE	CB1403	5		1844	B Z81 S		19
207	5	070		C	SX,@*87@	7		1849	C Q18 R02		19
208	5	080		BE	CB1403	5		1856	B Z81 S		19
209	5	090		C	SX,@*81@	7		1861	C Q18 R05		19
210	5	100		BE	SS1401	5		1868	B !61 S		19
211	5	110	SPP	C	SX,@.NM@	7		1873	C Q18 R08		19
212	5	120		BE	SCP	5		1880	B Z45 S		20
213	5	130		B	COULD	4		1885	B W10		20
214	5	140	R1402	B	GETSR	4		1889	B M15		20
215	5	150		C	SX,@.NL@	7		1893	C Q18 Q69		20
216	5	160		BE	R14021	5		1900	B Z17 S		20
217	5	170	R140X	C	SX,@.NM@	7		1905	C Q18 R08		20
218	5	180		BU	DIOG3	5		1912	B P85 /		20
219	5	190	R14021	B	SKIP	4		1917	B K00		21
220	5	200		B	GETSR	4		1921	B M15		21
221	5	210		C	SX,@.NM@	7		1925	C Q18 R08		21
222	5	220		BU	SPECL1	5		1932	B X70 /		21
223	5	230		B	SKIP	4		1937	B K00		21
224	5	240		B	SPECL	4		1941	B X66		21
225	5	250	SCP	B	SKIP	4		1945	B K00		21
226	6	010		B	GETSR	4		1949	B M15		22
227	6	020		B	SPECL1	4		1953	B X70		22
228	6	030	P1403	B	GETSR	4		1957	B M15		22
229	6	040		C	SX,@.NM@	7		1961	C Q18 R08		22
230	6	050		BU	DIOG3	5		1968	B P85 /		22
231	6	060		B	SKIP	4		1973	B K00		22
232	6	070		B	SPECL	4		1977	B X66		22
233	6	080	CB1403	B	GETSR	4		1981	B M15		23
234	6	090		C	SX,@*31@	7		1985	C Q18 R11		23
235	6	100		BE	ON	5		1992	B !09 S		23
236	6	110		C	SX,@*71@	7		1997	C Q18 R14		23
237	6	120		BU	DIOG3	5		2004	B P85 /		23
238	6	130	ON	B	GETSR	4		2009	B M15		23
239	6	140		C	SX,@.NM@	7		2013	C Q18 R08		23
240	6	150		BU	DIOG3	5		2020	B P85 /		24
241	6	160		B	SKIP	4		2025	B K00		24
242	6	170		B	GETSR	4		2029	B M15		24
243	6	180		C	SX,@*31@	7		2033	C Q18 R11		24
244	6	190		BE	ON	5		2040	B !09 S		24
245	6	200		C	SX,@*71@	7		2045	C Q18 R14		24
246	6	210		BE	ON	5		2052	B !09 S		24
247	6	220		B	SPECL1	4		2057	B X70		25

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
248	6	230	SS1401	B	GETSR		4	2061	B M15		25
249	6	240		C	SX,@.NM@		7	2065	C Q18 R08		25
250	6	250		BU	DIOG3		5	2072	B P85 /		25
251	7	010		B	SKIP		4	2077	B K00		25
252	7	020		B	CB1403		4	2081	B Z81		25
253	7	030	INOUT	B	GETSR		4	2085	B M15		25
254	7	040		C	SX,@*09@		7	2089	C Q18 Q36		26
255	7	050		BU	DIOG17		5	2096	B N21 /		26
256	7	060		B	GETSR1		4	2101	B Q10		26
257	7	070		C	SX,@.PD@		7	2105	C Q18 Q30		26
258	7	080		BU	DIOG15		5	2112	B M99 /		26
259	7	090		B	GETSR		4	2117	B M15		26
260	7	100		C	SX,@*96@		7	2121	C Q18 R17		26
261	7	110		BU	DIOG25		5	2128	B N43 /		27
262	7	120	K10	B	GETSR1		4	2133	B O10		27
263	7	130		C	SX,@.PD@		7	2137	C Q18 Q30		27
264	7	140		BU	DIOG15		5	2144	B M99 /		27
265	7	150	FILE	B	GETSR		4	2149	B M15		27
266	7	160	FILE1	MLC	SX,HOLD		7	2153	M Q18 Q15		27
267	7	170		C	SX,@*70@		7	2160	C Q18 R20		27
268	7	180		BE	RESER		5	2167	B K31 S		28
269	7	190		C	SX,@*77@		7	2172	C Q18 R23		28
270	7	200		BE	SELECT		5	2179	B K71 S		28
271	7	210		C	SX,@*75@		7	2184	C Q18 Q57		28
272	7	220		BE	ASG		5	2191	B K95 S		28
273	7	230		B	DIOG22		4	2196	B N65		28
274	7	240	SKIP	SBR	FINSH&3		4	2200	H K30		28
275	7	250		MLC	SX,TEMP		7	2204	M Q18 Q21		29
276	8	010	SKIP1	B	GETSR		4	2211	B M15		29
277	8	020		C	SX,TEMP		7	2215	C Q18 Q21		29
278	8	030		BU	SKIP1		5	2222	B K11 /		29
279	8	040	FINSH	B	*		4	2227	B K30		29
280	8	050	RESER	B	GETSR		4	2231	B M15		29
281	8	060		C	SX,@*33@		7	2235	C Q18 R26		29
282	8	070		BE	FILE		5	2242	B J49 S		30
283	8	080		B	GETSR		4	2247	B M15		30
284	8	090		C	SX,@1 @		7	2251	C Q18 R29		30
285	8	100		BU	DIOG3		5	2258	B P85 /		30
286	8	110		B	GETSR		4	2263	B M15		30
287	8	120		B	FILE		4	2267	B J49		30
288	8	130	SELECT	B	GETSR		4	2271	B M15		30
289	8	140		C	SX,@.NM@		7	2275	C Q18 R08		31
290	8	150		BU	DIOG3		5	2282	B P85 /		31
291	8	160		B	SKIP		4	2287	B K00		31
292	8	170		B	FILE		4	2291	B J49		31
293	8	180	ASG	B	GETSR		4	2295	B M15		31
294	8	190		C	SX,@*89@		7	2299	C Q18 Q81		31
295	8	200		BE	ASG1		5	2306	B L51 S		31
296	8	210		C	SX,@*80@		7	2311	C Q18 Q84		32
297	8	220		BE	ASG2		5	2318	B L71 S		32

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
298	8	230		C	SX,@*88@		7	2323	C Q18 Q87		32
299	8	240		BE	ASG2		5	2330	B L71 S		32
300	8	250		C	SX,@*83@		7	2335	C Q18 Q90		32
301	9	010		BE	FILE		5	2342	B J49 S		32
302	9	020		B	DIOG3		4	2347	B P85		33
303	9	030	ASG1	B	GETSR		4	2351	B M15		33
304	9	040		C	SX,@.NL@		7	2355	C Q18 Q69		33
305	9	050		BU	DIOG3		5	2362	B P85 /		33
306	9	060	ASGG	B	SKIP		4	2367	B K00		33
307	9	070	ASG2	B	GETSR		4	2371	B M15		33
308	9	080		C	SX,@.NL@		7	2375	C Q18 Q69		33
309	9	090		BE	ASGG		5	2382	B L67 S		34
310	9	100		B	FILE1		4	2387	B J53		34
311	9	110	MEMORY	B	GETSR		4	2391	B M15		34
312	9	120		C	SX,@.NL@		7	2395	C Q18 Q69		34
313	9	130		BU	DIOG3		5	2402	B P85 /		34
314	9	140		B	SKIP		4	2407	B K00		34
315	9	150		B	NOREL		4	2411	B U48		34
316	9	160	GETSR	SBR	EXIT&3		4	2415	H M87		35
317	9	170	GETB1	B	GETX		4	2419	B 335		35
318	9	180		DCW	SX		3	2425	Q18		35
319	9	190		DCW	EOP		3	2428	P96		35
320	9	200		B	PUTX		4	2429	B 363		35
321	9	210		DCW	SX		3	2435	Q18		35
322	9	220		C	SX,@.CD@		7	2436	C Q18 R32		35
323	9	230		BE	CARD		5	2443	B N76 S		36
324	9	240		C	SX,@/24@		7	2448	C Q18 R35		36
325	9	250		BE	DATA		5	2455	B P55 S		36
326	10	010		C	SX,@.DG@		7	2460	C Q18 R38		36
327	10	020		BE	DGG		5	2467	B O02 S		36
328	10	030		C	SX,@.PD@		7	2472	C Q18 Q30		36
329	10	040		BE	GETB1		5	2479	B M19 S		37
330	10	050	EXIT	B	*		4	2484	B M87		37
331	10	060	DIOG12	MLC	@B2I@,HOLD		7	2488	M R41 Q15		37
332	10	070		B	DIOG		4	2495	B O35		37
333	10	080	DIOG15	MLC	@B2G@,HOLD		7	2499	M R44 Q15		37
334	10	090		B	DIOG		4	2506	B O35		37
335	10	100	DIOG16	MLC	@B2A@,HOLD		7	2510	M R47 Q15		37
336	10	110		B	DIOG		4	2517	B O35		38
337	10	120	DIOG17	MLC	@B2H@,HOLD		7	2521	M R50 Q15		38
338	10	130		B	DIOG		4	2528	B O35		38
339	10	140	DIOG18	MLC	@B2C@,HOLD		7	2532	M R53 Q15		38
340	10	150		B	DIOG		4	2539	B O35		38
341	10	160	DIOG25	MLC	@B2E@,HOLD		7	2543	M R56 Q15		38
342	10	170		B	DIOG		4	2550	B O35		38
343	10	180	DIOG27	MLC	@B2B@,HOLD		7	2554	M R59 Q15		39
344	10	190		B	DIOG		4	2561	B O35		39
345	10	200	DIOG22	MLC	@B2D@,HOLD		7	2565	M R62 Q15		39
346	10	210		B	DIOG		4	2572	B O35		39
347	10	220	CARD	B	GETSR1		4	2576	B O10		39

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
348	10	230		MLC	SX,CARD1-3		7	2580	M Q18 Q09		39
349	10	240		B	GETSR1		4	2587	B O10		39
350	10	250		MLC	SX,CARD1		7	2591	M Q18 Q12		40
351	11	010		B	GETB1		4	2598	B M19		40
352	11	020	DGG	B	GETSR1		4	2602	B O10		40
353	11	030		B	GETB1		4	2606	B M19		40
354	11	040	GETSR1	SBR	EXIT1&3		4	2610	H O34		40
355	11	050	GOT1	B	GETX		4	2614	B 335		40
356	11	060		DCW	SX		3	2620	Q18		40
357	11	070		DCW	EOP		3	2623	P96		41
358	11	080		B	PUTX		4	2624	B 363		41
359	11	090		DCW	SX		3	2630	Q18		41
360	11	100	EXIT1	B	*		4	2631	B O34		41
361	11	110	DIOG	B	PUTX		4	2635	B 363		41
362	11	120		DCW	&@.DM@		3	2641	R65		41
363	11	130	DGX1	B	PUTX		4	2642	B 363		41
364	11	140		DCW	CARD1-3		3	2648	Q09		42
365	11	150		B	PUTX		4	2649	B 363		42
366	11	160		DCW	CARD1		3	2655	Q12		42
367	11	170		B	PUTX		4	2656	B 363		42
368	11	180		DCW	HOLD		3	2662	Q15		42
369	11	190	DIOG1	C	SX,@*98@		7	2663	C Q18 Q39		42
370	11	200		BE	K2		5	2670	B U16 S		42
371	11	210		C	SX,@*97@		7	2675	C Q18 Q54		43
372	11	220		BE	K3		5	2682	B V07 S		43
373	11	230		C	SX,@*95@		7	2687	C Q18 Q63		43
374	11	240		BE	SPECIA		5	2694	B X50 S		43
375	11	250		C	SX,@*93@		7	2699	C Q18 Q66		43
376	12	010		BE	INOUT		5	2706	B !85 S		43
377	12	020		C	SX,@*96@		7	2711	C Q18 R17		44
378	12	030		BE	K10		5	2718	B J33 S		44
379	12	040		C	SX,@*75@		7	2723	C Q18 Q57		44
380	12	050		BE	ASG		5	2730	B K95 S		44
381	12	060		C	SX,@*77@		7	2735	C Q18 R23		44
382	12	070		BE	SELECT		5	2742	B K71 S		44
383	12	080		B	GETSR		4	2747	B M15		45
384	12	090		B	DIOG1		4	2751	B O63		45
385	12	100	DATA	B	GETSR		4	2755	B M15		45
386	12	110		C	SX,@/11@		7	2759	C Q18 R68		45
387	12	120		BE	EOP		5	2766	B P96 S		45
388	12	130		MLC	SX,199		7	2771	M Q18 199		45
389	12	140		B	SUPER		4	2778	B 351		45
390	12	150		DCW	@BD2@		3	2784			46
391	12	160	DIOG3	B	PUTX		4	2785	B 363		46
392	12	170		DCW	&@.ZD@		3	2791	R71		46
393	12	180		B	DGX1		4	2792	B O42		46
394	12	190	EOP	SW	1000		4	2796	, |00		46
395	12	200		B	SUPER		4	2800	B 351		46
396	12	210		DCW	@BD6@		3	2806			46
397	12	220	CARD1	DCW	#6		6	2812			47

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
398	12	230	HOLD	DCW	#3		3	2815			47
399	12	240	SX	DCW	#3		3	2818			47
400	12	250	TEMP	DCW	#3		3	2821			47
401	13	010		LTORG					2822		
				DCW	@*91@		3	2824		LIT	47
					@*06@		3	2827		LIT	47
					@.PD@		3	2830		LIT	47
					@*94@		3	2833		LIT	48
					@*09@		3	2836		LIT	48
					@*98@		3	2839		LIT	48
					@*84@		3	2842		LIT	48
					@*76@		3	2845		LIT	48
					@*90@		3	2848		LIT	48
					@*99@		3	2851		LIT	48
					@*97@		3	2854		LIT	49
					@*75@		3	2857		LIT	49
					@*72@		3	2860		LIT	49
					@*95@		3	2863		LIT	49
					@*93@		3	2866		LIT	49
					@.NL@		3	2869		LIT	49
					@*74@		3	2872		LIT	49
					@*08@		3	2875		LIT	50
					@*92@		3	2878		LIT	50
					@*89@		3	2881		LIT	50
					@*80@		3	2884		LIT	50
					@*88@		3	2887		LIT	50
					@*83@		3	2890		LIT	50
					@*82@		3	2893		LIT	50
					@*86@		3	2896		LIT	51
					@*85@		3	2899		LIT	51
					@*87@		3	2902		LIT	51
					@*81@		3	2905		LIT	51
					@.NM@		3	2908		LIT	51
					@*31@		3	2911		LIT	51
					@*71@		3	2914		LIT	51
					@*96@		3	2917		LIT	52
					@*70@		3	2920		LIT	52
					@*77@		3	2923		LIT	52
					@*33@		3	2926		LIT	52
					@1 @		3	2929		LIT	52
					@.CD@		3	2932		LIT	52
					@/24@		3	2935		LIT	52
					@.DG@		3	2938		LIT	53
					@B2I@		3	2941		LIT	53
					@B2G@		3	2944		LIT	53
					@B2A@		3	2947		LIT	53
					@B2H@		3	2950		LIT	53
					@B2C@		3	2953		LIT	53
					@B2E@		3	2956		LIT	53
					@B2B@		3	2959		LIT	54

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
					@B2D@		3	2962		LIT	54
					@.DM@		3	2965		LIT	54
					@/11@		3	2968		LIT	54
					@.ZD@		3	2971		LIT	54
402	13	020		ORG					2972		
403	13	030		DCW	@}@		1	2972			54
404	13	040		END					/ 000 080		55

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	010	000	JOB	1401 COBOL - BD2						
102	1	020		CTL	661111						
103	1	030		ORG	1300				1300		
104	1	040	SUPER	EQU	351			0351			
105	1	050	X1	EQU	89			0089			
106	1	060	X2	EQU	94			0094			
107	1	070	X3	EQU	99			0099			
108	1	080	GETX	EQU	335			0335			
109	1	090	PUTX	EQU	363			0363			
110	1	100		C	199,@*06@	7		1300	C 199	E55	4
111	1	110		BU	DIOG17	5		1307	B C96	/	4
112	1	120		B	GETSR	4		1312	B ?08		4
113	1	130		C	SX,@.PD@	7		1316	C E51	E58	4
114	1	140		BU	DIOG18	5		1323	B D07	/	4
115	1	150		B	GETSR	4		1328	B ?08		4
116	1	160		C	SX,@*29@	7		1332	C E51	E61	4
117	1	170		BE	FILEX	5		1339	B !49	S	5
118	1	180		C	SX,@/01@	7		1344	C E51	E64	5
119	1	190		BE	WRK	5		1351	B U26	S	5
120	1	200		C	SX,@/09@	7		1356	C E51	E67	5
121	1	210		BU	DIOG19	5		1363	B D18	/	5
122	1	220	XR12	BCE	DIOG20,CONSW,1	8		1368	B D33	E29 1	5
123	1	230		A	@1@,CONSW	7		1376	A E68	E29	6
124	1	240	XR	B	GETSR	4		1383	B ?08		6
125	1	250		C	SX,@*09@	7		1387	C E51	E71	6
126	2	010		BU	DIOG21	5		1394	B D44	/	6
127	2	020		B	GETSX	4		1399	B O76		6
128	2	030		SBR	EXRB&3,RECORD	7		1403	H O55	V40	6
129	2	040		SBR	YZ1&3	4		1410	H W66		6
130	2	050		SBR	YZ2&3	4		1414	H W81		7
131	2	060		SBR	DEXRB&3	4		1418	H O70		7
132	2	070		B	RECORD	4		1422	B V40		7
133	2	080	WRK	BCE	DIOG22,WRKSW,1	8		1426	B D55	E30 1	7
134	2	090		A	@1@,WRKSW	7		1434	A E68	E30	7
135	2	100		B	XR	4		1441	B T83		7
136	2	110	FILE	B	GETSX	4		1445	B O76		7
137	2	120	FILE1	MLC	SX,HOLDS	7		1449	M E51	E48	8
138	2	130		C	SX,@/26@	7		1456	C E51	E74	8
139	2	140		BE	FD	5		1463	B W87	S	8
140	2	150		C	SX,@/06@	7		1468	C E51	E77	8
141	2	160		BE	RECNG	5		1475	B J36	S	8
142	2	170		C	SX,@/16@	7		1480	C E51	E80	8
143	2	180		BE	BLOCK	5		1487	B J82	S	9
144	2	190		C	SX,@/11@	7		1492	C E51	E83	9
145	2	200		BE	RECORS	5		1499	B K84	S	9
146	2	210		C	SX,@/19@	7		1504	C E51	E86	9
147	2	220		BE	LABEL	5		1511	B L19	S	9

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	2	230		C	SX,@/13@	7		1516	C E51 E89		9
149	2	240		BE	VALUE	5		1523	B M62 S		10
150	2	250		C	SX,@/24@	7		1528	C E51 E92		10
151	3	010		BE	DATA	5		1535	B N93 S		10
152	3	020	RECORD	MLC	SX,HOLDS	7		1540	M E51 E48		10
153	3	030		C	SX,@/10@	7		1547	C E51 E95		10
154	3	040		BE	XA	5		1554	B D81 S		10
155	3	050		C	SX,@/05@	7		1559	C E51 E98		11
156	3	060		BE	XA	5		1566	B D81 S		11
157	3	070		C	SX,@/14@	7		1571	C E51 F01		11
158	3	080		BE	XA	5		1578	B D81 S		11
159	3	090		C	SX,@/18@	7		1583	C E51 F04		11
160	3	100		BE	XA	5		1590	B D81 S		11
161	3	110		C	SX,@/23@	7		1595	C E51 F07		12
162	3	120		BE	XA	5		1602	B D81 S		12
163	3	130		C	SX,@)12@	7		1607	C E51 F10		12
164	3	140		BE	XA	5		1614	B D81 S		12
165	3	150		C	SX,@/07@	7		1619	C E51 F13		12
166	3	160		BE	XAA	5		1626	B D77 S		12
167	3	170		C	SX,@/12@	7		1631	C E51 F16		13
168	3	180		BE	XA	5		1638	B D81 S		13
169	3	190		C	SX,@/13@	7		1643	C E51 E89		13
170	3	200		BE	VALUE1	5		1650	B L74 S		13
171	3	210		B	CONTIN	4		1655	B M89		13
172	3	220	YZ	B	GETSX	4		1659	B O76		13
173	3	230	YZ1	BCE	FILE1,SX-2, /	8		1663	B U49 E49 /		14
174	3	240		C	SX,@)12@	7		1671	C E51 F10		14
175	3	250	YZ2	BE	FILE1	5		1678	B U49 S		14
176	4	010		B	DIOG7	4		1683	B Y30		14
177	4	020	FD	B	GETSR	4		1687	B ?08		14
178	4	030		MLC	@FD@,SAVE1	7		1691	M F18 E45		14
179	4	040		ZA	&0,SWCLR	7		1698	? F19 E28		15
180	4	050		CW	SWX	4		1705	) E31		15
181	4	060		C	SX,@.NM@	7		1709	C E51 F22		15
182	4	070		B	SXB1	4		1716	B E09		15
183	4	080	DIOG	SBR	ME&3,DIGG	7		1720	H X58 X59		15
184	4	090		B	PUTX	4		1727	B 363		15
185	4	100		DCW	&.DZ@	3		1733	F25		15
186	4	110	DIG7	B	PUTX	4		1734	B 363		16
187	4	120		DCW	CARD1-3	3		1740	E40		16
188	4	130		B	PUTX	4		1741	B 363		16
189	4	140		DCW	CARD1	3		1747	E43		16
190	4	150		B	PUTX	4		1748	B 363		16
191	4	160		DCW	HOLDS	3		1754	E48		16
192	4	170	ME	B	*	4		1755	B X58		16
193	4	180	DIGG	B	GETSR	4		1759	B ?08		17
194	4	190	DIGGZ	MLC	@N@,LXR1	7		1763	M F26 C38		17
195	4	200		BW	ERR0,SRA	8		1770	V Y55 E52 1		17
196	4	210		C	SX,@.PD@	7		1778	C E51 E58		17
197	4	220		BE	POD1	5		1785	B A65 S		17

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
198	4	230	SPDG	B	GETSR		4	1790	B ?08		17
199	4	240		BCE	YZ1,SX-2, /		8	1794	B W63 E49 /		18
200	4	250		C	SX,@)12@		7	1802	C E51 F10		18
201	5	010		BE	YZ1		5	1809	B W63 S		18
202	5	020		C	SX,*01@		7	1814	C E51 F29		18
203	5	030		BE	DONE1		5	1821	B C89 S		18
204	5	040		B	DIGG		4	1826	B X59		18
205	5	050	DIOG7	MLC	@B50@,HOLDS		7	1830	M F32 E48		19
206	5	060	DIOGG	SBR	ME&3,SPDG		7	1837	H X58 X90		19
207	5	070	DIOGX	B	PUTX		4	1844	B 363		19
208	5	080		DCW	&.DM@		3	1850	F35		19
209	5	090		B	DIG7		4	1851	B X34		19
210	5	100	ERR0	CW	SRA		4	1855	) E52		19
211	5	110		B	GETSR		4	1859	B ?08		19
212	5	120		C	SX,@/01@		7	1863	C E51 E64		20
213	5	130		BE	WRK		5	1870	B U26 S		20
214	5	140		C	SX,*01@		7	1875	C E51 F29		20
215	5	150		BE	DONE1		5	1882	B C89 S		20
216	5	160		C	SX,*29@		7	1887	C E51 E61		20
217	5	170		BE	FILEX		5	1894	B !49 S		20
218	5	180		C	SX,@/09@		7	1899	C E51 E67		21
219	5	190		BE	XR12		5	1906	B T68 S		21
220	5	200		B	ERR0		4	1911	B Y55		21
221	5	210	DIOG8	MLC	@B4A@,HOLDS		7	1915	M F38 E48		21
222	5	220		B	DIOGG		4	1922	B Y37		21
223	5	230	EOP	SW	1001		4	1926	, |01		21
224	5	240		B	SUPER		4	1930	B 351		21
225	5	250		DCW	@BD6@		3	1936			22
226	6	010	DIOG9	MLC	@B4B@,HOLDS		7	1937	M F41 E48		22
227	6	020		B	DIOGG		4	1944	B Y37		22
228	6	030	DIOG10	MLC	@B4C@,HOLDS		7	1948	M F44 E48		22
229	6	040		B	DIOGG		4	1955	B Y37		22
230	6	050	DIOG11	SBR	ME&3		4	1959	H X58		22
231	6	060		MLC	@B4D@,HOLDS		7	1963	M F47 E48		22
232	6	070		B	DIOGG1		4	1970	B J71		23
233	6	080	DIOG12	SBR	ME&3		4	1974	H X58		23
234	6	090		MLC	@B4E@,HOLDS		7	1978	M F50 E48		23
235	6	100		B	DIOGG1		4	1985	B J71		23
236	6	110	DIOG13	SBR	ME&3		4	1989	H X58		23
237	6	120		MLC	@B4F@,HOLDS		7	1993	M F53 E48		23
238	6	130		B	DIOGG1		4	2000	B J71		23
239	6	140	DIOG14	SBR	ME&3		4	2004	H X58		24
240	6	150		MLC	@B4G@,HOLDS		7	2008	M F56 E48		24
241	6	160		B	DIOGG1		4	2015	B J71		24
242	6	170	DIOG15	SBR	ME&3		4	2019	H X58		24
243	6	180		MLC	@B4H@,HOLDS		7	2023	M F59 E48		24
244	6	190		B	DIOGG1		4	2030	B J71		24
245	6	200	DIOG16	SBR	ME&3		4	2034	H X58		24
246	6	210		MLC	@B4I@,HOLDS		7	2038	M F62 E48		25
247	6	220		B	DIOGG1		4	2045	B J71		25

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
248	6	230	FILEX	B	GETSR		4	2049	B ?08		25
249	6	240		C	SX,@*09@		7	2053	C E51 E71		25
250	6	250		BU	DIOG21		5	2060	B D44 /		25
251	7	010		BCE	DIOG8,WRKSW,1		8	2065	B Z15 E30 1		25
252	7	020		BCE	DIOG9,CONSW,1		8	2073	B Z37 E29 1		26
253	7	030		SBR	DEXRB&3,FILE1		7	2081	H O70 U49		26
254	7	040		SBR	YZ2&3		4	2088	H W81		26
255	7	050		SBR	EXRB&3		4	2092	H O55		26
256	7	060		SBR	YZ1&3		4	2096	H W66		26
257	7	070		B	GETSR		4	2100	B ?08		26
258	7	080		C	SX,@.PD@		7	2104	C E51 E58		26
259	7	090		BU	DIOG18		5	2111	B D07 /		27
260	7	100		B	GETSR		4	2116	B ?08		27
261	7	110		C	SX,@/26@		7	2120	C E51 E74		27
262	7	120		BU	DIOG23		5	2127	B D66 /		27
263	7	130		B	FD		4	2132	B W87		27
264	7	140	RECNG	B	GETSR		4	2136	B ?08		27
265	7	150		A	@1@,RESW		7	2140	A E68 E25		27
266	7	160		B	GETSR		4	2147	B ?08		28
267	7	170		C	SX,@1 @		7	2151	C E51 F65		28
268	7	180		BU	DIOG10		5	2158	B Z48 /		28
269	7	190		B	GETSR		4	2163	B ?08		28
270	7	200		B	YZ		4	2167	B W59		28
271	7	210	DIOGG1	MLC	@B@,LXR1		7	2171	M F66 C38		28
272	7	220		B	DIOGX		4	2178	B Y44		28
273	7	230	BLOCK	B	GETSR		4	2182	B ?08		29
274	7	240		C	SX,@.NL@		7	2186	C E51 F69		29
275	7	250		BU	DIOG		5	2193	B X20 /		29
276	8	010		A	@1@,BLOCKS		7	2198	A E68 E26		29
277	8	020		B	SKIP		4	2205	B C46		29
278	8	030		B	GETSX		4	2209	B O76		29
279	8	040		C	SX,@/11@		7	2213	C E51 E83		29
280	8	050		BU	YZ1		5	2220	B W63 /		30
281	8	060		B	GETSX		4	2225	B O76		30
282	8	070		MLC	SX,HOLDS		7	2229	M E51 E48		30
283	8	080		C	SX,@/19@		7	2236	C E51 E86		30
284	8	090		BE	LABEL		5	2243	B L19 S		30
285	8	100		C	SX,@/24@		7	2248	C E51 E92		30
286	8	110		BE	DATA		5	2255	B N93 S		31
287	8	120		C	SX,@/06@		7	2260	C E51 E77		31
288	8	130		BE	RECNG		5	2267	B J36 S		31
289	8	140		C	SX,@/11@		7	2272	C E51 E83		31
290	8	150		BU	RECOR2		5	2279	B K95 /		31
291	8	160	RECORDS	B	GETSR		4	2284	B ?08		31
292	8	170		A	@1@,RECSW		7	2288	A E68 E27		32
293	8	180	RECOR2	C	SX,@.NL@		7	2295	C E51 F69		32
294	8	190		BU	DIOG		5	2302	B X20 /		32
295	8	200		B	SKIP		4	2307	B C46		32
296	8	210		B	PAUSE		4	2311	B O44		32
297	8	220		B	RECOR2		4	2315	B K95		32

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
298	8	230	LABEL	B	GETSR		4	2319	B ?08		32
299	8	240		A	@1@,LABSW		7	2323	A E68 E24		33
300	8	250		C	SX,@/11@		7	2330	C E51 E83		33
301	9	010		BU	DIOG		5	2337	B X20 /		33
302	9	020		B	GETSR		4	2342	B ?08		33
303	9	030		C	SX,@/08@		7	2346	C E51 F72		33
304	9	040		BE	YZ		5	2353	B W59 S		33
305	9	050		C	SX,@*14@		7	2358	C E51 F75		34
306	9	060		BU	DIOG		5	2365	B X20 /		34
307	9	070		B	YZ		4	2370	B W59		34
308	9	080	VALUE1	B	GETSR		4	2374	B ?08		34
309	9	090	VALUE2	C	SX-1,@\$0@		7	2378	C E50 F77		34
310	9	100		BE	YZ		5	2385	B W59 S		34
311	9	110		C	SX,\$40@		7	2390	C E51 F80		34
312	9	120		BE	VALUE1		5	2397	B L74 S		35
313	9	130		C	SX,@.NL@		7	2402	C E51 F69		35
314	9	140		BE	AK1		5	2409	B M26 S		35
315	9	150		C	SX,@ @@		7	2414	C E51 F83		35
316	9	160		BU	DIOG		5	2421	B X20 /		35
317	9	170	AK1	B	SKIP		4	2426	B C46		35
318	9	180		B	PAUSE		4	2430	B O44		35
319	9	190		C	SX,@.NL@		7	2434	C E51 F69		36
320	9	200		BE	AK1		5	2441	B M26 S		36
321	9	210		C	SX,@*08@		7	2446	C E51 F86		36
322	9	220		BU	DIOG		5	2453	B X20 /		36
323	9	230		B	VALUE1		4	2458	B L74		36
324	9	240	VALUE	B	GETSR		4	2462	B ?08		36
325	9	250		C	SX,@*32@		7	2466	C E51 F89		36
326	10	010		BU	VALUE2		5	2473	B L78 /		37
327	10	020		A	@1@,VALSW		7	2478	A E68 E28		37
328	10	030		B	GETSR		4	2485	B ?08		37
329	10	040	CONTIN	C	SX,@/32@		7	2489	C E51 F92		37
330	10	050		BE	NUML		5	2496	B N49 S		37
331	10	060		C	SX,@/30@		7	2501	C E51 F95		37
332	10	070		BE	NUML		5	2508	B N49 S		38
333	10	080		C	SX,@/31@		7	2513	C E51 F98		38
334	10	090		BE	NUML		5	2520	B N49 S		38
335	10	100		C	SX,@/25@		7	2525	C E51 G01		38
336	10	110		BE	ALPHA		5	2532	B N73 S		38
337	10	120		C	SX,@/02@		7	2537	C E51 G04		38
338	10	130		BU	DIOG7		5	2544	B Y30 /		39
339	10	140	NUML	B	GETSR		4	2549	B ?08		39
340	10	150	NMN	C	SX,@.NL@		7	2553	C E51 F69		39
341	10	160	NUML1	BU	DIOG		5	2560	B X20 /		39
342	10	170	NMM	B	SKIP		4	2565	B C46		39
343	10	180		B	FILE		4	2569	B U45		39
344	10	190	ALPHA	B	GETSR		4	2573	B ?08		39
345	10	200		C	SX,@ @@		7	2577	C E51 F83		40
346	10	210		BE	NMM		5	2584	B N65 S		40
347	10	220		B	NMN		4	2589	B N53		40

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
348	10	230	DATA	B	GETSR		4	2593	B ?08		40
349	10	240		A	@1@,DATAS		7	2597	A E68 E23		40
350	10	250		C	SX,@/11@		7	2604	C E51 E83		40
351	11	010		BU	DIOG		5	2611	B X20 /		40
352	11	020		B	GETSR		4	2616	B ?08		41
353	11	030	DATA1	C	SX,@.NM@		7	2620	C E51 F22		41
354	11	040		BU	DIOG		5	2627	B X20 /		41
355	11	050		B	SKIP		4	2632	B C46		41
356	11	060		B	PAUSE		4	2636	B O44		41
357	11	070		B	DATA1		4	2640	B O20		41
358	11	080	PAUSE	SBR	EXIT1&3		4	2644	H O75		41
359	11	090		B	GETSX		4	2648	B O76		42
360	11	100	EXRB	BCE	FILE1,SX-2, /		8	2652	B U49 E49 /		42
361	11	110		C	SX,@)12@		7	2660	C E51 F10		42
362	11	120	DEXRB	BE	FILE1		5	2667	B U49 S		42
363	11	130	EXIT1	B	*		4	2672	B O75		42
364	11	140	GETSX	SBR	EXTK&3		4	2676	H Q76		42
365	11	150	GETSX1	B	GETX		4	2680	B 335		42
366	11	160		DCW	SX		3	2686	E51		43
367	11	170		DCW	EOP		3	2689	Z26		43
368	11	180		B	PUTX		4	2690	B 363		43
369	11	190		DCW	SX		3	2696	E51		43
370	11	200	GETSX2	C	SX,@.DG@		7	2697	C E51 G07		43
371	11	210		BU	GRB1		5	2704	B P17 /		43
372	11	220		B	GETSR1		4	2709	B B25		43
373	11	230		B	GETSR1		4	2713	B B25		44
374	11	240	GRB1	C	SX,@.CD@		7	2717	C E51 G10		44
375	11	250		BE	CARD		5	2724	B A17 S		44
376	12	010		C	SX,@/03@		7	2729	C E51 G13		44
377	12	020		BE	GETSX1		5	2736	B O80 S		44
378	12	030		C	SX,@/22@		7	2741	C E51 G16		44
379	12	040		BE	GETSX1		5	2748	B O80 S		45
380	12	050		C	SX,@\$08@		7	2753	C E51 G19		45
381	12	060		BE	GETSX1		5	2760	B O80 S		45
382	12	070		C	SX,@/04@		7	2765	C E51 G22		45
383	12	080		BE	GETSX1		5	2772	B O80 S		45
384	12	090		C	SX,@/21@		7	2777	C E51 G25		45
385	12	100		BE	GETSX1		5	2784	B O80 S		46
386	12	110		C	SX,@/20@		7	2789	C E51 G28		46
387	12	120		BE	GETSX1		5	2796	B O80 S		46
388	12	130		C	SX,@\$10@		7	2801	C E51 G31		46
389	12	140		BE	GETSX1		5	2808	B O80 S		46
390	12	150		C	SX,@\$16@		7	2813	C E51 G34		46
391	12	160		BE	GETSX1		5	2820	B O80 S		47
392	12	170		C	SX,@.PD@		7	2825	C E51 E58		47
393	12	180		BE	PERIOD		5	2832	B Q77 S		47
394	12	190	EXIT7	C	SX,@*01@		7	2837	C E51 F29		47
395	12	200		BE	DONE1		5	2844	B C89 S		47
396	12	210		C	SX,@/01@		7	2849	C E51 E64		47
397	12	220		BE	WORK		5	2856	B C77 S		48

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
398	12	230		C	SX,@/09@		7	2861	C E51 E67		48
399	12	240		BE	XR12		5	2868	B T68 S		48
400	12	250	EXTK	B	*		4	2873	B Q76		48
401	13	010	PERIOD	B	GETSR1		4	2877	B B25		48
402	13	020		C	SX,@.DG@		7	2881	C E51 G07		48
403	13	030		BU	PERD		5	2888	B R01 /		48
404	13	040		B	GETSR1		4	2893	B B25		49
405	13	050		B	GETSR1		4	2897	B B25		49
406	13	060	PERD	C	SX,@.CD@		7	2901	C E51 G10		49
407	13	070		BU	CHECKS		5	2908	B ?65 /		49
408	13	080		B	CARD		4	2913	B A17		49
409	13	090		C	SX,@.NL@		7	2917	C E51 F69		49
410	13	100		BU	CHECKS		5	2924	B ?65 /		49
411	13	110		B	GETSR1		4	2929	B B25		50
412	13	120		C	SX,@01 @		7	2933	C E51 G37		50
413	13	130		BE	L01		5	2940	B B50 S		50
414	13	140	LV1	MLC	@ @,SAVE1		7	2945	M G39 E45		50
415	13	150		B	GETSR		4	2952	B ?08		50
416	13	160		B	GETSR		4	2956	B ?08		50
417	13	170		C	SX,@/23@		7	2960	C E51 F07		50
418	13	180		BE	GETSX1		5	2967	B O80 S		51
419	13	190		C	SX,@.NM@		7	2972	C E51 F22		51
420	13	200		BU	DIOG23		5	2979	B D66 /		51
421	13	210		B	SKIP		4	2984	B C46		51
422	13	220		B	GETSR1		4	2988	B B25		51
423	13	230		C	SX,@.CD@		7	2992	C E51 G10		51
424	13	240		BE	DIOG18		5	2999	B D07 S		51
425	13	250		B	GETSX2		4	3004	B O97		52
426	14	010	GETSR	SBR	EXIT8&3		4	3008	H ?64		52
427	14	020	GETP	B	GETX		4	3012	B 335		52
428	14	030		DCW	SX		3	3018	E51		52
429	14	040		DCW	EOP		3	3021	Z26		52
430	14	050		B	PUTX		4	3022	B 363		52
431	14	060		DCW	SX		3	3028	E51		52
432	14	070		C	SX,@.DG@		7	3029	C E51 G07		53
433	14	080		BU	XXX8		5	3036	B ?49 /		53
434	14	090		B	GETSR1		4	3041	B B25		53
435	14	100		B	GETSR1		4	3045	B B25		53
436	14	110	XXX8	C	SX,@.CD@		7	3049	C E51 G10		53
437	14	120		BE	CARD		5	3056	B A17 S		53
438	14	130	EXIT8	B	*		4	3061	B ?64		53
439	14	140	CHECKS	C	SX,@*01@		7	3065	C E51 F29		54
440	14	150		BE	EXIT7		5	3072	B Q37 S		54
441	14	160		C	SX,@/01@		7	3077	C E51 E64		54
442	14	170		BE	EXIT7		5	3084	B Q37 S		54
443	14	180		C	SX,@/26@		7	3089	C E51 E74		54
444	14	190		BE	EXIT7		5	3096	B Q37 S		54
445	14	200		C	SX,@/09@		7	3101	C E51 E67		55
446	14	210		BU	DIOG7		5	3108	B Y30 /		55
447	14	220		B	EXIT7		4	3113	B Q37		55

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
448	14	230	CARD	SBR	EXIT7A&3	4		3117	H A64		55
449	14	240		MLC	EXIT8&3,KEEPS	7		3121	M ?64 E37		55
450	14	250		B	GETSR	4		3128	B ?08		55
451	15	010		MLC	SX,CARD1-3	7		3132	M E51 E40		55
452	15	020		B	GETSR	4		3139	B ?08		56
453	15	030		MLC	SX,CARD1	7		3143	M E51 E43		56
454	15	040		B	GETSR	4		3150	B ?08		56
455	15	050		MLC	KEEPS,EXIT8&3	7		3154	M E37 ?64		56
456	15	060	EXIT7A	B	*	4		3161	B A64		56
457	15	070	POD1	B	GETSR1	4		3165	B B25		56
458	15	080		C	SX,@.DG@	7		3169	C E51 G07		56
459	15	090		BU	POD3	5		3176	B A89 /		57
460	15	100		B	GETSR1	4		3181	B B25		57
461	15	110		B	GETSR1	4		3185	B B25		57
462	15	120	POD3	C	SX,@.CD@	7		3189	C E51 G10		57
463	15	130		BU	DIGGZ	5		3196	B X63 /		57
464	15	140		B	CARD	4		3201	B A17		57
465	15	150		C	SX,@.NL@	7		3205	C E51 F69		57
466	15	160		BU	DIGGZ	5		3212	B X63 /		58
467	15	170		B	GETSR1	4		3217	B B25		58
468	15	180		B	LV1	4		3221	B R45		58
469	15	190	GETSR1	SBR	DXRB&3	4		3225	H B49		58
470	15	200		B	GETX	4		3229	B 335		58
471	15	210		DCW	SX	3		3235	E51		58
472	15	220		DCW	EOP	3		3238	Z26		58
473	15	230		B	PUTX	4		3239	B 363		59
474	15	240		DCW	SX	3		3245	E51		59
475	15	250	DXRB	B	*	4		3246	B B49		59
476	16	010	L01	BW	LV1,SWX	8		3250	V R45 E31 1		59
477	16	020		SW	SWX	4		3258	, E31		59
478	16	030		C	SAVE1,@FD@	7		3262	C E45 F18		59
479	16	040		BU	LV1	5		3269	B R45 /		59
480	16	050		BCE	DIOG11,DATAS,0	8		3274	B Z59 E23 0		60
481	16	060		BCE	DIOG12,LABSW,0	8		3282	B Z74 E24 0		60
482	16	070		C	RESW,@1@	7		3290	C E25 E68		60
483	16	080		BL	DIOG13	5		3297	B Z89 T		60
484	16	090		C	BLOCKS,@1@	7		3302	C E26 E68		60
485	16	100		BL	DIOG14	5		3309	B !04 T		61
486	16	110		C	RECSW,@1@	7		3314	C E27 E68		61
487	16	120		BL	DIOG15	5		3321	B !19 T		61
488	16	130		C	VALSW,@1@	7		3326	C E28 E68		61
489	16	140		BL	DIOG16	5		3333	B !34 T		61
490	16	150	LXR1	NOP	DIGG	4		3338	N X59		61
491	16	160		B	LV1	4		3342	B R45		61
492	16	170	SKIP	SBR	SKIPEX&3	4		3346	H C76		62
493	16	180		MLC	SX,TEMP	7		3350	M E51 E34		62
494	16	190	SKIP1	B	GETSR	4		3357	B ?08		62
495	16	200		C	SX,TEMP	7		3361	C E51 E34		62
496	16	210		BU	SKIP1	5		3368	B C57 /		62
497	16	220	SKIPEX	B	*	4		3373	B C76		62

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
498	16	230	WORK	BCE	DIOG9,CONSW,1		8	3377	B Z37 E29	1	62
499	16	240		B	XR		4	3385	B T83		63
500	16	250	DONE1	B	SUPER		4	3389	B 351		63
501	17	010		DCW	@BD3@		3	3395			63
502	17	020	DIOG17	MLC	@B5Q@,HOLDS		7	3396	M G42 E48		63
503	17	030		B	DIOGG		4	3403	B Y37		63
504	17	040	DIOG18	MLC	@B5J@,HOLDS		7	3407	M G45 E48		63
505	17	050		B	DIOGG		4	3414	B Y37		63
506	17	060	DIOG19	MLC	@B5K@,HOLDS		7	3418	M G48 E48		64
507	17	070		SW	SRA		4	3425	, E52		64
508	17	080		B	DIOGG		4	3429	B Y37		64
509	17	090	DIOG20	MLC	@B5L@,HOLDS		7	3433	M G51 E48		64
510	17	100		B	DIOGG		4	3440	B Y37		64
511	17	110	DIOG21	MLC	@B5P@,HOLDS		7	3444	M G54 E48		64
512	17	120		B	DIOGG		4	3451	B Y37		64
513	17	130	DIOG22	MLC	@B5M@,HOLDS		7	3455	M G57 E48		65
514	17	140		B	DIOGG		4	3462	B Y37		65
515	17	150	DIOG23	MLC	@B5N@,HOLDS		7	3466	M G60 E48		65
516	17	160		B	DIOGG		4	3473	B Y37		65
517	17	170	XAA	B	GETSX		4	3477	B O76		65
518	17	180	XA	B	GETSX		4	3481	B O76		65
519	17	190		BCE	YZ1,SX-2,/		8	3485	B W63 E49 /		65
520	17	200		C	SX,@)12@		7	3493	C E51 F10		66
521	17	210		BE	YZ1		5	3500	B W63 S		66
522	17	220		B	XA		4	3505	B D81		66
523	17	230	SXB1	BU	DIOG		5	3509	B X20 /		66
524	17	240		B	SKIP		4	3514	B C46		66
525	17	250		B	YZ		4	3518	B W59		66
526	18	010		DCW	#1		1	3522			66
527	18	020	DATAS	DC	#1		1	3523			67
528	18	030	LABSW	DC	#1		1	3524			67
529	18	040	RESW	DC	#1		1	3525			67
530	18	050	BLOCKS	DC	#1		1	3526			67
531	18	060	RECSW	DC	#1		1	3527			67
532	18	070	VALSW	DC	#1		1	3528			67
533	18	080	SWCLR	EQU	*			3528			
534	18	090	CONSW	DCW	#1		1	3529			67
535	18	100	WRKSW	DCW	#1		1	3530			67
536	18	110	SWX	DC	#1		1	3531			67
537	18	120	TEMP	DCW	#3		3	3534			67
538	18	130	KEEPS	DCW	#3		3	3537			67
539	18	140	CARD1	DCW	#6		6	3543			68
540	18	150	SAVE1	DCW	#2		2	3545			68
541	18	160	HOLDS	DCW	#3		3	3548			68
542	18	170	SX	DCW	#3		3	3551			68
543	18	180	SRA	DC	#1		1	3552			68
544	18	190		LTORG					3553		
				DCW	@*06@		3	3555		LIT	68
					@.PD@		3	3558		LIT	68
					@*29@		3	3561		LIT	68

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
					@/01@		3	3564		LIT	69
					@/09@		3	3567		LIT	69
					@1@		1	3568		LIT	69
					@*09@		3	3571		LIT	69
					@/26@		3	3574		LIT	69
					@/06@		3	3577		LIT	69
					@/16@		3	3580		LIT	69
					@/11@		3	3583		LIT	70
					@/19@		3	3586		LIT	70
					@/13@		3	3589		LIT	70
					@/24@		3	3592		LIT	70
					@/10@		3	3595		LIT	70
					@/05@		3	3598		LIT	70
					@/14@		3	3601		LIT	70
					@/18@		3	3604		LIT	71
					@/23@		3	3607		LIT	71
					@)12@		3	3610		LIT	71
					@/07@		3	3613		LIT	71
					@/12@		3	3616		LIT	71
					@FD@		2	3618		LIT	71
					&0		1	3619		LIT	71
					@.NM@		3	3622		LIT	72
					@.DZ@		3	3625		LIT	72
					@N@		1	3626		LIT	72
					@*01@		3	3629		LIT	72
					@B50@		3	3632		LIT	72
					@.DM@		3	3635		LIT	72
					@B4A@		3	3638		LIT	72
					@B4B@		3	3641		LIT	73
					@B4C@		3	3644		LIT	73
					@B4D@		3	3647		LIT	73
					@B4E@		3	3650		LIT	73
					@B4F@		3	3653		LIT	73
					@B4G@		3	3656		LIT	73
					@B4H@		3	3659		LIT	73
					@B4I@		3	3662		LIT	74
					@1 @		3	3665		LIT	74
					@B@		1	3666		LIT	74
					@.NL@		3	3669		LIT	74
					@/08@		3	3672		LIT	74
					@*14@		3	3675		LIT	74
					@\$0@		2	3677		LIT	74
					@\$40@		3	3680		LIT	75
					@ @@		3	3683		LIT	75
					@*08@		3	3686		LIT	75
					@*32@		3	3689		LIT	75
					@/32@		3	3692		LIT	75
					@/30@		3	3695		LIT	75
					@/31@		3	3698		LIT	75
					@/25@		3	3701		LIT	76

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
					@/02@		3	3704		LIT	76
					@.DG@		3	3707		LIT	76
					@.CD@		3	3710		LIT	76
					@/03@		3	3713		LIT	76
					@/22@		3	3716		LIT	76
					@\$08@		3	3719		LIT	76
					@/04@		3	3722		LIT	77
					@/21@		3	3725		LIT	77
					@/20@		3	3728		LIT	77
					@\$10@		3	3731		LIT	77
					@\$16@		3	3734		LIT	77
					@01 @		3	3737		LIT	77
					@ @		2	3739		LIT	77
					@B5Q@		3	3742		LIT	78
					@B5J@		3	3745		LIT	78
					@B5K@		3	3748		LIT	78
					@B5L@		3	3751		LIT	78
					@B5P@		3	3754		LIT	78
					@B5M@		3	3757		LIT	78
					@B5N@		3	3760		LIT	78
545	18	200		ORG					3761		
546	18	210		DCW	@}@		1	3761			79
547	18	220		END					/ 000 080		80

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

1401 COBOL - BD3 PAGE 1

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
101	1	010	000	JOB	1401 COBOL - BD3						
102	1	020		CTL	661111						
103	1	030		ORG	1300				1300		
104	1	040	X1	EQU	89			0089			
105	1	050	X2	EQU	94			0094			
106	1	060	X3	EQU	99			0099			
107	1	070	GETX	EQU	335			0335			
108	1	080	PUTX	EQU	363			0363			
109	1	090	SUPER	EQU	351			0351			
110	1	100		B	GETSR	4		1300	B Q31		4
111	1	110		C	SX,@*06@	7		1304	C B73 B89		4
112	1	120		BU	DIOG1	5		1311	B W51 /		4
113	1	130		B	GETSR	4		1316	B Q31		4
114	1	140		C	SX,@.PD@	7		1320	C B73 B92		4
115	1	150		BU	DIOG2	5		1327	B W62 /		4
116	1	160	DOD	B	GETSX	4		1332	B L32		4
117	1	170		BCE	VERB,SX-2,)	8		1336	B T48 B71)		5
118	1	180		B	DIOG3	4		1344	B W73		5
119	1	190	VERB	MLC	SX,SAVE	7		1348	M B73 B67		5
120	1	200		MLC	@B@,GETS8	7		1355	M B93 M88		5
121	1	210		MLC	@B@,GETS7	7		1362	M B93 L65		5
122	1	220		MLC	@B@,PRA	7		1369	M B93 L60		6
123	1	230		MLC	&BEGIN,X2	7		1376	M B96 094		6
124	1	240	RETURN	BCE	TEND,0&X2,\$	8		1383	B Y66 0!0 \$		6
125	1	250		MLC	0&X2,0&X2	7		1391	M 0!0 0!0		6
126	2	010		SBR	X2	4		1398	H 094		6
127	2	020		C	3&X2,SX	7		1402	C 0!3 B73		7
128	2	030		BU	RETURN	5		1409	B T83 /		7
129	2	040		A	@4@,X2	7		1414	A B97 094		7
130	2	050		MLC	X2,HOLD	7		1421	M 094 B55		7
131	2	060	A	B	GETSX	4		1428	B L32		7
132	2	070	A1	BCE	ALPLIT,0&X2,X	8		1432	B J94 0!0 X		7
133	2	080		BCE	NAME,0&X2,N	8		1440	B J01 0!0 N		8
134	2	090		BCE	PAUSE,2&X2,,	8		1448	B Z11 0!2 ,		8
135	2	100		BCE	DONE,2&X2,.	8		1456	B Z22 0!2 .		8
136	2	110		BCE	INCL,0&X2,*	8		1464	B ?43 0!0 *		8
137	2	120		BCE	REP,0&X2,R	8		1472	B ?10 0!0 R		9
138	2	130		BCE	ALPH,0&X2,A	8		1480	B X06 0!0 A		9
139	2	140	DET	BCE	READ,2&X2,0	8		1488	B Z84 0!2 0		9
140	2	150		BCE	WRITE,2&X2,1	8		1496	B !41 0!2 1		9
141	2	160		BCE	OPEN,2&X2,3	8		1504	B W16 0!2 3		10
142	2	170		C	TEMP,@.NM@	7		1512	C B86 C00		10
143	2	180		BU	DET2	5		1519	B V96 /		10
144	2	190		C	SX,@*16@	7		1524	C B73 C03		10
145	2	200		BU	DET7	5		1531	B V60 /		10
146	2	210	DET3	B	GETSX	4		1536	B L32		10
147	2	220		C	SX,@.NM@	7		1540	C B73 C00		11

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	2	230		BU	DIOG	5		1547	B Q78 /		11
149	2	240		B	SKIP	4		1552	B R56		11
150	2	250		B	PAUSE1	4		1556	B Z44		11
151	3	010	DET7	C	SX,@*10@	7		1560	C B73 C06		11
152	3	020		BE	DET4	5		1567	B V88 S		11
153	3	030	DET6	C	SX,@/10@	7		1572	C B73 C09		11
154	3	040		BE	DONE1	5		1579	B Z33 S		12
155	3	050		B	OUTPUT	4		1584	B Z76		12
156	3	060	DET4	B	PAUSE1	4		1588	B Z44		12
157	3	070		B	DET6	4		1592	B V72		12
158	3	080	DET2	B	PAUSK	4		1596	B Z03		12
159	3	090		C	SX,@*16@	7		1600	C B73 C03		12
160	3	100		BU	DIOG	5		1607	B Q78 /		12
161	3	110		B	DET3	4		1612	B V36		13
162	3	120	OPEN	C	SX,@*20@	7		1616	C B73 C12		13
163	3	130		BE	OPEN1	5		1623	B W40 S		13
164	3	140		C	SX,@*15@	7		1628	C B73 C15		13
165	3	150		BU	DIOG	5		1635	B Q78 /		13
166	3	160	OPEN1	A	@3@,X2	7		1640	A C16 094		13
167	3	170		B	A	4		1647	B U28		13
168	3	180	DIOG1	MLC	@B0D@,SAVE	7		1651	M C19 B67		14
169	3	190		B	DGG7	4		1658	B W95		14
170	3	200	DIOG2	MLC	@B0C@,SAVE	7		1662	M C22 B67		14
171	3	210		B	DGG7	4		1669	B W95		14
172	3	220	DIOG3	MLC	@B0A@,SAVE	7		1673	M C25 B67		14
173	3	230		B	DGG7	4		1680	B W95		14
174	3	240	DIOG4	MLC	@B0B@,SAVE	7		1684	M C28 B67		15
175	3	250		B	DGG7	4		1691	B W95		15
176	4	010	DGG7	B	PUTX	4		1695	B 363		15
177	4	020		DCW	&@.DM@	3		1701	C31		15
178	4	030		B	DIGG71	4		1702	B Q85		15
179	4	040	ALPH	BCE	ONLY,2&X2,1	8		1706	B Y14 012 1		15
180	4	050		C	SX-1,@\$0@	7		1714	C B72 C33		15
181	4	060		BE	FIG	5		1721	B X62 S		16
182	4	070		BCE	A0X,SX,@	8		1726	B X58 B73 @		16
183	4	080		C	SX,@.NM@	7		1734	C B73 C00		16
184	4	090		BE	A0X	5		1741	B X58 S		16
185	4	100		C	SX,@.NL@	7		1746	C B73 C36		16
186	4	110		BU	DIOG	5		1753	B Q78 /		16
187	4	120	A0X	B	SKIP	4		1758	B R56		17
188	4	130	FIG	B	GETSX	4		1762	B L32		17
189	4	140		C	SX-1,@\$0@	7		1766	C B72 C33		17
190	4	150		BE	FIG	5		1773	B X62 S		17
191	4	160		BCE	A0X,SX,@	8		1778	B X58 B73 @		17
192	4	170		C	SX,@.NM@	7		1786	C B73 C00		17
193	4	180		BE	A0X	5		1793	B X58 S		18
194	4	190		C	SX,@.NL@	7		1798	C B73 C36		18
195	4	200		BE	A0X	5		1805	B X58 S		18
196	4	210		B	NAONE	4		1810	B J41		18
197	4	220	ONLY	C	SX-1,@\$0@	7		1814	C B72 C33		18

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
198	4	230		BE	OPEN1		5	1821	B W40 S		18
199	4	240		BCE	A0Z, SX, @		8	1826	B Y58 B73 @		19
200	4	250		C	SX, @.NM@		7	1834	C B73 C00		19
201	5	010		BE	A0Z		5	1841	B Y58 S		19
202	5	020		C	SX, @.NL@		7	1846	C B73 C36		19
203	5	030		BU	DIOG		5	1853	B Q78 /		19
204	5	040	A0Z	B	SKIP		4	1858	B R56		19
205	5	050		B	OPEN1		4	1862	B W40		20
206	5	060	TEND	MLC	@N@, GETS7		7	1866	M C37 L65		20
207	5	070		MLC	@N@, GETS8		7	1873	M C37 M88		20
208	5	080		MLC	@N@, PRA		7	1880	M C37 L60		20
209	5	090	TEND1	B	GETSX		4	1887	B L32		20
210	5	100		BCE	VERB, SX-2,)		8	1891	B T48 B71)		20
211	5	110		B	TEND1		4	1899	B Y87		21
212	5	120	PAUSK	SBR	EXIT&3		4	1903	H Z75		21
213	5	130		B	PAUS1		4	1907	B Z52		21
214	5	140	PAUSE	MLC	&NAONE, EXIT&3		7	1911	M C40 Z75		21
215	5	150		B	PAUS1		4	1918	B Z52		21
216	5	160	DONE	MLC	&VERB, EXIT&3		7	1922	M C43 Z75		21
217	5	170		B	PAUS1		4	1929	B Z52		21
218	5	180	DONE1	MLC	&VERB, EXIT&3		7	1933	M C46 Z75		22
219	5	190		B	PAUS		4	1940	B Z48		22
220	5	200	PAUSE1	SBR	EXIT&3		4	1944	H Z75		22
221	5	210	PAUS	B	GETSX		4	1948	B L32		22
222	5	220	PAUS1	BCE	VERB, SX-2,)		8	1952	B T48 B71)		22
223	5	230		C	SX, @.PD@		7	1960	C B73 B92		22
224	5	240		BE	D0D		5	1967	B T32 S		22
225	5	250	EXIT	B	*		4	1972	B Z75		23
226	6	010	OUTPUT	B	PAUSK		4	1976	B Z03		23
227	6	020		B	DIOG		4	1980	B Q78		23
228	6	030	READ	C	SX, @/11@		7	1984	C B73 C49		23
229	6	040		BE	READ3		5	1991	B Q70 S		23
230	6	050	READ4	C	SX, @*27@		7	1996	C B73 C52		23
231	6	060		BE	DETT		5	2003	B !25 S		23
232	6	070	DET9	C	SX, @)17@		7	2008	C B73 C55		24
233	6	080		BU	OUTPUT		5	2015	B Z76 /		24
234	6	090		BE	DONE1		5	2020	B Z33 S		24
235	6	100	DETT	B	GETSX		4	2025	B L32		24
236	6	110		B	ONE3		4	2029	B J52		24
237	6	120		B	GETSX		4	2033	B L32		24
238	6	130		B	DET9		4	2037	B !08		24
239	6	140	WRITE	C	SX, @*28@		7	2041	C B73 C58		25
240	6	150		BU	DET15		5	2048	B !65 /		25
241	6	160		B	GETSX		4	2053	B L32		25
242	6	170		B	ONE3		4	2057	B J52		25
243	6	180		B	PAUSE1		4	2061	B Z44		25
244	6	190	DET15	C	SX, @*22@		7	2065	C B73 C61		25
245	6	200		BE	DET12		5	2072	B !89 S		25
246	6	210		C	SX, @*17@		7	2077	C B73 C64		26
247	6	220		BU	OUTPUT		5	2084	B Z76 /		26

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
248	6	230	DET12	B	GETSX	4		2089	B L32		26
249	6	240		B	ONCE2	4		2093	B K77		26
250	6	250		B	DONE1	4		2097	B Z33		26
251	7	010	NAME	BCE	ONE, 2&X2, 1	8		2101	B J60	0!2 1	26
252	7	020		C	SX, @.NM@	7		2109	C B73	C00	26
253	7	030		BU	DIOG	5		2116	B Q78	/	27
254	7	040	NAMONE	B	SKIP	4		2121	B R56		27
255	7	050		B	GETSX	4		2125	B L32		27
256	7	060		C	SX, @.NM@	7		2129	C B73	C00	27
257	7	070		BE	NAMONE	5		2136	B J21	S	27
258	7	080	NAONE	A	@3@, X2	7		2141	A C16	094	27
259	7	090		B	A1	4		2148	B U32		27
260	7	100	ONE3	SBR	ONE2&3	4		2152	H J93		28
261	7	110		B	ONE4	4		2156	B J67		28
262	7	120	ONE	MLC	&A, ONE2&3	7		2160	M C67	J93	28
263	7	130	ONE4	C	SX, @.NM@	7		2167	C B73	C00	28
264	7	140		BU	DIOG	5		2174	B Q78	/	28
265	7	150	ONE1	B	SKIP	4		2179	B R56		28
266	7	160	ONEONE	A	@3@, X2	7		2183	A C16	094	28
267	7	170	ONE2	B	A	4		2190	B U28		29
268	7	180	ALPLIT	BCE	ONCE, 2&X2, 1	8		2194	B K85	0!2 1	29
269	7	190		MLC	&NAONE, NAB&3	7		2202	M C70	K76	29
270	7	200		B	ALLP	4		2209	B K17		29
271	7	210	ALLPA	SBR	NAB&3	4		2213	H K76		29
272	7	220	ALLP	C	SX, @.NM@	7		2217	C B73	C00	29
273	7	230		BE	ALIT1	5		2224	B K41	S	29
274	7	240		C	SX, @.NL@	7		2229	C B73	C36	30
275	7	250		BU	DIOG	5		2236	B Q78	/	30
276	8	010	ALIT1	B	SKIP	4		2241	B R56		30
277	8	020		B	GETSX	4		2245	B L32		30
278	8	030		C	SX, @.NM@	7		2249	C B73	C00	30
279	8	040		BE	ALIT1	5		2256	B K41	S	30
280	8	050		C	SX, @.NL@	7		2261	C B73	C36	30
281	8	060		BE	ALIT1	5		2268	B K41	S	31
282	8	070	NAB	B	NAONE	4		2273	B J41		31
283	8	080	ONCE2	SBR	ONE2&3	4		2277	H J93		31
284	8	090		B	ONCE1	4		2281	B K92		31
285	8	100	ONCE	MLC	&A, ONE2&3	7		2285	M C73	J93	31
286	8	110	ONCE1	C	SX, @.NM@	7		2292	C B73	C00	31
287	8	120		BE	ONE1	5		2299	B J79	S	31
288	8	130		C	SX, @\$08@	7		2304	C B73	C76	32
289	8	140		BE	ONEONE	5		2311	B J83	S	32
290	8	150		C	SX, @.NL@	7		2316	C B73	C36	32
291	8	160		BU	DIOG	5		2323	B Q78	/	32
292	8	170		B	ONE1	4		2328	B J79		32
293	8	180	GETSX	SBR	EXIT1&3	4		2332	H M96		32
294	8	190	GETS1	B	GETX	4		2336	B 335		32
295	8	200		DCW	SX	3		2342	B73		33
296	8	210		DCW	EOP	3		2345	Q56		33
297	8	220		B	PUTX	4		2346	B 363		33

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
298	8	230		DCW	SX		3	2352	B73		33
299	8	240	PER1	C	SX,@A05@		7	2353	C B73	C79	33
300	8	250	PRA	BE	OUU		5	2360	B M97	S	33
301	9	010	GETS7	BCE	OUS,SX,%		8	2365	B N58	B73 %	33
302	9	020		C	SX,*02@		7	2373	C B73	C82	34
303	9	030		BE	GETS1		5	2380	B L36	S	34
304	9	040		C	SX,@#DC@		7	2385	C B73	C85	34
305	9	050		BE	OXB		5	2392	B R06	S	34
306	9	060		C	SX,*25@		7	2397	C B73	C88	34
307	9	070		BE	GETS1		5	2404	B L36	S	34
308	9	080		C	SX,*24@		7	2409	C B73	C91	35
309	9	090		BE	NOTE1		5	2416	B Q11	S	35
310	9	100		C	SX,\$40@		7	2421	C B73	C94	35
311	9	110		BE	GAT		5	2428	B O34	S	35
312	9	120		C	SX,@.DG@		7	2433	C B73	C97	35
313	9	130		BE	DIG		5	2440	B N50	S	35
314	9	140		C	SX,@.LB@		7	2445	C B73	D00	36
315	9	150		BE	LABEL1		5	2452	B P21	S	36
316	9	160		C	SX,@.CD@		7	2457	C B73	D03	36
317	9	170		BE	CARD		5	2464	B O79	S	36
318	9	180		C	SX,\$32@		7	2469	C B73	D06	36
319	9	190		BE	GETS1		5	2476	B L36	S	36
320	9	200		C	SX,*32@		7	2481	C B73	D09	37
321	9	210	GETS8	BE	GETS2		5	2488	B N12	S	37
322	9	220	EXIT1	B	*		4	2493	B M96		37
323	9	230	OUU	MLC	@.NM@,SX		7	2497	M C00	B73	37
324	9	240		SW	SS1		4	2504	, B74		37
325	9	250		B	EXIT1		4	2508	B M93		37
326	10	010	GETS2	MLC	EXIT1&3,KEEP6		7	2512	M M96	B77	37
327	10	020		B	GETSX		4	2519	B L32		38
328	10	030		C	SX,@.NM@		7	2523	C B73	C00	38
329	10	040		BU	DIOG		5	2530	B Q78	/	38
330	10	050		B	SKIP		4	2535	B R56		38
331	10	060		MLC	KEEP6,EXIT1&3		7	2539	M B77	M96	38
332	10	070		B	GETS1		4	2546	B L36		38
333	10	080	DIG	B	GETSR		4	2550	B Q31		38
334	10	090		B	GETS1		4	2554	B L36		39
335	10	100	OUS	C	SAVE,@)10@		7	2558	C B67	D12	39
336	10	110		BE	DIOG		5	2565	B Q78	S	39
337	10	120		C	SAVE,@)14@		7	2570	C B67	D15	39
338	10	130		BE	DIOG		5	2577	B Q78	S	39
339	10	140		MLC	EXIT1&3,KEEP8		7	2582	M M96	B80	39
340	10	150		B	GETSX		4	2589	B L32		39
341	10	160		MLC	NAB&3,KEEP9		7	2593	M K76	B83	40
342	10	170		B	ALLPA		4	2600	B K13		40
343	10	180		MLC	KEEP9,NAB&3		7	2604	M B83	K76	40
344	10	190		C	SX,@)@		7	2611	C B73	D18	40
345	10	200		BU	DIOG		5	2618	B Q78	/	40
346	10	210		MLC	KEEP8,EXIT1&3		7	2623	M B80	M96	40
347	10	220		B	GETS1		4	2630	B L36		41

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
348	10	230	GAT	MLC	EXIT1&3,TAT4#3	7		2634	M M96 D21		41
349	10	240		B	GETSX	4		2641	B L32		41
350	10	250		C	SX,@.NL@	7		2645	C B73 C36		41
351	11	010		BE	DIO23	5		2652	B O68 S		41
352	11	020		MLC	TAT4,EXIT1&3	7		2657	M D21 M96		41
353	11	030		B	PER1	4		2664	B L53		41
354	11	040	DIO23	MLC	@B8E@,SAVE	7		2668	M D24 B67		42
355	11	050		B	DGG7	4		2675	B W95		42
356	11	060	CARD	B	GETSR	4		2679	B Q31		42
357	11	070		MLC	SX,CARD1-3	7		2683	M B73 B58		42
358	11	080		B	GETSR	4		2690	B Q31		42
359	11	090		MLC	SX,CARD1	7		2694	M B73 B61		42
360	11	100		B	GETSR	4		2701	B Q31		42
361	11	110		C	SX,@.PD@	7		2705	C B73 B92		43
362	11	120		BE	GETS1	5		2712	B L36 S		43
363	11	130		B	GETS7	4		2717	B L65		43
364	11	140	LABEL1	B	GETSR	4		2721	B Q31		43
365	11	150		BCE	DIOG30,SX-2,)	8		2725	B R99 B71)		43
366	11	160		BCE	DIOG30,SX-2,*	8		2733	B R99 B71 *		43
367	11	170		C	SX,@.LB@	7		2741	C B73 D00		44
368	11	180		BU	LABEL1	5		2748	B P21 /		44
369	11	190	LABEL2	B	GETSR	4		2753	B Q31		44
370	11	200		C	SX,@*09@	7		2757	C B73 D27		44
371	11	210		BE	LABEL2	5		2764	B P53 S		44
372	11	220		C	SX,@.PD@	7		2769	C B73 B92		44
373	11	230		BU	DIOG4	5		2776	B W84 /		45
374	11	240		MLC	EXIT1&3,KEEPS	7		2781	M M96 B64		45
375	11	250		B	GETSX	4		2788	B L32		45
376	12	010		MLC	KEEPS,EXIT1&3	7		2792	M B64 M96		45
377	12	020		BCE	VERB,SX-2,)	8		2799	B T48 B71)		45
378	12	030		B	DIOG3	4		2807	B W73		45
379	12	040	NOTE1	B	GETSR	4		2811	B Q31		45
380	12	050		C	SX,@*24@	7		2815	C B73 C91		46
381	12	060		BU	NOTE1	5		2822	B Q11 /		46
382	12	070		B	GETS1	4		2827	B L36		46
383	12	080	GETSR	SBR	ENDX&3	4		2831	H Q55		46
384	12	090		B	GETX	4		2835	B 335		46
385	12	100		DCW	SX	3		2841	B73		46
386	12	110		DCW	EOP	3		2844	Q56		46
387	12	120		B	PUTX	4		2845	B 363		47
388	12	130		DCW	SX	3		2851	B73		47
389	12	140	ENDX	B	*	4		2852	B Q55		47
390	12	150	EOP	B	PUTX	4		2856	B 363		47
391	12	160		DCW	SX	3		2862	B73		47
392	12	170		B	SUPER	4		2863	B 351		47
393	12	180		DCW	@BD4@	3		2869			47
394	12	190	READ3	B	GETSX	4		2870	B L32		48
395	12	200		B	READ4	4		2874	B Z96		48
396	12	210	DIOG	B	PUTX	4		2878	B 363		48
397	12	220		DCW	&@.DK@	3		2884	D30		48

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
398	12	230	DIGG71	B	PUTX		4	2885	B 363		48
399	12	240		DCW	CARD1-3		3	2891	B58		48
400	12	250		B	PUTX		4	2892	B 363		48
401	13	010		DCW	CARD1		3	2898	B61		49
402	13	020		B	PUTX		4	2899	B 363		49
403	13	030		DCW	SAVE		3	2905	B67		49
404	13	040	AXB	B	GETSR		4	2906	B Q31		49
405	13	050		C	SX,@.CD@		7	2910	C B73 D03		49
406	13	060		BU	AXB1		5	2917	B R44 /		49
407	13	070		B	GETSR		4	2922	B Q31		49
408	13	080		MLC	SX,CARD1-3		7	2926	M B73 B58		50
409	13	090		B	GETSR		4	2933	B Q31		50
410	13	100		MLC	SX,CARD1		7	2937	M B73 B61		50
411	13	110	AXB1	BCE	VERB,SX-2,)		8	2944	B T48 B71)		50
412	13	120		B	AXB		4	2952	B R06		50
413	13	130	SKIP	SBR	EXR1&3		4	2956	H R98		50
414	13	140		MLC	SX,TEMP		7	2960	M B73 B86		51
415	13	150		BW	H01,SS1		8	2967	V R91 B74 1		51
416	13	160	SKIPER	B	GETSR		4	2975	B Q31		51
417	13	170		C	SX,TEMP		7	2979	C B73 B86		51
418	13	180		BU	SKIPER		5	2986	B R75 /		51
419	13	190	H01	CW	SS1		4	2991	) B74		51
420	13	200	EXR1	B	*		4	2995	B R98		51
421	13	210	DIOG30	MLC	@B9B@,SAVE		7	2999	M D33 B67		52
422	13	220		B	DGG7		4	3006	B W95		52
423	13	230	REP	MLC	HOLD,TEMP		7	3010	M B55 B86		52
424	13	240		SW	1&X2		4	3017	, 0!1		52
425	13	250		A	2&X2,TEMP		7	3021	A 0!2 B86		52
426	14	010		CW	1&X2		4	3028	) 0!1		52
427	14	020		MLC	TEMP,X2		7	3032	M B86 094		53
428	14	030		B	A1		4	3039	B U32		53
429	14	040	INCL	C	2&X2,SX		7	3043	C 0!2 B73		53
430	14	050		BU	DIOG		5	3050	B Q78 /		53
431	14	060		A	@3@,X2		7	3055	A C16 094		53
432	14	070		B	A		4	3062	B U28		53
433	14	080		DCW	@\$@		1	3066			53
434	14	090		DCW	@)07N01 ,*28N01 .@		18	3084			54
435	14	100		DCW	@)20 ,X01 ,X0M*03N01 .@		24	3108			55
436	14	110		DCW	@)10X01*11X01 ,R00@		18	3126			56
437	14	120		DCW	@)06X01*27X01E0S@		15	3141			56
438	14	130		DCW	@)18X01X0ME0S@		12	3153			57
439	14	140		DCW	@)01X0M*28X01E0S@		15	3168			57
440	14	150		DCW	@)04A0M ,*23N01 .@		18	3186			58
441	14	160		DCW	@)15A01NOM .@		12	3198			58
442	14	170		DCW	@)02X01*35X01E0S@		15	3213			59
443	14	180		DCW	@)14E03NOM ,R00@		15	3228			59
444	14	190		DCW	@)13N01 ,E00@		12	3240			60
445	14	200		DCW	@)08N01 ,E01@		12	3252			60
446	14	210	BEGIN	EQU	*			3252			
447	14	220	HOLD	DCW	#3		3	3255			60

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
448	14	230	CARD1	DCW	#6		6	3261			60
449	14	240	KEEPS	DCW	#3		3	3264			60
450	14	250	SAVE	DCW	#3		3	3267			60
451	15	010	PRO	DCW	@*01@		3	3270			61
452	15	020	SX	DCW	#3		3	3273			61
453	15	030	SS1	DC	#1		1	3274			61
454	15	040	KEEP6	DCW	#3		3	3277			61
455	15	050	KEEP8	DCW	#3		3	3280			61
456	15	060	KEEP9	DCW	#3		3	3283			61
457	15	070	TEMP	DCW	#3		3	3286			61
458	15	080		LTORG					3287		
				DCW	@*06@		3	3289		LIT	61
					@.PD@		3	3292		LIT	62
					@B@		1	3293		LIT	62
	123				&BEGIN		3	3296	B52	ADCON	62
					@4@		1	3297		LIT	62
					@.NM@		3	3300		LIT	62
					@*16@		3	3303		LIT	62
					@*10@		3	3306		LIT	62
					@/10@		3	3309		LIT	63
					@*20@		3	3312		LIT	63
					@*15@		3	3315		LIT	63
					@3@		1	3316		LIT	63
					@B0D@		3	3319		LIT	63
					@B0C@		3	3322		LIT	63
					@B0A@		3	3325		LIT	63
					@B0B@		3	3328		LIT	64
					@.DM@		3	3331		LIT	64
					@\$0@		2	3333		LIT	64
					@.NL@		3	3336		LIT	64
					@N@		1	3337		LIT	64
	214				&NAONE		3	3340	J41	ADCON	64
	216				&VERB		3	3343	T48	ADCON	64
	218				&VERB		3	3346	T48	ADCON	65
					@/11@		3	3349		LIT	65
					@*27@		3	3352		LIT	65
					@)17@		3	3355		LIT	65
					@*28@		3	3358		LIT	65
					@*22@		3	3361		LIT	65
					@*17@		3	3364		LIT	65
	262				&A		3	3367	U28	ADCON	66
	269				&NAONE		3	3370	J41	ADCON	66
	285				&A		3	3373	U28	ADCON	66
					@\$08@		3	3376		LIT	66
					@A05@		3	3379		LIT	66
					@*02@		3	3382		LIT	66
					@#DC@		3	3385		LIT	66
					@*25@		3	3388		LIT	67
					@*24@		3	3391		LIT	67
					@\$40@		3	3394		LIT	67

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
					@.DG@	3		3397		LIT	67
					@.LB@	3		3400		LIT	67
					@.CD@	3		3403		LIT	67
					@\$32@	3		3406		LIT	67
					@*32@	3		3409		LIT	68
					@)10@	3		3412		LIT	68
					@)14@	3		3415		LIT	68
					@)@	3		3418		LIT	68
	348		TAT4		#03	3		3421		AREA	68
					@B8E@	3		3424		LIT	68
					@*09@	3		3427		LIT	68
					@.DK@	3		3430		LIT	69
					@B9B@	3		3433		LIT	69
459	15	090		ORG					3434		
460	15	100		DCW	@}@	1		3434			69
461	15	110		END					/ 000 080		70

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

1401 COBOL - BD4

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SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
101	1	010	000	JOB	1401 COBOL - BD4						
102	1	020		CTL	661111						
103	1	030		ORG	1300				1300		
104	1	040	SUPER	EQU	351			0351			
105	1	050	X1	EQU	89			0089			
106	1	060	X2	EQU	94			0094			
107	1	070	X3	EQU	99			0099			
108	1	080	GETX	EQU	335			0335			
109	1	090	PUTX	EQU	363			0363			
110	1	100	HRB	B	GETSR	4		1300	B !15		4
111	1	110		C	SX,@/24@	7		1304	C K68 K71		4
112	1	120		BU	HRB	5		1311	B T00 /		4
113	1	130	HR1	B	GETSR	4		1316	B !15		4
114	1	140	HR2	MLC	SX,HOLDS	7		1320	M K68 K52		4
115	1	150		C	SX,@*29@	7		1327	C K68 K74		4
116	1	160		BE	FILLE	5		1334	B U51 S		4
117	1	170		C	SX,@/01@	7		1339	C K68 K77		5
118	1	180		BE	FILLE	5		1346	B U51 S		5
119	1	190		C	SX,@/09@	7		1351	C K68 K80		5
120	1	200		BE	FILLE	5		1358	B U51 S		5
121	1	210		C	SX,@/10@	7		1363	C K68 K83		5
122	1	220		BE	SIZE	5		1370	B U92 S		5
123	1	230		C	SX,@/05@	7		1375	C K68 K86		6
124	1	240		BE	REDEF	5		1382	B U77 S		6
125	1	250		C	SX,@/14@	7		1387	C K68 K89		6
126	2	010		BE	OCCURS	5		1394	B W00 S		6
127	2	020		C	SX,@/18@	7		1399	C K68 K92		6
128	2	030		BE	POINT	5		1406	B X27 S		6
129	2	040		C	SX,@)12@	7		1411	C K68 K95		7
130	2	050		BE	PICT	5		1418	B U62 S		7
131	2	060		C	SX,@/07@	7		1423	C K68 K98		7
132	2	070		BE	JUST	5		1430	B X59 S		7
133	2	080		C	SX,@/12@	7		1435	C K68 L01		7
134	2	090		BE	OCCURS	5		1442	B W00 S		7
135	2	100		B	HR1	4		1447	B T16		8
136	2	110	FILLE	MLC	SX,HBH#3	7		1451	M K68 L04		8
137	2	120		B	HR1	4		1458	B T16		8
138	2	130	PICT	B	GETSR	4		1462	B !15		8
139	2	140		C	SX,@.PC@	7		1466	C K68 L07		8
140	2	150		B	SXB1	4		1473	B W11		8
141	2	160	REDEF	B	GETSR	4		1477	B !15		8
142	2	170		C	SX,@.NM@	7		1481	C K68 L10		9
143	2	180		B	SRRX1	4		1488	B V71		9
144	2	190	SIZE	B	GETSR	4		1492	B !15		9
145	2	200		C	SX,@.NL@	7		1496	C K68 L13		9
146	2	210		BU	DIOG	5		1503	B K18 /		9
147	2	220		B	SKIP	4		1508	B J87		9

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	2	230		B	GETSX		4	1512	B Y34		9
149	2	240		C	SX,@.NL@		7	1516	C K68 L13		10
150	2	250		BU	HRC		5	1523	B W24 /		10
151	3	010		B	SKIP		4	1528	B J87		10
152	3	020		B	GETSR		4	1532	B !15		10
153	3	030		C	SX,@*03@		7	1536	C K68 L16		10
154	3	040		BU	DIOG		5	1543	B K18 /		10
155	3	050		C	HBH,@*29@		7	1548	C L04 K74		10
156	3	060		BU	DIOG		5	1555	B K18 /		11
157	3	070	QUAL	B	GETSR		4	1560	B !15		11
158	3	080		C	SX,@.NM@		7	1564	C K68 L10		11
159	3	090	SRRX1	BU	DIOG		5	1571	B K18 /		11
160	3	100		B	SKIP		4	1576	B J87		11
161	3	110		B	GETSX		4	1580	B Y34		11
162	3	120		C	SX,@*32@		7	1584	C K68 L19		11
163	3	130		BE	QUAL		5	1591	B V60 S		12
164	3	140		B	HRC		4	1596	B W24		12
165	3	150	OCCURS	B	GETSR		4	1600	B !15		12
166	3	160		C	SX,@.NL@		7	1604	C K68 L13		12
167	3	170	SXB1	BU	DIOG		5	1611	B K18 /		12
168	3	180	HHA	B	SKIP		4	1616	B J87		12
169	3	190	HHH	B	GETSX		4	1620	B Y34		12
170	3	200	HRC	BCE	HR2,SX-2,/		8	1624	B T20 K66 /		13
171	3	210		C	SX,@)12@		7	1632	C K68 K95		13
172	3	220		BE	HR2		5	1639	B T20 S		13
173	3	230		C	SX,@.PD@		7	1644	C K68 L22		13
174	3	240		BE	OUTS		5	1651	B W74 S		13
175	3	250		B	PUTX		4	1656	B 363		13
176	4	010		DCW	&@.DM@		3	1662	L25		13
177	4	020		MLC	@B50@,HOLDS		7	1663	M L28 K52		14
178	4	030		B	DIG7		4	1670	B K25		14
179	4	040	OUTS	B	GETSX		4	1674	B Y34		14
180	4	050		C	SX,@.NL@		7	1678	C K68 L13		14
181	4	060		BU	HR1		5	1685	B T16 /		14
182	4	070		B	SKIP		4	1690	B J87		14
183	4	080		B	GETSX		4	1694	B Y34		14
184	4	090		C	SX,@/23@		7	1698	C K68 L31		15
185	4	100		BE	HHH		5	1705	B W20 S		15
186	4	110		C	SX,@.NM@		7	1710	C K68 L10		15
187	4	120		BE	HHA		5	1717	B W16 S		15
188	4	130		B	HR1		4	1722	B T16		15
189	4	140	EOP	H			1	1726	.		15
190	4	150	POINT	B	GETSR		4	1727	B !15		15
191	4	160		C	SX,@/15@		7	1731	C K68 L34		16
192	4	170		BE	OCCURS		5	1738	B W00 S		16
193	4	180		C	SX,@/17@		7	1743	C K68 L37		16
194	4	190		BU	DIOG		5	1750	B K18 /		16
195	4	200		B	OCCURS		4	1755	B W00		16
196	4	210	JUST	B	GETSR		4	1759	B !15		16
197	4	220		C	SX,@/15@		7	1763	C K68 L34		16

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
198	4	230		BE	HHH		5	1770	B W20 S		17
199	4	240		C	SX,@/17@		7	1775	C K68 L37		17
200	4	250		BU	DIOG		5	1782	B K18 /		17
201	5	010		B	HHH		4	1787	B W20		17
202	5	020	DONE1	BW	DDD,SWT7		8	1791	V Y27 K53 1		17
203	5	030		B	PUTX		4	1799	B 363		17
204	5	040		DCW	&@.DM@		3	1805	L25		17
205	5	050		B	PUTX		4	1806	B 363		18
206	5	060		DCW	CARD1-3		3	1812	K62		18
207	5	070		B	PUTX		4	1813	B 363		18
208	5	080		DCW	CARD1		3	1819	K65		18
209	5	090		B	PUTX		4	1820	B 363		18
210	5	100		DCW	&@B9A@		3	1826	L40		18
211	5	110	DDD	B	SUPER		4	1827	B 351		18
212	5	120		DCW	@BD5@		3	1833			19
213	5	130	GETSX	SBR	EXTK&3		4	1834	H !14		19
214	5	140	GETSX1	B	GETX		4	1838	B 335		19
215	5	150		DCW	SX		3	1844	K68		19
216	5	160		DCW	EOP		3	1847	X26		19
217	5	170		B	PUTX		4	1848	B 363		19
218	5	180		DCW	SX		3	1854	K68		19
219	5	190	EXIT7	C	SX,*01@		7	1855	C K68 L43		20
220	5	200		BE	DONE1		5	1862	B X91 S		20
221	5	210		C	SX,@.DG@		7	1867	C K68 L46		20
222	5	220		BU	GRB1		5	1874	B Y87 /		20
223	5	230		B	GETSR1		4	1879	B J34		20
224	5	240		B	GETSR1		4	1883	B J34		20
225	5	250	GRB1	C	SX,@.CD@		7	1887	C K68 L49		20
226	6	010		BE	CARD		5	1894	B J00 S		21
227	6	020		C	SX,@.PD@		7	1899	C K68 L22		21
228	6	030		BE	PERS		5	1906	B J79 S		21
229	6	040		CW	SWT7		4	1911	) K53		21
230	6	050	GGG	C	SX,@/03@		7	1915	C K68 L52		21
231	6	060		BE	GETSX1		5	1922	B Y38 S		21
232	6	070		C	SX,@/22@		7	1927	C K68 L55		22
233	6	080		BE	GETSX1		5	1934	B Y38 S		22
234	6	090		C	SX,@\$08@		7	1939	C K68 L58		22
235	6	100		BE	GETSX1		5	1946	B Y38 S		22
236	6	110		C	SX,@/04@		7	1951	C K68 L61		22
237	6	120		BE	GETSX1		5	1958	B Y38 S		22
238	6	130		C	SX,@/21@		7	1963	C K68 L64		23
239	6	140		BE	GETSX1		5	1970	B Y38 S		23
240	6	150		C	SX,@/20@		7	1975	C K68 L67		23
241	6	160		BE	GETSX1		5	1982	B Y38 S		23
242	6	170		C	SX,@\$10@		7	1987	C K68 L70		23
243	6	180		BE	GETSX1		5	1994	B Y38 S		23
244	6	190		C	SX,@\$16@		7	1999	C K68 L73		24
245	6	200		BE	GETSX1		5	2006	B Y38 S		24
246	6	210	EXTK	B	*		4	2011	B !14		24
247	6	220	GETSR	SBR	EXIT8&3		4	2015	H !99		24

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
248	6	230	GETP	B	GETX		4	2019	B 335		24
249	6	240		DCW	SX		3	2025	K68		24
250	6	250		DCW	EOP		3	2028	X26		24
251	7	010		B	PUTX		4	2029	B 363		25
252	7	020		DCW	SX		3	2035	K68		25
253	7	030		C	SX,@*01@		7	2036	C K68 L43		25
254	7	040		BE	DONE1		5	2043	B X91 S		25
255	7	050		C	SX,@.DG@		7	2048	C K68 L46		25
256	7	060		BU	XXX8		5	2055	B !68 /		25
257	7	070		B	GETSR1		4	2060	B J34		25
258	7	080		B	GETSR1		4	2064	B J34		26
259	7	090	XXX8	C	SX,@.CD@		7	2068	C K68 L49		26
260	7	100		BE	CARD		5	2075	B J00 S		26
261	7	110		C	SX,@.PD@		7	2080	C K68 L22		26
262	7	120		BE	PPP		5	2087	B J71 S		26
263	7	130		CW	SWT7		4	2092	) K53		26
264	7	140	EXIT8	B	*		4	2096	B !99		26
265	7	150	CARD	SBR	EXIT7A&3		4	2100	H J33		27
266	7	160		B	GETSR1		4	2104	B J34		27
267	7	170		MLC	SX,CARD1-3		7	2108	M K68 K62		27
268	7	180		B	GETSR1		4	2115	B J34		27
269	7	190		MLC	SX,CARD1		7	2119	M K68 K65		27
270	7	200		B	GETSR1		4	2126	B J34		27
271	7	210	EXIT7A	B	*		4	2130	B J33		27
272	7	220	GETSR1	SBR	DXRB&3		4	2134	H J70		28
273	7	230		B	GETX		4	2138	B 335		28
274	7	240		DCW	SX		3	2144	K68		28
275	7	250		DCW	EOP		3	2147	X26		28
276	8	010		B	PUTX		4	2148	B 363		28
277	8	020		DCW	SX		3	2154	K68		28
278	8	030		C	SX,@*01@		7	2155	C K68 L43		28
279	8	040		BE	DONE1		5	2162	B X91 S		29
280	8	050	DXRB	B	*		4	2167	B J70		29
281	8	060	PPP	SW	SWT7		4	2171	, K53		29
282	8	070		B	EXIT8		4	2175	B !96		29
283	8	080	PERS	SW	SWT7		4	2179	, K53		29
284	8	090		B	GGG		4	2183	B Z15		29
285	8	100	SKIP	SBR	SKIPEX&3		4	2187	H K17		29
286	8	110		MLC	SX,TEMP		7	2191	M K68 K56		30
287	8	120	SKIP1	B	GETSR		4	2198	B !15		30
288	8	130		C	SX,TEMP		7	2202	C K68 K56		30
289	8	140		BU	SKIP1		5	2209	B J98 /		30
290	8	150	SKIPEX	B	*		4	2214	B K17		30
291	8	160	DIOG	B	PUTX		4	2218	B 363		30
292	8	170		DCW	&@.DZ@		3	2224	L76		30
293	8	180	DIG7	B	PUTX		4	2225	B 363		31
294	8	190		DCW	CARD1-3		3	2231	K62		31
295	8	200		B	PUTX		4	2232	B 363		31
296	8	210		DCW	CARD1		3	2238	K65		31
297	8	220		B	PUTX		4	2239	B 363		31

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
298	8	230		DCW	HOLDS		3	2245	K52		31
299	8	240		B	HR1		4	2246	B T16		31
300	8	250	HOLDS	DCW	#3		3	2252			32
301	9	010	SWT7	DC	#1		1	2253			32
302	9	020	TEMP	DCW	#3		3	2256			32
303	9	030	KEEPS	DCW	#3		3	2259			32
304	9	040	CARD1	DCW	#6		6	2265			32
305	9	050	SX	DCW	#3		3	2268			32
306	9	060		LTORG					2269		
				DCW	@/24@		3	2271		LIT	32
					@*29@		3	2274		LIT	32
					@/01@		3	2277		LIT	33
					@/09@		3	2280		LIT	33
					@/10@		3	2283		LIT	33
					@/05@		3	2286		LIT	33
					@/14@		3	2289		LIT	33
					@/18@		3	2292		LIT	33
					@)12@		3	2295		LIT	33
					@/07@		3	2298		LIT	34
					@/12@		3	2301		LIT	34
136		HBH			#03		3	2304		AREA	34
					@.PC@		3	2307		LIT	34
					@.NM@		3	2310		LIT	34
					@.NL@		3	2313		LIT	34
					@*03@		3	2316		LIT	34
					@*32@		3	2319		LIT	35
					@.PD@		3	2322		LIT	35
					@.DM@		3	2325		LIT	35
					@B50@		3	2328		LIT	35
					@/23@		3	2331		LIT	35
					@/15@		3	2334		LIT	35
					@/17@		3	2337		LIT	35
					@B9A@		3	2340		LIT	36
					@*01@		3	2343		LIT	36
					@.DG@		3	2346		LIT	36
					@.CD@		3	2349		LIT	36
					@/03@		3	2352		LIT	36
					@/22@		3	2355		LIT	36
					@\$08@		3	2358		LIT	36
					@/04@		3	2361		LIT	37
					@/21@		3	2364		LIT	37
					@/20@		3	2367		LIT	37
					@\$10@		3	2370		LIT	37
					@\$16@		3	2373		LIT	37
					@.DZ@		3	2376		LIT	37
307	9	070		ORG					2377		
308	9	080		DCW	@}@		1	2377			37
309	9	090		END					/ 000 080		38

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	010	000	JOB	1401 COBOL - BD5						
102	1	020		CTL	661111						
103	1	030		ORG	1300				1300		
104	1	040	X1	EQU	89			0089			
105	1	050	X3	EQU	99			0099			
106	1	060	X2	EQU	94			0094			
107	1	070	GETX	EQU	335			0335			
108	1	080	PUTX	EQU	363			0363			
109	1	090	SUPER	EQU	351			0351			
110	1	100	X7	B	GETSR	4		1300	B C16		4
111	1	110		BCE	VERB,SX-2,)	8		1304	B T16 E26)		4
112	1	120		B	X7	4		1312	B T00		4
113	1	130	VERB	MLC	SX,HOLD	7		1316	M E28 E41		4
114	1	140		C	SX,@)03@	7		1323	C E28 E51		4
115	1	150		BE	PEFORM	5		1330	B Z67 S		4
116	1	160		C	SX,@)19@	7		1335	C E28 E54		5
117	1	170		BE	IF1	5		1342	B T87 S		5
118	1	180		C	SX,@)05@	7		1347	C E28 E57		5
119	1	190		BE	COMPT	5		1354	B O49 S		5
120	1	200		C	SX,@)09@	7		1359	C E28 E60		5
121	1	210		BE	CLOSE	5		1366	B R93 S		5
122	1	220		C	SX,@)11@	7		1371	C E28 E63		6
123	1	230		BE	STOP	5		1378	B ?57 S		6
124	1	240		B	X7	4		1383	B T00		6
125	1	250	IF1	B	GETSX	4		1387	B Y15		6
126	2	010		C	SX,@ @@	7		1391	C E28 E66		6
127	2	020		BE	IFX1	5		1398	B U55 S		6
128	2	030		BCE	BACK,SX,%	8		1403	B U99 E28 %		7
129	2	040		BCE	BACK,SX,&	8		1411	B U99 E28 &		7
130	2	050		BCE	BACK,SX,-	8		1419	B U99 E28 -		7
131	2	060		C	SX,@.NL@	7		1427	C E28 E69		7
132	2	070		BE	IFX1	5		1434	B U55 S		7
133	2	080		C	SX,@.NM@	7		1439	C E28 E72		8
134	2	090		BU	BACK7	5		1446	B U63 /		8
135	2	100		B	IF3	4		1451	B X11		8
136	2	110	IFX1	B	SKIP	4		1455	B D83		8
137	2	120		B	BACK	4		1459	B U99		8
138	2	130	BACK7	C	SX,@\$30@	7		1463	C E28 E75		8
139	2	140		BE	BACK	5		1470	B U99 S		8
140	2	150		C	SX-1,@\$0@	7		1475	C E27 E77		9
141	2	160		BE	BACK	5		1482	B U99 S		9
142	2	170		C	SX,@\$40@	7		1487	C E28 E80		9
143	2	180		BU	DIOG	5		1494	B D05 /		9
144	2	190	BACK	B	GETSX	4		1499	B Y15		9
145	2	200	BACK1	BCE	VERB,SX-2,)	8		1503	B T16 E26)		9
146	2	210		C	SX,@ @@	7		1511	C E28 E66		10
147	2	220		BE	IFX1	5		1518	B U55 S		10

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	2	230		C	SX,@.NM@		7	1523	C E28 E72		10
149	2	240		BE	BBBK		5	1530	B X95 S		10
150	2	250		C	SX,@.NL@		7	1535	C E28 E69		10
151	3	010		BE	IFX1		5	1542	B U55 S		10
152	3	020		C	SX,@\$20@		7	1547	C E28 E83		11
153	3	030		BE	GREQLS		5	1554	B W63 S		11
154	3	040		C	SX,@ #@		7	1559	C E28 E86		11
155	3	050		BE	GREQLS		5	1566	B W63 S		11
156	3	060		C	SX,@\$21@		7	1571	C E28 E89		11
157	3	070		BE	GREQLS		5	1578	B W63 S		11
158	3	080		C	SX,@\$30@		7	1583	C E28 E75		12
159	3	090		BE	NOT		5	1590	B K39 S		12
160	3	100		BCE	MULT,SX,*		8	1595	B W79 E28 *		12
161	3	110		BCE	MULT,SX,/		8	1603	B W79 E28 /		12
162	3	120		BCE	PLUS,SX,&		8	1611	B X71 E28 &		12
163	3	130		BCE	PLUS,SX,-		8	1619	B X71 E28 -		13
164	3	140		C	SX,@\$32@		7	1627	C E28 E92		13
165	3	150		BE	ANDORL		5	1634	B K99 S		13
166	3	160		C	SX,@\$31@		7	1639	C E28 E95		13
167	3	170		BE	ANDORL		5	1646	B K99 S		13
168	3	180		BCE	RPAREN,SX,)		8	1651	B L07 E28)		14
169	3	190		B	BACK		4	1659	B U99		14
170	3	200	GREQLS	B	GETSX		4	1663	B Y15		14
171	3	210		BCE	DIOG,SX-2,)		8	1667	B D05 E26)		14
172	3	220		B	BACK1		4	1675	B V03		14
173	3	230	MULT	B	GETSX		4	1679	B Y15		14
174	3	240	MULT1	BCE	DIOG,SX,*		8	1683	B D05 E28 *		15
175	3	250		BCE	DIOG,SX,/		8	1691	B D05 E28 /		15
176	4	010		BCE	DIOG,SX,)		8	1699	B D05 E28)		15
177	4	020		B	BACK1		4	1707	B V03		15
178	4	030	IF3	B	SKIP		4	1711	B D83		15
179	4	040		B	GETSX		4	1715	B Y15		15
180	4	050		C	SX,@\$02@		7	1719	C E28 E98		16
181	4	060		BE	DIOG		5	1726	B D05 S		16
182	4	070		C	SX,@\$01@		7	1731	C E28 F01		16
183	4	080		BE	DIOG		5	1738	B D05 S		16
184	4	090		C	SX,@\$09@		7	1743	C E28 F04		16
185	4	100		BE	DIOG		5	1750	B D05 S		16
186	4	110		C	SX,@\$40@		7	1755	C E28 E80		17
187	4	120		BE	DIOG		5	1762	B D05 S		17
188	4	130		B	IF4		4	1767	B Y03		17
189	4	140	PLUS	B	GETSX		4	1771	B Y15		17
190	4	150		BCE	DIOG,SX,&		8	1775	B D05 E28 &		17
191	4	160		BCE	DIOG,SX,-		8	1783	B D05 E28 -		17
192	4	170		B	MULT1		4	1791	B W83		18
193	4	180	BBBK	B	SKIP		4	1795	B D83		18
194	4	190		B	GETSX		4	1799	B Y15		18
195	4	200	IF4	BCE	SUB8,SX,%		8	1803	B A09 E28 %		18
196	4	210		B	BACK1		4	1811	B V03		18
197	4	220	GETSX	SBR	EXIT&3		4	1815	H Z35		18

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
198	4	230	GETSX1	B	GETX		4	1819	B 335		18
199	4	240		DCW	SX		3	1825	E28		19
200	4	250		DCW	EOP		3	1828	M23		19
201	5	010		B	PUTX		4	1829	B 363		19
202	5	020		DCW	SX		3	1835	E28		19
203	5	030		C	SX,@.PD@		7	1836	C E28 F07		19
204	5	040		BE	PSK		5	1843	B B88 S		19
205	5	050		CW	SST		4	1848	) E42		19
206	5	060	GGC	C	SX,@A05@		7	1852	C E28 F10		20
207	5	070		BE	SPS		5	1859	B Z36 S		20
208	5	080		C	SX,@#DC@		7	1864	C E28 F13		20
209	5	090		BE	X7		5	1871	B T00 S		20
210	5	100		C	SX,@.DG@		7	1876	C E28 F16		20
211	5	110		BE	GRX		5	1883	B Z51 S		20
212	5	120		C	SX,@.CD@		7	1888	C E28 F19		21
213	5	130		BE	CARD		5	1895	B A87 S		21
214	5	140		BCE	OUS,SX,%		8	1900	B A17 E28 %		21
215	5	150		C	SX,@*32@		7	1908	C E28 F22		21
216	5	160		BE	QUALIF		5	1915	B L35 S		21
217	5	161		C	SX,@\$32@		7	1920	C E28 E92		21
218	5	162		BE	GETSX1		5	1927	B Y19 S		22
219	5	170	EXIT	B	*		4	1932	B Z35		22
220	5	180	SPS	MLC	@.NM@,SX		7	1936	M E72 E28		22
221	5	190		SW	SS1		4	1943	, E29		22
222	5	200		B	EXIT		4	1947	B Z32		22
223	5	210	GRX	B	GETSR		4	1951	B C16		22
224	5	220		B	GETSX1		4	1955	B Y19		22
225	5	230	SKIP1	B	SKIP		4	1959	B D83		23
226	5	240		B	BACK		4	1963	B U99		23
227	5	250	PEFORM	B	GETSX		4	1967	B Y15		23
228	6	010		B	PROI		4	1971	B M97		23
229	6	020		B	GETSX		4	1975	B Y15		23
230	6	030		B	PAUSK		4	1979	B N33		23
231	6	040	PERM	C	SX,@.NM@		7	1983	C E28 E72		23
232	6	050		BE	ONCALL		5	1990	B J07 S		24
233	6	060		C	SX,@.NL@		7	1995	C E28 E69		24
234	6	070		BE	ONCALL		5	2002	B J07 S		24
235	6	080		C	SX,@*08@		7	2007	C E28 F25		24
236	6	090		BE	THRU		5	2014	B L91 S		24
237	6	100		C	SX,@*07@		7	2019	C E28 F28		24
238	6	110		BE	VARY		5	2026	B !47 S		25
239	6	120		C	SX,@*18@		7	2031	C E28 F31		25
240	6	130		BE	UNTIL		5	2038	B L59 S		25
241	6	140		B	DIOG		4	2043	B D05		25
242	6	150	VARY	B	GETSX		4	2047	B Y15		25
243	6	160		B	DATI		4	2051	B M73		25
244	6	170	FROM	B	GETSX		4	2055	B Y15		25
245	6	180		C	SX,@*28@		7	2059	C E28 F34		26
246	6	190		BU	DIOG		5	2066	B D05 /		26
247	6	200		B	GETSX		4	2071	B Y15		26

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
248	6	210		B	PROI		4	2075	B M97		26
249	6	220		B	GETSX		4	2079	B Y15		26
250	6	230		C	SX,@*35@		7	2083	C E28 F37		26
251	6	240		BU	DIOG		5	2090	B D05 /		26
252	6	250		B	GETSX		4	2095	B Y15		27
253	7	010		B	PROI		4	2099	B M97		27
254	7	020		B	UNTIL		4	2103	B L59		27
255	7	030	ONCALL	B	SKIP		4	2107	B D83		27
256	7	040		B	GETSX		4	2111	B Y15		27
257	7	050		C	SX,@ *@		7	2115	C E28 F40		27
258	7	060		BU	DIOG		5	2122	B D05 /		27
259	7	070		B	GETSX		4	2127	B Y15		28
260	7	080		B	DONE1		4	2131	B C00		28
261	7	090	HERE	B	GETSX		4	2135	B Y15		28
262	7	100		BCE	SUB,SX,%		8	2139	B J51 E28 %		28
263	7	110		B	BACK1		4	2147	B V03		28
264	7	120	SUB	B	NAME1		4	2151	B J71		28
265	7	130		C	SX,@)@		7	2155	C E28 F43		28
266	7	140		BU	DIOG		5	2162	B D05 /		29
267	7	150		B	BACK		4	2167	B U99		29
268	7	160	NAME1	SBR	FIX&3		4	2171	H K38		29
269	7	170		B	GETSX		4	2175	B Y15		29
270	7	180	PRRI	C	SX,@.NM@		7	2179	C E28 E72		29
271	7	190		BE	NAME2		5	2186	B K03 S		29
272	7	200		C	SX,@.NL@		7	2191	C E28 E69		29
273	7	210		BU	DIOG		5	2198	B D05 /		30
274	7	220	NAME2	B	SKIP		4	2203	B D83		30
275	7	230	NAAA	B	GETSX		4	2207	B Y15		30
276	7	240		C	SX,@.NM@		7	2211	C E28 E72		30
277	7	250		BE	NAME2		5	2218	B K03 S		30
278	8	010		C	SX,@.NL@		7	2223	C E28 E69		30
279	8	020		BE	NAME2		5	2230	B K03 S		30
280	8	030	FIX	B	*		4	2235	B K38		31
281	8	040	NOT	B	GETSX		4	2239	B Y15		31
282	8	050		C	SX,@\$30@		7	2243	C E28 E75		31
283	8	060		BE	DIOG		5	2250	B D05 S		31
284	8	070	NOT1	C	SX,@\$32@		7	2255	C E28 E92		31
285	8	080		BE	DIOG		5	2262	B D05 S		31
286	8	090		C	SX,@\$31@		7	2267	C E28 E95		31
287	8	100		BE	DIOG		5	2274	B D05 S		32
288	8	110		BCE	DIOG,SX-2,)		8	2279	B D05 E26)		32
289	8	120		BCE	DIOG,SX,)		8	2287	B D05 E28)		32
290	8	130		B	BACK1		4	2295	B V03		32
291	8	140	ANDORL	B	GETSX		4	2299	B Y15		32
292	8	150		B	NOT1		4	2303	B K55		32
293	8	160	RPAREN	B	GETSX		4	2307	B Y15		32
294	8	170		C	SX,@\$30@		7	2311	C E28 E75		33
295	8	180		BE	DIOG		5	2318	B D05 S		33
296	8	190		BCE	DIOG,SX,%		8	2323	B D05 E28 %		33
297	8	200		B	BACK1		4	2331	B V03		33

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
298	8	210	QUALIF	B	GETSR		4	2335	B C16		33
299	8	220		C	SX,@.NM@		7	2339	C E28	E72	33
300	8	230		BU	DIOG		5	2346	B D05	/	34
301	8	240		B	SKIP		4	2351	B D83		34
302	8	250		B	GETSX1		4	2355	B Y19		34
303	9	010	UNTIL	B	GETSR		4	2359	B C16		34
304	9	020		B	PAUSK		4	2363	B N33		34
305	9	030		C	SX,@*22@		7	2367	C E28	F46	34
306	9	040		BU	UNTIL		5	2374	B L59	/	34
307	9	050		B	GETSX		4	2379	B Y15		35
308	9	060		B	DATI		4	2383	B M73		35
309	9	070		B	FROM		4	2387	B !55		35
310	9	080	THRU	B	GETSX		4	2391	B Y15		35
311	9	090		B	PROI		4	2395	B M97		35
312	9	100		B	GETSX		4	2399	B Y15		35
313	9	110		B	PAUSK		4	2403	B N33		35
314	9	120		C	SX,@*08@		7	2407	C E28	F25	36
315	9	130		BE	DIOG		5	2414	B D05	S	36
316	9	140		B	PERM		4	2419	B Z83		36
317	9	150	EOP	BW	EOP1,SST		8	2423	V M59	E42 1	36
318	9	160		B	PUTX		4	2431	B 363		36
319	9	170		DCW	&@.DM@		3	2437	F49		36
320	9	180		B	PUTX		4	2438	B 363		36
321	9	190		DCW	CARD1-3		3	2444	E35		37
322	9	200		B	PUTX		4	2445	B 363		37
323	9	210		DCW	CARD1		3	2451	E38		37
324	9	220		B	PUTX		4	2452	B 363		37
325	9	230		DCW	&@B3A@		3	2458	F52		37
326	9	240	EOP1	B	PUTX		4	2459	B 363		37
327	9	250		DCW	SX		3	2465	E28		37
328	10	010		B	SUPER		4	2466	B 351		38
329	10	020		DCW	@BD6@		3	2472			38
330	10	030	DATI	SBR	EXIT3&3		4	2473	H M96		38
331	10	040		C	SX,@.NM@		7	2477	C E28	E72	38
332	10	050		BU	DIOG		5	2484	B D05	/	38
333	10	060		B	SKIP		4	2489	B D83		38
334	10	070	EXIT3	B	*		4	2493	B M96		38
335	10	080	PROI	SBR	EXIT1&3		4	2497	H N32		39
336	10	090		C	SX,@.NL@		7	2501	C E28	E69	39
337	10	100		BE	PRO2		5	2508	B N25	S	39
338	10	110		C	SX,@.NM@		7	2513	C E28	E72	39
339	10	120		BU	DIOG		5	2520	B D05	/	39
340	10	130	PRO2	B	SKIP		4	2525	B D83		39
341	10	140	EXIT1	B	*		4	2529	B N32		39
342	10	150	PAUSK	SBR	EXIT2&3		4	2533	H O08		40
343	10	160		C	SX,@\$32@		7	2537	C E28	E92	40
344	10	170		BE	GETSR		5	2544	B C16	S	40
345	10	180		C	SX,@.PD@		7	2549	C E28	F07	40
346	10	190		BE	X7A		5	2556	B O09	S	40
347	10	200		C	SX,@*02@		7	2561	C E28	F55	40

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
348	10	210		BE	X7		5	2568	B T00 S		41
349	10	220		C	SX,@*25@		7	2573	C E28 F58		41
350	10	230		BE	X7		5	2580	B T00 S		41
351	10	240		BCE	VERB,SX-2,)		8	2585	B T16 E26)		41
352	10	250		C	SX,@*24@		7	2593	C E28 F61		41
353	11	010		BE	X7		5	2600	B T00 S		41
354	11	020	EXIT2	B	*		4	2605	B O08		42
355	11	030	X7A	B	GETSX		4	2609	B Y15		42
356	11	040		BCE	VERB,SX-2,)		8	2613	B T16 E26)		42
357	11	050		C	SX,@.LB@		7	2621	C E28 F64		42
358	11	060		BE	X7		5	2628	B T00 S		42
359	11	070		C	SX,@*24@		7	2633	C E28 F61		42
360	11	080		BU	DIOG		5	2640	B D05 /		43
361	11	090		B	X7		4	2645	B T00		43
362	11	100	COMPT	B	GETSX		4	2649	B Y15		43
363	11	110		B	DATI		4	2653	B M73		43
364	11	120	COMP0	B	GETSX		4	2657	B Y15		43
365	11	130		BCE	SUB8,SX,%		8	2661	B A09 E28 %		43
366	11	140		BCE	COMPUT,SX,#		8	2669	B O93 E28 #		43
367	11	150		C	SX,@*10@		7	2677	C E28 F67		44
368	11	160		BU	DIOG		5	2684	B D05 /		44
369	11	170		B	COMP0		4	2689	B O57		44
370	11	180	COMPUT	B	GETSX		4	2693	B Y15		44
371	11	190	COMPP	C	SX,@.NM@		7	2697	C E28 E72		44
372	11	200		BE	COMP1		5	2704	B Q65 S		44
373	11	210		C	SX,@/10@		7	2709	C E28 F70		44
374	11	220		BE	X7		5	2716	B T00 S		45
375	11	230		C	SX,@\$08@		7	2721	C E28 F73		45
376	11	240		BE	COMP9		5	2728	B R01 S		45
377	11	250		C	SX,@.NL@		7	2733	C E28 E69		45
378	12	010		BE	COMP12		5	2740	B Q97 S		45
379	12	020		BCE	COMP3,SX,&		8	2745	B Q41 E28 &		45
380	12	030		BCE	COMP3,SX,-		8	2753	B Q41 E28 -		46
381	12	040		BCE	COMP9,SX,)		8	2761	B R01 E28)		46
382	12	050		BCE	COMP7,SX,%		8	2769	B P97 E28 %		46
383	12	060		BCE	COMP7,SX,/		8	2777	B P97 E28 /		46
384	12	070		BCE	COMP7,SX,*		8	2785	B P97 E28 *		47
385	12	080		B	DIOG		4	2793	B D05		47
386	12	090	COMP7	B	GETSX		4	2797	B Y15		47
387	12	100	COMP7A	C	SX,@.PD@		7	2801	C E28 F07		47
388	12	110		BE	DIOG		5	2808	B D05 S		47
389	12	120		BCE	DIOG,SX,*		8	2813	B D05 E28 *		47
390	12	130		BCE	DIOG,SX,/		8	2821	B D05 E28 /		48
391	12	140		BCE	DIOG,SX,)		8	2829	B D05 E28)		48
392	12	150		B	COMPP		4	2837	B O97		48
393	12	160	COMP3	B	GETSX		4	2841	B Y15		48
394	12	170		BCE	DIOG,SX,&		8	2845	B D05 E28 &		48
395	12	180		BCE	DIOG,SX,-		8	2853	B D05 E28 -		49
396	12	190		B	COMP7A		4	2861	B Q01		49
397	12	200	COMP1	B	SKIP		4	2865	B D83		49

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
398	12	210		B	GETSX		4	2869	B Y15		49
399	12	220		C	SX,@ %@		7	2873	C E28 F76		49
400	12	230		BU	OTHER		5	2880	B R13 /		49
401	12	240		B	SUB8		4	2885	B A09		49
402	12	250		B	PAUSK		4	2889	B N33		50
403	13	010		B	COMPP		4	2893	B O97		50
404	13	020	COMP12	B	SKIP		4	2897	B D83		50
405	13	030	COMP9	B	GETSX		4	2901	B Y15		50
406	13	040		BCE	DIOG,SX,%		8	2905	B D05 E28 %		50
407	13	050	OTHER	BCE	DIOG,SX-2,\$		8	2913	B D05 E26 \$		50
408	13	060		C	SX,@.NM@		7	2921	C E28 E72		50
409	13	070		BE	DIOG		5	2928	B D05 S		51
410	13	080		C	SX,@.NL@		7	2933	C E28 E69		51
411	13	090		BE	DIOG		5	2940	B D05 S		51
412	13	100		B	PAUSK		4	2945	B N33		51
413	13	110		B	COMPP		4	2949	B O97		51
414	13	120	NAME6	SBR	NAME12&3		4	2953	H R92		51
415	13	130		C	SX,@.NM@		7	2957	C E28 E72		51
416	13	140		BU	DIOG		5	2964	B D05 /		52
417	13	150	NAMONE	B	SKIP		4	2969	B D83		52
418	13	160		B	GETSX		4	2973	B Y15		52
419	13	170		C	SX,@.NM@		7	2977	C E28 E72		52
420	13	180		BE	NAMONE		5	2984	B R69 S		52
421	13	190	NAME12	B	*		4	2989	B R92		52
422	13	200	CLOSE	B	GETSX		4	2993	B Y15		52
423	13	210	CLOSE3	B	NAME6		4	2997	B R53		53
424	13	220		B	PAUSK		4	3001	B N33		53
425	13	230		C	SX,@*33@		7	3005	C E28 F79		53
426	13	240		BE	CLOSE2		5	3012	B ?33 S		53
427	13	250		C	SX,@*26@		7	3017	C E28 F82		53
428	14	010		BE	PAUSE1		5	3024	B C89 S		53
429	14	020		B	CLOSE3		4	3029	B R97		53
430	14	030	CLOSE2	B	GETSX		4	3033	B Y15		54
431	14	040		C	SX,@*13@		7	3037	C E28 F85		54
432	14	050		BU	DIOG		5	3044	B D05 /		54
433	14	060		B	PAUSE1		4	3049	B C89		54
434	14	070		B	CLOSE3		4	3053	B R97		54
435	14	080	STOP	B	GETSX		4	3057	B Y15		54
436	14	090		C	SX,@.NL@		7	3061	C E28 E69		54
437	14	100		BU	STOP1		5	3068	B ?81 /		55
438	14	110	STOP3	B	SKIP		4	3073	B D83		55
439	14	120		B	DONE1		4	3077	B C00		55
440	14	130	STOP1	C	SX,@*30@		7	3081	C E28 F88		55
441	14	140		BE	DONE1		5	3088	B C00 S		55
442	14	150		C	SX,@ @@		7	3093	C E28 E66		55
443	14	160		BU	DIOG		5	3100	B D05 /		55
444	14	170		B	STOP3		4	3105	B ?73		56
445	14	180	SUB8	SBR	EXIT&3		4	3109	H Z35		56
446	14	190		B	OUST1		4	3113	B A41		56
447	14	200	OUS	C	HOLD,(@)05@		7	3117	C E41 E57		56

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
448	14	210		BE	EXIT		5	3124	B Z32 S		56
449	14	220		C	HOLD,@)19@		7	3129	C E41 E54		56
450	14	230		BE	EXIT		5	3136	B Z32 S		56
451	14	240	OUST1	MLC	EXIT&3,KEEP8		7	3141	M Z35 E48		57
452	14	250		B	GETSX		4	3148	B Y15		57
453	15	010		B	ALLPA		4	3152	B A79		57
454	15	020		C	SX,@)@		7	3156	C E28 F43		57
455	15	030		BU	DIOG		5	3163	B D05 /		57
456	15	040		MLC	KEEP8,EXIT&3		7	3168	M E48 Z35		57
457	15	050		B	GETSX1		4	3175	B Y19		57
458	15	060	ALLPA	SBR	FIX&3		4	3179	H K38		58
459	15	070		B	PRRI		4	3183	B J79		58
460	15	080	CARD	SBR	EXT&3		4	3187	H B46		58
461	15	090	CADD	MLC	EXIT10&3,SAVR		7	3191	M C88 E32		58
462	15	100		B	GETSR		4	3198	B C16		58
463	15	110		MLC	SX,CARD1-3		7	3202	M E28 E35		58
464	15	120		B	GETSR		4	3209	B C16		58
465	15	130		MLC	SX,CARD1		7	3213	M E28 E38		59
466	15	140		B	GETT		4	3220	B B47		59
467	15	150		C	SX,@.CD@		7	3224	C E28 F19		59
468	15	160		BE	CADD		5	3231	B A91 S		59
469	15	170		MLC	SAVR,EXIT10&3		7	3236	M E32 C88		59
470	15	180	EXT	B	*		4	3243	B B46		59
471	15	190	GETT	SBR	EET&3		4	3247	H B87		59
472	15	200		B	GETX		4	3251	B 335		60
473	15	210		DCW	SX		3	3257	E28		60
474	15	220		DCW	EOP		3	3260	M23		60
475	15	230		B	PUTX		4	3261	B 363		60
476	15	240		DCW	SX		3	3267	E28		60
477	15	250		C	SX,@.PD@		7	3268	C E28 F07		60
478	16	010		BE	PSK		5	3275	B B88 S		60
479	16	020		CW	SST		4	3280	) E42		61
480	16	030	EET	B	*		4	3284	B B87		61
481	16	040	PSK	SBR	X2		4	3288	H 094		61
482	16	050		SW	SST		4	3292	, E42		61
483	16	060		B	4&X2		4	3296	B 0!4		61
484	16	070	DONE1	C	SX,@.PD@		7	3300	C E28 F07		61
485	16	080		BE	X7		5	3307	B T00 S		61
486	16	090		B	VERB		4	3312	B T16		62
487	16	100	GETSR	SBR	EXIT10&3		4	3316	H C88		62
488	16	110	GETSR1	B	GETX		4	3320	B 335		62
489	16	120		DCW	SX		3	3326	E28		62
490	16	130		DCW	EOP		3	3329	M23		62
491	16	140		B	PUTX		4	3330	B 363		62
492	16	150		DCW	SX		3	3336	E28		62
493	16	160		C	SX,@.PD@		7	3337	C E28 F07		63
494	16	170		BE	PSK		5	3344	B B88 S		63
495	16	180		CW	SST		4	3349	) E42		63
496	16	190	GGK	C	SX,@.CD@		7	3353	C E28 F19		63
497	16	200		BE	CARD		5	3360	B A87 S		63

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
498	16	210		C	SX,@.DG@		7	3365	C E28 F16		63
499	16	220		BU	EXIT10		5	3372	B C85 /		64
500	16	230		B	GETT		4	3377	B B47		64
501	16	240		B	GETSR1		4	3381	B C20		64
502	16	250	EXIT10	B	*		4	3385	B C88		64
503	17	010	PAUSE1	SBR	PK1&3		4	3389	H D04		64
504	17	020		B	GETSX		4	3393	B Y15		64
505	17	030		B	PAUSK		4	3397	B N33		64
506	17	040	PK1	B	*		4	3401	B D04		65
507	17	050	DIOG	B	PUTX		4	3405	B 363		65
508	17	060		DCW	&@.DK@		3	3411	F91		65
509	17	070		B	PUTX		4	3412	B 363		65
510	17	080		DCW	CARD1-3		3	3418	E35		65
511	17	090		B	PUTX		4	3419	B 363		65
512	17	100		DCW	CARD1		3	3425	E38		65
513	17	110		B	PUTX		4	3426	B 363		66
514	17	120		DCW	HOLD		3	3432	E41		66
515	17	130	AXB	B	GETSR		4	3433	B C16		66
516	17	140		C	SX,@.CD@		7	3437	C E28 F19		66
517	17	150		BU	AXB1		5	3444	B D71 /		66
518	17	160		B	GETSR		4	3449	B C16		66
519	17	170		MLC	SX,CARD1-3		7	3453	M E28 E35		66
520	17	180		B	GETSR		4	3460	B C16		67
521	17	190		MLC	SX,CARD1		7	3464	M E28 E38		67
522	17	200	AXB1	BCE	VERB,SX-2,)		8	3471	B T16 E26)		67
523	17	210		B	AXB		4	3479	B D33		67
524	17	220	SKIP	SBR	EXR1&3		4	3483	H E25		67
525	17	230		MLC	SX,TEMP		7	3487	M E28 E45		67
526	17	240		BW	SKKK,SS1		8	3494	V E18 E29 1		68
527	17	250	SKIPER	B	GETSR		4	3502	B C16		68
528	18	010		C	SX,TEMP		7	3506	C E28 E45		68
529	18	020		BU	SKIPER		5	3513	B E02 /		68
530	18	030	SKKK	CW	SS1		4	3518	) E29		68
531	18	040	EXR1	B	*		4	3522	B E25		68
532	18	050	SX	DCW	#3		3	3528			68
533	18	060	SS1	DC	#1		1	3529			69
534	18	070	SAVR	DCW	#3		3	3532			69
535	18	080	CARD1	DCW	#6		6	3538			69
536	18	090	HOLD	DCW	#3		3	3541			69
537	18	100	SST	DC	#1		1	3542			69
538	18	110	TEMP	DCW	#3		3	3545			69
539	18	120	KEEP8	DCW	#3		3	3548			70
540	18	130		LTORG					3549		
				DCW	@)03@		3	3551		LIT	70
					@)19@		3	3554		LIT	70
					@)05@		3	3557		LIT	70
					@)09@		3	3560		LIT	70
					@)11@		3	3563		LIT	70
					@ @@		3	3566		LIT	70
					@.NL@		3	3569		LIT	71

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
					@.NM@	3		3572		LIT	71
					@\$30@	3		3575		LIT	71
					@\$0@	2		3577		LIT	71
					@\$40@	3		3580		LIT	71
					@\$20@	3		3583		LIT	71
					@ #@	3		3586		LIT	71
					@\$21@	3		3589		LIT	72
					@\$32@	3		3592		LIT	72
					@\$31@	3		3595		LIT	72
					@\$02@	3		3598		LIT	72
					@\$01@	3		3601		LIT	72
					@\$09@	3		3604		LIT	72
					@.PD@	3		3607		LIT	72
					@A05@	3		3610		LIT	73
					@#DC@	3		3613		LIT	73
					@.DG@	3		3616		LIT	73
					@.CD@	3		3619		LIT	73
					@*32@	3		3622		LIT	73
					@*08@	3		3625		LIT	73
					@*07@	3		3628		LIT	73
					@*18@	3		3631		LIT	74
					@*28@	3		3634		LIT	74
					@*35@	3		3637		LIT	74
					@ *@	3		3640		LIT	74
					@)@	3		3643		LIT	74
					@*22@	3		3646		LIT	74
					@.DM@	3		3649		LIT	74
					@B3A@	3		3652		LIT	75
					@*02@	3		3655		LIT	75
					@*25@	3		3658		LIT	75
					@*24@	3		3661		LIT	75
					@.LB@	3		3664		LIT	75
					@*10@	3		3667		LIT	75
					@/10@	3		3670		LIT	75
					@\$08@	3		3673		LIT	76
					@ %@	3		3676		LIT	76
					@*33@	3		3679		LIT	76
					@*26@	3		3682		LIT	76
					@*13@	3		3685		LIT	76
					@*30@	3		3688		LIT	76
					@.DK@	3		3691		LIT	76
541	18	140		ORG					3692		
542	18	150		DCW	@}@"	1		3692			77
543	18	160		END					/ 000 080		78

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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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1401 COBOL - BD6 PAGE 1

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
101	1	010	000	JOB	1401 COBOL - BD6						
102	1	020		CTL	661111						
103	1	030		ORG	1300				1300		
104	1	040	OK	EQU	3500			3500			
105	1	050	GETX	EQU	335			0335			
106	1	060	PUTX	EQU	363			0363			
107	1	070	SUPER	EQU	351			0351			
108	1	080	OUT1	EQU	208			0208			
109	1	090	X2	EQU	94			0094			
110	1	100		B	SUPER	4		1300	B 351		4
111	1	110		DCW	@BT1@	3		1306			4
112	1	120		BW	START1,1002	8		1307	V T19	|02 1	4
113	1	130		B	ERS2	4		1315	B U93		4
114	1	140	START1	BW	ERS,1000	8		1319	V V15	|00 1	4
115	1	150		BW	ERS1,1001	8		1327	V V04	|01 1	4
116	1	160	START	B	GETSX	4		1335	B J11		4
117	1	170	X71	C	SX,@.DG@	7		1339	C K00	K03	5
118	1	180		BE	LEO	5		1346	B U77	S	5
119	1	190		C	SX,@.DK@	7		1351	C K00	K06	5
120	1	200		BE	PRO	5		1358	B V98	S	5
121	1	210		C	SX,@.ZD@	7		1363	C K00	K09	5
122	1	220		BE	PRO	5		1370	B V98	S	5
123	1	230		C	SX,@.DM@	7		1375	C K00	K12	6
124	1	240		BE	ALL	5		1382	B W44	S	6
125	1	250		C	SX,@.DZ@	7		1387	C K00	K15	6
126	2	010		BE	PRO	5		1394	B V98	S	6
127	2	020		B	PUTSX	4		1399	B J29		6
128	2	030		C	SX,@.CD@	7		1403	C K00	K18	6
129	2	040		BE	CARD	5		1410	B V64	S	7
130	2	050	STTR	C	SX,@/24@	7		1415	C K00	K21	7
131	2	060		BU	LXX1	5		1422	B U54	/	7
132	2	070		B	GETSX	4		1427	B J11		7
133	2	080		C	SX,@*06@	7		1431	C K00	K24	7
134	2	090		BU	X71	5		1438	B T39	/	7
135	2	100		B	PUTSX	4		1443	B J29		7
136	2	110		B	SUPER	4		1447	B 351		8
137	2	120		DCW	@BT2@	3		1453			8
138	2	130	LXX1	C	SX,@*01@	7		1454	C K00	K27	8
139	2	140		BU	LXX2	5		1461	B U73	/	8
140	2	150		B	SUPER	4		1466	B 351		8
141	2	160		DCW	@BT3@	3		1472			8
142	2	170	LXX2	B	START	4		1473	B T35		8
143	2	180	LEO	B	HEADER	4		1477	B X09		9
144	2	190		B	GETSX	4		1481	B J11		9
145	2	200		B	LOOKUP	4		1485	B W52		9
146	2	210		B	OUTPUT	4		1489	B X79		9
147	2	220	ERS2	MLC	@B99@,SX	7		1493	M K30	K00	9

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	2	230		B	ECC		4	1500	B V22		9
149	2	240	ERS1	MLC	@B98@,SX		7	1504	M K33 K00		9
150	2	250		B	ECC		4	1511	B V22		10
151	3	010	ERS	MLC	@B97@,SX		7	1515	M K36 K00		10
152	3	020	ECC	B	HEADER		4	1522	B X09		10
153	3	030		B	LOOKUP		4	1526	B W52		10
154	3	040		CS	299		4	1530	/ 299		10
155	3	050		MLC	@***@,OUT1&7		7	1534	M K38 215		10
156	3	060		MLC	SX,OUT1&16		7	1541	M K00 224		10
157	3	070		MRCM	1&X2,OUT1&30		7	1548	P 0!1 238		11
158	3	080		MLC	@. @		4	1555	M K40		11
159	3	090		W			1	1559	2		11
160	3	100		B	ST4		4	1560	B Z91		11
161	3	110	CARD	B	GETSX		4	1564	B J11		11
162	3	120		B	PUTSX		4	1568	B J29		11
163	3	130		MLC	SX,CARD1-3		7	1572	M K00 J70		11
164	3	140		B	GETSX		4	1579	B J11		12
165	3	150		B	PUTSX		4	1583	B J29		12
166	3	160		MLC	SX,CARD1		7	1587	M K00 J73		12
167	3	170		B	STTR		4	1594	B U15		12
168	3	180	PRO	B	HEADER		4	1598	B X09		12
169	3	190		B	GETSX		4	1602	B J11		12
170	3	200		MLC	SX,CARD1-3		7	1606	M K00 J70		12
171	3	210		B	GETSX		4	1613	B J11		13
172	3	220		MLC	SX,CARD1		7	1617	M K00 J73		13
173	3	230		B	GETSX		4	1624	B J11		13
174	3	240		B	LOOKUP		4	1628	B W52		13
175	3	250		BW	OUTPUT,SWX		8	1632	V X79 J60 1		13
176	4	010		B	OUT12		4	1640	B Y50		13
177	4	020	ALL	SW	SWX		4	1644	, J60		13
178	4	030		B	PRO		4	1648	B V98		14
179	4	040	LOOKUP	SBR	EXIT&3		4	1652	H X08		14
180	4	050		SBR	X2,OK		7	1656	H 094 E00		14
181	4	060	LOOK1	BCE	START,0&X2,\$		8	1663	B T35 0!0 \$		14
182	4	070		MLC	0&X2,0&X2		7	1671	M 0!0 0!0		14
183	4	080		SBR	X2		4	1678	H 094		14
184	4	090		C	3&X2,SX		7	1682	C 0!3 K00		15
185	4	100		BU	LOOK1		5	1689	B W63 /		15
186	4	110		MLC	0&X2,0&X2		7	1694	M 0!0 0!0		15
187	4	120		SBR	X2		4	1701	H 094		15
188	4	130	EXIT	B	*		4	1705	B X08		15
189	4	140	HEADER	SBR	ONE&3		4	1709	H X78		15
190	4	150		BW	ONE,SW1		8	1713	V X75 J74 1		15
191	4	160		SW	SW1		4	1721	, J74		16
192	4	170		CS	332		4	1725	/ 332		16
193	4	180		CS			1	1729	/		16
194	4	190		MLC	@*** DIAGNOSTICS ***@,OUT1&57		7	1730	M K59 265		16
195	4	200		W			1	1737	2		16
196	4	210		CC	J		2	1738	F J		16
197	4	220		CS	299		4	1740	/ 299		16

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
198	4	230		MLC	@FLAG@,OUT1&8	7		1744	M K63 216		17
199	4	240		MLC	@REF@,OUT1&16	7		1751	M K66 224		17
200	4	250		MLC	@SEQUENCE@,OUT1&26	7		1758	M K74 234		17
201	5	010		MLC	@MESSAGE@,OUT1&43	7		1765	M K81 251		17
202	5	020		W		1		1772	2		17
203	5	030		CC	J	2		1773	F J		17
204	5	040	ONE	B	*	4		1775	B X78		17
205	5	050	OUTPUT	CS	332	4		1779	/ 332		18
206	5	060		CS		1		1783	/		18
207	5	070		CW	SWX	4		1784	) J60		18
208	5	080		BWZ	HANG,SX,2	8		1788	V Y04 K00 2		18
209	5	090		B	HANG1	4		1796	B Y94		18
210	5	100		B	HAGG	4		1800	B Y11		18
211	5	110	HANG	A	@1@,NONHLT	7		1804	A K82 J63		18
212	5	120	HAGG	SW	NHLT	4		1811	, J59		19
213	5	130		MCS	CARD1,OUT1&25	7		1815	Z J73 233		19
214	5	140		MLC	SX,OUT1&16	7		1822	M K00 224		19
215	5	150		MRCM	1&X2,OUT1&30	7		1829	P 0!1 238		19
216	5	160		MLC	@. @	4		1836	M K40		19
217	5	170		W		1		1840	2		19
218	5	180		BCV	OVS	5		1841	B J49 @		19
219	5	190		B	START	4		1846	B T35		20
220	5	200	OUT12	CS	332	4		1850	/ 332		20
221	5	210		CS		1		1854	/		20
222	5	220		B	HANG1	4		1855	B Y94		20
223	5	230		MCS	CARD1,OUT1&25	7		1859	Z J73 233		20
224	5	240		MLC	@FORMAT ERROR-@,OUT1&42	7		1866	M K95 250		20
225	5	250		MRCM	1&X2,OUT1&45	7		1873	P 0!1 253		20
226	6	010		MLC	@. @	4		1880	M K40		21
227	6	020		W		1		1884	2		21
228	6	030		BCV	OVS	5		1885	B J49 @		21
229	6	040		B	START	4		1890	B T35		21
230	6	050	HANG1	SBR	RETURN&3	4		1894	H Z26		21
231	6	060		A	@1@,HANGER	7		1898	A K82 J66		21
232	6	070		SW	HLT	4		1905	, J67		21
233	6	080		MLZS	@ @,SX	7		1909	Y K96 K00		22
234	6	090		MLC	@**@,OUT1&7	7		1916	M K38 215		22
235	6	100	RETURN	B	*	4		1923	B Z26		22
236	6	110	STOPS	CC	K	2		1927	F K		22
237	6	120		CS	299	4		1929	/ 299		22
238	6	130		MLC	@NUMBER OF ERRORS NEEDING CORRECTION-@,265	7		1933	M L32 265		22
239	6	140		MCS	HANGER,270	7		1940	Z J66 270		22
240	6	150		W		1		1947	2		23
241	6	160		BCV	OVV	5		1948	B J44 @		23
242	6	170	STT	CS	299	4		1953	/ 299		23
243	6	180		MLC	TOT,250	7		1957	M J97 250		23
244	6	190		A	HANGER,NONHLT	7		1964	A J66 J63		23
245	6	200		MCS	NONHLT,255	7		1971	Z J63 255		23
246	6	210		W		1		1978	2		23
247	6	220		BCV	OVR	5		1979	B J54 @		24

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
248	6	230		CC	1		2	1984	F 1		24
249	6	240		BSS	EOP1,E		5	1986	B !97 E		24
250	6	250	ST4	CS	299		4	1991	/ 299		24
251	7	010		CC	K		2	1995	F K		24
252	7	020		MLC	@COMPILATION SUSPENDED@,250		7	1997	M L53 250		24
253	7	030		W			1	2004	2		24
254	7	040		CC	1		2	2005	F 1		25
255	7	050		RWD	1		5	2007	U %U1 R		25
256	7	060		RWD	5		5	2012	U %U5 R		25
257	7	070		RWD	6		5	2017	U %U6 R		25
258	7	080		RWD	4		5	2022	U %U4 R		25
259	7	090		H	*-3		4	2027	. !27		25
260	7	100		B	*-7		4	2031	B !27		25
261	7	110	NSTOP	CS	299		4	2035	/ 299		26
262	7	120		CC	K		2	2039	F K		26
263	7	130		MLC	TOT,250		7	2041	M J97 250		26
264	7	140		MCS	NONHLT,255		7	2048	Z J63 255		26
265	7	150		W			1	2055	2		26
266	7	160		CS	299		4	2056	/ 299		26
267	7	170		CC	K		2	2060	F K		26
268	7	180		MLC	@PRESS START TO CONTINUE@,250		7	2062	M L76 250		27
269	7	190		W			1	2069	2		27
270	7	200		CC	1		2	2070	F 1		27
271	7	210		BSS	EOP1,E		5	2072	B !97 E		27
272	7	220		H	EOP1		4	2077	. !97		27
273	7	230	EOP	BW	STOPS,HLT		8	2081	V Z27 J67 1		27
274	7	240		BW	NSTOP,NHLT		8	2089	V !35 J59 1		27
275	7	250	EOP1	B	PUTX		4	2097	B 363		28
276	8	010		DCW	SX		3	2103	K00		28
277	8	020		B	SUPER		4	2104	B 351		28
278	8	030		DCW	@B01@		3	2110			28
279	8	040	GETSX	SBR	EXIT7&3		4	2111	H J28		28
280	8	050		B	GETX		4	2115	B 335		28
281	8	060		DCW	SX		3	2121	K00		28
282	8	070		DCW	EOP		3	2124	!81		29
283	8	080	EXIT7	B	*		4	2125	B J28		29
284	8	090	PUTSX	SBR	EX1&3		4	2129	H J43		29
285	8	100		B	PUTX		4	2133	B 363		29
286	8	110		DCW	SX		3	2139	K00		29
287	8	120	EX1	B	*		4	2140	B J43		29
288	8	130	OVV	CCB	STT,1		5	2144	F Z53 1		29
289	8	140	OVS	CCB	START,1		5	2149	F T35 1		30
290	8	150	OVR	CCB	ST4,1		5	2154	F Z91 1		30
291	8	160	NHLT	DC	#1		1	2159			30
292	8	170	SWX	DC	#1		1	2160			30
293	8	180	NONHLT	DCW	@000@		3	2163			30
294	8	190	HANGER	DCW	@000@		3	2166			30
295	8	200	HLT	DC	#1		1	2167			30
296	8	210	CARD1	DCW	#6		6	2173			30
297	8	220	SW1	DC	#1		1	2174			30

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
298	8	230	TOT	DCW	@TOTAL NUMBER OF ERRORS-@		23	2197			31
299	8	240	SX	DCW	#3		3	2200			31
300	8	250		LTORG					2201		
				DCW	@.DG@		3	2203		LIT	31
					@.DK@		3	2206		LIT	31
					@.ZD@		3	2209		LIT	31
					@.DM@		3	2212		LIT	31
					@.DZ@		3	2215		LIT	32
					@.CD@		3	2218		LIT	32
					@/24@		3	2221		LIT	32
					@*06@		3	2224		LIT	32
					@*01@		3	2227		LIT	32
					@B99@		3	2230		LIT	32
					@B98@		3	2233		LIT	32
					@B97@		3	2236		LIT	33
					@**@		2	2238		LIT	33
					@. @		2	2240		LIT	33
	194				@*** DIAGNOSTICS ***@		19	2259		LIT	33
					@FLAG@		4	2263		LIT	33
					@REF@		3	2266		LIT	33
	200				@SEQUENCE@		8	2274		LIT	34
	201				@MESSAGE@		7	2281		LIT	34
					@1@		1	2282		LIT	34
	224				@FORMAT ERROR-@		13	2295		LIT	34
					@ @		1	2296		LIT	34
	238				@NUMBER OF ERRORS NEEDING CORRECTION-@		36	2332		LIT	35
	252				@COMPILATION SUSPENDED@		21	2353		LIT	36
	268				@PRESS START TO CONTINUE@		23	2376		LIT	37
301	9	010		ORG					2377		
302	9	020		DCW	@}@		1	2377			37
303	9	030		END					/ 000 080		38

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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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1401 COBOL - BT1 PAGE 1

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
101	1	010	000	JOB	1401 COBOL - BT1						
102	1	020		CTL	661111						
103	1	030		ORG	2400				2400		
104	1	040		DCW	@\$@	1		2400			4
105	1	050		DCW	@ASSIGN|@	7		2407			4
106	1	060		DCW	@*75@	3		2410			4
107	1	070		DCW	@DEVICE NAME 1403-CT|@	20		2430			4
108	1	080		DCW	@*82@	3		2433			4
109	1	090		DCW	@DEVICE NAME 1403-P|@	19		2452			5
110	1	100		DCW	@*83@	3		2455			5
111	1	110		DCW	@SWITCH NAME 1403-P-CB|@	22		2477			6
112	1	120		DCW	@*86@	3		2480			6
113	1	130		DCW	@MEMORY SIZE|@	12		2492			6
114	1	140		DCW	@*76@	3		2495			7
115	1	150		DCW	@SWITCH NAME 1403-P-C9|@	22		2517			7
116	1	160		DCW	@*85@	3		2520			7
117	1	170		DCW	@DEVICE NAME 1402-P|@	19		2539			8
118	1	180		DCW	@*88@	3		2542			8
119	1	190		DCW	@DEVICE NAME 1402-R|@	19		2561			9
120	1	200		DCW	@*80@	3		2564			9
121	1	210		DCW	@SELECT|@	7		2571			9
122	1	220		DCW	@*77@	3		2574			9
123	1	230		DCW	@RESERVE ALTERNATE AREA|@	23		2597			10
124	1	240		DCW	@*70@	3		2600			10
125	1	250		DCW	@SWITCH NAME 1401-SS|@	20		2620			11
126	2	010		DCW	@*81@	3		2623			11
127	2	020		DCW	@SWITCH NAME 1403-P-CV|@	22		2645			12
128	2	030		DCW	@*87@	3		2648			12
129	2	040		DCW	@CONFIGURATION SECTION NOT SENSED|@	33		2681			13
130	2	050		DCW	@B2A@	3		2684			13
131	2	060		DCW	@KEYWORD SOURCE-COMPUTER MUST FOLLOW@	35		2719			14
132	2	070		DC	@ CONFIGURATION SECTION|@	23		2742			15
133	2	080		DCW	@B2B@	3		2745			15
134	2	090		DCW	@IBM-1401 CLAUSE NOT SENSED|@	27		2772			16
135	2	100		DCW	@B2C@	3		2775			16
136	2	110		DCW	@INVALID ENTRY|@	14		2789			17
137	2	120		DCW	@B2D@	3		2792			17
138	2	130		DCW	@KEYWORD FILE-CONTROL MUST FOLLOW INPUT-OUTPUT@	45		2837			19
139	2	140		DC	@ SECTION|@	9		2846			19
140	2	150		DCW	@B2E@	3		2849			19
141	2	160		DCW	@PERIOD MUST FOLLOW PARAGRAPH SECTION OR DIVISION|@	49		2898			21
142	2	170		DCW	@B2F@	3		2901			21
143	2	180		DCW	@PERIOD MUST FOLLOW ENTRY|@	25		2926			21
144	2	190		DCW	@B2G@	3		2929			22
145	2	200		DCW	@KEYWORD SECTION NOT SENSED|@	27		2956			22
146	2	210		DCW	@B2H@	3		2959			22
147	2	220		DCW	@KEYWORD DIVISION NOT SENSED|@	28		2987			23

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	2	230		DCW	@B2I@		3	2990			23
149	2	240		DCW	@NEXT CARD OUT OF SEQUENCE|@		26	3016			24
150	2	250		DCW	@A01@		3	3019			24
151	3	010		DCW	@FORMAT ERROR-CONTINUATION OF ALPHANUMERIC@		41	3060			26
152	3	020		DC	@ LITERAL|@		9	3069			26
153	3	030		DCW	@A0B@		3	3072			26
154	3	040		DCW	@NUMERIC LITERAL EXCEEDS LEGAL LENGTH|@		37	3109			27
155	3	050		DCW	@A0C@		3	3112			28
156	3	060		DCW	@NAME EXCEEDS LEGAL LENGTH|@		26	3138			28
157	3	070		DCW	@A0D@		3	3141			28
158	3	080		DCW	@ALPHANUMERIC LITERAL EXCEEDS LEGAL LENGTH|@		42	3183			30
159	3	090		DCW	@A0E@		3	3186			30
160	3	100		DCW	@SPECIAL-CHARACTER MUST BE IN ALPHANUMERIC LITERAL|@		50	3236			32
161	3	110		DCW	@A0F@		3	3239			32
162	3	120		DCW	@PROGRAM-ID NOT SENSED|@		22	3261			32
163	3	130		DCW	@A0H@		3	3264			32
164	3	140		DCW	@IDENTIFICATION DIVISION NOT SENSED|@		35	3299			33
165	3	150		DCW	@A0I@		3	3302			33
166	3	160		DCW	@ENVIRONMENT DIVISION NOT SENSED |@		34	3336			34
167	3	170		DCW	@B99@		3	3339			34
168	3	180		DCW	@DATA DIVISION NOT SENSED|@		25	3364			35
169	3	190		DCW	@B97@		3	3367			35
170	3	200		DCW	@PROCEDURE DIVISION NOT SENSED |@		31	3398			36
171	3	210		DCW	@B98@		3	3401			36
172	3	220		DCW	@CONTINUATION MUST BEGIN IN COLUMN 12|@		37	3438			37
173	3	230		DCW	@A1?@		3	3441			38
174	3	240		LTORG					3442		
175	3	250		ORG					3442		
176	4	010		DCW	@}@		1	3442			38
177	4	020		END					/ 000 080		39

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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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1401 COBOL - BT2 PAGE 1

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
101	1	010	000	JOB	1401 COBOL - BT2						
102	1	020		CTL	661111						
103	1	030		ORG	2400				2400		
104	1	040		DCW	@\$@		1	2400			4
105	1	050		DCW	@FD|@		3	2403			4
106	1	060		DCW	@/26@		3	2406			4
107	1	070		DCW	@RECORDING MODE|@		15	2421			4
108	1	080		DCW	@/06@		3	2424			4
109	1	090		DCW	@BLOCK CONTAINS|@		15	2439			5
110	1	100		DCW	@/16@		3	2442			5
111	1	110		DCW	@RECORD CONTAINS|@		16	2458			5
112	1	120		DCW	@/11@		3	2461			5
113	1	130		DCW	@LABEL RECORD|@		13	2474			6
114	1	140		DCW	@/19@		3	2477			6
115	1	150		DCW	@VALUE OF|@		9	2486			6
116	1	160		DCW	@/13@		3	2489			6
117	1	170		DCW	@DATA RECORD|@		12	2501			7
118	1	180		DCW	@/24@		3	2504			7
119	1	190		DCW	@SIZE|@		5	2509			7
120	1	200		DCW	@/10@		3	2512			7
121	1	210		DCW	@REDEFINES|@		10	2522			7
122	1	220		DCW	@/05@		3	2525			7
123	1	230		DCW	@OCCURS|@		7	2532			8
124	1	240		DCW	@/14@		3	2535			8
125	1	250		DCW	@POINT LOCATION|@		15	2550			8
126	2	010		DCW	@/18@		3	2553			8
127	2	020		DCW	@PICTURE|@		8	2561			8
128	2	030		DCW	@)12@		3	2564			8
129	2	040		DCW	@JUSTIFIED|@		10	2574			9
130	2	050		DCW	@/07@		3	2577			9
131	2	060		DCW	@LEAVING|@		8	2585			9
132	2	070		DCW	@/12@		3	2588			9
133	2	080		DCW	@VALUE|@		6	2594			9
134	2	090		DCW	@/13@		3	2597			9
135	2	100		DCW	@WORKING-STORAGE SECTION OUT OF SEQUENCE|@		40	2637			11
136	2	110		DCW	@B4A@		3	2640			11
137	2	120		DCW	@CONSTANT SECTION OUT OF SEQUENCE|@		33	2673			11
138	2	130		DCW	@B4B@		3	2676			12
139	2	140		DCW	@RECORDING MODE MUST BE 1|@		25	2701			12
140	2	150		DCW	@B4C@		3	2704			12
141	2	160		DCW	@DATA RECORDS CLAUSE MUST BE IN FD|@		34	2738			13
142	2	170		DCW	@B4D@		3	2741			13
143	2	180		DCW	@LABEL RECORDS CLAUSE MUST BE IN FD|@		35	2776			14
144	2	190		DCW	@B4E@		3	2779			14
145	2	200		DCW	@DUPLICATE RECORD CONTAINS CLAUSE|@		33	2812			15
146	2	210		DCW	@B4H@		3	2815			15
147	2	220		DCW	@DUPLICATE BLOCK CONTAINS CLAUSE|@		32	2847			16

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	2	230		DCW	@B4G@		3	2850			16
149	2	240		DCW	@DUPLICATE RECORDING MODE CLAUSE|@		32	2882			17
150	2	250		DCW	@B4F@		3	2885			17
151	3	010		DCW	@DUPLICATE VALUE OF CLAUSE|@		26	2911			18
152	3	020		DCW	@B4I@		3	2914			18
153	3	030		DCW	@A PERIOD MUST FOLLOW ENTRY|@		27	2941			19
154	3	040		DCW	@B5J@		3	2944			19
155	3	050		DCW	@DATA DIVISION NOT FOLLOWED BY VALID SECTION|@		44	2988			21
156	3	060		DCW	@B5K@		3	2991			21
157	3	070		DCW	@DUPLICATE CONSTANT SECTION|@		27	3018			21
158	3	080		DCW	@B5L@		3	3021			21
159	3	090		DCW	@DUPLICATE WORKING-STORAGE SECTION|@		34	3055			22
160	3	100		DCW	@B5M@		3	3058			22
161	3	110		DCW	@LEVEL NUMBER MUST BE FOLLOWED BY NAME OR FILLER|@		48	3106			24
162	3	120		DCW	@B5N@		3	3109			24
163	3	130		DCW	@FORMAT ERROR|@		13	3122			24
164	3	140		DCW	@B5O@		3	3125			24
165	3	150		DCW	@NEXT CARD OUT OF SEQUENCE|@		26	3151			25
166	3	160		DCW	@A01@		3	3154			25
167	3	170		DCW	@FORMAT ERROR-CONTINUATION OF ALPHANUMERIC@		41	3195			27
168	3	180		DC	@ LITERAL|@		9	3204			27
169	3	190		DCW	@A0B@		3	3207			27
170	3	200		DCW	@NUMERIC LITERAL EXCEEDS LEGAL LENGTH|@		37	3244			28
171	3	210		DCW	@A0C@		3	3247			29
172	3	220		DCW	@NAME EXCEEDS LEGAL LENGTH|@		26	3273			29
173	3	230		DCW	@A0D@		3	3276			29
174	3	240		DCW	@ALPHANUMERIC LITERAL EXCEEDS LEGAL LENGTH|@		42	3318			31
175	3	250		DCW	@A0E@		3	3321			31
176	4	010		DCW	@SPECIAL-CHARACTER MUST BE IN ALPHANUMERIC LITERAL|@		50	3371			33
177	4	020		DCW	@A0F@		3	3374			33
178	4	030		DCW	@KEYWORD SECTION NOT SENSED|@		27	3401			34
179	4	040		DCW	@B5P@		3	3404			34
180	4	050		DCW	@KEYWORD DIVISION NOT SENSED|@		28	3432			35
181	4	060		DCW	@B5Q@		3	3435			35
182	4	070		DCW	@CONTINUATION MUST BEGIN IN COLUMN 12|@		37	3472			36
183	4	080		DCW	@A1?@		3	3475			37
184	4	090		LTORG					3476		
185	4	100		ORG					3476		
186	4	110		DCW	@}@		1	3476			37
187	4	120		END					/ 000 080		38

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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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1401 COBOL - BT3 PAGE 1

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
101	1	010	000	JOB	1401 COBOL - BT3						
102	1	020		CTL	661111						
103	1	030		ORG	2400				2400		
104	1	040		DCW	@\$@		1	2400			4
105	1	050		DCW	@MOVE|@		5	2405			4
106	1	060		DCW	@)15@		3	2408			4
107	1	070		DCW	@OPEN|@		5	2413			4
108	1	080		DCW	@)14@		3	2416			4
109	1	090		DCW	@MULTIPLY|@		9	2425			4
110	1	100		DCW	@)02@		3	2428			4
111	1	110		DCW	@GO TO|@		6	2434			5
112	1	120		DCW	@)20@		3	2437			5
113	1	130		DCW	@DISPLAY|@		8	2445			5
114	1	140		DCW	@)04@		3	2448			5
115	1	150		DCW	@SUBTRACT|@		9	2457			5
116	1	160		DCW	@)01@		3	2460			5
117	1	170		DCW	@ADDITION|@		9	2469			6
118	1	180		DCW	@)18@		3	2472			6
119	1	190		DCW	@DIVIDE|@		7	2479			6
120	1	200		DCW	@)06@		3	2482			6
121	1	210		DCW	@ALTER|@		6	2488			6
122	1	220		DCW	@)10@		3	2491			6
123	1	230		DCW	@ACCEPT|@		7	2498			6
124	1	240		DCW	@)07@		3	2501			7
125	1	250		DCW	@CLOSE|@		6	2507			7
126	2	010		DCW	@)09@		3	2510			7
127	2	020		DCW	@WRITE|@		6	2516			7
128	2	030		DCW	@)08@		3	2519			7
129	2	040		DCW	@READ|@		5	2524			7
130	2	050		DCW	@)13@		3	2527			7
131	2	060		DCW	@COMPUTE|@		8	2535			8
132	2	070		DCW	@)05@		3	2538			8
133	2	080		DCW	@STOP|@		5	2543			8
134	2	090		DCW	@)11@		3	2546			8
135	2	100		DCW	@PERFORM|@		8	2554			8
136	2	110		DCW	@)03@		3	2557			8
137	2	120		DCW	@IF|@		3	2560			8
138	2	130		DCW	@)19@		3	2563			9
139	2	140		DCW	@PERIOD MUST BE FOLLOWED BY VERB PARAGRAPH OR SECT@		49	2612			11
140	2	150		DC	@ION NAME|@		9	2621			11
141	2	160		DCW	@B0A@		3	2624			11
142	2	170		DCW	@PERIOD MUST FOLLOW PARAGRAPH OR SECTION NAME|@		45	2669			13
143	2	180		DCW	@B0B@		3	2672			13
144	2	190		DCW	@KEYWORD DIVISION MUST BE FOLLOWED BY PERIOD|@		44	2716			15
145	2	200		DCW	@B0C@		3	2719			15
146	2	210		DCW	@KEYWORD DIVISION NOT SENSED|@		28	2747			15
147	2	220		DCW	@B0D@		3	2750			15

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	2	230		DCW	@NEXT CARD OUT OF SEQUENCE|@		26	2776			16
149	2	240		DCW	@A01@		3	2779			16
150	2	250		DCW	@FORMAT ERROR-CONTINUATION OF ALPHANUMERIC@		41	2820			18
151	3	010		DC	@ LITERAL|@		9	2829			18
152	3	020		DCW	@A0B@		3	2832			18
153	3	030		DCW	@NUMERIC LITERAL EXCEEDS LEGAL LENGTH|@		37	2869			19
154	3	040		DCW	@A0C@		3	2872			20
155	3	050		DCW	@NAME EXCEEDS LEGAL LENGTH|@		26	2898			20
156	3	060		DCW	@A0D@		3	2901			20
157	3	070		DCW	@ALPHANUMERIC LITERAL EXCEEDS LEGAL LENGTH|@		42	2943			22
158	3	080		DCW	@A0E@		3	2946			22
159	3	090		DCW	@SPECIAL-CHARACTER MUST BE IN ALPHANUMERIC LITERAL|@		50	2996			24
160	3	100		DCW	@A0F@		3	2999			24
161	3	110		DCW	@ONLY AUTOCODER CAN BE ENTERED FROM COBOL|@		41	3040			26
162	3	120		DCW	@A0G@		3	3043			26
163	3	130		DCW	@MISSING PERIOD AT END OF PROGRAM|@		33	3076			26
164	3	140		DCW	@B3A@		3	3079			27
165	3	150		DCW	@KEYWORD MUST NOT BE USED AS LABEL|@		34	3113			27
166	3	160		DCW	@B9B@		3	3116			28
167	3	170		DCW	@MISSING PERIOD BEFORE PROCEDURE DIVISION|@		41	3157			30
168	3	180		DCW	@B9A@		3	3160			30
169	3	190		DCW	@FIGCON ALL MUST BE FOLLOWED BY ALPHANUMERIC @		44	3204			32
170	3	200		DC	@LITERAL|@		8	3212			32
171	3	210		DCW	@B8E@		3	3215			32
172	3	220		DCW	@CONTINUATION MUST BEGIN IN COLUMN 12|@		37	3252			33
173	3	230		DCW	@A1?@		3	3255			34
174	3	240		LTORG					3256		
175	3	250		ORG					3256		
176	4	010		DCW	@}@		1	3256			34
177	4	020		END					/ 000 080		35

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CLEAR STORAGE 1      ,008015,019026,030,034041,045,053,0570571026      1
CLEAR STORAGE 2      L068112,102106,113/101099/I99,027A070028)027B0010270B0261,001/001113I0      2
BOOTSTRAP            ,008015,022029,036040,047054,061068,072/061039      ,0010011040      3

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1401 COBOL - B01 PAGE 1

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
101	1	010	000	JOB	1401 COBOL - B01						
102	1	020		CTL	631 11						
103	1	030	X1	EQU	89			0089			
104	1	040	X2	EQU	94			0094			
105	1	050	X3	EQU	99			0099			
106	1	060	ADSZE	EQU	188			0188			
107	1	070	GETX	EQU	335			0335			
108	1	080	PUTX	EQU	363			0363			
109	1	090	SUPER	EQU	351			0351			
110	1	100	SZSW	EQU	1126			1126			
111	1	110		ORG	1300				1300		
112	1	120	DTCN1	DCW	@A10@	3		1302			4
113	1	130	SPSW	DCW	@0@	1		1303			4
114	1	140	LV88SW	DCW	@0@	1		1304			4
115	1	150	DVALSW	DCW	@0@	1		1305			4
116	1	160	DTCN	DCW	@A10@	3		1308			4
117	1	170	DTEND	DCW	@ @	3		1311			4
118	1	180	DTADR	DCW	@ @	3		1314			4
119	1	190	PRCN1	DCW	@J01@	3		1317			5
120	1	200	PRCN	DCW	@J01@	3		1320			5
121	1	210	PREND	DCW	@ @	3		1323			5
122	1	220	PRADR	DCW	@ @	3		1326			5
123	1	230	LTNM1	DCW	@S01@	3		1329			5
124	1	240	LTNM	DCW	@S01@	3		1332			5
125	1	250	OVSF	DCW	@0@	1		1333			5
126	2	010	OVFSW	DC	@0@	1		1334			6
127	2	020	DOVSW	DCW	@0@	1		1335			6
128	2	030	POVSW	DCW	@0@	1		1336			6
129	2	040	DQSW	DCW	@0@	1		1337			6
130	2	050	PQSW	DCW	@0@	1		1338			6
131	2	060	LITSW	DCW	@0@	1		1339			7
132	2	070	SYSW	DCW	@0@	1		1340			7
133	2	080	TBSW	DCW	@0@	1		1341			7
134	2	090	UNSW	DCW	@0@	1		1342			7
135	2	100		ORG	1350				1350		
136	2	110	INIT	MLC	@004@,MEMCNT	7		1350	M E86 B04		8
137	2	120		BWZ	INIT6,ADSZE,2	8		1357	V U02 188 2		8
138	2	130		BWZ	MEM02,ADSZE,S	8		1365	V T95 188 S		8
139	2	140		BWZ	MEM03,ADSZE,K	8		1373	V T88 188 K		8
140	2	150		A	&4,MEMCNT	7		1381	A E87 B04		8
141	2	160	MEM03	A	&4,MEMCNT	7		1388	A E87 B04		9
142	2	170	MEM02	A	&4,MEMCNT	7		1395	A E87 B04		9
143	2	180	INIT6	MN	MEMCNT,SZSW	7		1402	D B04 /26		9
144	2	190		B	GTSYM	4		1409	B Z39		9
145	2	200		B	GTSYM	4		1413	B Z39		9
146	2	210		B	INIT2	4		1417	B U25		9
147	2	220	INIT1	B	PTGTSY	4		1421	B P57		9

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	2	230	INIT2	C	CURNT ,SENV		7	1425	C A22 A49		10
149	2	240		BU	INIT1		5	1432	B U21 /		10
150	2	250	PTEST	B	PUTX		4	1437	B 363		10
151	3	010		DCW	CURNT		3	1443	A22		10
152	3	020	GTEST	B	GTSYM		4	1444	B Z39		10
153	3	030	TEST	B	TSTRTN		4	1448	B P76		10
154	3	040		B	PTEST		4	1452	B U37		10
155	3	050	SOURCE	B	PUTX		4	1456	B 363		11
156	3	060		DCW	SPRD		3	1462	B59		11
157	3	070		MLC	@1@, SCTSW		7	1463	M E88 A29		11
158	3	080		B	PTEST		4	1470	B U37		11
159	3	090	OBJECT	B	PUTX		4	1474	B 363		11
160	3	100		DCW	SPRD		3	1480	B59		11
161	3	110		MLC	@2@, SCTSW		7	1481	M E89 A29		11
162	3	120		B	PTGTSY		4	1488	B P57		12
163	3	130		B	PUTX		4	1492	B 363		12
164	3	140		DCW	SNOREL		3	1498	E35		12
165	3	150		B	TEST		4	1499	B U48		12
166	3	160	MEMORY	BCE	MEMTST, SCTSW, 1		8	1503	B Y54 A29 1		12
167	3	170		B	PTEST		4	1511	B U37		12
168	3	180	NOREL	BCE	GTEST, SCTSW, 2		8	1515	B U44 A29 2		12
169	3	190		B	PTEST		4	1523	B U37		13
170	3	200	SPNAME	MLC	@1@, SPNMSW		7	1527	M E88 A50		13
171	3	210		MLC	@1@, SPSW		7	1534	M E88 T03		13
172	3	220		B	SECT1		4	1541	B V52		13
173	3	230	SECT	MLC	@0@, SPNMSW		7	1545	M E90 A50		13
174	3	240	SECT1	B	PUTX		4	1552	B 363		13
175	3	250		DCW	SPRD		3	1558	B59		13
176	4	010		B	PTEST		4	1559	B U37		14
177	4	020	ALL	C	NEW-1, @\$0@		7	1563	C A24 E92		14
178	4	030		BU	PTEST		5	1570	B U37 /		14
179	4	040		B	PTGTSY		4	1575	B P57		14
180	4	050		MLC	@A@, CURNT-2		7	1579	M E93 A20		14
181	4	060		MZ	@-@, CURNT		7	1586	Y E94 A22		14
182	4	070		B	PTEST		4	1593	B U37		14
183	4	080	PRD	C	NEW, NLIT		7	1597	C A25 B41		15
184	4	090		BU	PTEST		5	1604	B U37 /		15
185	4	100		B	PTGTSY		4	1609	B P57		15
186	4	110		BCE	PSNAME, CDSW, 0		8	1613	B P49 A34 0		15
187	4	120		B	PUTX		4	1621	B 363		15
188	4	130		DCW	LVOP		3	1627	A56		15
189	4	140		B	ENTFLD		4	1628	B K27		15
190	4	150		MLC	FIELD&X2, SYM		7	1632	M A09 A59		16
191	4	160		B	PUTX		4	1639	B 363		16
192	4	170		DCW	SYM		3	1645	A59		16
193	4	180		B	TEST		4	1646	B U48		16
194	4	190	PROC	MLC	&PRTB, TBADR		7	1650	M E97 A62		16
195	4	200		B	PTEST		4	1657	B U37		16
196	4	210	DATA	B	PUTX		4	1661	B 363		16
197	4	220		DCW	SPRD		3	1667	B59		17

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
198	4	230		MLC	@B@,GT09		7	1668	M E98 Z67		17
199	4	240		MLC	&DTTB,TBADR		7	1675	M F01 A62		17
200	4	250		B	PTEST		4	1682	B U37		17
201	5	010	DVRTN	B	PTGTSY		4	1686	B P57		17
202	5	020		C	CURNT,NLIT		7	1690	C A22 B41		17
203	5	030		BE	PASSSY		5	1697	B O79 S		17
204	5	040	DVRTN1	C	CURNT,CNOP		7	1702	C A22 B47		18
205	5	050		BE	PASSSY		5	1709	B O79 S		18
206	5	060		B	TEST		4	1714	B U48		18
207	5	070	SWITCH	B	PTGTSY		4	1718	B P57		18
208	5	080		C	CURNT,CNOP		7	1722	C A22 B47		18
209	5	090		BU	TEST		5	1729	B U48 /		18
210	5	100		B	GTSYM		4	1734	B Z39		18
211	5	110		B	PUTX		4	1738	B 363		19
212	5	120		DCW	AFLIT		3	1744	B26		19
213	5	130		MLC	CURNT-2,CURNT		7	1745	M A20 A22		19
214	5	140		MLC			1	1752	M		19
215	5	150		B	PUTX		4	1753	B 363		19
216	5	160		DCW	CURNT		3	1759	A22		19
217	5	170	SWCH01	B	GTSYM		4	1760	B Z39		19
218	5	180		C	CURNT,CNOP		7	1764	C A22 B47		20
219	5	190		BU	SWCH01		5	1771	B X60 /		20
220	5	200		B	PUTX		4	1776	B 363		20
221	5	210		DCW	AFLIT		3	1782	B26		20
222	5	220		B	GTSYM		4	1783	B Z39		20
223	5	230		B	DVRTN1		4	1787	B X02		20
224	5	240	VALUE	B	PTGTSY		4	1791	B P57		20
225	5	250		C	CURNT,QUAL		7	1795	C A22 B14		21
226	6	010		BE	GTEST		5	1802	B U44 S		21
227	6	020		B	TEST		4	1807	B U48		21
228	6	030	SIZOCC	B	PTGTSY		4	1811	B P57		21
229	6	040		C	CURNT,NLIT		7	1815	C A22 B41		21
230	6	050		BE	CMPSZE		5	1822	B J87 S		21
231	6	060		C	CURNT,NLIT		7	1827	C A22 B41		21
232	6	070		BU	TEST		5	1834	B U48 /		22
233	6	080		B	PUTX		4	1839	B 363		22
234	6	090		DCW	SSZE		3	1845	B83		22
235	6	100		B	CMPSZE		4	1846	B J87		22
236	6	110		B	TEST		4	1850	B U48		22
237	6	120	MEMTST	C	NEW,NLIT		7	1854	C A25 B41		22
238	6	130		BU	PTEST		5	1861	B U37 /		22
239	6	140		B	GTSYM		4	1866	B Z39		23
240	6	150		B	ENTFLD		4	1870	B K27		23
241	6	160		C	SYMCNT,@02@		7	1874	C B09 F03		23
242	6	170		BU	TEST		5	1881	B U48 /		23
243	6	180	MEM01	C	FIELD&X2,MEMCNT&3		7	1886	C A09 B07		23
244	6	190		BH	MEM04		5	1893	B Z09 U		23
245	6	200	MEM05	MN	MEMCNT,SZSW		7	1898	D B04 /26		23
246	6	210		B	TEST		4	1905	B U48		24
247	6	220	MEM04	C	MEMCNT,@004@		7	1909	C B04 E86		24

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
248	6	230		BE	MEM05		5	1916	B Y98 S		24
249	6	240		S	&4, MEMCNT		7	1921	S E87 B04		24
250	6	250		MZ	@ @, MEMCNT		7	1928	Y F04 B04		24
251	7	010		B	MEM01		4	1935	B Y86		24
252	7	020	GT SYM	SBR	GT01&3		4	1939	H !71		24
253	7	030		MLC	@0@, CDSW		7	1943	M E90 A34		25
254	7	040		MLC	NEW, CURNT		7	1950	M A25 A22		25
255	7	050	GT02	B	GETX		4	1957	B 335		25
256	7	060		DCW	NEW		3	1963	A25		25
257	7	070		DCW	GTEOJ		3	1966	J76		25
258	7	080	GT09	NOP	GT11		4	1967	N Z83		25
259	7	090		C	NEW, SPRD		7	1971	C A25 B59		25
260	7	100		BE	GT02		5	1978	B Z57 S		26
261	7	110	GT11	C	NEW, SCARD		7	1983	C A25 A28		26
262	7	120		BE	GT03		5	1990	B !72 S		26
263	7	130		BCE	GT04, GTSW3, 0		8	1995	B !46 A33 0		26
264	7	140	GT08	MLC	@01@, CDSW		7	2003	M F06 A34		26
265	7	150		B	PUTX		4	2010	B 363		26
266	7	160		DCW	SCARD		3	2016	A28		26
267	7	170		B	PUTX		4	2017	B 363		27
268	7	180		DCW	CDSV1		3	2023	A40		27
269	7	190		B	PUTX		4	2024	B 363		27
270	7	200		DCW	CDSV2		3	2030	A37		27
271	7	210		BCE	GT05, GTSW2, 1		8	2031	B J42 A32 1		27
272	7	220		MLC	@00@, GTSW1		7	2039	M F08 A31		27
273	7	230	GT04	BCE	GT10, GTSW1, 0		8	2046	B !61 A31 0		27
274	7	240		MLC	@1@, GTSW3		7	2054	M E88 A33		28
275	7	250	GT10	MLC	@0@, GTSW4		7	2061	M E90 A30		28
276	8	010	GT01	B	*		4	2068	B !71		28
277	8	020	GT03	BCE	GT07, GTSW1, 1		8	2072	B J11 A31 1		28
278	8	030		B	GETX		4	2080	B 335		28
279	8	040		DCW	CDSV1		3	2086	A40		28
280	8	050		DCW	GTEOJ		3	2089	J76		28
281	8	060		B	GETX		4	2090	B 335		29
282	8	070		DCW	CDSV2		3	2096	A37		29
283	8	080		DCW	GTEOJ		3	2099	J76		29
284	8	090		MLC	@11@, GTSW1		7	2100	M F10 A31		29
285	8	100		B	GT02		4	2107	B Z57		29
286	8	110	GT07	B	GETX		4	2111	B 335		29
287	8	120		DCW	CDSV3		3	2117	A46		29
288	8	130		DCW	GTEOJ		3	2120	J76		30
289	8	140		B	GETX		4	2121	B 335		30
290	8	150		DCW	CDSV4		3	2127	A43		30
291	8	160		DCW	GTEOJ		3	2130	J76		30
292	8	170		MLC	@1@, GTSW2		7	2131	M E88 A32		30
293	8	180		B	GT02		4	2138	B Z57		30
294	8	190	GT05	MLC	CDSV3, CDSV1		7	2142	M A46 A40		30
295	8	200		MLC			1	2149	M		31
296	8	210		MLC	@0@, GTSW2		7	2150	M E90 A32		31
297	8	220		BCE	GT08, GTSW4, 1		8	2157	B !03 A30 1		31

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
298	8	230		MLC	@1@,GT SW1		7	2165	M E88 A31		31
299	8	240		B	GT09		4	2172	B Z67		31
300	8	250	GTEOJ	MLC	&EOJ,GT02&3		7	2176	M F13 Z60		31
301	9	010		B	GT01		4	2183	B !68		31
302	9	020	CMPSZE	SBR	CMP01&3		4	2187	H K26		32
303	9	030		B	ENTFLD		4	2191	B K27		32
304	9	040		MLC	FIELD-3&X2,SYM		7	2195	M A06 A59		32
305	9	050		B	PUTX		4	2202	B 363		32
306	9	060		DCW	SYM		3	2208	A59		32
307	9	070		MLC	FIELD&X2,SYM		7	2209	M A09 A59		32
308	9	080		B	PUTX		4	2216	B 363		32
309	9	090		DCW	SYM		3	2222	A59		33
310	9	100	CMP01	B	*		4	2223	B K26		33
311	9	110	ENTFLD	SBR	ENTFXX&3		4	2227	H L16		33
312	9	120		MLC	CURNT,SYM		7	2231	M A22 A59		33
313	9	130		MLC	@002@,X2		7	2238	M F16 094		33
314	9	140		B	GTSYM		4	2245	B Z39		33
315	9	150		B	ENTF05		4	2249	B K83		33
316	9	160		MLC	@00@,SYMCNT		7	2253	M F08 B09		34
317	9	170	ENTF01	B	GTSYM		4	2260	B Z39		34
318	9	180		C	CURNT,SYM		7	2264	C A22 A59		34
319	9	190		BE	ENTF02		5	2271	B L01 S		34
320	9	200		A	&3,X2		7	2276	A F17 094		34
321	9	210	ENTF05	MLC	CURNT,FIELD&X2		7	2283	M A22 A09		34
322	9	220		A	&1,SYMCNT		7	2290	A F18 B09		35
323	9	230		B	ENTF01		4	2297	B K60		35
324	9	240	ENTF02	B	GTSYM		4	2301	B Z39		35
325	9	250	ENTF04	BCE	ENTF03,FIELD&X2,		8	2305	B L17 A09		35
326	10	010	ENTFXX	B	*		4	2313	B L16		35
327	10	020	ENTF03	S	&1,X2		7	2317	S F18 094		35
328	10	030		MZ	@ @,X2		7	2324	Y F04 094		36
329	10	040		B	ENTF04		4	2331	B L05		36
330	10	050	PRNMRT	MLC	@00@,PCNT		7	2335	M F08 B11		36
331	10	060	PRN01	B	PTGTSY		4	2342	B P57		36
332	10	070	PRN03	C	CURNT,CNOP		7	2346	C A22 B47		36
333	10	080		BE	PRN02		5	2353	B L70 S		36
334	10	090		C	CURNT,NLIT		7	2358	C A22 B41		37
335	10	100		BU	TEST		5	2365	B U48 /		37
336	10	110	PRN02	B	PSCNME		4	2370	B M62		37
337	10	120		C	CURNT,QUAL		7	2374	C A22 B14		37
338	10	130		BE	PRN01		5	2381	B L42 S		37
339	10	140		A	&1,PCNT		7	2386	A F18 B11		37
340	10	150		BCE	TEST,PSW1,1		8	2393	B U48 B15 1		38
341	10	160		B	PRN03		4	2401	B L46		38
342	10	170	GOTO	C	NEW,NLIT		7	2405	C A25 B41		38
343	10	180		BE	PRCEED		5	2412	B M29 S		38
344	10	190		C	NEW,CNOP		7	2417	C A25 B47		38
345	10	200		BU	GOTO1		5	2424	B M51 /		38
346	10	210	PRCEED	MLC	@000@,PSW3		7	2429	M F21 B17		39
347	10	220		B	PRNMRT		4	2436	B L35		39

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
348	10	230	NLCNCK	MLC	@100@,PSW3		7	2440	M F24	B17	39
349	10	240		B	PRNMRT		4	2447	B L35		39
350	10	250	GOTO1	B	PUTX		4	2451	B 363		39
351	11	010		DCW	ALGOP		3	2457	B20		39
352	11	020		B	GTEST		4	2458	B U44		39
353	11	030	PSCNME	SBR	PSC01&3		4	2462	H N21		40
354	11	040		MLC	CURNT,SYM		7	2466	M A22	A59	40
355	11	050		B	PUTX		4	2473	B 363		40
356	11	060		DCW	PNOP		3	2479	B23		40
357	11	070	PSC02	B	GTSYM		4	2480	B Z39		40
358	11	080		C	CURNT,SYM		7	2484	C A22	A59	40
359	11	090		BE	PSC03		5	2491	B N07	S	40
360	11	100		B	PUTX		4	2496	B 363		41
361	11	110		DCW	CURNT		3	2502	A22		41
362	11	120		B	PSC02		4	2503	B M80		41
363	11	130	PSC03	B	PUTX		4	2507	B 363		41
364	11	140		DCW	PNOP		3	2513	B23		41
365	11	150		B	GTSYM		4	2514	B Z39		41
366	11	160	PSC01	B	*		4	2518	B N21		41
367	11	170	BFAFT	B	PTGTSY		4	2522	B P57		42
368	11	180		C	CURNT,NLIT		7	2526	C A22	B41	42
369	11	190		BU	TEST		5	2533	B U48	/	42
370	11	200		B	ENTFLD		4	2538	B K27		42
371	11	210		MLC	FIELD&X2,SYM		7	2542	M A09	A59	42
372	11	220		B	PUTX		4	2549	B 363		42
373	11	230		DCW	SYM		3	2555	A59		42
374	11	240		B	TEST		4	2556	B U48		43
375	11	250	RPLCG	B	PTGTSY		4	2560	B P57		43
376	12	010		B	PTEST		4	2564	B U37		43
377	12	020	STOP	B	PTGTSY		4	2568	B P57		43
378	12	030		C	CURNT,NLIT		7	2572	C A22	B41	43
379	12	040		BU	TEST		5	2579	B U48	/	43
380	12	050		BCE	STOP1,NEW,		8	2584	B N96	A25	43
381	12	060		B	TEST		4	2592	B U48		44
382	12	070	STOP1	BWZ	STOP2,NEW-1,2		8	2596	V O08	A24 2	44
383	12	080		B	TEST		4	2604	B U48		44
384	12	090	STOP2	BWZ	STOP3,NEW-2,2		8	2608	V O20	A23 2	44
385	12	100		B	TEST		4	2616	B U48		44
386	12	110	STOP3	MLC	NEW,FIELD&2		7	2620	M A25	A71	44
387	12	120		MLC	@000@,X2		7	2627	M F21	094	45
388	12	130	STOP4	BCE	STOP5,FIELD&1&X2,		8	2634	B O53	AP0	45
389	12	140		A	&1,X2		7	2642	A F18	094	45
390	12	150		B	STOP4		4	2649	B O34		45
391	12	160	STOP5	MLC	FIELD&X2,SYM		7	2653	M A09	A59	45
392	12	170		B	PUTX		4	2660	B 363		45
393	12	180		DCW	SYM		3	2666	A59		46
394	12	190		B	GTSYM		4	2667	B Z39		46
395	12	200		B	GTSYM		4	2671	B Z39		46
396	12	210		B	GTEST		4	2675	B U44		46
397	12	220	PASSSY	SBR	PSS01&3		4	2679	H P13		46

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
398	12	230		MLC	CURNT ,SYM		7	2683	M A22 A59		46
399	12	240	PSS02	B	PTGTSY		4	2690	B P57		46
400	12	250		C	CURNT ,SYM		7	2694	C A22 A59		47
401	13	010		BU	PSS02		5	2701	B O90 /		47
402	13	020		B	PTGTSY		4	2706	B P57		47
403	13	030	PSS01	B	*		4	2710	B P13		47
404	13	040	CNPASS	BCE	PSNAME ,SPNMSW ,0		8	2714	B P49 A50 0		47
405	13	050		B	PASSSY		4	2722	B O79		47
406	13	060		C	CURNT ,CNOP		7	2726	C A22 B47		47
407	13	070		BU	TEST		5	2733	B U48 /		48
408	13	080		B	PUTX		4	2738	B 363		48
409	13	090		DCW	AUTO		3	2744	A53		48
410	13	100		B	PSNAME		4	2745	B P49		48
411	13	110	PSNAME	B	PASSSY		4	2749	B O79		48
412	13	120		B	TEST		4	2753	B U48		48
413	13	130	PTGTSY	SBR	PTGT01&3		4	2757	H P75		48
414	13	140		B	PUTX		4	2761	B 363		49
415	13	150		DCW	CURNT		3	2767	A22		49
416	13	160		B	GTSYM		4	2768	B Z39		49
417	13	170	PTGT01	B	*		4	2772	B P75		49
418	13	180	TSTRTN	C	CURNT ,@\$08@		7	2776	C A22 F27		49
419	13	190		BE	ZERO		5	2783	B R87 S		49
420	13	200		C	CURNT-1 ,@\$0@		7	2788	C A21 E92		49
421	13	210		BU	TST03		5	2795	B Q18 /		50
422	13	220	FIGCON	MLC	@A@ ,CURNT-2		7	2800	M E93 A20		50
423	13	230		MZ	@-@ ,CURNT		7	2807	Y E94 A22		50
424	13	240		B	PTEST		4	2814	B U37		50
425	13	250	TST03	C	CURNT ,@.DG@		7	2818	C A22 F30		50
426	14	010		BU	TST04		5	2825	B Q38 /		50
427	14	020		B	GTSYM		4	2830	B Z39		50
428	14	030		B	GTEST		4	2834	B U44		51
429	14	040	TST04	MLC	TBADR ,X3		7	2838	M A62 099		51
430	14	050	TST01	C	0&X3 ,CURNT		7	2845	C 0?0 A22		51
431	14	060		BE	TST02		5	2852	B Q81 S		51
432	14	070		BL	PTEST		5	2857	B U37 T		51
433	14	080		BCE	PTEST ,0&X3 ,*		8	2862	B U37 0?0 *		51
434	14	090		A	&6 ,X3		7	2870	A F31 099		52
435	14	100		B	TST01		4	2877	B Q45		52
436	14	110	TST02	MLC	3&X3 ,X3		7	2881	M 0?3 099		52
437	14	120		B	0&X3		4	2888	B 0?0		52
438	14	130	DTRCD	B	GTSYM		4	2892	B Z39		52
439	14	140		C	CURNT ,SRCD		7	2896	C A22 B29		52
440	14	150		BU	DTRCD1		5	2903	B R12 /		52
441	14	160		B	GTSYM		4	2908	B Z39		53
442	14	170	DTRCD1	C	CURNT ,CNOP		7	2912	C A22 B47		53
443	14	180		BU	TEST		5	2919	B U48 /		53
444	14	190		B	DLNAME		4	2924	B R32		53
445	14	200		B	DTRCD1		4	2928	B R12		53
446	14	210	DLNAME	SBR	DLN01&3		4	2932	H R66		53
447	14	220		MLC	CURNT ,SYM		7	2936	M A22 A59		53

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
448	14	230	DLN02	B	GTSYM		4	2943	B Z39		54
449	14	240		C	CURNT ,SYM		7	2947	C A22 A59		54
450	14	250		BU	DLN02		5	2954	B R43 /		54
451	15	010		B	GTSYM		4	2959	B Z39		54
452	15	020	DLN01	B	*		4	2963	B R66		54
453	15	030	LBL	B	PTGTSY		4	2967	B P57		54
454	15	040		C	CURNT ,SRCD		7	2971	C A22 B29		54
455	15	050		BE	GTEST		5	2978	B U44 S		55
456	15	060		B	TEST		4	2983	B U48		55
457	15	070	ZERO	C	NEW ,SSPRSS		7	2987	C A25 B32		55
458	15	080		BU	FIGCON		5	2994	B Q00 /		55
459	15	090	ZRBLK	B	PTGTSY		4	2999	B P57		55
460	15	100		B	GTEST		4	3003	B U44		55
461	15	110	BLANK	C	NEW ,@\$08@		7	3007	C A25 F27		55
462	15	120		BE	ZRBLK		5	3014	B R99 S		56
463	15	130		B	PTEST		4	3019	B U37		56
464	15	140	EOJ	BCE	EOJ2 ,SZSW ,4		8	3023	B ?58 /26 4		56
465	15	150		BCE	EOJ3 ,SZSW ,8		8	3031	B ?69 /26 8		56
466	15	160		BCE	EOJ4 ,SZSW ,2		8	3039	B ?80 /26 2		56
467	15	170		MLC	@C9D@ ,DTADR		7	3047	M F34 T14		57
468	15	180		B	EOJ1		4	3054	B ?87		57
469	15	190	EOJ2	MLC	@G96@ ,DTADR		7	3058	M F37 T14		57
470	15	200		B	EOJ1		4	3065	B ?87		57
471	15	210	EOJ3	MLC	@F3V@ ,DTADR		7	3069	M F40 T14		57
472	15	220		B	EOJ1		4	3076	B ?87		57
473	15	230	EOJ4	MLC	@C9M@ ,DTADR		7	3080	M F43 T14		58
474	15	240	EOJ1	B	PUTX		4	3087	B 363		58
475	15	250		DCW	SPRD		3	3093	B59		58
476	16	010		B	PUTX		4	3094	B 363		58
477	16	020		DCW	EOP		3	3100	A17		58
478	16	030		MLC	DTADR ,DTEND		7	3101	M T14 T11		58
479	16	040		B	SUPER		4	3108	B 351		58
480	16	050		DCW	@B02@		3	3114			59
481	16	060	EOP	DCW	@.EP@		3	3117			59
482	16	070		DCW	@ @		2	3119			59
483	16	080	CURNT	DCW	#3		3	3122			59
484	16	090	NEW	DCW	#3		3	3125			59
485	16	100	SCARD	DCW	@.CD@		3	3128			59
486	16	110	SCTSW	DCW	@0@		1	3129			59
487	16	120	GTSW4	DCW	@0@		1	3130			60
488	16	130	GTSW1	DC	@0@		1	3131			60
489	16	140	GTSW2	DC	@0@		1	3132			60
490	16	150	GTSW3	DC	@0@		1	3133			60
491	16	160	CDSW	DC	@0@		1	3134			60
492	16	170	CDSV2	DCW	#3		3	3137			60
493	16	180	CDSV1	DCW	#3		3	3140			60
494	16	190	CDSV4	DCW	#3		3	3143			60
495	16	200	CDSV3	DCW	#3		3	3146			60
496	16	210	SENV	DCW	@*91@		3	3149			60
497	16	220	SPNMSW	DCW	@0@		1	3150			60

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
498	16	230	AUTO	DCW	@.AN@		3	3153			61
499	16	240	LVOP	DCW	@.LV@		3	3156			61
500	16	250	SYM	DCW	#3		3	3159			61
501	17	010	TBADR	DCW	&ENVTB		3	3162	D45		61
502	17	020		DCW	@000000@		6	3168			61
503	17	030	FIELD	DC	@ @		1	3169			61
504	17	040		DC	#32		32	3201			62
505	17	050	MEMCNT	DCW	@000@		3	3204			62
506	17	060		DC	@000@		3	3207			62
507	17	070	SYMCNT	DCW	@00@		2	3209			63
508	17	080	PCNT	DCW	@00@		2	3211			63
509	17	090	QUAL	DCW	@*32@		3	3214			63
510	17	100	PSW1	DCW	@0@		1	3215			63
511	17	110	PSW2	DC	@0@		1	3216			63
512	17	120	PSW3	DC	@0@		1	3217			63
513	17	130	ALGOP	DCW	@)99@		3	3220			63
514	17	140	PNOP	DCW	@.PN@		3	3223			63
515	17	150	AFLIT	DCW	@ @@		3	3226			63
516	17	160	SRC	DCW	@/11@		3	3229			64
517	17	170	SSPRSS	DCW	@/04@		3	3232			64
518	17	180	DTTB	DCW	@ @@		3	3235			64
519	17	190			PSNAME		3	3238	P49		64
520	17	200	NLIT	DCW	@.NL@		3	3241			64
521	17	210			PSNAME		3	3244	P49		64
522	17	220	CNOP	DCW	@.NM@		3	3247			64
523	17	230			PSNAME		3	3250	P49		65
524	17	240			@.PC@		3	3253			65
525	17	250			PSNAME		3	3256	P49		65
526	18	010	SPRD	DCW	@.PD@		3	3259			65
527	18	020			PRD		3	3262	V97		65
528	18	030			@)12@		3	3265			65
529	18	040			GTEST		3	3268	U44		65
530	18	050			@\$40@		3	3271			66
531	18	060			ALL		3	3274	V63		66
532	18	070			@*01@		3	3277			66
533	18	080			PROC		3	3280	W50		66
534	18	090	SSZE	DCW	@/10@		3	3283			66
535	18	100			SIZOCC		3	3286	Y11		66
536	18	110			@/12@		3	3289			66
537	18	120			BFAFT		3	3292	N22		67
538	18	130			@/13@		3	3295			67
539	18	140			VALUE		3	3298	X91		67
540	18	150			@/14@		3	3301			67
541	18	160			SIZOCC		3	3304	Y11		67
542	18	170			@/15@		3	3307			67
543	18	180			BFAFT		3	3310	N22		67
544	18	190			@/17@		3	3313			68
545	18	200			BFAFT		3	3316	N22		68
546	18	210			@/19@		3	3319			68
547	18	220			LBL		3	3322	R67		68

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
548	18	230			@/22@		3	3325			68
549	18	240			BLANK		3	3328	?07		68
550	18	250			@/24@		3	3331			68
551	19	010			DTRCD		3	3334	Q92		69
552	19	020			@***@		3	3337			69
553	19	030	PRTB	DCW	@ @@		3	3340			69
554	19	040			PSNAME		3	3343	P49		69
555	19	050			@.LB@		3	3346			69
556	19	060			PSNAME		3	3349	P49		69
557	19	070			@.NL@		3	3352			69
558	19	080			PSNAME		3	3355	P49		70
559	19	090			@.NM@		3	3358			70
560	19	100			PSNAME		3	3361	P49		70
561	19	110			@)03@		3	3364			70
562	19	120			NLCNCK		3	3367	M40		70
563	19	130			@)10@		3	3370			70
564	19	140			NLCNCK		3	3373	M40		70
565	19	150			@)11@		3	3376			71
566	19	160			STOP		3	3379	N68		71
567	19	170			@)20@		3	3382			71
568	19	180			GOTO		3	3385	M05		71
569	19	190			@\$40@		3	3388			71
570	19	200			ALL		3	3391	V63		71
571	19	210			@*08@		3	3394			71
572	19	220			NLCNCK		3	3397	M40		72
573	19	230			@*11@		3	3400			72
574	19	240			PRCEED		3	3403	M29		72
575	19	250			@*17@		3	3406			72
576	20	010			BFAFT		3	3409	N22		72
577	20	020			@*22@		3	3412			72
578	20	030			BFAFT		3	3415	N22		72
579	20	040			@*24@		3	3418			73
580	20	050			PSNAME		3	3421	P49		73
581	20	060			@*39@		3	3424			73
582	20	070			RPLCG		3	3427	N60		73
583	20	080			@*40@		3	3430			73
584	20	090			RPLCG		3	3433	N60		73
585	20	100			@#DC@		3	3436			73
586	20	110			PSNAME		3	3439	P49		74
587	20	120			@***@		3	3442			74
588	20	130	ENVTB	DCW	@ @@		3	3445			74
589	20	140			PSNAME		3	3448	P49		74
590	20	150			@.NM@		3	3451			74
591	20	160			CNPASS		3	3454	P14		74
592	20	170			@.NL@		3	3457			74
593	20	180			PSNAME		3	3460	P49		75
594	20	190			@*31@		3	3463			75
595	20	200			DVRTN		3	3466	W86		75
596	20	210			@*71@		3	3469			75
597	20	220			DVRTN		3	3472	W86		75

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
598	20	230			@*76@	3		3475			75
599	20	240			MEMORY	3		3478	V03		75
600	20	250			@*80@	3		3481			76
601	21	010			DVRTN	3		3484	W86		76
602	21	020			@*81@	3		3487			76
603	21	030			SWITCH	3		3490	X18		76
604	21	040			@*82@	3		3493			76
605	21	050			DVRTN	3		3496	W86		76
606	21	060			@*83@	3		3499			76
607	21	070			DVRTN	3		3502	W86		77
608	21	080			@*84@	3		3505			77
609	21	090			GTEST	3		3508	U44		77
610	21	100			@*85@	3		3511			77
611	21	110			DVRTN	3		3514	W86		77
612	21	120			@*86@	3		3517			77
613	21	130			DVRTN	3		3520	W86		77
614	21	140			@*87@	3		3523			78
615	21	150			DVRTN	3		3526	W86		78
616	21	160			@*88@	3		3529			78
617	21	170			DVRTN	3		3532	W86		78
618	21	180	SNOREL	DCW	@*90@	3		3535			78
619	21	190			NOREL	3		3538	V15		78
620	21	200			@*93@	3		3541			78
621	21	210			SECT	3		3544	V45		79
622	21	220			@*94@	3		3547			79
623	21	230			SECT	3		3550	V45		79
624	21	240			@*95@	3		3553			79
625	21	250			SPNAME	3		3556	V27		79
626	22	010			@*96@	3		3559			79
627	22	020			SECT	3		3562	V45		79
628	22	030			@*97@	3		3565			80
629	22	040			OBJECT	3		3568	U74		80
630	22	050			@*98@	3		3571			80
631	22	060			SOURCE	3		3574	U56		80
632	22	070			@/24@	3		3577			80
633	22	080			DATA	3		3580	W61		80
634	22	090			@***@	3		3583			80
635	22	100	LTORG	DCW	@004@	3		3586		3584	81
					&4	1		3587		LIT	81
					@1@	1		3588		LIT	81
					@2@	1		3589		LIT	81
					@0@	1		3590		LIT	81
					@\$0@	2		3592		LIT	81
					@A@	1		3593		LIT	81
					@-@	1		3594		LIT	82
	194				&PRTB	3		3597	C40	ADCON	82
					@B@	1		3598		LIT	82
	199				&DTTB	3		3601	B35	ADCON	82
					@02@	2		3603		LIT	82

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
					@ @		1	3604		LIT	82
					@01@		2	3606		LIT	82
					@00@		2	3608		LIT	83
					@11@		2	3610		LIT	83
	300				&EOJ		3	3613	?23	ADCON	83
					@002@		3	3616		LIT	83
					&3		1	3617		LIT	83
					&1		1	3618		LIT	83
					@000@		3	3621		LIT	83
					@100@		3	3624		LIT	84
					@\$08@		3	3627		LIT	84
					@.DG@		3	3630		LIT	84
					&6		1	3631		LIT	84
					@C9D@		3	3634		LIT	84
					@G96@		3	3637		LIT	84
					@F3V@		3	3640		LIT	84
					@C9M@		3	3643		LIT	85
636	22	110	GRMK	DCW	@}@		1	3644			85
637	22	120		END	INIT				/ T50 080		86

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CLEAR STORAGE 1 ,008015,019026,030,034041,045,053,0570571026 1
CLEAR STORAGE 2 L068112,102106,113/101099/I99,027A070028)027B0010270B0261,001/001113I0 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	010	000	JOB	1401 COBOL - B02						
102	1	020		CTL	631 11						
103	1	030	X1	EQU	89			0089			
104	1	040	X2	EQU	94			0094			
105	1	050	X3	EQU	99			0099			
106	1	060	GETX	EQU	335			0335			
107	1	070	SUPER	EQU	351			0351			
108	1	080	PUTX	EQU	363			0363			
109	1	090	LV88SW	EQU	1304			1304			
110	1	100	DVALSW	EQU	1305			1305			
111	1	110	C	EQU	1303			1303			
112	1	120	ENDADR	EQU	C&8			1311			
113	1	130	DTADR	EQU	C&11			1314			
114	1	140	LTNM1	EQU	C&26			1329			
115	1	150	LTNM	EQU	C&29			1332			
116	1	160	OVSF	EQU	C&30			1333			
117	1	170	OVFSW	EQU	C&31			1334			
118	1	180	LITSW	EQU	C&36			1339			
119	1	190	SYSW	EQU	C&37			1340			
120	1	200		ORG	1350				1350		
121	1	210	INIT	B	GTSYM	4		1350	B P23		4
122	1	220		B	PUTX	4		1354	B 363		4
123	1	230		DCW	CURNT	3		1360	K41		4
124	1	240		C	CURNT,SDATA	7		1361	C K41 K44		4
125	1	250		BU	INIT	5		1368	B T50 /		4
126	2	010		SW	GRMK	4		1373	, K70		4
127	2	020		MLC	DTADR,ENDADR	7		1377	M T14 T11		4
128	2	030		MLC	LTNM1,LTNM	7		1384	M T29 T32		5
129	2	040		BCE	GTEST,LITSW,0	8		1391	B U17 T39 0		5
130	2	050		MLC	@N@,TEST	7		1399	M Q54 U21		5
131	2	060		B	GTEST	4		1406	B U17		5
132	2	070	PTEST	B	PUTX	4		1410	B 363		5
133	2	080		DCW	CURNT	3		1416	K41		5
134	2	090	GTEST	B	GTSYM	4		1417	B P23		5
135	2	100	TEST	B	PRTEST	4		1421	B W71		6
136	2	110	TEST1	NOF	LTEST	4		1425	N V81		6
137	2	120		C	CURNT,SPROC	7		1429	C K41 K47		6
138	2	130		BU	LFDTS	5		1436	B U49 /		6
139	2	140		B	PTGTSY	4		1441	B Q07		6
140	2	150		B	*-7	4		1445	B U41		6
141	2	160	LFDTS	BCE	LFDTS1,FDSW,1	8		1449	B V12 K51 1		6
142	2	170		C	CURNT,LVOP	7		1457	C K41 K67		7
143	2	180		BU	LFDTS3	5		1464	B U89 /		7
144	2	190	LFDTS4	B	PTGTSY	4		1469	B Q07		7
145	2	200		C	CURNT,@088@	7		1473	C K41 Q57		7
146	2	210		BU	PTEST	5		1480	B U10 /		7
147	2	220		B	LFDTS5	4		1485	B V01		7

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	2	230	LFDT3	C	CURNT,FDOP		7	1489	C K41 K54		7
149	2	240		BU	LFDT3		5	1496	B V35 /		8
150	2	250	LFDT5	MLC	@1@,FDSW		7	1501	M Q58 K51		8
151	3	010		B	PTEST		4	1508	B U10		8
152	3	020	LFDT1	C	CURNT,LVOP		7	1512	C K41 K67		8
153	3	030		BU	PTEST		5	1519	B U10 /		8
154	3	040		MLC	@0@,FDSW		7	1524	M Q59 K51		8
155	3	050		B	LFDT4		4	1531	B U69		8
156	3	060	LFDT2	C	CURNT,SVAL		7	1535	C K41 K82		9
157	3	070		BU	LTST02		5	1542	B W13 /		9
158	3	080		B	GTSYM		4	1547	B P23		9
159	3	090		C	CURNT,SPACE		7	1551	C K41 K85		9
160	3	100		BE	GTEST		5	1558	B U17 S		9
161	3	110		B	PUTX		4	1563	B 363		9
162	3	120		DCW	SVAL		3	1569	K82		9
163	3	130		MLC	@1@,DVALSW		7	1570	M Q58 T05		10
164	3	140		B	LTST02		4	1577	B W13		10
165	3	150	LTEST	C	CURNT,RPLSY		7	1581	C K41 K91		10
166	3	160		BE	LTST03		5	1588	B W05 S		10
167	3	170		C	CURNT,TLLYSY		7	1593	C K41 K88		10
168	3	180		BU	LTST02		5	1600	B W13 /		10
169	3	190	LTST03	B	PTGTSY		4	1605	B Q07		10
170	3	200		B	PTEST		4	1609	B U10		11
171	3	210	LTST02	C	CURNT,SALL		7	1613	C K41 K57		11
172	3	220		BU	LTST01		5	1620	B W36 /		11
173	3	230		B	GTSYM		4	1625	B P23		11
174	3	240		MLC	@1@,ALLSW		7	1629	M Q58 K64		11
175	3	250	LTST01	C	CURNT,AFLIT		7	1636	C K41 K60		11
176	4	010		BE	AFTRTN		5	1643	B Y18 S		11
177	4	020		C	CURNT,NLIT		7	1648	C K41 K63		12
178	4	030		BE	NLTRTN		5	1655	B Y33 S		12
179	4	040		MLC	@0@,ALLSW		7	1660	M Q59 K64		12
180	4	050		B	PTEST		4	1667	B U10		12
181	4	060	PRTEST	C	CURNT,SPROC		7	1671	C K41 K47		12
182	4	070		BU	PRLT01		5	1678	B X01 /		12
183	4	080		MLC	@N@,TEST		7	1683	M Q54 U21		13
184	4	090		MLC	@B@,TEST1		7	1690	M Q60 U25		13
185	4	100		B	PTEST		4	1697	B U10		13
186	4	110	PRLT01	C	CURNT,SPRD		7	1701	C K41 K50		13
187	4	120		BU	PRLT02		5	1708	B Y06 /		13
188	4	130		B	GTSYM		4	1713	B P23		13
189	4	140		C	CURNT,LVOP		7	1717	C K41 K67		14
190	4	150		BE	PRLT03		5	1724	B X47 S		14
191	4	160		MLC	@0@,SW88		7	1729	M Q59 K95		14
192	4	170		B	PUTX		4	1736	B 363		14
193	4	180		DCW	SPRD		3	1742	K50		14
194	4	190		B	TEST		4	1743	B U21		14
195	4	200	PRLT03	MLC	@0@,SW88		7	1747	M Q59 K95		14
196	4	210		B	GTSYM		4	1754	B P23		15
197	4	220		C	CURNT,@088@		7	1758	C K41 Q57		15

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
198	4	230		BU	PRLT04		5	1765	B X95 /		15
199	4	240		MLC	@1@,SW88		7	1770	M Q58 K95		15
200	4	250		MLC	@1@,LV88SW		7	1777	M Q58 T04		15
201	5	010	PRLT05	B	PUTX		4	1784	B 363		15
202	5	020		DCW	LVOP		3	1790	K67		15
203	5	030		B	PTEST		4	1791	B U10		16
204	5	040	PRLT04	B	PUTX		4	1795	B 363		16
205	5	050		DCW	SPRD		3	1801	K50		16
206	5	060		B	PRLT05		4	1802	B X84		16
207	5	070	PRLT02	BCE	LTEST,SW88,1		8	1806	B V81 K95 1		16
208	5	080		B	PTEST		4	1814	B U10		16
209	5	090	AFTRTN	MLC	@0@,NLSW		7	1818	M Q59 K68		16
210	5	100		B	ENTAFT		4	1825	B J26		17
211	5	110		B	LKNAME		4	1829	B M34		17
212	5	120	NLTRTN	MLC	@1@,NLSW		7	1833	M Q58 K68		17
213	5	130		MLC	@0@,ALLSW		7	1840	M Q59 K64		17
214	5	140		B	ENTFLD		4	1847	B N15		17
215	5	150		B	LKNAME		4	1851	B M34		17
216	5	160	FOUND	BCE	FND01,ALLSW,0		8	1855	B Y77 K64 0		17
217	5	170		MZ	@-@,GCN		7	1863	Y Q61 K76		18
218	5	180		MLC	@0@,ALLSW		7	1870	M Q59 K64		18
219	5	190	FND01	B	PUTX		4	1877	B 363		18
220	5	200		DCW	GCN		3	1883	K76		18
221	5	210		B	TEST		4	1884	B U21		18
222	5	220	NTFND	BCE	OUTCN,OVFSW,1		8	1888	B Z81 T34 1		18
223	5	230		LCA	FIELD&X2,0&X3		7	1896	L KR6 0?0		19
224	5	240		SBR	ENDADR		4	1903	H T11		19
225	5	250		BCE	NTFN01,ALLSW,0		8	1907	B Z29 K64 0		19
226	6	010		MZ	@-@,GCN		7	1915	Y Q61 K76		19
227	6	020		MLC	@0@,ALLSW		7	1922	M Q59 K64		19
228	6	030	NTFN01	B	PUTX		4	1929	B 363		19
229	6	040		DCW	GCN		3	1935	K76		20
230	6	050		MZ	@ @,GCN		7	1936	Y Q62 K76		20
231	6	060		MLC	GCN,LTNM1		7	1943	M K76 T29		20
232	6	070		BCE	NTFN02,OVCHR,|		8	1950	B Z69 ?07 |		20
233	6	080	NTFN03	MLC	@1@,OVFSW		7	1958	M Q58 T34		20
234	6	090		B	TEST		4	1965	B U21		20
235	6	100	NTFN02	BWZ	TEST,OVCHR,1		8	1969	V U21 ?07 1		21
236	6	110		B	NTFN03		4	1977	B Z58		21
237	6	120	OUTCN	MLC	@1@,OVSW		7	1981	M Q58 T33		21
238	6	130		BCE	OUTCN1,ALLSW,0		8	1988	B !10 K64 0		21
239	6	140		B	PUTX		4	1996	B 363		21
240	6	150		DCW	SALL		3	2002	K57		21
241	6	160		MLC	@0@,ALLSW		7	2003	M Q59 K64		22
242	6	170	OUTCN1	BCE	OUTNM,NLSW,1		8	2010	B O02 K68 1		22
243	6	180		SW	FIELD&1&X2		4	2018	, KR7		22
244	6	190		MLC	@000@,X2		7	2022	M Q65 094		22
245	6	200		B	OUTA02		4	2029	B !48		22
246	6	210	OUTA01	A	&1,X2		7	2033	A Q66 094		22
247	6	220		BWZ	OUTAXX,FIELD&X2,1		8	2040	V J18 KR6 1		23

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
248	6	230	OUTA02	MLC	@ @,OUTSYM		7	2048	M Q69 K94		23
249	6	240		BCE	OUTA04, FIELD&X2, |		8	2055	B !96 KR6	|	23
250	6	250		BCE	OUTA05, FIELD&X2, }		8	2063	B J07 KR6	}	23
251	7	010		MZ	FIELD&X2,OUTSYM		7	2071	Y KR6 K94		23
252	7	020		MN	FIELD&X2,OUTSYM		7	2078	D KR6 K94		24
253	7	030	OUTA03	B	PUTX		4	2085	B 363		24
254	7	040		DCW	OUTSYM		3	2091	K94		24
255	7	050		B	OUTA01		4	2092	B !33		24
256	7	060	OUTA04	MLC	@ RM@,OUTSYM		7	2096	M Q72 K94		24
257	7	070		B	OUTA03		4	2103	B !85		24
258	7	080	OUTA05	MLC	@ GM@,OUTSYM		7	2107	M Q75 K94		24
259	7	090		B	OUTA03		4	2114	B !85		25
260	7	100	OUTAXX	CW	FIELD&X2		4	2118	) KR6		25
261	7	110		B	TEST		4	2122	B U21		25
262	7	120	ENTAFT	SBR	ENTA01&3		4	2126	H K38		25
263	7	130		MLC	@000@,X2		7	2130	M Q65 094		25
264	7	140		B	ENTA02		4	2137	B K06		25
265	7	150	ENTA03	B	GTSYM		4	2141	B P23		25
266	7	160		A	&1,X2		7	2145	A Q66 094		26
267	7	170		BCE	ENTAXX,CURNT,@		8	2152	B K24 K41 @		26
268	7	180		C	CURNT,@ RM@		7	2160	C K41 Q72		26
269	7	190		BU	ENTA04		5	2167	B J83 /		26
270	7	200		MLC	@|@,FIELD&X2		7	2172	M Q76 KR6		26
271	7	210		B	ENTA03		4	2179	B J41		26
272	7	220	ENTA04	C	CURNT,@ GM@		7	2183	C K41 Q75		27
273	7	230		BU	ENTA02		5	2190	B K06 /		27
274	7	240		MLC	GRMK, FIELD&X2		7	2195	M K70 KR6		27
275	7	250		B	ENTA03		4	2202	B J41		27
276	8	010	ENTA02	MZ	CURNT, FIELD&X2		7	2206	Y K41 KR6		27
277	8	020		MN	CURNT, FIELD&X2		7	2213	D K41 KR6		27
278	8	030		B	ENTA03		4	2220	B J41		28
279	8	040	ENTAXX	MLC	@@@, FIELD&X2		7	2224	M Q77 KR6		28
280	8	050		B	GTSYM		4	2231	B P23		28
281	8	060	ENTA01	B	*		4	2235	B K38		28
282	8	070	CURNT	DCW	#3		3	2241			28
283	8	080	SDATA	DCW	@/24@		3	2244			28
284	8	090	SPROC	DCW	@*01@		3	2247			28
285	8	100	SPRD	DCW	@.PD@		3	2250			29
286	8	110	FDSW	DCW	@0@		1	2251			29
287	8	120	FDOP	DCW	@/26@		3	2254			29
288	8	130	SALL	DCW	@\$40@		3	2257			29
289	8	140	AFLIT	DCW	@ @@		3	2260			29
290	8	150	NLIT	DCW	@.NL@		3	2263			29
291	8	160	ALLSW	DCW	@0@		1	2264			29
292	8	170	LVOP	DCW	@.LV@		3	2267			30
293	8	180	NLSW	DCW	@0@		1	2268			30
294	8	190	CDSW	DCW	@0@		1	2269			30
295	8	200	GRMK	DC	@}@		1	2270			30
296	8	210	CDSYM	DCW	@.CD@		3	2273			30
297	8	220	GCN	DCW	#3		3	2276			30

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
298	8	230	EOP	DCW	@.EP@		3	2279			30
299	8	240	SVAL	DCW	@/13@		3	2282			30
300	8	250	SPACE	DCW	@A0K@		3	2285			31
301	9	010	TLLYSY	DCW	@*39@		3	2288			31
302	9	020	RPLSY	DCW	@*40@		3	2291			31
303	9	030	OUTSYM	DCW	#3		3	2294			31
304	9	040	SW88	DCW	@0@		1	2295			31
305	9	050	FIELD	DCW	@ @		1	2296			31
306	9	060		DC	#50		50	2346			33
307	9	070		DC	#50		50	2396			35
308	9	080		DC	#22		22	2418			35
309	9	090	CNRTN	SBR	CNR01&3		4	2419	H M33		35
310	9	100		A	&1,GCN		7	2423	A Q66 K76		36
311	9	110	CNR01	B	*		4	2430	B M33		36
312	9	120	LKNAME	MLC	LTNM,GCN		7	2434	M T32 K76		36
313	9	130		MLC	DTADR,X3		7	2441	M T14 099		36
314	9	140	LK01	C	X3,ENDADR		7	2448	C 099 T11		36
315	9	150		BE	NTFND		5	2455	B Y88 S		36
316	9	160		C	0&X3,FIELD&X2		7	2460	C 0?0 KR6		37
317	9	170		SAR	X3		4	2467	Q 099		37
318	9	180		BU	LK04		5	2471	B N03 /		37
319	9	190		BWZ	FOUND,1&X3,1		8	2476	V Y55 0?1 1		37
320	9	200	LK03	C	0&X3,0&X3		7	2484	C 0?0 0?0		37
321	9	210		SAR	X3		4	2491	Q 099		37
322	9	220	LK02	B	CNRTN		4	2495	B M19		37
323	9	230		B	LK01		4	2499	B M48		38
324	9	240	LK04	BWZ	LK02,1&X3,1		8	2503	V M95 0?1 1		38
325	9	250		B	LK03		4	2511	B M84		38
326	10	010	ENTFLD	SBR	ENTF01&3		4	2515	H N83		38
327	10	020		MLC	@002@,X2		7	2519	M Q80 094		38
328	10	030		B	GTSYM		4	2526	B P23		38
329	10	040		B	ENTF03		4	2530	B N57		38
330	10	050	ENTF02	B	GTSYM		4	2534	B P23		39
331	10	060		C	CURNT,NLIT		7	2538	C K41 K63		39
332	10	070		BE	ENTF04		5	2545	B N68 S		39
333	10	080		A	&3,X2		7	2550	A Q81 094		39
334	10	090	ENTF03	MLC	CURNT,FIELD&X2		7	2557	M K41 KR6		39
335	10	100		B	ENTF02		4	2564	B N34		39
336	10	110	ENTF04	BCE	ENTF05,FIELD&X2,		8	2568	B N84 KR6		40
337	10	120		B	GTSYM		4	2576	B P23		40
338	10	130	ENTF01	B	*		4	2580	B N83		40
339	10	140	ENTF05	S	&1,X2		7	2584	S Q66 094		40
340	10	150		MZ	@ @,X2		7	2591	Y Q62 094		40
341	10	160		B	ENTF04		4	2598	B N68		40
342	10	170	OUTNM	B	PUTX		4	2602	B 363		40
343	10	180		DCW	NLIT		3	2608	K63		41
344	10	190		SW	FIELD&1&X2		4	2609	, KR7		41
345	10	200		MLC	@000@,X2		7	2613	M Q65 094		41
346	10	210	OUTNM2	MLC	@ @,OUTSYM		7	2620	M Q69 K94		41
347	10	220		MLC	@000@,X3		7	2627	M Q65 099		41

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
348	10	230	OUTNM3	BWZ	OUTNMX, FIELD&X2, 1	8		2634	V O93 KR6	1	41
349	10	240		MZ	FIELD&X2, OUTSYM-2&X3	7		2642	Y KR6 KI2		42
350	10	250		MN	FIELD&X2, OUTSYM-2&X3	7		2649	D KR6 KI2		42
351	11	010		A	&1, X2	7		2656	A Q66 094		42
352	11	020		A	&1, X3	7		2663	A Q66 099		42
353	11	030		C	X3, @003@	7		2670	C 099 Q84		42
354	11	040		BU	OUTNM3	5		2677	B O34 /		43
355	11	050		B	PUTX	4		2682	B 363		43
356	11	060		DCW	OUTSYM	3		2688	K94		43
357	11	070		B	OUTNM2	4		2689	B O20		43
358	11	080	OUTNMX	BCE	OUTNM4, X3, 0	8		2693	B P08 099 0		43
359	11	090		B	PUTX	4		2701	B 363		43
360	11	100		DCW	OUTSYM	3		2707	K94		43
361	11	110	OUTNM4	B	PUTX	4		2708	B 363		44
362	11	120		DCW	NLIT	3		2714	K63		44
363	11	130		CW	FIELD&X2	4		2715	) KR6		44
364	11	140		B	TEST	4		2719	B U21		44
365	11	150	GTSYM	SBR	GT01&3	4		2723	H P52		44
366	11	160	GT08	B	GETX	4		2727	B 335		44
367	11	170		DCW	CURNT	3		2733	K41		44
368	11	180		DCW	EOJ	3		2736	Q26		45
369	11	190	GT03	C	CURNT, CDSYM	7		2737	C K41 K73		45
370	11	200		BE	GT02	5		2744	B P53 S		45
371	11	210	GT01	B	*	4		2749	B P52		45
372	11	220	GT02	MLC	@0@, CDSW	7		2753	M Q59 K69		45
373	11	230	GT04	B	PUTX	4		2760	B 363		45
374	11	240		DCW	CURNT	3		2766	K41		45
375	11	250		B	GETX	4		2767	B 335		46
376	12	010		DCW	CURNT	3		2773	K41		46
377	12	020		DCW	EOJ	3		2776	Q26		46
378	12	030		A	&1, CDSW	7		2777	A Q66 K69		46
379	12	040		BCE	GT03, CDSW, 3	8		2784	B P37 K69 3		46
380	12	050		B	GT04	4		2792	B P60		46
381	12	060	GT05	B	PUTX	4		2796	B 363		46
382	12	070		DCW	CURNT	3		2802	K41		47
383	12	080		B	GT08	4		2803	B P27		47
384	12	090	PTGTSY	SBR	PTGT01&3	4		2807	H Q25		47
385	12	100		B	PUTX	4		2811	B 363		47
386	12	110		DCW	CURNT	3		2817	K41		47
387	12	120		B	GTSYM	4		2818	B P23		47
388	12	130	PTGT01	B	*	4		2822	B Q25		47
389	12	140	EOJ	B	PUTX	4		2826	B 363		48
390	12	150		DCW	EOP	3		2832	K79		48
391	12	160		A	&1, LTNM1	7		2833	A Q66 T29		48
392	12	170		MLC	@0@, OVFSW	7		2840	M Q59 T34		48
393	12	180		B	SUPER	4		2847	B 351		48
394	12	190		DCW	@B11@	3		2853			48
395	12	200		LTORG					2854		
				DCW	@N@	1		2854		LIT	48
					@088@	3		2857		LIT	49

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
					@1@		1	2858		LIT	49
					@0@		1	2859		LIT	49
					@B@		1	2860		LIT	49
					@-@		1	2861		LIT	49
					@ @		1	2862		LIT	49
					@000@		3	2865		LIT	49
					&1		1	2866		LIT	50
					@ @		3	2869		LIT	50
					@ RM@		3	2872		LIT	50
					@ GM@		3	2875		LIT	50
					@|@		1	2876		LIT	50
					@@@		1	2877		LIT	50
					@002@		3	2880		LIT	50
					&3		1	2881		LIT	51
					@003@		3	2884		LIT	51
396	12	210		ORG	*&122				3007		
397	12	220	OVCHR	DCW	@ @		1	3007			52
398	12	230		DCW	@}@		1	3008			52
399	12	240		END	INIT				/ T50 080		53

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CLEAR STORAGE 1      ,008015,019026,030,034041,045,053,0570571026      1
CLEAR STORAGE 2      L068112,102106,113/101099/I99,027A070028)027B0010270B0261,001/001113I0      2
BOOTSTRAP            ,008015,022029,036040,047054,061068,072/061039      ,0010011040      3

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1401 COBOL - B11

PAGE 1

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
101	1	010	000	JOB	1401 COBOL - B11						
102	1	020		CTL	631 11						
103	1	030		ORG	1350				1350		
104	1	040	X1	EQU	89			0089			
105	1	050	X2	EQU	94			0094			
106	1	060	X3	EQU	99			0099			
107	1	070	GETX	EQU	335			0335			
108	1	080	IORW	EQU	343			0343			
109	1	090	SUPER	EQU	351			0351			
110	1	100	DUMP	EQU	359			0359			
111	1	110	PUTX	EQU	363			0363			
112	1	120	CONST	EQU	188			0188			
113	1	130	SCRBKT	EQU	1126			1126			
114	1	140	TBLEFT	EQU	1311			1311			
115	1	150	TBLRT	EQU	1314			1314			
116	1	160	NAMBKT	EQU	1332			1332			
117	1	170	LSTNAM	EQU	1329			1329			
118	1	180	OVSU	EQU	1333			1333			
119	1	190	LITSW	EQU	1339			1339			
120	1	200		MLC	NAMBKT,NAME1	7		1350	M T32 Z12		4
121	1	210		MLC	TBLRT,X2	7		1357	M T14 094		4
122	1	220		BCE	AA1,LITSW,0	8		1364	B U05 T39 0		4
123	1	230		MLC	@@.LT@,LITIND	7		1372	M M90 Z15		4
124	1	240		BCE	AA2,OVSU,1	8		1379	B U39 T33 1		4
125	1	250		MLC	@B03@,NXTPHS	7		1387	M M93 Z79		5
126	2	010		MLC	@B@,EOJ2	7		1394	M M94 Z49		5
127	2	020		B	AA2	4		1401	B U39		5
128	2	030	AA1	C	NAMBKT,@S01@	7		1405	C T32 M97		5
129	2	040		BU	*&8	5		1412	B U24 /		5
130	2	050		B	PLACE	4		1417	B !32		5
131	2	060		DCW	&@.DD@	3		1423	N00		5
132	2	070		BCE	AA2,OVSU,1	8		1424	B U39 T33 1		6
133	2	080		MLC	@1@,LITSW	7		1432	M N01 T39		6
134	2	090	AA2	MLC	@0@,OVSU	7		1439	M N02 T33		6
135	2	100		C	TBLRT,TBLEFT	7		1446	C T14 T11		6
136	2	110		BE	EOJ3	5		1453	B Z28 S		6
137	2	120	BGN1	C	X2,TBLEFT	7		1458	C 094 T11		7
138	2	130		BE	EOJ1	5		1465	B Z16 S		7
139	2	140		MLC	DUBNUL,SIZE1	7		1470	M !30 Z09		7
140	2	150		MLC	DUBNUL	4		1477	M !30		7
141	2	160		MLC		1		1481	M		7
142	2	170		MLC	@0@,DECSW	7		1482	M N02 !31		7
143	2	180		B	PLACE	4		1489	B !32		7
144	2	190		DCW	LITIND	3		1495	Z15		8
145	2	200		B	PLACE	4		1496	B !32		8
146	2	210		DCW	NAME1	3		1502	Z12		8
147	2	220		MLC	&BGNCRD,X3	7		1503	M N05 099		8

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	2	230		B	SRPLST		4	1510	B V83		8
149	2	240		B	RSETUP	SETUP LETERAL FOR PLACING	4	1514	B W21		8
150	2	250	BGNCD1	B	ROUTLT	PUT OUT LITERIAL	4	1518	B X08		8
151	3	010	BGNCD2	MLC	&ENDCD,X3	PLACE CARD ENDING SYMBOLS STRING	7	1522	M N08	099	9
152	3	020		B	SRPLST		4	1529	B V83		9
153	3	030		B	PLACE		4	1533	B !32		9
154	3	040		DCW	NAME1		3	1539	Z12		9
155	3	050		B	PLACE		4	1540	B !32		9
156	3	060		DCW	SIZE		3	1546	Z06		9
157	3	070		B	PLACE		4	1547	B !32		9
158	3	080		DCW	SIZE1		3	1553	Z09		10
159	3	090		B	PLACE		4	1554	B !32		10
160	3	100		DCW	DECONT		3	1560	Z03		10
161	3	110		MLC	&DESCST,X3	PLACE DESCRIPTION STRING	7	1561	M N11	099	10
162	3	120		B	SRPLST		4	1568	B V83		10
163	3	130		A	@1@,NAME1		7	1572	A N01	Z12	10
164	3	140		B	BGN1		4	1579	B U58		10
165	3	150		*	PLACE STRING	RIT ADDRESS OF STRING INTO X3 AND SYMBOLS ARE					
166	3	160		*	PLACED FROM RIGHT	TO LEFT UNTIL WDMK					
167	3	170	SRPLST	SBR	XPLST&3		4	1583	H W20		11
168	3	180	SPLST1	MLC	0&X3,LITSYM		7	1587	M 0?0	N22	11
169	3	190		SAR	X3		4	1594	Q 099		11
170	3	200		B	PLACE		4	1598	B !32		11
171	3	210		DCW	LITSYM		3	1604	N22		11
172	3	220		BWZ	XPLST,1&X3,1	BRANCH IF END OF LITERAL	8	1605	V W17	0?1 1	11
173	3	230		B	SPLST1		4	1613	B V87		11
174	3	240	XPLST	B	0		4	1617	B 000		12
175	3	250		*	RSETUP	PUSTS BOTH ALPHA AND NUMERIC LITS INTO SAME FORM					
176	4	010	RSETUP	MLC	@@@,1&X2	PUT IN DELIMITING COMAT SIGN	7	1621	M N12	0!1	12
177	4	020		SBR	X1		4	1628	H 089		12
178	4	030		MLC	0&X2,0&X2	FIND LEFT POSITION OF LITERIAL	7	1632	M 0!0	0!0	12
179	4	040		SBR	X2		4	1639	H 094		12
180	4	050		BCE	RSETAL,1&X2,@		8	1643	B W89	0!1 @	12
181	4	060		MLC	@ 9@,CLASS		7	1651	M N15	Z00	13
182	4	070		BCE	*&5,1&X2,	BRANCH IF SIGN	8	1658	B W70	0!1	13
183	4	080		B	BGNCD1	BRANCH IF NO SIGN	4	1666	B V18		13
184	4	090		MLZS	3&X2,0&X1	PLACE SIGN OVER LOW ORDER DIGET	7	1670	Y 0!3	0|0	13
185	4	100		CW	4&X2		4	1677	) 0!4		13
186	4	110		SBR	X2	SET POINTER TO FIRST SIG H/O DIGE	4	1681	H 094		13
187	4	120		B	BGNCD1		4	1685	B V18		13
188	4	130	RSETAL	MLC	@ X@,CLASS	SET ALPHANUMERIC CLASS	7	1689	M N18	Z00	14
189	4	140	RSETSG	CW	2&X2	SHIFT X2 POINTER 1 TO RIGHT	4	1696	) 0!2		14
190	4	150		SBR	X2		4	1700	H 094		14
191	4	160		B	BGNCD1		4	1704	B V18		14
192	4	170	ROUTLT	MLC	1&X2,LITCHR#1		7	1708	M 0!1	N19	14
193	4	180	OUTLT3	BCE	OUTGM,LITCHR,}	BRANCH IF GROUP MARK	8	1715	B Y40	N19 }	14
194	4	190		BCE	OUTRM,LITCHR,|	BRANCH IF RECORD MARK	8	1723	B Y51	N19 |	15
195	4	200		BCE	DCIML,LITCHR,.		8	1731	B Y21	N19 .	15
196	4	210	OUTLT2	MLC	LITCHR,LITSYM#3		7	1739	M N19	N22	15
197	4	220		B	PLACE		4	1746	B !32		15

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
198	4	230		DCW	LITSYM		3	1752	N22		15
199	4	240		BCE	OUTLT1,LITSYM,@	BRANCH IF END OF LIT	8	1753	B X80 N22 @		15
200	4	250		B	RSIZE	COUNT SIZE AND DECIMAL	4	1761	B X95		16
201	5	010	OUTLT4	MLC	2&X2,LITCHR		7	1765	M 0!2 N19		16
202	5	020		SAR	X2		4	1772	Q 094		16
203	5	030		B	OUTLT3		4	1776	B X15		16
204	5	040	OUTLT1	MLC	0&X2,0&X2	RESET X2 FOR NEXT LITERAL	7	1780	M 0!0 0!0		16
205	5	050		SBR	X2		4	1787	H 094		16
206	5	060		B	BGNCD2		4	1791	B V22		16
207	5	070	RSIZE	A	@1@,SIZE1		7	1795	A N01 Z09		17
208	5	080		BCE	OUTLT4,DECSW,0	SKIP IF NO DECIMAL	8	1802	B X65 !31 0		17
209	5	090		A	@1@,DECONT		7	1810	A N01 Z03		17
210	5	100		B	OUTLT4		4	1817	B X65		17
211	5	110	DCIML	BCE	OUTLT2,CLASS,X	IGNORE . IF ALPHANUMERIC CLASS	8	1821	B X39 Z00 X		17
212	5	120		MLC	@1@,DECSW		7	1829	M N01 !31		18
213	5	130		B	OUTLT4		4	1836	B X65		18
214	5	140	OUTGM	B	PLACE		4	1840	B !32		18
215	5	150		DCW	&@ GM@		3	1846	N25		18
216	5	160		B	RSIZE		4	1847	B X95		18
217	5	170	OUTRM	B	PLACE		4	1851	B !32		18
218	5	180		DCW	&@ RM@		3	1857	N28		18
219	5	190		B	RSIZE		4	1858	B X95		19
220	5	200		DCW	@ @.OPDCW.LC@	BEGIN CARD STRING	12	1873	#####		19
221	5	210	BGNCRD	EQU	*	#####			1873		
222	5	220		DCW	@.DS.DE.MC@	END OF CARD W/ DELIMITERS	9	1882	####		19
223	5	230	ENDCD	EQU	*	#####			1882		
224	5	240		DCW	@.DS@	#####			1885		19
225	5	250		DC	@.KK K E001@	#####	12	1897			20
226	6	010	CLASS	DC	@000@	#####	3	1900			20
227	6	020	DESCST	EQU	*	DESCRIPTION STRING			1900	#####	
228	6	030	DECONT	DCW	@000@	#####	3	1903			20
229	6	040	SIZE	DCW	@000@	#####	3	1906			20
230	6	050	SIZE1	DC	@000@	#####	3	1909			20
231	6	060	NAME1	DCW	@000@	#####	3	1912			20
232	6	070	LITIND	DCW	@.LL@	PROCEDURE LIT	3	1915			20
233	6	080	EOJ1	C	NAME1,LSTNAM		7	1916	C Z12 T29		21
234	6	090		BU	ERR015	NAMES OUT OF SEQUENCE	5	1923	B Z80 /		21
235	6	100	EOJ3	B	PLACE		4	1928	B !32		21
236	6	110		DCW	LITIND		3	1934	Z15		21
237	6	120		B	PLACE		4	1935	B !32		21
238	6	130		DCW	&@.DE@		3	1941	N31		21
239	6	140		B	PLACE		4	1942	B !32		21
240	6	150		DCW	&@.EB@		3	1948	N34		22
241	6	160	EOJ2	NOP	EOJ2A SWITCH		4	1949	N Z73		22
242	6	170		BSP	1		5	1953	U %U1 B		22
243	6	180		BSP	1		5	1958	U %U1 B		22
244	6	190		BSP	1		5	1963	U %U1 B		22
245	6	200		BSP	1		5	1968	U %U1 B		22
246	6	210	EOJ2A	B	SUPER		4	1973	B 351		22
247	6	220	NXTPHS	DCW	@B02@		3	1979			23

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
248	6	230	ERR015	CS	320		4	1980	/ 320		23
249	6	240		CS			1	1984	/		23
250	6	250		CC	1		2	1985	F 1		23
251	7	010		MLC	DIAG,260		7	1987	M !24 260		23
252	7	020		W			1	1994	2		23
253	7	030		CC	1		2	1995	F 1		23
254	7	040		B	DUMP		4	1997	B 359		24
255	7	050	DIAG	DCW	@SYSTEM FAILURE PHASE B11@		24	2024			24
256	7	060	DUBNUL	DCW	@000000@		6	2030			24
257	7	070	DECSW	DCW	@0@		1	2031			24
258	7	080	PLACE	SBR	X1		4	2032	H 089		24
259	7	090		SBR	PLC2&3,3&X1		7	2036	H J06 0|3		25
260	7	100		MLC	2&X1,PLC1&3		7	2043	M 0|2 !53		25
261	7	110	PLC1	MLC	0,PLCSY		7	2050	M 000 J86		25
262	7	120	PLC1A	MLC	PLCSY,PLCB		7	2057	M J86 J89		25
263	7	130		C	PLCSY,@.EB@		7	2064	C J86 N34		25
264	7	140		BE	PLC3		5	2071	B J07 S		26
265	7	150		C	PLC1A&6,&PLCMAX		7	2076	C !63 N37		26
266	7	160		BE	PLC3		5	2083	B J07 S		26
267	7	170		MA	@003@,PLC1A&6					MACRO	
268				SW	PLC1A&6-2		4	2088	, !61	GEN	26
269				A	@003@,PLC1A&6		7	2092	A N40 !63	GEN	26
270				CW	PLC1A&6-2		4	2099	) !61	GEN	26
271	7	180	PLC2	B	0		4	2103	B 000		26
272	7	190	PLC3	SW	PLC5&1		4	2107	, J83		27
273	7	200		B	IORW		4	2111	B 343		27
274	7	210		RT	4,PLC5		8	2115	M %U4 J82 R		27
275	7	220		DCW	PLC4		3	2125	J30		27
276	7	230		B	PLC3		4	2126	B J07		27
277	7	240	PLC4	BSP	4		5	2130	U %U4 B		27
278	7	250		SW	PLCMAX&1		4	2135	, M87		27
279	8	010		B	IORW		4	2139	B 343		28
280	8	020		WT	4,PLCA		8	2143	M %U4 J87 W		28
281	8	030		DCW	*&1		3	2153	J54		28
282	8	040		WTM	4		5	2154	U %U4 M		28
283	8	050		BSP	4		5	2159	U %U4 B		28
284	8	060		MLC	&PLCB,PLC1A&6		7	2164	M N43 !63		28
285	8	070		ZA	@0@,PLCMAX		7	2171	? N02 M86		28
286	8	080		B	PLC2		4	2178	B J03		29
287	8	090	PLC5	EQU	*&1			2182			
288	8	100		DCW	@ }@		2	2183			29
289	8	110	PLCSY	DCW	#3		3	2186			29
290	8	120		DA	1X300			2187	2486		29
291	8	130	PLCA		1			2187		SBFLD	
292	8	140	PLCB		3			2189		SBFLD	
293	8	150	PLCMAX	EQU	*			2486			
294	8	160		DC	@ }@		1	2487			30
295	8	170		LTORG					2488		
				DCW	@.LT@		3	2490		LIT	30
					@B03@		3	2493		LIT	30

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
					@B@		1	2494		LIT	30
					@S01@		3	2497		LIT	30
					@.DD@		3	2500		LIT	31
					@1@		1	2501		LIT	31
					@0@		1	2502		LIT	31
		147			&BGNCRD		3	2505	Y73	ADCON	31
		151			&ENDCD		3	2508	Y82	ADCON	31
		161			&DESCST		3	2511	Z00	ADCON	31
					@@@		1	2512		LIT	31
					@ 9@		3	2515		LIT	32
					@ X@		3	2518		LIT	32
		192	LITCHR		#01		1	2519		AREA	32
		196	LITSYM		#03		3	2522		AREA	32
					@ GM@		3	2525		LIT	32
					@ RM@		3	2528		LIT	32
					@.DE@		3	2531		LIT	32
					@.EB@		3	2534		LIT	33
		265			&PLCMAX		3	2537	M86	ADCON	33
					@003@		3	2540		LIT	33
		284			&PLCB		3	2543	J89	ADCON	33
296	8	180		DCW	@}@"		1	2544			33
297	8	190		END					/ 000 080		34

CLEAR STORAGE 1 ,008015,019026,030,034041,045,053,0570571026 1
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SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
101	1	010	000	JOB	1401 COBOL - B03						
102	1	020		CTL	631 11						
103	1	030	X1	EQU	89			0089			
104	1	040	X2	EQU	94			0094			
105	1	050	X3	EQU	99			0099			
106	1	060	GETX	EQU	335			0335			
107	1	070	SUPER	EQU	351			0351			
108	1	080	DUMP	EQU	359			0359			
109	1	090	PUTX	EQU	363			0363			
110	1	100	DTCN1	EQU	1302			1302			
111	1	110	C	EQU	1303			1303			
112	1	120	DTCN	EQU	C&5			1308			
113	1	130	DTEND	EQU	C&8			1311			
114	1	140	ENDADR	EQU	C&8			1311			
115	1	150	DTADR	EQU	C&11			1314			
116	1	160	PRCN1	EQU	C&14			1317			
117	1	170	PRCN	EQU	C&17			1320			
118	1	180	PREND	EQU	C&20			1323			
119	1	190	PRADR	EQU	C&23			1326			
120	1	200	LTNM1	EQU	C&26			1329			
121	1	210	LTNM	EQU	C&29			1332			
122	1	220	OVS	EQU	C&30			1333			
123	1	230	OVFSW	EQU	C&31			1334			
124	1	240	DOVSW	EQU	C&32			1335			
125	1	250	POVSW	EQU	C&33			1336			
126	2	010	DQSW	EQU	C&34			1337			
127	2	020	PQSW	EQU	C&35			1338			
128	2	030	LITSW	EQU	C&36			1339			
129	2	040	SYSW	EQU	C&37			1340			
130	2	050		ORG	1350				1350		
131	2	060	INIT	MLC	DTADR,ENDADR	7		1350	M T14	T11	4
132	2	070		MLC	PRCN1,PRCN	7		1357	M T17	T20	4
133	2	080		MLC	PRCN1,TBGCN	7		1364	M T17	P45	4
134	2	090		B	GTSYM	4		1371	B M53		4
135	2	100		B	PUTX	4		1375	B 363		4
136	2	110		DCW	CURNT	3		1381	O81		4
137	2	120		C	CURNT,SENV	7		1382	C O81	P10	4
138	2	130		BU	INIT	5		1389	B T50	/	5
139	2	140		B	GTEST	4		1394	B U05		5
140	2	150	PTEST	B	PUTX	4		1398	B 363		5
141	2	160		DCW	CURNT	3		1404	O81		5
142	2	170	GTEST	B	GTSYM	4		1405	B M53		5
143	2	180	TEST	MLC	@0@,QSW1	7		1409	M P81	P36	5
144	2	190		C	CURNT,LSTOP	7		1416	C O81	P18	5
145	2	200		BU	TEST3	5		1423	B U36	/	6
146	2	210		B	PTGTSY	4		1428	B O19		6
147	2	220		B	PSNAME	4		1432	B N37		6

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	2	230	TEST3	B	ENVTST		4	1436	B V10		6
149	2	240		C	CURNT,PNOP		7	1440	C O81 P21		6
150	2	250		BE	ENTDN		5	1447	B Z32 S		6
151	3	010		C	CURNT, LBOP		7	1452	C O81 O74		6
152	3	020		BU	PRTST1		5	1459	B W33 /		7
153	3	030		B	SAVFLD		4	1464	B Y98		7
154	3	040		MLC	@1@,BPYSW		7	1468	M P82 P14		7
155	3	050		B	LKNAME		4	1475	B W87		7
156	3	060		BCE	TEST,LKSW,0		8	1479	B U09 P15 0		7
157	3	070		BWZ	TEST4,0&X1,K		8	1487	V U99 0|0 K		7
158	3	080		B	TEST		4	1495	B U09		8
159	3	090	TEST4	MZ	@&@,0&X1		7	1499	Y P83 0|0		8
160	3	100		B	TEST		4	1506	B U09		8
161	3	110	ENVTST	C	CURNT,SDATA		7	1510	C O81 P13		8
162	3	120		BU	ENV01		5	1517	B V56 /		8
163	3	130		MLC	@N@,TEST3		7	1522	M P84 U36		8
164	3	140		MLC	LBOP,CNOP		7	1529	M O74 O84		9
165	3	150	ENV02	B	PTGTSY		4	1536	B O19		9
166	3	160		C	CURNT,SPROC		7	1540	C O81 O71		9
167	3	170		BU	ENV02		5	1547	B V36 /		9
168	3	180		B	PTEST		4	1552	B T98		9
169	3	190	ENV01	C	CURNT,ANOP		7	1556	C O81 P32		9
170	3	200		BU	PTEST		5	1563	B T98 /		9
171	3	210		B	PTGTSY		4	1568	B O19		10
172	3	220		C	CURNT,CNOP		7	1572	C O81 O84		10
173	3	230		BU	PTEST		5	1579	B T98 /		10
174	3	240		MLC	@1@,ATNMSW		7	1584	M P82 P28		10
175	3	250		B	SAVFLD		4	1591	B Y98		10
176	4	010		MLC	@1@,ENTSW		7	1595	M P82 P38		10
177	4	020		MLC	@-@,CHR		7	1602	M P85 P07		11
178	4	030		B	LKNAME		4	1609	B W87		11
179	4	040		BCE	TEST,LKSW,1		8	1613	B U09 P15 1		11
180	4	041		BCE	TEST,OVFSW,1		8	1621	B U09 T34 1		11
181	4	042		B	NTFND		4	1629	B J39		11
182	4	050	PRTST1	C	CURNT-1,QDIGIT		7	1633	C O80 P06		11
183	4	060		BU	PRTST2		5	1640	B W67 /		12
184	4	070		MLC	CURNT,CHR		7	1645	M O81 P07		12
185	4	080		MLC	@1@,QSW1		7	1652	M P82 P36		12
186	4	090		B	GTSYM		4	1659	B M53		12
187	4	100		B	ENTDN		4	1663	B Z32		12
188	4	110	PRTST2	C	CURNT,TBOP		7	1667	C O81 O68		12
189	4	120		BU	PTEST		5	1674	B T98 /		12
190	4	130	PRTST3	B	PTGTSY		4	1679	B O19		13
191	4	140		B	PRTST3		4	1683	B W79		13
192	4	150	LKNAME	SBR	LK05&3		4	1687	H Y29		13
193	4	160		ZA	FIELD&1,X3		7	1691	? P49 099		13
194	4	170		A	X3		4	1698	A 099		13
195	4	180		A	FIELD&1,X3		7	1702	A P49 099		13
196	4	190		MZ	@ @,X3		7	1709	Y P86 099		13
197	4	200		BCE	LK09,INTAB&X3,		8	1716	B Y71 Q?4		14

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
198	4	210		MLC	INTAB&X3,X1	7		1724	M Q?4 089		14
199	4	220	LK03	C	0&X1,FIELD&X2	7		1731	C 0|0 PM8		14
200	4	230		SAR	X1	4		1738	Q 089		14
201	4	240		BU	LK01	5		1742	B X92 /		14
202	4	250		BWZ	LK07,1&X1,1	8		1747	V Y04 0|1 1		14
203	5	010	LK04	C	0&X1	4		1755	C 0|0		15
204	5	020		SAR	X1	4		1759	Q 089		15
205	5	030	LK02	C	0&X1	4		1763	C 0|0		15
206	5	040		C		1		1767	C		15
207	5	050		C		1		1768	C		15
208	5	060		SAR	X1	4		1769	Q 089		15
209	5	070		BCE	LK06,3&X1,*	8		1773	B Y30 0|3 *		15
210	5	080		MLC	3&X1,X1	7		1781	M 0|3 089		16
211	5	090		B	LK03	4		1788	B X31		16
212	5	100	LK01	BWZ	LK02,1&X1,1	8		1792	V X63 0|1 1		16
213	5	110		B	LK04	4		1800	B X55		16
214	5	120	LK07	C	0&X1,GCN&2	7		1804	C 0|0 098		16
215	5	130		MLC		1		1811	M		16
216	5	140		MLC	@1@,LKSW	7		1812	M P82 P15		16
217	5	150	LK11	MLC	@0@,BPYSW	7		1819	M P81 P14		17
218	5	160	LK05	B	*	4		1826	B Y29		17
219	5	170	LK06	BCE	LK08,OVFSW,1	8		1830	B Y60 T34 1		17
220	5	180		BCE	LK08,BPYSW,1	8		1838	B Y60 P14 1		17
221	5	190		MLC	ENDADR,3&X1	7		1846	M T11 0|3		17
222	5	200	LK10	MLC	ENDADR,X1	7		1853	M T11 089		18
223	5	210	LK08	MLC	@0@,LKSW	7		1860	M P81 P15		18
224	5	220		B	LK11	4		1867	B Y19		18
225	5	230	LK09	BCE	LK08,OVFSW,1	8		1871	B Y60 T34 1		18
226	5	240		BCE	LK08,BPYSW,1	8		1879	B Y60 P14 1		18
227	5	250		MLC	ENDADR,INTAB&X3	7		1887	M T11 Q?4		19
228	6	010		B	LK10	4		1894	B Y53		19
229	6	020	SAVFLD	SBR	SAV01&3	4		1898	H Z31		19
230	6	030		BCE	PSNAME,ATNMSW,0	8		1902	B N37 P28 0		19
231	6	040		MLC	@1@,PTGTSW	7		1910	M P82 P39		19
232	6	050		B	ENTFLD	4		1917	B K09		19
233	6	060		MLC	@0@,PTGTSW	7		1921	M P81 P39		20
234	6	070	SAV01	B	*	4		1928	B Z31		20
235	6	080	ENTDN	B	ENTFLD	4		1932	B K09		20
236	6	090		BCE	QUALFY,QSW1,1	8		1936	B N80 P36 1		20
237	6	100		BCE	QULTST,QSW,1	8		1944	B !12 P37 1		20
238	6	110		C	CURNT,QUAL	7		1952	C 081 090		20
239	6	120		BE	QUL02	5		1959	B Z87 S		21
240	6	130		MLC	@&@,CHR	7		1964	M P83 P07		21
241	6	140	ENTDN2	B	LKNAME	4		1971	B W87		21
242	6	150	ENTDN1	BCE	NTFND,LKSW,0	8		1975	B J39 P15 0		21
243	6	160		B	FOUND	4		1983	B !53		21
244	6	170	QUL02	MLC	@1@,QSW	7		1987	M P82 P37		21
245	6	180		MLC	@1@,QSW	7		1994	M P82 T38		22
246	6	190		MLC	EQNM,CHR	7		2001	M P00 P07		22
247	6	200		B	QUALFY	4		2008	B N80		22

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
248	6	210	QULTST	C	CURNT ,QUAL		7	2012	C O81 O90		22
249	6	220		BE	QUL01		5	2019	B !42 S		22
250	6	230		MLC	HQNM, CHR		7	2024	M P02 P07		22
251	6	240		MLC	@0@, QSW		7	2031	M P81 P37		23
252	6	250		B	QUALFY		4	2038	B N80		23
253	7	010	QUL01	MLC	IQNM, CHR		7	2042	M P04 P07		23
254	7	020		B	QUALFY		4	2049	B N80		23
255	7	030	FOUND	BCE	FND01, QSW1, 0		8	2053	B J02 P36 0		23
256	7	040		MN	0&X1, TSTCHR		7	2061	D 0|0 P29		23
257	7	050		BCE	FND04, TSTCHR,		8	2068	B !84 P29		24
258	7	060		BCE	FND02, CHR, 1		8	2076	B !91 P07 1		24
259	7	070	FND04	MN	CHR, 0&X1		7	2084	D P07 0|0		24
260	7	080	FND02	B	PUTX		4	2091	B 363		24
261	7	090		DCW	GCN		3	2097	O96		24
262	7	100		B	TEST		4	2098	B U09		24
263	7	110	FND01	BCE	NOCN, ENTSW, 1		8	2102	B J28 P38 1		25
264	7	120		MZ	@&@, 0&X1		7	2110	Y P83 0|0		25
265	7	130	FND03	B	PUTX		4	2117	B 363		25
266	7	140		DCW	GCN		3	2123	O96		25
267	7	150		B	TEST		4	2124	B U09		25
268	7	160	NOCN	MLC	@0@, ENTSW		7	2128	M P81 P38		25
269	7	170		B	TEST		4	2135	B U09		25
270	7	180	NTFND	BCE	OUTCN, OVFSW, 1		8	2139	B L10 T34 1		26
271	7	190		MLC	CHR, TAG		7	2147	M P07 P47		26
272	7	200		MLC	TBGCN, GCN		7	2154	M P45 O96		26
273	7	210		LCA	FIELD&X2, 0&X1		7	2161	L PM8 0|0		26
274	7	220		LCA			1	2168	L		26
275	7	230		LCA			1	2169	L		26
276	7	240		LCA			1	2170	L		26
277	7	250		SBR	ENDADR		4	2171	H T11		27
278	8	010		A	&1, TBGCN		7	2175	A P87 P45		27
279	8	020		BCE	NTFND2, OVCHR, |		8	2182	B J97 A34 |		27
280	8	030		MLC	@1@, OVFSW		7	2190	M P82 T34		27
281	8	040	NTFND2	BCE	NOCN, ENTSW, 1		8	2197	B J28 P38 1		27
282	8	050		B	FND03		4	2205	B J17		27
283	8	060	ENTFLD	SBR	ENTF01&3		4	2209	H K91		28
284	8	070		MLC	CURNT, SYM		7	2213	M O81 O87		28
285	8	080		MLC	@002@, X2		7	2220	M P90 O94		28
286	8	090		B	ENTGT		4	2227	B O38		28
287	8	100		B	ENTF03		4	2231	B K58		28
288	8	110	ENTF02	B	ENTGT		4	2235	B O38		28
289	8	120		C	CURNT, SYM		7	2239	C O81 O87		28
290	8	130		BE	ENTF04		5	2246	B K69 S		29
291	8	140		A	&3, X2		7	2251	A P91 O94		29
292	8	150	ENTF03	MLC	CURNT, FIELD&X2		7	2258	M O81 PM8		29
293	8	160		B	ENTF02		4	2265	B K35		29
294	8	170	ENTF04	BCE	ENTF05, FIELD&X2,		8	2269	B K92 PM8		29
295	8	180		MLC	@|@, FIELD&1&X2		7	2277	M P92 PM9		29
296	8	190		B	ENTGT		4	2284	B O38		30
297	8	200	ENTF01	B	*		4	2288	B K91		30

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
298	8	210	ENTF05	S	&1,X2		7	2292	S P87 094		30
299	8	220		MZ	@ @,X2		7	2299	Y P86 094		30
300	8	230		B	ENTF04		4	2306	B K69		30
301	8	240	OUTCN	MLC	@1@,OVSW		7	2310	M P82 T33		30
302	8	250		BCE	OUTCN1,QSW1,0		8	2317	B L40 P36 0		31
303	9	010		MLC	CHR,OUTSYM		7	2325	M P07 093		31
304	9	020		MLC			1	2332	M		31
305	9	030		B	PUTX		4	2333	B 363		31
306	9	040		DCW	OUTSYM		3	2339	O93		31
307	9	050	OUTCN1	B	PUTX		4	2340	B 363		31
308	9	060		DCW	SYM		3	2346	O87		31
309	9	070		MLC	@000@,X2		7	2347	M P95 094		32
310	9	080	OUTCN2	MLC	@000@,X3		7	2354	M P95 099		32
311	9	090		MLC	@ @,OUTSYM		7	2361	M P98 093		32
312	9	100	OUTCN3	BCE	OUTCNX,FIELD&X2,|		8	2368	B M27 PM8 |		32
313	9	110		MZ	FIELD&X2,OUTSYM-2&X3		7	2376	Y PM8 OI1		32
314	9	120		MN	FIELD&X2,OUTSYM-2&X3		7	2383	D PM8 OI1		33
315	9	130		A	&1,X2		7	2390	A P87 094		33
316	9	140		A	&1,X3		7	2397	A P87 099		33
317	9	150		C	X3,@003@		7	2404	C 099 Q01		33
318	9	160		BU	OUTCN3		5	2411	B L68 /		33
319	9	170		B	PUTX		4	2416	B 363		33
320	9	180		DCW	OUTSYM		3	2422	O93		34
321	9	190		B	OUTCN2		4	2423	B L54		34
322	9	200	OUTCNX	BCE	OUTCN4,X3,0		8	2427	B M42 099 0		34
323	9	210		B	PUTX		4	2435	B 363		34
324	9	220		DCW	OUTSYM		3	2441	O93		34
325	9	230	OUTCN4	B	PUTX		4	2442	B 363		34
326	9	240		DCW	SYM		3	2448	O87		34
327	9	250		B	TEST		4	2449	B U09		35
328	10	010	GTSYM	SBR	GT01&3		4	2453	H M82		35
329	10	020	GT08	B	GETX		4	2457	B 335		35
330	10	030		DCW	CURNT		3	2463	O81		35
331	10	040		DCW	EOJ		3	2466	N98		35
332	10	050	GT03	C	CURNT,CDSYM		7	2467	C O81 078		35
333	10	060		BE	GT02		5	2474	B M83 S		35
334	10	070	GT01	B	*		4	2479	B M82		36
335	10	080	GT02	MLC	@0@,CDSW		7	2483	M P81 075		36
336	10	090	GT04	B	PUTX		4	2490	B 363		36
337	10	100		DCW	CURNT		3	2496	O81		36
338	10	110		B	GETX		4	2497	B 335		36
339	10	120		DCW	CURNT		3	2503	O81		36
340	10	130		DCW	EOJ		3	2506	N98		36
341	10	140		A	&1,CDSW		7	2507	A P87 075		37
342	10	150		BCE	GT03,CDSW,3		8	2514	B M67 075 3		37
343	10	160		B	GT04		4	2522	B M90		37
344	10	170	GT05	B	PUTX		4	2526	B 363		37
345	10	180		DCW	CURNT		3	2532	O81		37
346	10	190		B	GT08		4	2533	B M57		37
347	10	200	PSNAME	B	PASSSY		4	2537	B N45		37

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
348	10	210		B	TEST		4	2541	B U09		38
349	10	220	PASSY	SBR	PASS01&3		4	2545	H N79		38
350	10	230		MLC	CURNT,OUTSYM		7	2549	M O81	O93	38
351	10	240	PASS02	B	PTGTSY		4	2556	B O19		38
352	10	250		C	CURNT,OUTSYM		7	2560	C O81	O93	38
353	11	010		BU	PASS02		5	2567	B N56	/	38
354	11	020		B	PTGTSY		4	2572	B O19		38
355	11	030	PASS01	B	*		4	2576	B N79		39
356	11	040	QUALFY	MLC	CHR, TAG		7	2580	M P07	P47	39
357	11	050		MLC	@1@, QSW1		7	2587	M P82	P36	39
358	11	060		B	ENTDN2		4	2594	B Z71		39
359	11	070	EOJ	B	PUTX		4	2598	B 363		39
360	11	080		DCW	EOP		3	2604	P35		39
361	11	090		MLC	TBGCN, PRCN1		7	2605	M P45	T17	39
362	11	100		B	SUPER		4	2612	B 351		40
363	11	110		DCW	@B04@		3	2618			40
364	11	120	PTGTSY	SBR	PTGT01&3		4	2619	H O37		40
365	11	130		B	PUTX		4	2623	B 363		40
366	11	140		DCW	CURNT		3	2629	O81		40
367	11	150		B	GTSYM		4	2630	B M53		40
368	11	160	PTGT01	B	*		4	2634	B O37		40
369	11	170	ENTGT	SBR	ENTGT1&3		4	2638	H O57		41
370	11	180		BCE	ENTGT2, PTGTSW, 1		8	2642	B O58	P39 1	41
371	11	190		B	GTSYM		4	2650	B M53		41
372	11	200	ENTGT1	B	*		4	2654	B O57		41
373	11	210	ENTGT2	B	PTGTSY		4	2658	B O19		41
374	11	220		B	ENTGT1		4	2662	B O54		41
375	11	230	TBOP	DCW	@.TO@		3	2668			41
376	11	240	SPROC	DCW	@*01@		3	2671			42
377	11	250	LBOP	DCW	@.LB@		3	2674			42
378	12	010	CDSW	DCW	@0@		1	2675			42
379	12	020	CDSYM	DCW	@.CD@		3	2678			42
380	12	030	CURNT	DCW	#3		3	2681			42
381	12	040	CNOP	DCW	@.NM@		3	2684			42
382	12	050	SYM	DCW	#3		3	2687			42
383	12	060	QUAL	DCW	@*32@		3	2690			43
384	12	070	OUTSYM	DCW	#3		3	2693			43
385	12	080	GCN	DCW	@A10@		3	2696			43
386	12	090		DCW	@ @		2	2698			43
387	12	100	EQNM	DCW	@ 3@		2	2700			43
388	12	110	HQNM	DCW	@ 1@		2	2702			43
389	12	120	IQNM	DCW	@ 1@		2	2704			43
390	12	130	QDIGIT	DCW	@.Q@		2	2706			44
391	12	140	CHR	DCW	@ @		1	2707			44
392	12	150	SENV	DCW	@*91@		3	2710			44
393	12	160	SDATA	DCW	@/24@		3	2713			44
394	12	170	BPYSW	DCW	@0@		1	2714			44
395	12	180	LKSW	DCW	@0@		1	2715			44
396	12	190	LSTOP	DCW	@.LT@		3	2718			44
397	12	200	PNOP	DCW	@.PN@		3	2721			45

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
398	12	210	SPEND	DCW	#3		3	2724			45
399	12	220	SAVE	DCW	#3		3	2727			45
400	12	230	ATNMSW	DCW	@0@		1	2728			45
401	12	240	TSTCHR	DCW	#1		1	2729			45
402	12	250	ANOP	DCW	\$.AN@		3	2732			45
403	13	010	EOP	DCW	\$.EP@		3	2735			45
404	13	020	QSW1	DCW	@0@		1	2736			46
405	13	030	QSW	DCW	@0@		1	2737			46
406	13	040	ENTSW	DCW	@0@		1	2738			46
407	13	050	PTGTSW	DCW	@0@		1	2739			46
408	13	060		DCW	@***@		3	2742			46
409	13	070	TBGCN	DCW	#3		3	2745			46
410	13	080	TAG	DCW	@ @		2	2747			46
411	13	090	FIELD	DCW	@ @		1	2748			47
412	13	100		DC	#32		32	2780			47
413	13	110		LTORG					2781		
				DCW	@0@		1	2781		LIT	47
					@1@		1	2782		LIT	47
					@&@		1	2783		LIT	47
					@N@		1	2784		LIT	47
					@-@		1	2785		LIT	47
					@ @		1	2786		LIT	47
					&1		1	2787		LIT	48
					@002@		3	2790		LIT	48
					&3		1	2791		LIT	48
					@|@		1	2792		LIT	48
					@000@		3	2795		LIT	48
					@ @		3	2798		LIT	48
					@003@		3	2801		LIT	48
414	13	120	INTAB	DCW	#3		3	2804			49
415	13	130		DC	#50		50	2854			51
416	13	140		DC	#50		50	2904			53
417	13	150		DC	#50		50	2954			55
418	13	160		DC	#50		50	3004			57
419	13	170		DC	#50		50	3054			59
420	13	180		DC	#47		47	3101			61
421	13	190		DC	#32		32	3133			62
422	13	200	OVCHR	DC	@ @		1	3134			62
423	13	210	GRMK	DCW	@}@		1	3135			62
424	13	220		END	INIT				/ T50 080		63

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CLEAR STORAGE 1      ,008015,019026,030,034041,045,053,0570571026      1
CLEAR STORAGE 2      L068112,102106,113/101099/I99,027A070028)027B0010270B0261,001/001113I0      2
BOOTSTRAP            ,008015,022029,036040,047054,061068,072/061039      ,0010011040      3

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1401 COBOL - B04 PAGE 1

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
101	1	010	000	JOB	1401 COBOL - B04						
102	1	020		CTL	631 11						
103	1	030	X1	EQU	89			0089			
104	1	040	X2	EQU	94			0094			
105	1	050	X3	EQU	99			0099			
106	1	060	GETX	EQU	335			0335			
107	1	070	SUPER	EQU	351			0351			
108	1	080	PUTX	EQU	363			0363			
109	1	090	DTCN1	EQU	1302			1302			
110	1	100	C	EQU	1303			1303			
111	1	110	DTCN	EQU	C&5			1308			
112	1	120	DTEND	EQU	C&8			1311			
113	1	130	ENDADR	EQU	C&8			1311			
114	1	140	DTADR	EQU	C&11			1314			
115	1	150	PRCN1	EQU	C&14			1317			
116	1	160	PRCN	EQU	C&17			1320			
117	1	170	PREND	EQU	C&20			1323			
118	1	180	PRADR	EQU	C&23			1326			
119	1	190	LTNM1	EQU	C&26			1329			
120	1	200	LTNM	EQU	C&29			1332			
121	1	210	OVSF	EQU	C&30			1333			
122	1	220	OVFSW	EQU	C&31			1334			
123	1	230	DOVSF	EQU	C&32			1335			
124	1	240	POVSF	EQU	C&33			1336			
125	1	250	DQSW	EQU	C&34			1337			
126	2	010	PQSW	EQU	C&35			1338			
127	2	020	LITSW	EQU	C&36			1339			
128	2	030	SYSW	EQU	C&37			1340			
129	2	040	TBSW	EQU	C&38			1341			
130	2	050	UNSW	EQU	C&39			1342			
131	2	060	INTAB	EQU	2804			2804			
132	2	070		ORG	1350				1350		
133	2	080	INIT	B	GTSYM	4		1350	B J90		4
134	2	090		B	PUTX	4		1354	B 363		4
135	2	100		DCW	CURNT	3		1360	O79		4
136	2	110		C	CURNT,SENV	7		1361	C O79 P03		4
137	2	120		BU	INIT	5		1368	B T50 /		4
138	2	130		B	GTEST	4		1373	B T84		4
139	2	140	PTEST	B	PUTX	4		1377	B 363		4
140	2	150		DCW	CURNT	3		1383	O79		5
141	2	160	GTEST	B	GTSYM	4		1384	B J90		5
142	2	170	TEST	B	ENVTEST	4		1388	B U52		5
143	2	180		C	CURNT,LBOP	7		1392	C O79 O40		5
144	2	190		BE	TEST1	5		1399	B U32 S		5
145	2	200		C	CURNT,LBFOP	7		1404	C O79 O46		5
146	2	210		BU	PTEST	5		1411	B T77 /		5
147	2	220		B	PTGTSY	4		1416	B K74		6

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	2	230		B	PTGTSY		4	1420	B K74		6
149	2	240		B	PTGTSY		4	1424	B K74		6
150	2	250		B	PSNAME		4	1428	B K93		6
151	3	010	TEST1	B	ENTFLD		4	1432	B Z64		6
152	3	020		B	LKNAME		4	1436	B Y17		6
153	3	030		BCE	NTFND,LKSW,0		8	1440	B X69 050 0		6
154	3	040		B	FOUND		4	1448	B W01		7
155	3	050	ENVTST	C	CURNT,SDATA		7	1452	C O79 P09		7
156	3	060		BU	ENV01		5	1459	B U91 /		7
157	3	070		MLC	@N@,TEST		7	1464	M P53 T88		7
158	3	080		B	PTGTSY		4	1471	B K74		7
159	3	090		C	CURNT,SPROC		7	1475	C O79 066		7
160	3	100		BU	ENV01		5	1482	B U91 /		7
161	3	110		B	PTEST		4	1487	B T77		8
162	3	120	ENV01	C	CURNT,ANOP		7	1491	C O79 057		8
163	3	130		BU	PTEST		5	1498	B T77 /		8
164	3	140		B	PTGTSY		4	1503	B K74		8
165	3	150		C	CURNT,CNOP		7	1507	C O79 082		8
166	3	160		BE	ENV02		5	1514	B V43 S		8
167	3	170		C	CURNT,ANNTSY		7	1519	C O79 037		8
168	3	180		BU	PTEST		5	1526	B T77 /		9
169	3	190		BCE	PTEST,OVSU,1		8	1531	B T77 T33 1		9
170	3	200		B	GTEST		4	1539	B T84		9
171	3	210	ENV02	B	ENTFLD		4	1543	B Z64		9
172	3	220		B	LKNAME		4	1547	B Y17		9
173	3	230		BCE	OUTCN,LKSW,0		8	1551	B !65 050 0		9
174	3	240		BWZ	SPNTFN,0&X3,K		8	1559	V V78 0?0 K		10
175	3	250		B	PUTX		4	1567	B 363		10
176	4	010		DCW	GCN		3	1573	O94		10
177	4	020		B	TEST		4	1574	B T88		10
178	4	030	SPNTFN	BCE	OUTCN,OVSU,0		8	1578	B !65 T33 0		10
179	4	040		B	PUTX		4	1586	B 363		10
180	4	050		DCW	ANNTSY		3	1592	O37		10
181	4	060		B	OUTNM		4	1593	B !73		11
182	4	070		B	TEST		4	1597	B T88		11
183	4	080	FOUND	MN	0&X3,NMCHR		7	1601	D 0?0 099		11
184	4	090		BCE	FND01,NMCHR,		8	1608	B W61 099		11
185	4	100		BWZ	FND07,0&X3,B		8	1616	V X40 0?0 B		11
186	4	110		BCE	FND06,NMCHR,3		8	1624	B W39 099 3		11
187	4	120		MLC	@1@,NMCHR		7	1632	M P54 099		12
188	4	130	FND06	MLC	NMCHR,OUTSYM		7	1639	M 099 091		12
189	4	140		MLC			1	1646	M		12
190	4	150		B	PUTX		4	1647	B 363		12
191	4	160		DCW	OUTSYM		3	1653	O91		12
192	4	170		MLC	@1@,PQSW		7	1654	M P54 T38		12
193	4	180	FND01	C	@ @,0&X3		7	1661	C P55 0?0		12
194	4	190		SBR	X3		4	1668	H 099		13
195	4	200		BCE	FND09,0&X3,*		8	1672	B X51 0?0 *		13
196	4	210		BCE	FND09,0&X3,]		8	1680	B X51 0?0]		13
197	4	220		MLC	@]@,0&X3		7	1688	M P56 0?0		13

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
198	4	230	FND02	B	PUTX		4	1695	B 363		13
199	4	240		DCW	LBFOP		3	1701	O46		13
200	4	250		B	PUTX		4	1702	B 363		13
201	5	010		DCW	GCN		3	1708	O94		14
202	5	020	LST01	C	CURNT,SSCT		7	1709	C 079	O63	14
203	5	030		BU	LSTOUT		5	1716	B X25	/	14
204	5	040		B	PTGTSY		4	1721	B K74		14
205	5	050	LSTOUT	B	PUTX		4	1725	B 363		14
206	5	060		DCW	LSTOP		3	1731	O49		14
207	5	070		B	OUTNM		4	1732	B !73		14
208	5	080		B	TEST		4	1736	B T88		15
209	5	090	FND07	MLC	@2@,NMCHR		7	1740	M P57	O99	15
210	5	100		B	FND06		4	1747	B W39		15
211	5	110	FND09	B	PUTX		4	1751	B 363		15
212	5	120		DCW	MLTSYM		3	1757	O43		15
213	5	130		MLC	@*@,0&X3		7	1758	M P58	O?0	15
214	5	140		B	FND02		4	1765	B W95		15
215	5	150	NTFND	BCE	OUTCN,OVSW,1		8	1769	B !65	T33 1	16
216	5	160		B	PUTX		4	1777	B 363		16
217	5	170		DCW	LBFOP		3	1783	O46		16
218	5	180		B	PUTX		4	1784	B 363		16
219	5	190		DCW	PRCN1		3	1790	T17		16
220	5	200		A	&1,PRCN1		7	1791	A P59	T17	16
221	5	210		B	LST01		4	1798	B X09		16
222	5	220	CNRTN	SBR	CNR01&3		4	1802	H Y16		17
223	5	230		A	&1,GCN		7	1806	A P59	O94	17
224	5	240	CNR01	B	*		4	1813	B Y16		17
225	5	250	LKNAME	SBR	LK05&3		4	1817	H Z63		17
226	6	010		ZA	FIELD&1,X3		7	1821	? P19	O99	17
227	6	020		A	X3		4	1828	A 099		17
228	6	030		A	FIELD&1,X3		7	1832	A P19	O99	17
229	6	040		MZ	@ @,X3		7	1839	Y P55	O99	18
230	6	050		BCE	LK06,INTAB&X3,		8	1846	B Z34	Q?4	18
231	6	060		MLC	INTAB&X3,X3		7	1854	M Q?4	O99	18
232	6	070	LK03	C	0&X3,FIELD&X2		7	1861	C 0?0	PJ8	18
233	6	080		SAR	X3		4	1868	Q 099		18
234	6	090		BU	LK01		5	1872	B Z22	/	18
235	6	100		BWZ	LK07,1&X3,1		8	1877	V Z45	O?1 1	19
236	6	110	LK04	C	0&X3		4	1885	C 0?0		19
237	6	120		SAR	X3		4	1889	Q 099		19
238	6	130	LK02	C	0&X3		4	1893	C 0?0		19
239	6	140		C			1	1897	C		19
240	6	150		C			1	1898	C		19
241	6	160		SAR	X3		4	1899	Q 099		19
242	6	170		BCE	LK06,3&X3,*		8	1903	B Z34	O?3 *	20
243	6	180		MLC	3&X3,X3		7	1911	M O?3	O99	20
244	6	190		B	LK03		4	1918	B Y61		20
245	6	200	LK01	BWZ	LK02,1&X3,1		8	1922	V Y93	O?1 1	20
246	6	210		B	LK04		4	1930	B Y85		20
247	6	220	LK06	MLC	@0@,LKSW		7	1934	M P60	O50	20

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
248	6	230		B	LK05		4	1941	B Z60		21
249	6	240	LK07	C	0&X3,GCN&2		7	1945	C 0?0 O96		21
250	6	250		MLC			1	1952	M		21
251	7	010		MLC	@1@,LKSW		7	1953	M P54 O50		21
252	7	020	LK05	B	*		4	1960	B Z63		21
253	7	030	ENTFLD	SBR	ENTF01&3		4	1964	H !46		21
254	7	040		MLC	CURNT,SYM		7	1968	M O79 O85		21
255	7	050		MLC	@002@,X2		7	1975	M P63 O94		22
256	7	060		B	GTSYM		4	1982	B J90		22
257	7	070		B	ENTF03		4	1986	B !13		22
258	7	080	ENTF02	B	GTSYM		4	1990	B J90		22
259	7	090		C	CURNT,SYM		7	1994	C O79 O85		22
260	7	100		BE	ENTF04		5	2001	B !24 S		22
261	7	110		A	&3,X2		7	2006	A P64 O94		22
262	7	120	ENTF03	MLC	CURNT,FIELD&X2		7	2013	M O79 PJ8		23
263	7	130		B	ENTF02		4	2020	B Z90		23
264	7	140	ENTF04	BCE	ENTF05,FIELD&X2,		8	2024	B !47 PJ8		23
265	7	150		MLC	@|@,FIELD&1&X2		7	2032	M P65 PJ9		23
266	7	160		B	GTSYM		4	2039	B J90		23
267	7	170	ENTF01	B	*		4	2043	B !46		23
268	7	180	ENTF05	S	&1,X2		7	2047	S P59 O94		24
269	7	190		MZ	@ @,X2		7	2054	Y P55 O94		24
270	7	200		B	ENTF04		4	2061	B !24		24
271	7	210	OUTCN	B	OUTNM		4	2065	B !73		24
272	7	220		B	TEST		4	2069	B T88		24
273	7	230	OUTNM	SBR	OUTNM1&3		4	2073	H J89		24
274	7	240		B	PUTX		4	2077	B 363		24
275	7	250		DCW	SYM		3	2083	O85		25
276	8	010		MLC	@000@,X2		7	2084	M P68 O94		25
277	8	020	OUTCN2	MLC	@ @,OUTSYM		7	2091	M P71 O91		25
278	8	030		MLC	@000@,X3		7	2098	M P68 O99		25
279	8	040	OUTCN3	BCE	OUTCNX,FIELD&X2,|		8	2105	B J64 PJ8	|	25
280	8	050		MZ	FIELD&X2,OUTSYM-2&X3		7	2113	Y PJ8 OH9		25
281	8	060		MN	FIELD&X2,OUTSYM-2&X3		7	2120	D PJ8 OH9		26
282	8	070		A	&1,X2		7	2127	A P59 O94		26
283	8	080		A	&1,X3		7	2134	A P59 O99		26
284	8	090		C	X3,@003@		7	2141	C O99 P74		26
285	8	100		BU	OUTCN3		5	2148	B J05 /		26
286	8	110		B	PUTX		4	2153	B 363		26
287	8	120		DCW	OUTSYM		3	2159	O91		27
288	8	130		B	OUTCN2		4	2160	B !91		27
289	8	140	OUTCNX	BCE	OUTCN4,X3,0		8	2164	B J79 O99 0		27
290	8	150		B	PUTX		4	2172	B 363		27
291	8	160		DCW	OUTSYM		3	2178	O91		27
292	8	170	OUTCN4	B	PUTX		4	2179	B 363		27
293	8	180		DCW	SYM		3	2185	O85		27
294	8	190	OUTNM1	B	*		4	2186	B J89		28
295	8	200	GTSYM	SBR	GT01&3		4	2190	H K19		28
296	8	210	GT08	B	GETX		4	2194	B 335		28
297	8	220		DCW	CURNT		3	2200	O79		28

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
298	8	230		DCW	EOJ		3	2203	L24		28
299	8	240	GT03	C	CURNT ,CDSYM		7	2204	C 079	O73	28
300	8	250		BE	GT02		5	2211	B K20	S	28
301	9	010	GT01	B	*		4	2216	B K19		29
302	9	020	GT02	MLC	@0@ ,CDSW		7	2220	M P60	O70	29
303	9	030	GT04	B	PUTX		4	2227	B 363		29
304	9	040		DCW	CURNT		3	2233	O79		29
305	9	050		B	GETX		4	2234	B 335		29
306	9	060		DCW	CURNT		3	2240	O79		29
307	9	070		DCW	EOJ		3	2243	L24		29
308	9	080		A	&1 ,CDSW		7	2244	A P59	O70	30
309	9	090		BCE	GT03 ,CDSW ,3		8	2251	B K04	O70 3	30
310	9	100		B	GT04		4	2259	B K27		30
311	9	110	GT05	B	PUTX		4	2263	B 363		30
312	9	120		DCW	CURNT		3	2269	O79		30
313	9	130		B	GT08		4	2270	B J94		30
314	9	140	PTGTSY	SBR	PTGT01&3		4	2274	H K92		30
315	9	150		B	PUTX		4	2278	B 363		31
316	9	160		DCW	CURNT		3	2284	O79		31
317	9	170		B	GTSYM		4	2285	B J90		31
318	9	180	PTGT01	B	*		4	2289	B K92		31
319	9	190	PSNAME	MLC	CURNT ,SYM		7	2293	M O79	O85	31
320	9	200	PSNM02	B	PTGTSY		4	2300	B K74		31
321	9	210		C	CURNT ,SYM		7	2304	C O79	O85	31
322	9	220		BU	PSNM02		5	2311	B L00	/	32
323	9	230		B	PTGTSY		4	2316	B K74		32
324	9	240		B	TEST		4	2320	B T88		32
325	9	250	EOJ	SW	GRMK		4	2324	, P52		32
326	10	010		MLC	PRCN ,GCN		7	2328	M T20	O94	32
327	10	020		MLC	PNOP ,SYM		7	2335	M O53	O85	32
328	10	030		MLC	DTADR ,X3		7	2342	M T14	O99	32
329	10	040	EOJ1	C	ENDADR ,X3		7	2349	C T11	O99	33
330	10	050		BE	EOJ3		5	2356	B N42	S	33
331	10	060		MLC	@|@ ,1&X3		7	2361	M P65	O?1	33
332	10	070		C	0&X3 ,0&X3		7	2368	C O?0	O?0	33
333	10	080		C			1	2375	C		33
334	10	090		SAR	X3		4	2376	Q 099		33
335	10	100		MCM	3&X3 ,FIELD		7	2380	P O?3	P18	33
336	10	110		BWZ	QLNAME ,2&X3 ,2		8	2387	V N27	O?2 2	34
337	10	120		BCE	UNDEF ,1&X3 ,		8	2395	B M50	O?1	34
338	10	130		BCE	MLTDEF ,1&X3 ,*		8	2403	B N05	O?1 *	34
339	10	140		MN	2&X3 ,TSTCHR		7	2411	D O?2	O54	34
340	10	150		BCE	EOJ2 ,TSTCHR ,		8	2418	B M30	O54	34
341	10	160		B	QLNAME		4	2426	B N27		35
342	10	170	EOJ2	A	&1 ,GCN		7	2430	A P59	O94	35
343	10	180		C	0&X3		4	2437	C O?0		35
344	10	190		C			1	2441	C		35
345	10	200		SAR	X3		4	2442	Q 099		35
346	10	210		B	EOJ1		4	2446	B L49		35
347	10	220	UNDEF	BWZ	EOJ2 ,2&X3 ,K		8	2450	V M30	O?2 K	35

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
348	10	230		B	TBRTN		4	2458	B 005		36
349	10	240		MLC	@1@, SYSW		7	2462	M P54 T40		36
350	10	250		B	PUTX		4	2469	B 363		36
351	11	010		DCW	UNSYM		3	2475	O60		36
352	11	020	UNDEF1	B	PUTX		4	2476	B 363		36
353	11	030		DCW	GCN		3	2482	O94		36
354	11	040		MLC	X3, SAVE		7	2483	M 099 O76		36
355	11	050		B	OUTNM		4	2490	B !73		37
356	11	060		MLC	SAVE, X3		7	2494	M 076 099		37
357	11	070		B	EOJ2		4	2501	B M30		37
358	11	080	MLTDEF	B	TBRTN		4	2505	B 005		37
359	11	090		B	PUTX		4	2509	B 363		37
360	11	100		DCW	MLTSYM		3	2515	O43		37
361	11	110		MLC	@1@, SYSW		7	2516	M P54 T40		37
362	11	120		B	UNDEF1		4	2523	B M76		38
363	11	130	QLNAME	B	TBRTN		4	2527	B 005		38
364	11	140		B	PUTX		4	2531	B 363		38
365	11	150		DCW	QLSYM		3	2537	O69		38
366	11	160		B	UNDEF1		4	2538	B M76		38
367	11	170	EOJ3	B	PUTX		4	2542	B 363		38
368	11	180		DCW	EOP		3	2548	P12		38
369	11	190		MLC	@0@, OVFSW		7	2549	M P60 T34		39
370	11	200		BCE	EOJ4, OVSW, 0		8	2556	B N98 T33 0		39
371	11	210		MLC	@0@, OVSW		7	2564	M P60 T33		39
372	11	220		BSP	1		5	2571	U %U1 B		39
373	11	230		BSP	1		5	2576	U %U1 B		39
374	11	240		BSP	1		5	2581	U %U1 B		39
375	11	250		BSP	1		5	2586	U %U1 B		40
376	12	010		B	SUPER		4	2591	B 351		40
377	12	020		DCW	@B03@		3	2597			40
378	12	030	EOJ4	B	SUPER		4	2598	B 351		40
379	12	040		DCW	@B05@		3	2604			40
380	12	050	TBRTN	SBR	TBRTN1&3		4	2605	H O34		40
381	12	060		BCE	TBRTN1, TBSW, 1		8	2609	B O31 T41 1		40
382	12	070		B	PUTX		4	2617	B 363		41
383	12	080		DCW	TBOP		3	2623	P06		41
384	12	090		MLC	@1@, TBSW		7	2624	M P54 T41		41
385	12	100	TBRTN1	B	*		4	2631	B O34		41
386	12	110	ANNTSY	DCW	@.NA@		3	2637			41
387	12	120	LBOP	DCW	@.LB@		3	2640			41
388	12	130	MLTSYM	DCW	@.MT@		3	2643			41
389	12	140	LBFOP	DCW	@.LF@		3	2646			42
390	12	150	LSTOP	DCW	@.LT@		3	2649			42
391	12	160	LKSW	DCW	@0@		1	2650			42
392	12	170	PNOP	DCW	@.PN@		3	2653			42
393	12	180	TSTCHR	DCW	@ @		1	2654			42
394	12	190	ANOP	DCW	@.AN@		3	2657			42
395	12	200	UNSYM	DCW	@.UN@		3	2660			42
396	12	210	SSCT	DCW	@*09@		3	2663			43
397	12	220	SPROC	DCW	@*01@		3	2666			43

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
398	12	230	QLSYM	DCW	@.QN@		3	2669			43
399	12	240	CDSW	DCW	@0@		1	2670			43
400	12	250	CDSYM	DCW	@.CD@		3	2673			43
401	13	010	SAVE	DCW	#3		3	2676			43
402	13	020	CURNT	DCW	@ @		3	2679			43
403	13	030	CNOP	DCW	@.NM@		3	2682			44
404	13	040	SYM	DCW	#3		3	2685			44
405	13	050	QUAL	DCW	@*32@		3	2688			44
406	13	060	OUTSYM	DCW	#3		3	2691			44
407	13	070	GCN	DCW	#3		3	2694			44
408	13	080		DCW	@ @		2	2696			44
409	13	090	QDIGIT	DCW	@.T@		2	2698			44
410	13	100	NMCHR	DCW	@ @		1	2699			45
411	13	110	CHR	DCW	@ @		1	2700			45
412	13	120	SENV	DCW	@*91@		3	2703			45
413	13	130	TBOP	DCW	@.TO@		3	2706			45
414	13	140	SDATA	DCW	@/24@		3	2709			45
415	13	150	EOP	DCW	@.EP@		3	2712			45
416	13	160	FDOP	DCW	@/26@		3	2715			45
417	13	170	FILSW	DCW	@0@		1	2716			46
418	13	180	ENTSW	DCW	@0@		1	2717			46
419	13	190	FIELD	DCW	@ @		1	2718			46
420	13	200		DC	#32		32	2750			46
421	13	210	NAME	DC	@ @		1	2751			46
422	13	220	GRMK	DC	@}@		1	2752			46
423	13	230		LTORG					2753		
				DCW	@N@		1	2753		LIT	46
					@1@		1	2754		LIT	46
					@ @		1	2755		LIT	47
					@]@		1	2756		LIT	47
					@2@		1	2757		LIT	47
					@*@		1	2758		LIT	47
					&1		1	2759		LIT	47
					@0@		1	2760		LIT	47
					@002@		3	2763		LIT	47
					&3		1	2764		LIT	48
					@|@		1	2765		LIT	48
					@000@		3	2768		LIT	48
					@ @		3	2771		LIT	48
					@003@		3	2774		LIT	48
424	13	240		DCW	@}@		1	2775			48
425	13	250		END					/ 000 080		49

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CLEAR STORAGE 1 ,008015,019026,030,034041,045,053,0570571026 1
CLEAR STORAGE 2 L068112,102106,113/101099/I99,027A070028)027B0010270B0261,001/001113I0 2
BOOTSTRAP ,008015,022029,036040,047054,061068,072/061039 ,0010011040 3

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1401 COBOL - B05 PAGE 1

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
101	1	010	000	JOB	1401 COBOL - B05						
102	1	020		CTL	631 11						
103	1	030	X1	EQU	89			0089			
104	1	040	X2	EQU	94			0094			
105	1	050	X3	EQU	99			0099			
106	1	060	GETX	EQU	335			0335			
107	1	070	SUPER	EQU	351			0351			
108	1	080	PUTX	EQU	363			0363			
109	1	090	DTCN1	EQU	1302			1302			
110	1	100	C	EQU	1303			1303			
111	1	110	DTCN	EQU	C&5			1308			
112	1	120	DTEND	EQU	C&8			1311			
113	1	130	ENDADR	EQU	C&8			1311			
114	1	140	DTADR	EQU	C&11			1314			
115	1	150	OVSF	EQU	C&30			1333			
116	1	160	OVSF	EQU	C&31			1334			
117	1	170		ORG	1350				1350		
118	1	180	INIT	MLC	DTADR,ENDADR	7		1350	M T14	T11	4
119	1	190		MLC	DTCN1,DTCN	7		1357	M T02	T08	4
120	1	200		MLC	DTCN1,TBGCN	7		1364	M T02	Q70	4
121	1	210		B	GTSYM	4		1371	B N55		4
122	1	220		B	PUTX	4		1375	B 363		4
123	1	230		DCW	CURNT	3		1381	P91		4
124	1	240		C	CURNT,SENV	7		1382	C P91	Q23	4
125	1	250		BU	INIT	5		1389	B T50	/	5
126	2	010		B	GTEST	4		1394	B U05		5
127	2	020	PTEST	B	PUTX	4		1398	B 363		5
128	2	030		DCW	CURNT	3		1404	P91		5
129	2	040	GTEST	B	GTSYM	4		1405	B N55		5
130	2	050	TEST	MLC	@0@,QSW1	7		1409	M R06	Q60	5
131	2	060		C	CURNT,LSTOP	7		1416	C P91	Q50	5
132	2	070		BU	TEST3	5		1423	B U36	/	6
133	2	080		B	PTGTSY	4		1428	B P29		6
134	2	090		B	PSNAME	4		1432	B O47		6
135	2	100	TEST3	B	ENVTST	4		1436	B V10		6
136	2	110	TEST1	B	DTTST	4		1440	B W14		6
137	2	120	TEST2	C	CURNT,CNOP	7		1444	C P91	P94	6
138	2	130		BE	ENTDN	5		1451	B !26	S	6
139	2	140		C	CURNT-1,QDIGIT	7		1456	C P90	Q16	7
140	2	150		BU	TEST4	5		1463	B U90	/	7
141	2	160		MLC	CURNT,CHR	7		1468	M P91	Q17	7
142	2	170		MLC	@1@,QSW1	7		1475	M R07	Q60	7
143	2	180		B	GTSYM	4		1482	B N55		7
144	2	190		B	ENTDN	4		1486	B !26		7
145	2	200	TEST4	C	CURNT,TBOP	7		1490	C P91	P81	8
146	2	210		BU	PTEST	5		1497	B T98	/	8
147	2	220	TEST5	B	PTGTSY	4		1502	B P29		8

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	2	230		B	TEST5		4	1506	B V02		8
149	2	240	ENVTST	C	CURNT,SDATA		7	1510	C P91 Q26		8
150	2	250		BU	ENV01		5	1517	B V40 /		8
151	3	010		MLC	@N@,TEST3		7	1522	M R08 U36		8
152	3	020		MLC	@N@,FOUND		7	1529	M R08 J55		9
153	3	030		B	PTEST		4	1536	B T98		9
154	3	040	ENV01	C	CURNT,SSLCT		7	1540	C P91 Q20		9
155	3	050		BU	ENV02		5	1547	B V60 /		9
156	3	060		B	PTGTSY		4	1552	B P29		9
157	3	070		B	TEST2		4	1556	B U44		9
158	3	080	ENV02	C	CURNT,ANOP		7	1560	C P91 Q53		9
159	3	090		BU	PTEST		5	1567	B T98 /		10
160	3	100		B	PTGTSY		4	1572	B P29		10
161	3	110		C	CURNT,CNOP		7	1576	C P91 P94		10
162	3	120		BU	PTEST		5	1583	B T98 /		10
163	3	130		MLC	@1@,ATNMSW		7	1588	M R07 Q47		10
164	3	140		B	ENTFLD		4	1595	B L11		10
165	3	150		MLC	@-@,CHR		7	1599	M R09 Q17		10
166	3	160		B	LKNAME		4	1606	B X81		11
167	3	170		B	ENTDN1		4	1610	B !69		11
168	3	180	DTTST	C	CURNT,SPROC		7	1614	C P91 P78		11
169	3	190		BU	DTT01		5	1621	B W44 /		11
170	3	200		MLC	@N@,TEST1		7	1626	M R08 U40		11
171	3	210		MLC	@B@,FOUND		7	1633	M R10 J55		11
172	3	220		B	PTEST		4	1640	B T98		11
173	3	230	DTT01	C	CURNT,SFD		7	1644	C P91 Q38		12
174	3	240		BU	DTT02		5	1651	B W76 /		12
175	3	250		B	PTGTSY		4	1656	B P29		12
176	4	010		C	CURNT,CNOP		7	1660	C P91 P94		12
177	4	020		BU	PTEST		5	1667	B T98 /		12
178	4	030		B	PSNAME		4	1672	B O47		12
179	4	040	DTT02	C	CURNT,LVOP		7	1676	C P91 Q29		12
180	4	050		BU	TEST2		5	1683	B U44 /		13
181	4	060		B	PTGTSY		4	1688	B P29		13
182	4	070		B	PTGTSY		4	1692	B P29		13
183	4	080		C	CURNT,CNOP		7	1696	C P91 P94		13
184	4	090		BU	DTT03		5	1703	B X54 /		13
185	4	100		B	SAVFLD		4	1708	B Z92		13
186	4	110		MLC	@1@,BPYSW		7	1712	M R07 Q45		13
187	4	120		B	LKNAME		4	1719	B X81		14
188	4	130		BCE	TEST,LKSW,0		8	1723	B U09 Q46 0		14
189	4	140		BWZ	DTT04,0&X1,K		8	1731	V X43 0|0 K		14
190	4	150		B	TEST		4	1739	B U09		14
191	4	160	DTT04	MZ	@&@,0&X1		7	1743	Y R11 0|0		14
192	4	170		B	TEST		4	1750	B U09		14
193	4	180	DTT03	C	CURNT,SFILL		7	1754	C P91 Q44		15
194	4	190		BU	PTEST		5	1761	B T98 /		15
195	4	200		B	PUTX		4	1766	B 363		15
196	4	210		DCW	BLK		3	1772	P84		15
197	4	220		B	GTSYM		4	1773	B N55		15

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
198	4	230		B	TEST		4	1777	B U09		15
199	4	240	LKNAME	SBR	LK05&3		4	1781	H Z23		15
200	4	250		ZA	FIELD&1 ,X3		7	1785	? Q74 099		16
201	5	010		A	X3		4	1792	A 099		16
202	5	020		A	FIELD&1 ,X3		7	1796	A Q74 099		16
203	5	030		MZ	@ @ ,X3		7	1803	Y R12 099		16
204	5	040		BCE	LK09 ,INTAB&X3 ,		8	1810	B Z65 RC0		16
205	5	050		MLC	INTAB&X3 ,X1		7	1818	M RC0 089		17
206	5	060	LK03	C	0&X1 ,FIELD&X2		7	1825	C 0|0 QP3		17
207	5	070		SAR	X1		4	1832	Q 089		17
208	5	080		BU	LK01		5	1836	B Y86 /		17
209	5	090		BWZ	LK07 ,1&X1 ,1		8	1841	V Y98 0|1 1		17
210	5	100	LK04	C	0&X1		4	1849	C 0|0		17
211	5	110		SAR	X1		4	1853	Q 089		17
212	5	120	LK02	C	0&X1		4	1857	C 0|0		18
213	5	130		C			1	1861	C		18
214	5	140		C			1	1862	C		18
215	5	150		SAR	X1		4	1863	Q 089		18
216	5	160		BCE	LK06 ,3&X1 ,*		8	1867	B Z24 0|3 *		18
217	5	170		MLC	3&X1 ,X1		7	1875	M 0|3 089		18
218	5	180		B	LK03		4	1882	B Y25		18
219	5	190	LK01	BWZ	LK02 ,1&X1 ,1		8	1886	V Y57 0|1 1		19
220	5	200		B	LK04		4	1894	B Y49		19
221	5	210	LK07	C	0&X1 ,GCN&2		7	1898	C 0|0 Q08		19
222	5	220		MLC			1	1905	M		19
223	5	230		MLC	@1@ ,LKSW		7	1906	M R07 Q46		19
224	5	240	LK11	MLC	@0@ ,BPYSW		7	1913	M R06 Q45		19
225	5	250	LK05	B	*		4	1920	B Z23		19
226	6	010	LK06	BCE	LK08 ,OVFSW ,1		8	1924	B Z54 T34 1		20
227	6	020		BCE	LK08 ,BPYSW ,1		8	1932	B Z54 Q45 1		20
228	6	030		MLC	ENDADR ,3&X1		7	1940	M T11 0|3		20
229	6	040	LK10	MLC	ENDADR ,X1		7	1947	M T11 089		20
230	6	050	LK08	MLC	@0@ ,LKSW		7	1954	M R06 Q46		20
231	6	060		B	LK11		4	1961	B Z13		21
232	6	070	LK09	BCE	LK08 ,OVFSW ,1		8	1965	B Z54 T34 1		21
233	6	080		BCE	LK08 ,BPYSW ,1		8	1973	B Z54 Q45 1		21
234	6	090		MLC	ENDADR ,INTAB&X3		7	1981	M T11 RC0		21
235	6	100		B	LK10		4	1988	B Z47		21
236	6	110	SAVFLD	SBR	SAV01&3		4	1992	H !25		21
237	6	120		BCE	PSNAME ,ATNMSW ,0		8	1996	B O47 Q47 0		22
238	6	130		MLC	@1@ ,PTGTSW		7	2004	M R07 Q64		22
239	6	140		B	ENTFLD		4	2011	B L11		22
240	6	150		MLC	@0@ ,PTGTSW		7	2015	M R06 Q64		22
241	6	160	SAV01	B	*		4	2022	B !25		22
242	6	170	ENTDN	B	ENTFLD		4	2026	B L11		22
243	6	180		BCE	QUALFY ,QSW1 ,1		8	2030	B O90 Q60 1		23
244	6	190		BCE	QULTST ,QSW ,1		8	2038	B !99 Q61 1		23
245	6	200		C	CURNT ,QUAL		7	2046	C P91 Q00		23
246	6	210		BE	QUL02		5	2053	B !81 S		23
247	6	220		MLC	@&@ ,CHR		7	2058	M R11 Q17		23

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
248	6	230	ENTDN2	B	LKNAME		4	2065	B X81		23
249	6	240	ENTDN1	BCE	NTFND,LKSW,0		8	2069	B K49 Q46	0	24
250	6	250		B	FOUND		4	2077	B J55		24
251	7	010	QUL02	MLC	@1@,QSW		7	2081	M R07 Q61		24
252	7	020		MLC	EQNM,CHR		7	2088	M Q10 Q17		24
253	7	030		B	QUALFY		4	2095	B O90		24
254	7	040	QULTST	C	CURNT,QUAL		7	2099	C P91 Q00		24
255	7	050		BE	QUL01		5	2106	B J29 S		25
256	7	060		MLC	HQNM,CHR		7	2111	M Q12 Q17		25
257	7	070		MLC	@0@,QSW		7	2118	M R06 Q61		25
258	7	080		B	QUALFY		4	2125	B O90		25
259	7	090	QUL01	MLC	IQNM,CHR		7	2129	M Q14 Q17		25
260	7	100		B	QUALFY		4	2136	B O90		25
261	7	110	CNRTN	SBR	CNR01&3		4	2140	H J54		25
262	7	120		A	&1,GCN		7	2144	A R13 Q06		26
263	7	130	CNR01	B	*		4	2151	B J54		26
264	7	140	FOUND	BWZ	LK02,0&X1,K		8	2155	V Y57 0|0	K	26
265	7	150		BCE	FND01,QSW1,0		8	2163	B K12 Q60	0	26
266	7	160		MN	0&X1,TSTCHR		7	2171	D 0|0 Q59		26
267	7	170		BCE	FND04,TSTCHR,		8	2178	B J94 Q59		27
268	7	180		BCE	FND02,CHR,1		8	2186	B K01 Q17	1	27
269	7	190	FND04	MN	CHR,0&X1		7	2194	D Q17 0|0		27
270	7	200	FND02	B	PUTX		4	2201	B 363		27
271	7	210		DCW	GCN		3	2207	Q06		27
272	7	220		B	TEST		4	2208	B U09		27
273	7	230	FND01	BCE	FND03,ENTSW,1		8	2212	B K27 Q63	1	28
274	7	240		MZ	@&@,0&X1		7	2220	Y R11 0|0		28
275	7	250	FND03	B	PUTX		4	2227	B 363		28
276	8	010		DCW	GCN		3	2233	Q06		28
277	8	020		B	TEST		4	2234	B U09		28
278	8	030	NOCN	MLC	@0@,ENTSW		7	2238	M R06 Q63		28
279	8	040		B	TEST		4	2245	B U09		28
280	8	050	NTFND	BCE	OUTCN,OVFSW,1		8	2249	B M12 T34	1	29
281	8	060		MLC	CHR,TAG		7	2257	M Q17 Q72		29
282	8	070		MLC	TBGCN,GCN		7	2264	M Q70 Q06		29
283	8	080		LCA	FIELD&X2,0&X1		7	2271	L QP3 0|0		29
284	8	090		LCA			1	2278	L		29
285	8	100		LCA			1	2279	L		29
286	8	110		LCA			1	2280	L		29
287	8	120		SBR	ENDADR		4	2281	H T11		30
288	8	130		A	&1,TBGCN		7	2285	A R13 Q70		30
289	8	140		BCE	FND03,OVCHR,|		8	2292	B K27 B63	|	30
290	8	150		MLC	@1@,OVFSW		7	2300	M R07 T34		30
291	8	160		B	FND03		4	2307	B K27		30
292	8	170	ENTFLD	SBR	ENTF01&3		4	2311	H L93		30
293	8	180		MLC	CURNT,SYM		7	2315	M P91 P97		31
294	8	190		MLC	@002@,X2		7	2322	M R16 094		31
295	8	200		B	ENTGT		4	2329	B P48		31
296	8	210		B	ENTF03		4	2333	B L60		31
297	8	220	ENTF02	B	ENTGT		4	2337	B P48		31

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
298	8	230		C	CURNT, SYM		7	2341	C P91 P97		31
299	8	240		BE	ENTF04		5	2348	B L71 S		31
300	8	250		A	&3, X2		7	2353	A R17 094		32
301	9	010	ENTF03	MLC	CURNT, FIELD&X2		7	2360	M P91 QP3		32
302	9	020		B	ENTF02		4	2367	B L37		32
303	9	030	ENTF04	BCE	ENTF05, FIELD&X2,		8	2371	B L94 QP3		32
304	9	040		MLC	@|@, FIELD&1&X2		7	2379	M R18 QP4		32
305	9	050		B	ENTGT		4	2386	B P48		32
306	9	060	ENTF01	B	*		4	2390	B L93		33
307	9	070	ENTF05	S	&1, X2		7	2394	S R13 094		33
308	9	080		MZ	@ @, X2		7	2401	Y R12 094		33
309	9	090		B	ENTF04		4	2408	B L71		33
310	9	100	OUTCN	MLC	@1@, OVSW		7	2412	M R07 T33		33
311	9	110		BCE	OUTCN1, QSW1, 0		8	2419	B M42 Q60 0		33
312	9	120		MLC	CHR, OUTSYM		7	2427	M Q17 Q03		34
313	9	130		MLC			1	2434	M		34
314	9	140		B	PUTX		4	2435	B 363		34
315	9	150		DCW	OUTSYM		3	2441	Q03		34
316	9	160	OUTCN1	B	PUTX		4	2442	B 363		34
317	9	170		DCW	SYM		3	2448	P97		34
318	9	180		MLC	@000@, X2		7	2449	M R21 094		34
319	9	190	OUTCN2	MLC	@000@, X3		7	2456	M R21 099		35
320	9	200		MLC	@ @, OUTSYM		7	2463	M R24 Q03		35
321	9	210	OUTCN3	BCE	OUTCNX, FIELD&X2, |		8	2470	B N29 QP3 |		35
322	9	220		MZ	FIELD&X2, OUTSYM-2&X3		7	2478	Y QP3 Q?1		35
323	9	230		MN	FIELD&X2, OUTSYM-2&X3		7	2485	D QP3 Q?1		35
324	9	240		A	&1, X2		7	2492	A R13 094		36
325	9	250		A	&1, X3		7	2499	A R13 099		36
326	10	010		C	X3, @003@		7	2506	C 099 R27		36
327	10	020		BU	OUTCN3		5	2513	B M70 /		36
328	10	030		B	PUTX		4	2518	B 363		36
329	10	040		DCW	OUTSYM		3	2524	Q03		36
330	10	050		B	OUTCN2		4	2525	B M56		36
331	10	060	OUTCNX	BCE	OUTCN4, X3, 0		8	2529	B N44 099 0		37
332	10	070		B	PUTX		4	2537	B 363		37
333	10	080		DCW	OUTSYM		3	2543	Q03		37
334	10	090	OUTCN4	B	PUTX		4	2544	B 363		37
335	10	100		DCW	SYM		3	2550	P97		37
336	10	110		B	TEST		4	2551	B U09		37
337	10	120	GTSYM	SBR	GT01&3		4	2555	H N92		37
338	10	130	GT08	B	GETX		4	2559	B 335		38
339	10	140		DCW	CURNT		3	2565	P91		38
340	10	150		DCW	EOJ		3	2568	P08		38
341	10	160	GT03	C	CURNT, CDSYM		7	2569	C P91 P88		38
342	10	170		BE	GT02		5	2576	B N93 S		38
343	10	180		BCE	GT05, CURNT-2,]		8	2581	B O36 P89]		38
344	10	190	GT01	B	*		4	2589	B N92		38
345	10	200	GT02	MLC	@0@, CDSW		7	2593	M R06 P85		39
346	10	210	GT04	B	PUTX		4	2600	B 363		39
347	10	220		DCW	CURNT		3	2606	P91		39

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
348	10	230		B	GETX		4	2607	B 335		39
349	10	240		DCW	CURNT		3	2613	P91		39
350	10	250		DCW	EOJ		3	2616	P08		39
351	11	010		A	&1, CDSW		7	2617	A R13 P85		39
352	11	020		BCE	GT03, CDSW, 3		8	2624	B N69 P85 3		40
353	11	030		B	GT04		4	2632	B 000		40
354	11	040	GT05	B	PUTX		4	2636	B 363		40
355	11	050		DCW	CURNT		3	2642	P91		40
356	11	060		B	GT08		4	2643	B N59		40
357	11	070	PSNAME	B	PASSSY		4	2647	B 055		40
358	11	080		B	TEST		4	2651	B U09		40
359	11	090	PASSSY	SBR	PASS01&3		4	2655	H 089		41
360	11	100		MLC	CURNT, OUTSYM		7	2659	M P91 Q03		41
361	11	110	PASS02	B	PTGTSY		4	2666	B P29		41
362	11	120		C	CURNT, OUTSYM		7	2670	C P91 Q03		41
363	11	130		BU	PASS02		5	2677	B 066 /		41
364	11	140		B	PTGTSY		4	2682	B P29		41
365	11	150	PASS01	B	*		4	2686	B 089		41
366	11	160	QUALFY	MLC	CHR, TAG		7	2690	M Q17 Q72		42
367	11	170		MLC	@1@, QSW1		7	2697	M R07 Q60		42
368	11	180		B	ENTDN2		4	2704	B !65		42
369	11	190	EOJ	B	PUTX		4	2708	B 363		42
370	11	200		DCW	EOP		3	2714	Q35		42
371	11	210		MLC	TBGCN, DTCN1		7	2715	M Q70 T02		42
372	11	220		B	SUPER		4	2722	B 351		42
373	11	230		DCW	@B06@		3	2728			43
374	11	240	PTGTSY	SBR	PTGT01&3		4	2729	H P47		43
375	11	250		B	PUTX		4	2733	B 363		43
376	12	010		DCW	CURNT		3	2739	P91		43
377	12	020		B	GTSYM		4	2740	B N55		43
378	12	030	PTGT01	B	*		4	2744	B P47		43
379	12	040	ENTGT	SBR	ENTGT1&3		4	2748	H P67		43
380	12	050		BCE	ENTGT2, PTGTSW, 1		8	2752	B P68 Q64 1		44
381	12	060		B	GTSYM		4	2760	B N55		44
382	12	070	ENTGT1	B	*		4	2764	B P67		44
383	12	080	ENTGT2	B	PTGTSY		4	2768	B P29		44
384	12	090		B	ENTGT1		4	2772	B P64		44
385	12	100	SPROC	DCW	@*01@		3	2778			44
386	12	110	TBOP	DCW	@.TO@		3	2781			44
387	12	120	BLK	DCW	@ @		3	2784			45
388	12	130	CDSW	DCW	@0@		1	2785			45
389	12	140	CDSYM	DCW	@.CD@		3	2788			45
390	12	150	CURNT	DCW	#3		3	2791			45
391	12	160	CNOP	DCW	@.NM@		3	2794			45
392	12	170	SYM	DCW	#3		3	2797			45
393	12	180	QUAL	DCW	@*32@		3	2800			45
394	12	190	OUTSYM	DCW	#3		3	2803			46
395	12	200	GCN	DCW	@A10@		3	2806			46
396	12	210		DCW	@ @		2	2808			46
397	12	220	EQNM	DCW	@ 3@		2	2810			46

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
398	12	230	HQNM	DCW	@ 1@		2	2812			46
399	12	240	IQNM	DCW	@ 1@		2	2814			46
400	12	250	QDIGIT	DCW	@.Q@		2	2816			46
401	13	010	CHR	DCW	@ @		1	2817			47
402	13	020	SSLCT	DCW	@*77@		3	2820			47
403	13	030	SENV	DCW	@*91@		3	2823			47
404	13	040	SDATA	DCW	@/24@		3	2826			47
405	13	050	LVOP	DCW	@.LV@		3	2829			47
406	13	060	SVAL	DCW	@/13@		3	2832			47
407	13	070	EOP	DCW	@.EP@		3	2835			47
408	13	080	SFD	DCW	@/26@		3	2838			48
409	13	090	SFIL	DCW	@/23@		3	2841			48
410	13	100	SFILL	DCW	@/23@		3	2844			48
411	13	110	BPYSW	DCW	@0@		1	2845			48
412	13	120	LKSW	DCW	@0@		1	2846			48
413	13	130	ATNMSW	DCW	@0@		1	2847			48
414	13	140	LSTOP	DCW	@.LT@		3	2850			48
415	13	150	ANOP	DCW	@.AN@		3	2853			49
416	13	160	FILCNT	DCW	@000@		3	2856			49
417	13	170	FILSW	DCW	@0@		1	2857			49
418	13	180	VALSW	DC	@0@		1	2858			49
419	13	190	TSTCHR	DCW	@ @		1	2859			49
420	13	200	QSW1	DCW	@0@		1	2860			49
421	13	210	QSW	DCW	@0@		1	2861			49
422	13	220	SVSW	DCW	@0@		1	2862			49
423	13	230	ENTSW	DCW	@0@		1	2863			50
424	13	240	PTGTSW	DCW	@0@		1	2864			50
425	13	250		DCW	@***@		3	2867			50
426	14	010	TBGCN	DCW	#3		3	2870			50
427	14	020	TAG	DCW	@ @		2	2872			50
428	14	030	FIELD	DCW	@ @		1	2873			50
429	14	040		DC	#32		32	2905			51
430	14	050		LTORG					2906		
				DCW	@0@		1	2906		LIT	51
					@1@		1	2907		LIT	51
					@N@		1	2908		LIT	51
					@-@		1	2909		LIT	51
					@B@		1	2910		LIT	52
					@&@		1	2911		LIT	52
					@ @		1	2912		LIT	52
					&1		1	2913		LIT	52
					@002@		3	2916		LIT	52
					&3		1	2917		LIT	52
					@|@		1	2918		LIT	52
					@000@		3	2921		LIT	53
					@ @		3	2924		LIT	53
					@003@		3	2927		LIT	53
431	14	060	INTAB	DCW	#3		3	2930			53
432	14	070		DC	#50		50	2980			55
433	14	080		DC	#50		50	3030			57

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
434	14	090		DC	#50		50	3080			59
435	14	100		DC	#50		50	3130			61
436	14	110		DC	#50		50	3180			63
437	14	120		DC	#47		47	3227			65
438	14	130		DC	#35		35	3262			66
439	14	140	OVCHR	DC	@|@		1	3263			66
440	14	150	GRMK	DCW	@}@		1	3264			66
441	14	160		END	INIT				/ T50 080		67

CLEAR STORAGE 1 ,008015,019026,030,034041,045,053,0570571026 1
 CLEAR STORAGE 2 L068112,102106,113/101099/I99,027A070028)027B0010270B0261,001/001113I0 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	010	000	JOB	1401 COBOL - B06						
102	1	020		CTL	631 11						
103	1	030	X1	EQU	89			0089			
104	1	040	X2	EQU	94			0094			
105	1	050	X3	EQU	99			0099			
106	1	060	GETX	EQU	335			0335			
107	1	070	SUPER	EQU	351			0351			
108	1	080	PUTX	EQU	363			0363			
109	1	090	DTCN1	EQU	1302			1302			
110	1	100	C	EQU	1303			1303			
111	1	110	DTCN	EQU	C&5			1308			
112	1	120	DTEND	EQU	C&8			1311			
113	1	130	ENDADR	EQU	C&8			1311			
114	1	140	DTADR	EQU	C&11			1314			
115	1	150	PRCN1	EQU	C&14			1317			
116	1	160	PRCN	EQU	C&17			1320			
117	1	170	PREND	EQU	C&20			1323			
118	1	180	PRADR	EQU	C&23			1326			
119	1	190	DOVSW	EQU	C&32			1335			
120	1	200	POVSW	EQU	C&33			1336			
121	1	210	DQSW	EQU	C&34			1337			
122	1	220	PQSW	EQU	C&35			1338			
123	1	230	OVFSW	EQU	C&31			1334			
124	1	240	OVSW	EQU	C&30			1333			
125	1	250	TBSW	EQU	C&38			1341			
126	2	010	INTAB	EQU	2930			2930			
127	2	020		ORG	1350				1350		
128	2	030	SYSW	EQU	C&37			1340			
129	2	040	INIT	B	GTSYM	4		1350	B K08		4
130	2	050		B	PUTX	4		1354	B 363		4
131	2	060		DCW	CURNT	3		1360	P42		4
132	2	070		C	CURNT,SENV	7		1361	C P42 P76		4
133	2	080		BU	INIT	5		1368	B T50 /		4
134	2	090		B	GTEST	4		1373	B T84		4
135	2	100	PTEST	B	PUTX	4		1377	B 363		4
136	2	110		DCW	CURNT	3		1383	P42		5
137	2	120	GTEST	B	GTSYM	4		1384	B K08		5
138	2	130	TEST	B	ENVTST	4		1388	B U16		5
139	2	140		B	DTTST	4		1392	B V66		5
140	2	150	TBLKUP	B	ENTFLD	4		1396	B Z78		5
141	2	160	TBLK1	B	LKNAME	4		1400	B Y31		5
142	2	170		BCE	NTFND,LKSW,0	8		1404	B Y01 P93 0		5
143	2	180		B	FOUND	4		1412	B W44		6
144	2	190	ENVTST	C	CURNT,SSLCT	7		1416	C P42 P70		6
145	2	200		BU	ENV01	5		1423	B U48 /		6
146	2	210		B	PTGTSY	4		1428	B K92		6
147	2	220	ENV02	C	CURNT,CNOP	7		1432	C P42 P45		6

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	2	230		BE	PSNAME	5		1439	B L90 S		6
149	2	240		B	PTEST	4		1444	B T77		6
150	2	250	ENV01	C	CURNT,SDATA	7		1448	C P42 P79		7
151	3	010		BU	CNCHKE	5		1455	B U78 /		7
152	3	020		MLC	@N@,TEST	7		1460	M Q66 T88		7
153	3	030		MLC	@N@,PTLV01	7		1467	M Q66 L15		7
154	3	040		B	PTEST	4		1474	B T77		7
155	3	050	CNCHKE	C	CURNT,CNOP	7		1478	C P42 P45		7
156	3	060		BE	CNCHK1	5		1485	B V10 S		8
157	3	070		C	CURNT,LSTOP	7		1490	C P42 Q05		8
158	3	080		BU	PTEST	5		1497	B T77 /		8
159	3	090		B	PTGTSY	4		1502	B K92		8
160	3	100		B	PSNAME	4		1506	B L90		8
161	3	110	CNCHK1	B	ENTFLD	4		1510	B Z78		8
162	3	120		C	CURNT,ANOP	7		1514	C P42 Q14		8
163	3	130		BU	TBLK1	5		1521	B U00 /		9
164	3	140		B	OUTNM	4		1526	B !91		9
165	3	150		BCE	GTEST,OVSW,0	8		1530	B T84 T33 0		9
166	3	160		B	PTGTSY	4		1538	B K92		9
167	3	170		B	ENV02	4		1542	B U32		9
168	3	180	CNCHK	C	CURNT,CNOP	7		1546	C P42 P45		9
169	3	190		BE	TBLKUP	5		1553	B T96 S		9
170	3	200		B	PUTLEV	4		1558	B L11		10
171	3	210		B	PTEST	4		1562	B T77		10
172	3	220	DTTST	C	CURNT,FDOP	7		1566	C P42 P88		10
173	3	230		BU	DTT01	5		1573	B V86 /		10
174	3	240		B	GTSYM	4		1578	B K08		10
175	3	250		B	CNCHK	4		1582	B V46		10
176	4	010	DTT01	C	CURNT,LVOP	7		1586	C P42 P82		10
177	4	020		BU	DTT02	5		1593	B W24 /		11
178	4	030		B	GTSYM	4		1598	B K08		11
179	4	040		MLC	CURNT,LEVNO	7		1602	M P42 P91		11
180	4	050		MLC	@1@,LEVSW	7		1609	M Q67 P92		11
181	4	060		B	GTSYM	4		1616	B K08		11
182	4	070		B	CNCHK	4		1620	B V46		11
183	4	080	DTT02	C	CURNT,SPROC	7		1624	C P42 P35		11
184	4	090		BU	PTEST	5		1631	B T77 /		12
185	4	100	PR01	B	PTGTSY	4		1636	B K92		12
186	4	110		B	PR01	4		1640	B W36		12
187	4	120	FOUND	BWZ	LK02,0&X3,K	8		1644	V Z07 0?0 K		12
188	4	130		MN	0&X3,NMCHR	7		1652	D 0?0 P66		12
189	4	140		BCE	FND01,NMCHR,	8		1659	B X12 P66		12
190	4	150		BWZ	FND07,0&X3,B	8		1667	V X72 0?0 B		13
191	4	160		BCE	FND06,NMCHR,3	8		1675	B W90 P66 3		13
192	4	170		MLC	@1@,NMCHR	7		1683	M Q67 P66		13
193	4	180	FND06	MLC	NMCHR,OUTSYM	7		1690	M P66 P58		13
194	4	190		MLC		1		1697	M		13
195	4	200		B	PUTX	4		1698	B 363		13
196	4	210		DCW	OUTSYM	3		1704	P58		13
197	4	220		MLC	@1@,DQSW	7		1705	M Q67 T37		14

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
198	4	230	FND01	C	@ @, 0&X3		7	1712	C Q68 0?0		14
199	4	240		SBR	X3		4	1719	H 099		14
200	4	250		BCE	FND09, 0&X3, *		8	1723	B X83 0?0 *		14
201	5	010		BCE	FND09, 0&X3,]		8	1731	B X83 0?0]		14
202	5	020		MLC	@]@, 0&X3		7	1739	M Q69 0?0		15
203	5	030	FND02	B	PUTLEV		4	1746	B L11		15
204	5	040		B	PUTX		4	1750	B 363		15
205	5	050		DCW	GCN		3	1756	P61		15
206	5	060	LSTOUT	B	PUTX		4	1757	B 363		15
207	5	070		DCW	LSTOP		3	1763	Q05		15
208	5	080		B	OUTNM		4	1764	B !91		15
209	5	090		B	TEST		4	1768	B T88		16
210	5	100	FND07	MLC	@2@, NMCHR		7	1772	M Q70 P66		16
211	5	110		B	FND06		4	1779	B W90		16
212	5	120	FND09	B	PUTX		4	1783	B 363		16
213	5	130		DCW	MLTSYM		3	1789	Q08		16
214	5	140		MLC	@*@, 0&X3		7	1790	M Q71 0?0		16
215	5	150		B	FND02		4	1797	B X46		16
216	5	160	NTFND	BCE	OUTCN, OVSW, 1		8	1801	B !79 T33 1		17
217	5	170		MLC	@0@, FILSW		7	1809	M Q72 Q18		17
218	5	180		B	PUTLEV		4	1816	B L11		17
219	5	190		B	PUTX		4	1820	B 363		17
220	5	200		DCW	BLK		3	1826	Q24		17
221	5	210		B	TEST		4	1827	B T88		17
222	5	220	LKNAME	SBR	LK05&3		4	1831	H Z77		17
223	5	230		ZA	FIELD&1, X3		7	1835	? Q32 099		18
224	5	240		A	X3		4	1842	A 099		18
225	5	250		A	FIELD&1, X3		7	1846	A Q32 099		18
226	6	010		MZ	@ @, X3		7	1853	Y Q68 099		18
227	6	020		BCE	LK06, INTAB&X3,		8	1860	B Z48 RC0		18
228	6	030		MLC	INTAB&X3, X3		7	1868	M RC0 099		19
229	6	040	LK03	C	0&X3, FIELD&X2		7	1875	C 0?0 QL1		19
230	6	050		SAR	X3		4	1882	Q 099		19
231	6	060		BU	LK01		5	1886	B Z36 /		19
232	6	070		BWZ	LK07, 1&X3, 1		8	1891	V Z59 0?1 1		19
233	6	080	LK04	C	0&X3		4	1899	C 0?0		19
234	6	090		SAR	X3		4	1903	Q 099		19
235	6	100	LK02	C	0&X3		4	1907	C 0?0		20
236	6	110		C			1	1911	C		20
237	6	120		C			1	1912	C		20
238	6	130		SAR	X3		4	1913	Q 099		20
239	6	140		BCE	LK06, 3&X3, *		8	1917	B Z48 0?3 *		20
240	6	150		MLC	3&X3, X3		7	1925	M 0?3 099		20
241	6	160		B	LK03		4	1932	B Y75		20
242	6	170	LK01	BWZ	LK02, 1&X3, 1		8	1936	V Z07 0?1 1		21
243	6	180		B	LK04		4	1944	B Y99		21
244	6	190	LK06	MLC	@0@, LKSW		7	1948	M Q72 P93		21
245	6	200		B	LK05		4	1955	B Z74		21
246	6	210	LK07	C	0&X3, GCN&2		7	1959	C 0?0 P63		21
247	6	220		MLC			1	1966	M		21

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
248	6	230		MLC	@1@,LKSW		7	1967	M Q67 P93		21
249	6	240	LK05	B	*		4	1974	B Z77		22
250	6	250	ENTFLD	SBR	ENTF01&3		4	1978	H !60		22
251	7	010		MLC	CURNT,SYM		7	1982	M P42 P48		22
252	7	020		MLC	@002@,X2		7	1989	M Q75 094		22
253	7	030		B	GTSYM		4	1996	B K08		22
254	7	040		B	ENTF03		4	2000	B !27		22
255	7	050	ENTF02	B	GTSYM		4	2004	B K08		22
256	7	060		C	CURNT,SYM		7	2008	C P42 P48		23
257	7	070		BE	ENTF04		5	2015	B !38 S		23
258	7	080		A	&3,X2		7	2020	A Q76 094		23
259	7	090	ENTF03	MLC	CURNT,FIELD&X2		7	2027	M P42 QL1		23
260	7	100		B	ENTF02		4	2034	B !04		23
261	7	110	ENTF04	BCE	ENTF05,FIELD&X2,		8	2038	B !61 QL1		23
262	7	120		MLC	@|@,FIELD&1&X2		7	2046	M Q77 QL2		24
263	7	130		B	GTSYM		4	2053	B K08		24
264	7	140	ENTF01	B	*		4	2057	B !60		24
265	7	150	ENTF05	S	&1,X2		7	2061	S Q78 094		24
266	7	160		MZ	@ @,X2		7	2068	Y Q68 094		24
267	7	170		B	ENTF04		4	2075	B !38		24
268	7	180	OUTCN	B	PUTLEV		4	2079	B L11		24
269	7	190		B	OUTNM		4	2083	B !91		25
270	7	200		B	TEST		4	2087	B T88		25
271	7	210	OUTNM	SBR	OUTNM1&3		4	2091	H K07		25
272	7	220		B	PUTX		4	2095	B 363		25
273	7	230		DCW	SYM		3	2101	P48		25
274	7	240		MLC	@000@,X2		7	2102	M Q81 094		25
275	7	250	OUTCN2	MLC	@ @,OUTSYM		7	2109	M Q84 P58		25
276	8	010		MLC	@000@,X3		7	2116	M Q81 099		26
277	8	020	OUTCN3	BCE	OUTCNX,FIELD&X2,|		8	2123	B J82 QL1	|	26
278	8	030		MZ	FIELD&X2,OUTSYM-2&X3		7	2131	Y QL1 PE6		26
279	8	040		MN	FIELD&X2,OUTSYM-2&X3		7	2138	D QL1 PE6		26
280	8	050		A	&1,X2		7	2145	A Q78 094		26
281	8	060		A	&1,X3		7	2152	A Q78 099		27
282	8	070		C	X3,@003@		7	2159	C 099 Q87		27
283	8	080		BU	OUTCN3		5	2166	B J23 /		27
284	8	090		B	PUTX		4	2171	B 363		27
285	8	100		DCW	OUTSYM		3	2177	P58		27
286	8	110		B	OUTCN2		4	2178	B J09		27
287	8	120	OUTCNX	BCE	OUTCN4,X3,0		8	2182	B J97 099 0		27
288	8	130		B	PUTX		4	2190	B 363		28
289	8	140		DCW	OUTSYM		3	2196	P58		28
290	8	150	OUTCN4	B	PUTX		4	2197	B 363		28
291	8	160		DCW	SYM		3	2203	P48		28
292	8	170	OUTNM1	B	*		4	2204	B K07		28
293	8	180	GTSYM	SBR	GT01&3		4	2208	H K37		28
294	8	190	GT08	B	GETX		4	2212	B 335		28
295	8	200		DCW	CURNT		3	2218	P42		29
296	8	210		DCW	EOJ		3	2221	M21		29
297	8	220	GT03	C	CURNT,CDSYM		7	2222	C P42 P39		29

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
298	8	230		BE	GT02		5	2229	B K38 S		29
299	8	240	GT01	B	*		4	2234	B K37		29
300	8	250	GT02	MLC	@@,CDSW		7	2238	M Q72 P36		29
301	9	010	GT04	B	PUTX		4	2245	B 363		29
302	9	020		DCW	CURNT		3	2251	P42		30
303	9	030		B	GETX		4	2252	B 335		30
304	9	040		DCW	CURNT		3	2258	P42		30
305	9	050		DCW	EOJ		3	2261	M21		30
306	9	060		A	&1,CDSW		7	2262	A Q78 P36		30
307	9	070		BCE	GT03,CDSW,3		8	2269	B K22 P36 3		30
308	9	080		B	GT04		4	2277	B K45		30
309	9	090	GT05	B	PUTX		4	2281	B 363		31
310	9	100		DCW	CURNT		3	2287	P42		31
311	9	110		B	GT08		4	2288	B K12		31
312	9	120	PTGTSY	SBR	PTGT01&3		4	2292	H L10		31
313	9	130		B	PUTX		4	2296	B 363		31
314	9	140		DCW	CURNT		3	2302	P42		31
315	9	150		B	GTSYM		4	2303	B K08		31
316	9	160	PTGT01	B	*		4	2307	B L10		32
317	9	170	PUTLEV	SBR	PUTL01&3		4	2311	H L51		32
318	9	180	PTLV01	B	PUTL02		4	2315	B L52		32
319	9	190		BCE	PUTL03,LEVSW,0		8	2319	B L79 P92 0		32
320	9	200		B	PUTX		4	2327	B 363		32
321	9	210		DCW	LVOP		3	2333	P82		32
322	9	220		B	PUTX		4	2334	B 363		32
323	9	230		DCW	LEVNO		3	2340	P91		33
324	9	240		MLC	@@,LEVSW		7	2341	M Q72 P92		33
325	9	250	PUTL01	B	*		4	2348	B L51		33
326	10	010	PUTL02	BCE	PUTL04,LKSW,1		8	2352	B L68 P93 1		33
327	10	020		BCE	PUTL01,OVSU,1		8	2360	B L48 T33 1		33
328	10	030	PUTL04	B	PUTX		4	2368	B 363		33
329	10	040		DCW	SPNOP		3	2374	Q11		33
330	10	050		B	PUTL01		4	2375	B L48		34
331	10	060	PUTL03	B	PUTX		4	2379	B 363		34
332	10	070		DCW	FDOP		3	2385	P88		34
333	10	080		B	PUTL01		4	2386	B L48		34
334	10	090	PSNAME	MLC	CURNT,SYM		7	2390	M P42 P48		34
335	10	100	PSNM02	B	PTGTSY		4	2397	B K92		34
336	10	110		C	CURNT,SYM		7	2401	C P42 P48		34
337	10	120		BU	PSNM02		5	2408	B L97 /		35
338	10	130		B	PTGTSY		4	2413	B K92		35
339	10	140		B	TEST		4	2417	B T88		35
340	10	150	EOJ	SW	GRMK		4	2421	, Q65		35
341	10	160		MLC	DTCN,GCN		7	2425	M T08 P61		35
342	10	170		MLC	DTADR,X3		7	2432	M T14 099		35
343	10	180	EOJ1	C	ENDADR,X3		7	2439	C T11 099		35
344	10	190		BE	EOJ3		5	2446	B O24 S		36
345	10	200		MLC	@|@,1&X3		7	2451	M Q77 0?1		36
346	10	210		C	0&X3,0&X3		7	2458	C 0?0 0?0		36
347	10	220		C			1	2465	C		36

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
348	10	230		SAR	X3		4	2466	Q 099		36
349	10	240		MCM	3&X3, FIELD		7	2470	P 0?3 Q31		36
350	10	250		BWZ	QLNAME, 2&X3, 2		8	2477	V 009 0?2 2		36
351	11	010		BCE	UNDEF, 1&X3,		8	2485	B N40 0?1		37
352	11	020		BCE	MLTDEF, 1&X3, *		8	2493	B N87 0?1 *		37
353	11	030		MN	2&X3, TSTCHR		7	2501	D 0?2 P52		37
354	11	040		BCE	EOJ2, TSTCHR,		8	2508	B N20 P52		37
355	11	050		B	QLNAME		4	2516	B 009		37
356	11	060	EOJ2	A	&1, GCN		7	2520	A Q78 P61		38
357	11	070		C	0&X3		4	2527	C 0?0		38
358	11	080		C			1	2531	C		38
359	11	090		SAR	X3		4	2532	Q 099		38
360	11	100		B	EOJ1		4	2536	B M39		38
361	11	110	UNDEF	B	TBRTN		4	2540	B P03		38
362	11	120		MLC	@1@, SYSW		7	2544	M Q67 T40		38
363	11	130		B	PUTX		4	2551	B 363		39
364	11	140		DCW	UNSYM		3	2557	P99		39
365	11	150	UNDEF1	B	PUTX		4	2558	B 363		39
366	11	160		DCW	GCN		3	2564	P61		39
367	11	170		MLC	X3, SAVE		7	2565	M 099 P73		39
368	11	180		B	OUTNM		4	2572	B !91		39
369	11	190		MLC	SAVE, X3		7	2576	M P73 099		39
370	11	200		B	EOJ2		4	2583	B N20		40
371	11	210	MLTDEF	B	TBRTN		4	2587	B P03		40
372	11	220		B	PUTX		4	2591	B 363		40
373	11	230		DCW	MLTSYM		3	2597	Q08		40
374	11	240		MLC	@1@, SYSW		7	2598	M Q67 T40		40
375	11	250		B	UNDEF1		4	2605	B N58		40
376	12	010	QLNAME	B	TBRTN		4	2609	B P03		40
377	12	020		B	PUTX		4	2613	B 363		41
378	12	030		DCW	QLSYM		3	2619	Q02		41
379	12	040		B	UNDEF1		4	2620	B N58		41
380	12	050	EOJ3	B	PUTX		4	2624	B 363		41
381	12	060		DCW	EOP		3	2630	P85		41
382	12	070		BCE	EOJ4, OVSW, 0		8	2631	B 073 T33 0		41
383	12	080		MLC	@00@, OVFSW		7	2639	M Q89 T34		41
384	12	090		BSP	1		5	2646	U %U1 B		42
385	12	100		BSP	1		5	2651	U %U1 B		42
386	12	110		BSP	1		5	2656	U %U1 B		42
387	12	120		BSP	1		5	2661	U %U1 B		42
388	12	130		B	SUPER		4	2666	B 351		42
389	12	140		DCW	@B05@		3	2672			42
390	12	150	EOJ4	BCE	EOJ5, PQSW, 1		8	2673	B 096 T38 1		42
391	12	160		BCE	EOJ5, DQSW, 1		8	2681	B 096 T37 1		43
392	12	170		B	SUPER		4	2689	B 351		43
393	12	180		DCW	@B09@		3	2695			43
394	12	190	EOJ5	B	SUPER		4	2696	B 351		43
395	12	200		DCW	@B07@		3	2702			43
396	12	210	TBRTN	SBR	TBRTN1&3		4	2703	H P32		43
397	12	220		BCE	TBRTN1, TBSW, 1		8	2707	B P29 T41 1		43

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
398	12	230		B	PUTX		4	2715	B 363		44
399	12	240		DCW	TBOP		3	2721	P51		44
400	12	250		MLC	@1@,TBSW		7	2722	M Q67 T41		44
401	13	010	TBRTN1	B	*		4	2729	B P32		44
402	13	020	SPROC	DCW	@*01@		3	2735			44
403	13	030	CDSW	DCW	@0@		1	2736			44
404	13	040	CDSYM	DCW	@.CD@		3	2739			44
405	13	050	CURNT	DCW	@ @		3	2742			45
406	13	060	CNOP	DCW	@.NM@		3	2745			45
407	13	070	SYM	DCW	#3		3	2748			45
408	13	080	TBOP	DCW	@.TO@		3	2751			45
409	13	090	TSTCHR	DCW	@ @		1	2752			45
410	13	100	QUAL	DCW	@*32@		3	2755			45
411	13	110	OUTSYM	DCW	#3		3	2758			45
412	13	120	GCN	DCW	#3		3	2761			46
413	13	130		DCW	@ @		2	2763			46
414	13	140	QDIGIT	DCW	@.T@		2	2765			46
415	13	150	NMCHR	DCW	@ @		1	2766			46
416	13	160	CHR	DCW	@ @		1	2767			46
417	13	170	SSLCT	DCW	@*77@		3	2770			46
418	13	180	SAVE	DCW	#3		3	2773			46
419	13	190	SENV	DCW	@*91@		3	2776			47
420	13	200	SDATA	DCW	@/24@		3	2779			47
421	13	210	LVOP	DCW	@.LV@		3	2782			47
422	13	220	EOP	DCW	@.EP@		3	2785			47
423	13	230	FDOP	DCW	@/26@		3	2788			47
424	13	240	LEVNO	DCW	#3		3	2791			47
425	13	250	LEVSW	DCW	@0@		1	2792			47
426	14	010	LKSW	DCW	@0@		1	2793			48
427	14	020	SFILL	DCW	@/23@		3	2796			48
428	14	030	UNSYM	DCW	@.UN@		3	2799			48
429	14	040	QLSYM	DCW	@.QN@		3	2802			48
430	14	050	LSTOP	DCW	@.LT@		3	2805			48
431	14	060	MLTSYM	DCW	@.MT@		3	2808			48
432	14	070	SPNOP	DCW	@.SP@		3	2811			48
433	14	080	ANOP	DCW	@.AN@		3	2814			49
434	14	090	AUTO	DCW	@.AN@		3	2817			49
435	14	100	FILSW	DCW	@0@		1	2818			49
436	14	110	UOP	DCW	@.UU@		3	2821			49
437	14	120	BLK	DCW	@ @		3	2824			49
438	14	130	FILCNT	DCW	@000@		3	2827			49
439	14	140	ENTSW	DCW	@0@		1	2828			49
440	14	150	TAG	DCW	@ @		2	2830			50
441	14	160	FIELD	DCW	@ @		1	2831			50
442	14	170		DC	#32		32	2863			50
443	14	180	NAME	DC	@ @		1	2864			50
444	14	190	GRMK	DC	@}@		1	2865			50
445	14	200		LTORG					2866		
				DCW	@N@		1	2866		LIT	50
					@1@		1	2867		LIT	50

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
					@ @		1	2868		LIT	51
					@]@		1	2869		LIT	51
					@2@		1	2870		LIT	51
					@*@		1	2871		LIT	51
					@0@		1	2872		LIT	51
					@002@		3	2875		LIT	51
					&3		1	2876		LIT	51
					@|@		1	2877		LIT	52
					&1		1	2878		LIT	52
					@000@		3	2881		LIT	52
					@ @		3	2884		LIT	52
					@003@		3	2887		LIT	52
					@00@		2	2889		LIT	52
446	14	210		DCW	@}@		1	2890			52
447	14	220		END					/ 000 080		53

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CLEAR STORAGE 1      ,008015,019026,030,034041,045,053,0570571026      1
CLEAR STORAGE 2      L068112,102106,113/101099/I99,027A070028)027B0010270B0261,001/001113I0      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	010	000	JOB	1401 COBOL - B07						
102	1	020		CTL	631 11						
103	1	030	X1	EQU	89			0089			
104	1	040	X2	EQU	94			0094			
105	1	050	X3	EQU	99			0099			
106	1	060	GETX	EQU	335			0335			
107	1	070	SUPER	EQU	351			0351			
108	1	080	PUTX	EQU	363			0363			
109	1	090	DTCN1	EQU	1302			1302			
110	1	100	C	EQU	1303			1303			
111	1	110	DTCN	EQU	C&5			1308			
112	1	120	DTEND	EQU	C&8			1311			
113	1	130	ENDADR	EQU	C&8			1311			
114	1	140	DTADR	EQU	C&11			1314			
115	1	150	PRCN1	EQU	C&14			1317			
116	1	160	PRCN	EQU	C&17			1320			
117	1	170	PREND	EQU	C&20			1323			
118	1	180	PRADR	EQU	C&23			1326			
119	1	190	LTNM1	EQU	C&26			1329			
120	1	200	LTNM	EQU	C&29			1332			
121	1	210	OVSW	EQU	C&30			1333			
122	1	220	OVFSW	EQU	C&31			1334			
123	1	230	DOVSW	EQU	C&32			1335			
124	1	240	POVSW	EQU	C&33			1336			
125	1	250	DQSW	EQU	C&34			1337			
126	2	010	PQSW	EQU	C&35			1338			
127	2	020	LITSW	EQU	C&36			1339			
128	2	030	PENTSW	EQU	C&36			1339			
129	2	040	SYSW	EQU	C&37			1340			
130	2	050		ORG	1350				1350		
131	2	060	START	CS	332	4		1350	/ 332		4
132	2	070		CS		1		1354	/		4
133	2	080		MLC	DTCN1,GCN	7		1355	M T02 R40		4
134	2	090		MLC	@0@,OVSW	7		1362	M R69 T33		4
135	2	100		MLC	DTCN1,DTCN	7		1369	M T02 T08		4
136	2	110		MLC	@0@,PENTSW	7		1376	M R69 T39		4
137	2	120		MLC	@00@,POVSW	7		1383	M R71 T36		5
138	2	130		MLC		1		1390	M		5
139	2	140	INIT	B	GTSYM	4		1391	B O26		5
140	2	150		B	PUTX	4		1395	B 363		5
141	2	160		DCW	CURNT	3		1401	R25		5
142	2	170		C	CURNT,SDATA	7		1402	C R25 R13		5
143	2	180		BU	INIT	5		1409	B T91 /		5
144	2	190		MLC	DTADR,X3	7		1414	M T14 099		6
145	2	200		BCE	DTPTGT,DQSW,0	8		1421	B N73 T37 0		6
146	2	210		MLC	DTADR,TEMP	7		1429	M T14 R62		6
147	2	220		B	GTEST	4		1436	B U47		6

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	2	230	PTEST	B	PUTX		4	1440	B 363		6
149	2	240		DCW	CURNT		3	1446	R25		6
150	2	250	GTEST	B	GTSYM		4	1447	B O26		6
151	3	010	TEST	B	DTTST		4	1451	B Y50		7
152	3	020		BCE	PR08,PQSW,0		8	1455	B Y34 T38 0		7
153	3	030		C	CURNT,TBOP		7	1463	C R25 R68		7
154	3	040		BE	PROEXT		5	1470	B X93 S		7
155	3	050		C	CURNT-1,@.T@		7	1475	C R24 R73		7
156	3	060		BU	PTEST		5	1482	B U40 /		7
157	3	070	PROENT	MLC	@B@,PSW1		7	1487	M R74 W39		8
158	3	080		MLC	@N@,PSW2		7	1494	M R75 V87		8
159	3	090		MLC	@ @,TAG		7	1501	M R76 R28		8
160	3	100		BCE	PR11,CURNT,1		8	1508	B V49 R25 1		8
161	3	110		BCE	PR12,CURNT,2		8	1516	B V42 R25 2		8
162	3	120		MZ	@&@,TAG		7	1524	Y R77 R28		9
163	3	130		MLC	@N@,PSW1		7	1531	M R75 W39		9
164	3	140		B	PR11		4	1538	B V49		9
165	3	150	PR12	MZ	@-@,TAG		7	1542	Y R78 R28		9
166	3	160	PR11	B	GTSYM		4	1549	B O26		9
167	3	170		C	CURNT,MLTSYM		7	1553	C R25 R65		9
168	3	180		BU	PR01		5	1560	B V83 /		10
169	3	190		MN	@1@,TAG		7	1565	D R79 R28		10
170	3	200		MLC	@B@,PSW2		7	1572	M R74 V87		10
171	3	210		B	GTSYM		4	1579	B O26		10
172	3	220	PR01	B	PTGTSY		4	1583	B O99		10
173	3	230	PSW2	B	LKNAME		4	1587	B Q42		10
174	3	240		MLC	CURNT,FIELD		7	1591	M R25 R31		10
175	3	250		B	GTSYM		4	1598	B O26		11
176	4	010		C	CURNT,SSCT		7	1602	C R25 R37		11
177	4	020		MLC	@)@,TLEV		7	1609	M R81 R27		11
178	4	030		BU	PSW1		5	1616	B W39 /		11
179	4	040		MLC	@1@,SCTSW		7	1621	M R79 R41		11
180	4	050		MLC	@ @,TLEV		7	1628	M R84 R27		11
181	4	060		B	GTSYM		4	1635	B O26		12
182	4	070	PSW1	B	PR02		4	1639	B W58		12
183	4	080		B	PUTX		4	1643	B 363		12
184	4	090		DCW	GCN		3	1649	R40		12
185	4	100		B	CNRTN		4	1650	B N97		12
186	4	110		B	PR03		4	1654	B W65		12
187	4	120	PR02	B	PUTX		4	1658	B 363		12
188	4	130		DCW	FIELD		3	1664	R31		13
189	4	140	PR03	BCE	PR04,SCTSW,0		8	1665	B W87 R41 0		13
190	4	150		B	PUTX		4	1673	B 363		13
191	4	160		DCW	SSCT		3	1679	R37		13
192	4	170		MLC	@0@,SCTSW		7	1680	M R69 R41		13
193	4	180	PR04	LCA	FIELD,0&X3		7	1687	L R31 0?0		13
194	4	190		LCA			1	1694	L		13
195	4	200		SBR	X3		4	1695	H 099		14
196	4	210		MLC	@1@,PENTSW		7	1699	M R79 T39		14
197	4	220		BCE	TEST,OVCHR,|		8	1706	B U51 B50 |		14

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
198	4	230	PR10	C	CURNT-1,@.T@		7	1714	C R24 R73		14
199	4	240		BU	PR07		5	1721	B X73 /		14
200	4	250		MLC	@1@,POVSW		7	1726	M R79 T36		14
201	5	010		B	PTGTSY		4	1733	B O99		15
202	5	020		C	CURNT,MLTSYM		7	1737	C R25 R65		15
203	5	030		BU	PR15		5	1744	B X65 /		15
204	5	040		B	PTGTSY		4	1749	B O99		15
205	5	050		B	PTGTSY		4	1753	B O99		15
206	5	060		B	LKNAME		4	1757	B Q42		15
207	5	070		B	PR16		4	1761	B X69		15
208	5	080	PR15	B	PTGTSY		4	1765	B O99		16
209	5	090	PR16	B	PTGTSY		4	1769	B O99		16
210	5	100	PR07	C	CURNT,TBOP		7	1773	C R25 R68		16
211	5	110		BU	PR09		5	1780	B Y42 /		16
212	5	120		BCE	PR20,POVSW,1		8	1785	B Y20 T36 1		16
213	5	130	PROEXT	C	3&X3,@ @		7	1793	C O?3 R84		16
214	5	140		BE	PR20		5	1800	B Y20 S		17
215	5	150		LCA	@ @,0&X3		7	1805	L R84 0?0		17
216	5	160		LCA	@ @		4	1812	L R84		17
217	5	170		SBR	X3		4	1816	H O99		17
218	5	180	PR20	MLC	X3,PREND		7	1820	M O99 T23		17
219	5	190		MLC	GCN,PRCN1		7	1827	M R40 T17		17
220	5	200	PR08	B	PTGTSY		4	1834	B O99		17
221	5	210		B	PR08		4	1838	B Y34		18
222	5	220	PR09	B	PTGTSY		4	1842	B O99		18
223	5	230		B	PR10		4	1846	B X14		18
224	5	240	DTTST	C	CURNT-1,@.T@		7	1850	C R24 R73		18
225	5	250		BE	DTENT		5	1857	B !13 S		18
226	6	010	DSW4	B	DTT01		4	1862	B Z26		18
227	6	020		C	CURNT,SFLSCT		7	1866	C R25 R16		18
228	6	030		BE	DTLVT1		5	1873	B N39 S		19
229	6	040		C	CURNT,WRKSCT		7	1878	C R25 R19		19
230	6	050		BE	DTLVT1		5	1885	B N39 S		19
231	6	060		C	CURNT,CNSSCT		7	1890	C R25 R22		19
232	6	070		BE	DTLVT1		5	1897	B N39 S		19
233	6	080		C	CURNT,FDOP		7	1902	C R25 R34		19
234	6	090		BE	DTLVT1		5	1909	B N39 S		20
235	6	100		C	CURNT,LVOP		7	1914	C R25 R47		20
236	6	110		BE	DTLVT		5	1921	B N19 S		20
237	6	120	DTT01	C	CURNT,SPROC		7	1926	C R25 R50		20
238	6	130		BU	PTEST		5	1933	B U40 /		20
239	6	140	DTTRTN	LCA	@ @,0&X3		7	1938	L R84 0?0		20
240	6	150		LCA	@ @		4	1945	L R84		21
241	6	160		SBR	X3		4	1949	H O99		21
242	6	170		MLC	@0@,DQSW		7	1953	M R69 T37		21
243	6	180	DTTRT2	MLC	X3,DTEND		7	1960	M O99 T11		21
244	6	190		MLC	GCN,DTCN1		7	1967	M R40 T02		21
245	6	200	DTTRT1	MLC	X3,PRADR		7	1974	M O99 T26		21
246	6	210		MLC	PRCN1,GCN		7	1981	M T17 R40		22
247	6	220		MLC	PRCN1,PRCN		7	1988	M T17 T20		22

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
248	6	230		MLC	@N@,TEST	7	1995	M R75	U51		22
249	6	240		MLC	PRADR,TEMP	7	2002	M T26	R62		22
250	6	250		B	PTEST	4	2009	B U40			22
251	7	010	DTENT	MLC	@N@,DSW1	7	2013	M R75	J98		22
252	7	020		MLC	@N@,DSW2	7	2020	M R75	K25		23
253	7	030		MLC	@B@,DSW3	7	2027	M R74	K06		23
254	7	040		MLC	@N@,DSW4	7	2034	M R75	Y62		23
255	7	050		MLC	@ @,TAG	7	2041	M R76	R28		23
256	7	060		BCE	DTT02,CURNT,1	8	2048	B !96	R25 1		23
257	7	070		BCE	DTT03,CURNT,2	8	2056	B !82	R25 2		24
258	7	080		MZ	@&@,TAG	7	2064	Y R77	R28		24
259	7	090		MLC	@N@,DSW3	7	2071	M R75	K06		24
260	7	100		B	DTT02	4	2078	B !96			24
261	7	110	DTT03	MZ	@-@,TAG	7	2082	Y R78	R28		24
262	7	120		MLC	@B@,DSW2	7	2089	M R74	K25		25
263	7	130	DTT02	B	GTSYM	4	2096	B O26			25
264	7	140		C	CURNT,MLTSYM	7	2100	C R25	R65		25
265	7	150		BU	DTT04	5	2107	B J30	/		25
266	7	160		B	GTSYM	4	2112	B O26			25
267	7	170		MLC	@B@,DSW1	7	2116	M R74	J98		25
268	7	180		MN	@1@,TAG	7	2123	D R79	R28		26
269	7	190	DTT04	C	CURNT,FDOP	7	2130	C R25	R34		26
270	7	200		BU	DTT15	5	2137	B J57	/		26
271	7	210		B	PTGTSY	4	2142	B O99			26
272	7	220		MLC	@ @,TLEV	7	2146	M R86	R27		26
273	7	230		B	DTT16	4	2153	B J91			26
274	7	240	DTT15	B	PTGTSY	4	2157	B O99			26
275	7	250		MLC	CURNT,TLEV	7	2161	M R25	R27		27
276	8	010		B	PTGTSY	4	2168	B O99			27
277	8	020		C	TLEV,@77@	7	2172	C R27	R88		27
278	8	030		BU	DTT16	5	2179	B J91	/		27
279	8	040		MLC	@01@,TLEV	7	2184	M R90	R27		27
280	8	050	DTT16	MLC	CURNT,FIELD	7	2191	M R25	R31		27
281	8	060	DSW1	B	LKNAME	4	2198	B Q42			28
282	8	070		B	GTSYM	4	2202	B O26			28
283	8	080	DSW3	B	DSW2	4	2206	B K25			28
284	8	090		B	PUTX	4	2210	B 363			28
285	8	100		DCW	GCN	3	2216	R40			28
286	8	110		B	CNRTN	4	2217	B N97			28
287	8	120		B	DTT05	4	2221	B K47			28
288	8	130	DSW2	B	DTT06	4	2225	B K40			29
289	8	140		B	PUTX	4	2229	B 363			29
290	8	150		DCW	BLK	3	2235	R54			29
291	8	160		B	DTT05	4	2236	B K47			29
292	8	170	DTT06	B	PUTX	4	2240	B 363			29
293	8	180		DCW	FIELD	3	2246	R31			29
294	8	190	DTT05	LCA	FIELD,0&X3	7	2247	L R31	0?0		29
295	8	200		LCA		1	2254	L			30
296	8	210		SBR	X3	4	2255	H 099			30
297	8	220		BCE	TEST,OVCHR,|	8	2259	B U51	B50 |		30

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
298	8	230	DTTOVF	C	CURNT-1,@.T@		7	2267	C R24 R73		30
299	8	240		BU	DTLVSW		5	2274	B L32 /		30
300	8	250		MLC	@B@,DTLVSW		7	2279	M R74 L32		30
301	9	010		MLC	@1@,DOVSW		7	2286	M R79 T35		30
302	9	020		B	PTGTSY		4	2293	B O99		31
303	9	030		C	CURNT,MLTSYM		7	2297	C R25 R65		31
304	9	040		BU	DTLVSW		5	2304	B L32 /		31
305	9	050		B	PTGTSY		4	2309	B O99		31
306	9	060		B	PTGTSY		4	2313	B O99		31
307	9	070		B	PTGTSY		4	2317	B O99		31
308	9	080		MLC	CURNT,FIELD		7	2321	M R25 R31		31
309	9	090		B	LKNAME		4	2328	B Q42		32
310	9	100	DTLVSW	NOP	DTT10		4	2332	N M36		32
311	9	110		C	CURNT,LVOP		7	2336	C R25 R47		32
312	9	120		BU	DTT17		5	2343	B M02 /		32
313	9	130		B	PTGTSY		4	2348	B O99		32
314	9	140		B	DTLVRT		4	2352	B P18		32
315	9	150		BCE	DTT11,LOADSW,1		8	2356	B L72 R59 1		32
316	9	160	DTT12	B	PTGTSY		4	2364	B O99		33
317	9	170		B	DTTOVF		4	2368	B K67		33
318	9	180	DTT11	MLC	@ @,FIELD		7	2372	M R84 R31		33
319	9	190		MLC	@ @,TAG		7	2379	M R76 R28		33
320	9	200		LCA	FIELD,0&X3		7	2386	L R31 0?0		33
321	9	210		LCA			1	2393	L		33
322	9	220		SBR	X3		4	2394	H O99		33
323	9	230		B	DTT13		4	2398	B N11		34
324	9	240	DTT17	C	CURNT,FDOP		7	2402	C R25 R34		34
325	9	250		BU	DTT10		5	2409	B M36 /		34
326	10	010		MLC	@ @,TLEV		7	2414	M R86 R27		34
327	10	020		MLC	@B@,DTLVSW		7	2421	M R74 L32		34
328	10	030		B	PTGTSY		4	2428	B O99		34
329	10	040		B	DTT11		4	2432	B L72		34
330	10	050	DTT10	C	CURNT,SPROC		7	2436	C R25 R50		35
331	10	060		BU	DTT13		5	2443	B N11 /		35
332	10	070		BCE	DTT18,DOVSW,1		8	2448	B M93 T35 1		35
333	10	080		BCE	DTT19,PQSW,0		8	2456	B M78 T38 0		35
334	10	090		MLC	@0@,DQSW		7	2464	M R69 T37		35
335	10	100		MLC	@1@,POVSW		7	2471	M R79 T36		36
336	10	110	DTT19	LCA	@ @,0&X3		7	2478	L R84 0?0		36
337	10	120		LCA	@ @		4	2485	L R84		36
338	10	130		SBR	X3		4	2489	H O99		36
339	10	140	DTT18	MLC	X3,DTEND		7	2493	M O99 T11		36
340	10	150		MLC	GCN,DTCN1		7	2500	M R40 T02		36
341	10	160		B	PR08		4	2507	B Y34		37
342	10	170	DTT13	B	PTGTSY		4	2511	B O99		37
343	10	180		B	DTTOVF		4	2515	B K67		37
344	10	190	DTLVLT	B	PTGTSY		4	2519	B O99		37
345	10	200		B	DTLVRT		4	2523	B P18		37
346	10	210		BCE	DTLVLT2,LOADSW,1		8	2527	B N58 R59 1		37
347	10	220		B	PTEST		4	2535	B U40		37

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
348	10	230	DTLVT1	C	3&X3,@ @		7	2539	C 0?3 R84		38
349	10	240		BE	PTEST		5	2546	B U40 S		38
350	10	250		MLC	@ @,TAG		7	2551	M R84 R28		38
351	11	010	DTLVT2	MLC	@ @,FIELD		7	2558	M R84 R31		38
352	11	020		B	PTGTSY		4	2565	B 099		38
353	11	030		B	DTT05		4	2569	B K47		38
354	11	040	DTPTGT	B	GTSYM		4	2573	B 026		38
355	11	050	DTPT01	B	PTGTSY		4	2577	B 099		39
356	11	060		C	CURNT,SPROC		7	2581	C R25 R50		39
357	11	070		BU	DTPT01		5	2588	B N77 /		39
358	11	080		B	DTT01		4	2593	B Z74		39
359	11	090	CNRTN	SBR	CNR01&3		4	2597	H 011		39
360	11	100		A	&1,GCN		7	2601	A R91 R40		39
361	11	110	CNR01	B	*		4	2608	B 011		39
362	11	120	EOJ	B	PUTX		4	2612	B 363		40
363	11	130		DCW	EOP		3	2618	R44		40
364	11	140		B	SUPER		4	2619	B 351		40
365	11	150		DCW	@B08@		3	2625			40
366	11	160	GTSYM	SBR	GT01&3		4	2626	H 055		40
367	11	170	GT08	B	GETX		4	2630	B 335		40
368	11	180		DCW	CURNT		3	2636	R25		40
369	11	190		DCW	EOJ		3	2639	O12		41
370	11	200	GT03	C	CURNT,CDSYM		7	2640	C R25 R57		41
371	11	210		BE	GT02		5	2647	B 056 S		41
372	11	220	GT01	B	*		4	2652	B 055		41
373	11	230	GT02	MLC	@0@,CDSW		7	2656	M R69 R58		41
374	11	240	GT04	B	PUTX		4	2663	B 363		41
375	11	250		DCW	CURNT		3	2669	R25		41
376	12	010		B	GETX		4	2670	B 335		42
377	12	020		DCW	CURNT		3	2676	R25		42
378	12	030		DCW	EOJ		3	2679	O12		42
379	12	040		A	&1,CDSW		7	2680	A R91 R58		42
380	12	050		BCE	GT03,CDSW,3		8	2687	B 040 R58 3		42
381	12	060		B	GT04		4	2695	B 063		42
382	12	070	PTGTSY	SBR	PTGT01&3		4	2699	H P17		42
383	12	080		B	PUTX		4	2703	B 363		43
384	12	090		DCW	CURNT		3	2709	R25		43
385	12	100		B	GTSYM		4	2710	B 026		43
386	12	110	PTGT01	B	*		4	2714	B P17		43
387	12	120	DTLVRT	SBR	DTLV01&3		4	2718	H P89		43
388	12	130		MLC	@0@,LOADSW		7	2722	M R69 R59		43
389	12	140		MLC	CURNT,TLEV		7	2729	M R25 R27		43
390	12	150		C	TLEV,@77@		7	2736	C R27 R88		44
391	12	160		BU	DTLV05		5	2743	B P55 /		44
392	12	170		MLC	@01@,TLEV		7	2748	M R90 R27		44
393	12	180	DTLV05	C	6&X3,@ @		7	2755	C 0?6 R84		44
394	12	190		BU	DTLV02		5	2762	B P90 /		44
395	12	200		C	TLEV,2&X3		7	2767	C R27 0?2		44
396	12	210		BL	DTLV04		5	2774	B Q24 T		45
397	12	220		MLC	TLEV,2&X3		7	2779	M R27 0?2		45

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
398	12	230	DTLV01	B	*		4	2786	B P89		45
399	12	240	DTLV02	C	TLEV, 2&X3		7	2790	C R27 0?2		45
400	12	250		BH	DTLV03		5	2797	B Q06 U		45
401	13	010		B	DTLV01		4	2802	B P86		45
402	13	020	DTLV03	MLC	@ @, TAG		7	2806	M R76 R28		45
403	13	030		MLC	@1@, LOADSW		7	2813	M R79 R59		46
404	13	040		B	DTLV01		4	2820	B P86		46
405	13	050	DTLV04	MLC	@B@, DTLVSW		7	2824	M R74 L32		46
406	13	060		MLC	@B@, DSW4		7	2831	M R74 Y62		46
407	13	070		B	DTLV01		4	2838	B P86		46
408	13	080	LKNAME	SBR	LK01&3		4	2842	H R10		46
409	13	090		MLC	TEMP, X1		7	2846	M R62 089		47
410	13	100	LK02	C	X1, X3		7	2853	C 089 099		47
411	13	110		BE	LK01		5	2860	B R07 S		47
412	13	120		C	0&X1, CURNT		7	2865	C 0|0 R25		47
413	13	130		SAR	X1		4	2872	Q 089		47
414	13	140		BU	LK03		5	2876	B Q92 /		47
415	13	150		MN	@1@, 0&X1		7	2881	D R79 0|0		48
416	13	160		B	LK01		4	2888	B R07		48
417	13	170	LK03	C	0&X1, 0&X1		7	2892	C 0|0 0|0		48
418	13	180		SAR	X1		4	2899	Q 089		48
419	13	190		B	LK02		4	2903	B Q53		48
420	13	200	LK01	B	*		4	2907	B R10		48
421	13	210	SDATA	DCW	@/24@		3	2913			48
422	13	220	SFLSCT	DCW	@*29@		3	2916			49
423	13	230	WRKSCT	DCW	@/01@		3	2919			49
424	13	240	CNSSCT	DCW	@/09@		3	2922			49
425	13	250	CURNT	DCW	#3		3	2925			49
426	14	010	TLEV	DCW	#2		2	2927			49
427	14	020	TAG	DC	#1		1	2928			49
428	14	030	FIELD	DCW	#3		3	2931			49
429	14	040	FDOP	DCW	@/26@		3	2934			49
430	14	050	SSCT	DCW	@*09@		3	2937			50
431	14	060	GCN	DCW	#3		3	2940			50
432	14	070	SCTSW	DCW	@0@		1	2941			50
433	14	080	EOP	DCW	@.EP@		3	2944			50
434	14	090	LVOP	DCW	@.LV@		3	2947			50
435	14	100	SPROC	DCW	@*01@		3	2950			50
436	14	110	TSTCHR	DCW	#1		1	2951			50
437	14	120	BLK	DCW	@ @		3	2954			51
438	14	130	CDSYM	DCW	@.CD@		3	2957			51
439	14	140	CDSW	DCW	@0@		1	2958			51
440	14	150	LOADSW	DCW	@0@		1	2959			51
441	14	160	TEMP	DCW	#3		3	2962			51
442	14	170	MLTSYM	DCW	@.MT@		3	2965			51
443	14	180	TBOP	DCW	@.TO@		3	2968			51
444	14	190		LTORG					2969		
				DCW	@0@		1	2969		LIT	52
					@00@		2	2971		LIT	52
					@.T@		2	2973		LIT	52

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
					@B@		1	2974		LIT	52
					@N@		1	2975		LIT	52
					@ @		1	2976		LIT	52
					@&@		1	2977		LIT	52
					@-@		1	2978		LIT	53
					@1@		1	2979		LIT	53
					@)@		2	2981		LIT	53
					@ @		3	2984		LIT	53
					@ @		2	2986		LIT	53
					@77@		2	2988		LIT	53
					@01@		2	2990		LIT	53
					&1		1	2991		LIT	54
445	14	200		ORG	3250				3250		
446	14	210	OVCHR	DC	@ @		1	3250			55
447	14	220		DCW	@}@		1	3251			55
448	14	230		END	INIT				/ T91 080		56

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CLEAR STORAGE 1      ,008015,019026,030,034041,045,053,0570571026      1
CLEAR STORAGE 2      L068112,102106,113/101099/I99,027A070028)027B0010270B0261,001/001113I0      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	010	000	JOB	1401 COBOL - B08						
102	1	020		CTL	631 11						
103	1	030	X1	EQU	89			0089			
104	1	040	X2	EQU	94			0094			
105	1	050	X3	EQU	99			0099			
106	1	060	GETX	EQU	335			0335			
107	1	070	SUPER	EQU	351			0351			
108	1	080	PUTX	EQU	363			0363			
109	1	090	C	EQU	1303			1303			
110	1	100	DTCN	EQU	C&5			1308			
111	1	110	DTEND	EQU	C&8			1311			
112	1	120	DTADR	EQU	C&11			1314			
113	1	130	PRCN	EQU	C&17			1320			
114	1	140	PREND	EQU	C&20			1323			
115	1	150	PRADR	EQU	C&23			1326			
116	1	160	DOVSW	EQU	C&32			1335			
117	1	170	POVSW	EQU	C&33			1336			
118	1	180	DQSW	EQU	C&34			1337			
119	1	190	PQSW	EQU	C&35			1338			
120	1	200	PENTSW	EQU	C&36			1339			
121	1	210	DSW	EQU	C&39			1342			
122	1	220		ORG	1350				1350		
123	1	230	INIT	B	GTSYM	4		1350	B O19		4
124	1	240		B	PUTX	4		1354	B 363		4
125	1	250		DCW	CURNT	3		1360	Q32		4
126	2	010		C	CURNT,SENV	7		1361	C Q32 Q38		4
127	2	020		BU	INIT	5		1368	B T50 /		4
128	2	030		B	GTEST	4		1373	B T84		4
129	2	040	PTEST	B	PUTX	4		1377	B 363		4
130	2	050		DCW	CURNT	3		1383	Q32		5
131	2	060	GTEST	B	GTSYM	4		1384	B O19		5
132	2	070	TEST	C	CURNT-2,@A@	7		1388	C Q30 R09		5
133	2	080		BH	TEST1	5		1395	B U62 U		5
134	2	090		C	CURNT-2,@R@	7		1400	C Q30 R10		5
135	2	100		BL	TEST1	5		1407	B U62 T		5
136	2	110		MLC	CURNT,SVNM	7		1412	M Q32 Q64		5
137	2	120		B	GTSYM	4		1419	B O19		6
138	2	130		BWZ	TEST2,SVNM-2,B	8		1423	V U39 Q62 B		6
139	2	140		BCE	TEST3,PENTSW,0	8		1431	B U51 T39 0		6
140	2	150	TEST2	C	CURNT,QUAL	7		1439	C Q32 Q58		6
141	2	160		BE	ENTCN	5		1446	B W22 S		6
142	2	170	TEST3	B	PUTX	4		1451	B 363		6
143	2	180		DCW	SVNM	3		1457	Q64		6
144	2	190		B	TEST	4		1458	B T88		7
145	2	200	TEST1	C	CURNT,TABSYM	7		1462	C Q32 Q86		7
146	2	210		BE	TABBTB	5		1469	B V13 S		7
147	2	220	TEST4	C	CURNT-1,@.D@	7		1474	C Q31 R12		7

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	2	230		BU	PTEST		5	1481	B T77 /		7
149	2	240	TEST5	B	PUTX		4	1486	B 363		7
150	2	250		DCW	CURNT		3	1492	Q32		7
151	3	010		B	GTSYM		4	1493	B O19		8
152	3	020		C	CURNT-1,@.D@		7	1497	C Q31 R12		8
153	3	030		BU	TEST5		5	1504	B U86 /		8
154	3	040		B	PTEST		4	1509	B T77		8
155	3	050	TABBTB	B	GTSYM		4	1513	B O19		8
156	3	060		MLC	CURNT,SVNM		7	1517	M Q32 Q64		8
157	3	070		B	GTSYM		4	1524	B O19		8
158	3	080		B	ENTRTN		4	1528	B M16		9
159	3	090		MLC	GCN,NXGCN		7	1532	M Q61 Q50		9
160	3	100		MLC	@1@,TBSW		7	1539	M R13 Q67		9
161	3	110		MLC	CURNT,LKSW		7	1546	M Q32 Q71		9
162	3	120		B	GTSYM		4	1553	B O19		9
163	3	130		MLC	CURNT,CNAME		7	1557	M Q32 Q80		9
164	3	140		B	GTSYM		4	1564	B O19		10
165	3	150	TABB1	MLC	CURNT,LEVNO&1		7	1568	M Q32 Q77		10
166	3	160		B	GTSYM		4	1575	B O19		10
167	3	170		MN	LEVNO&1,TSTCHR		7	1579	D Q77 Q87		10
168	3	180		BCE	TBTST,CURNT,*		8	1586	B W06 Q32 *		10
169	3	190		B	FOUND		4	1594	B W50		10
170	3	200		B	NXNAME		4	1598	B Z15		10
171	3	210		B	TABB1		4	1602	B V68		11
172	3	220	TBTST	BCE	TBSRTB,LKSW,0		8	1606	B W38 Q71 0		11
173	3	230		B	FOUND		4	1614	B W50		11
174	3	240		B	CNOUT		4	1618	B X94		11
175	3	250	ENTCN	B	ENTRTN		4	1622	B M16		11
176	4	010	TBSRCH	B	LKNAME		4	1626	B J08		11
177	4	020		BCE	NTFND,LKSW,0		8	1630	B Y05 Q71 0		11
178	4	030	TBSRTB	B	FOUND		4	1638	B W50		12
179	4	040		B	NXNAME		4	1642	B Z15		12
180	4	050		B	TBSRCH		4	1646	B W26		12
181	4	060	FOUND	SBR	FND01&3		4	1650	H X16		12
182	4	070		BCE	UNIQUE,TSTCHR,		8	1654	B X53 Q87		12
183	4	080		MLC	@1@,SVSW		7	1662	M R13 Q70		12
184	4	090	DUPRTN	MLC	@1@,ENTSYM		7	1669	M R13 Q23		12
185	4	100		C	TQSW,@01@		7	1676	C Q55 R15		13
186	4	110		BU	DPLSNM		5	1683	B X17 /		13
187	4	120		B	SEGMNT		4	1688	B L02		13
188	4	130		B	OCCSEG		4	1692	B K47		13
189	4	140		MLC	@1@,SVSW1		7	1696	M R13 Q69		13
190	4	150		MLC	TQSW,SVTQSW		7	1703	M Q55 R08		13
191	4	160		MLC			1	1710	M		13
192	4	170		MLC			1	1711	M		14
193	4	180		MLC			1	1712	M		14
194	4	190	FND01	B	*		4	1713	B X16		14
195	4	200	DPLSNM	B	OCCSEG		4	1717	B K47		14
196	4	210		C	TQSW,QSW		7	1721	C Q55 Q20		14
197	4	220		BU	DUPRT1		5	1728	B X86 /		14

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
198	4	230	DPLSN1	BCE	MLTDEF,USW,0		8	1733	B P49 Q66 0		14
199	4	240		BCE	OUTTAB,OVFSW,1		8	1741	B Y99 Q68 1		15
200	4	250		B	CNOUT		4	1749	B X94		15
201	5	010	UNIQUE	MLC	@ @,ENTSYM		7	1753	M R16 Q23		15
202	5	020		MLC	@1@,USW		7	1760	M R13 Q66		15
203	5	030		MLC	@00@,SVSW		7	1767	M R18 Q70		15
204	5	040		C	TQSW,QSW		7	1774	C Q55 Q20		16
205	5	050		BE	CNOUT		5	1781	B X94 S		16
206	5	060	DUPRT1	B	SEGMNT		4	1786	B L02		16
207	5	070		B	FND01		4	1790	B X13		16
208	5	080	CNOUT	B	PUTX		4	1794	B 363		16
209	5	090		DCW	CNAME		3	1800	Q80		16
210	5	100		B	RTEST		4	1801	B P92		16
211	5	110	NTFND	BCE	NTFND1,SVSW1,1		8	1805	B Y29 Q69 1		17
212	5	120		C	TQSW,@01@		7	1813	C Q55 R15		17
213	5	130		BE	NTFND2		5	1820	B Y67 S		17
214	5	140		B	NTFND3		4	1825	B Y83		17
215	5	150	NTFND1	C	ENDADR,X1		7	1829	C Q97 089		17
216	5	160		BE	NTFND3		5	1836	B Y83 S		17
217	5	170		MLC	@00@,SVSW		7	1841	M R18 Q70		18
218	5	180		MLC	SVTQSW,TQSW		7	1848	M R08 Q55		18
219	5	190		MLC			1	1855	M		18
220	5	200		MLC			1	1856	M		18
221	5	210		MLC			1	1857	M		18
222	5	220		MLC			1	1858	M		18
223	5	230		B	NXNMTB		4	1859	B Z07		18
224	5	240		B	TBSRCH		4	1863	B W26		19
225	5	250	NTFND2	BCE	UNDEF,OVSW,0		8	1867	B P60 Q65 0		19
226	6	010		B	OUTCNS		4	1875	B !31		19
227	6	020		B	RTEST		4	1879	B P92		19
228	6	030	NTFND3	BCE	UNDEF,OVSW,0		8	1883	B P60 Q65 0		19
229	6	040		BCE	UNDEF,OVFSW,0		8	1891	B P60 Q68 0		19
230	6	050	OUTTAB	B	OUTRTN		4	1899	B Z65		20
231	6	060		B	RTEST		4	1903	B P92		20
232	6	070	NXNMTB	SBR	NXNM1&3		4	1907	H Z64		20
233	6	080		B	NXNM2		4	1911	B Z40		20
234	6	090	NXNAME	SBR	NXNM1&3		4	1915	H Z64		20
235	6	100		A	&1,TQSW		7	1919	A R19 Q55		20
236	6	110		S	&3,NMADR		7	1926	S R20 Q53		20
237	6	120		MZ	@ @,NMADR		7	1933	Y R16 Q53		21
238	6	130	NXNM2	MLC	NMADR,X2		7	1940	M Q53 094		21
239	6	140		MLC	NM&X2,QNAME		7	1947	M RL6 Q74		21
240	6	150		MLC	NXGCN,GCN		7	1954	M Q50 Q61		21
241	6	160	NXNM1	B	*		4	1961	B Z64		21
242	6	170	OUTRTN	SBR	OUTR02&3		4	1965	H !30		21
243	6	180		B	PUTX		4	1969	B 363		22
244	6	190		DCW	TABSYM		3	1975	Q86		22
245	6	200		B	OUTCNS		4	1976	B !31		22
246	6	210		B	PUTX		4	1980	B 363		22
247	6	220		DCW	LKSW		3	1986	Q71		22

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
248	6	230		B	PUTX		4	1987	B 363		22
249	6	240		DCW	CNAME		3	1993	Q80		22
250	6	250		MLC	@000@,X2		7	1994	M R23 094		23
251	7	010	OUTR01	A	&3,X2		7	2001	A R20 094		23
252	7	020		B	PUTX		4	2008	B 363		23
253	7	030		DCW	OUTFLD&X2		3	2014	?Q6		23
254	7	040		C	OUTFLD&X2,@***@		7	2015	C ?Q6 R26		23
255	7	050		BU	OUTR01		5	2022	B !01 /		23
256	7	060	OUTR02	B	*		4	2027	B !30		23
257	7	070	OUTCNS	SBR	OUTC01&3		4	2031	H J07		24
258	7	080		MLC	@00@,TQSW		7	2035	M R18 Q55		24
259	7	090		MLC	@003@,X2		7	2042	M R29 094		24
260	7	100		B	OUTC02		4	2049	B !72		24
261	7	110	OUTC03	C	TQSW,QSW		7	2053	C Q55 Q20		24
262	7	120		BE	OUTC01		5	2060	B J04 S		24
263	7	130		B	PUTX		4	2065	B 363		24
264	7	140		DCW	QUAL		3	2071	Q58		25
265	7	150	OUTC02	MLC	NM&X2,OUTSYM		7	2072	M RL6 Q29		25
266	7	160		A	&3,X2		7	2079	A R20 094		25
267	7	170		A	&1,TQSW		7	2086	A R19 Q55		25
268	7	180		B	PUTX		4	2093	B 363		25
269	7	190		DCW	OUTSYM		3	2099	Q29		25
270	7	200		B	OUTC03		4	2100	B !53		25
271	7	210	OUTC01	B	*		4	2104	B J07		26
272	7	220	LKNAME	SBR	LK05&3		4	2108	H K46		26
273	7	230		MLC	@0@,LKSW		7	2112	M R30 Q71		26
274	7	240		MLC	TSTADR,X1		7	2119	M Q47 089		26
275	7	250	LK01	C	X1,SEGADR		7	2126	C 089 Q44		26
276	8	010		BE	LK05		5	2133	B K43 S		26
277	8	020		C	0&X1,QNAME		7	2138	C 0|0 Q74		27
278	8	030		SAR	X1		4	2145	Q 089		27
279	8	040		BE	LK02		5	2149	B J74 S		27
280	8	050		C	0&X1		4	2154	C 0|0		27
281	8	060		SAR	X1		4	2158	Q 089		27
282	8	070		BWZ	CNRTN,3&X1,B		8	2162	V 004 0|3 B		27
283	8	080		B	LK01		4	2170	B J26		27
284	8	090	LK02	MLC	@1@,LKSW		7	2174	M R13 Q71		28
285	8	100		C	0&X1		4	2181	C 0|0		28
286	8	110		SAR	TSTADR		4	2185	Q Q47		28
287	8	120		MLC	0&X1,LEVNO&1		7	2189	M 0|0 Q77		28
288	8	130		MN	LEVNO&1,TSTCHR		7	2196	D Q77 Q87		28
289	8	140		MLC	GCN,NXGCN		7	2203	M Q61 Q50		28
290	8	150		MLC	GCN,CNAME		7	2210	M Q61 Q80		29
291	8	160		BWZ	LK04,0&X1,B		8	2217	V K36 0|0 B		29
292	8	170		MLC	3&X1,CNAME		7	2225	M 0|3 Q80		29
293	8	180		B	LK05		4	2232	B K43		29
294	8	190	LK04	A	&1,NXGCN		7	2236	A R19 Q50		29
295	8	200	LK05	B	*		4	2243	B K46		29
296	8	210	OCCSEG	SBR	OCC05&3		4	2247	H L01		30
297	8	220		MLC	TSTADR,X1		7	2251	M Q47 089		30

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
298	8	230	OCC01	C	X1,SEGADR		7	2258	C 089 Q44		30
299	8	240		BE	OCC05		5	2265	B K98 S		30
300	8	250		C	0&X1,QNAME		7	2270	C 0|0 Q74		30
301	9	010		SAR	X1		4	2277	Q 089		30
302	9	020		BE	MLTDEF		5	2281	B P49 S		30
303	9	030		C	0&X1		4	2286	C 0|0		31
304	9	040		SAR	X1		4	2290	Q 089		31
305	9	050		B	OCC01		4	2294	B K58		31
306	9	060	OCC05	B	*		4	2298	B L01		31
307	9	070	SEGMNT	SBR	SEG01&3		4	2302	H L56		31
308	9	080		MLC	TSTADR,X1		7	2306	M Q47 089		31
309	9	090		C	ENDADR,TSTADR		7	2313	C Q97 Q47		31
310	9	100		BE	SEG04		5	2320	B L69 S		32
311	9	110	SEG03	MLC	X1,SEGADR		7	2325	M 089 Q44		32
312	9	120		C	0&X1		4	2332	C 0|0		32
313	9	130		C			1	2336	C		32
314	9	140		SAR	X1		4	2337	Q 089		32
315	9	150		C	LEVNO,2&X1		7	2341	C Q76 0|2		32
316	9	160		BH	SEG02		5	2348	B L57 U		32
317	9	170	SEG01	B	*		4	2353	B L56		33
318	9	180	SEG02	C	X1,ENDADR		7	2357	C 089 Q97		33
319	9	190		BU	SEG03		5	2364	B L25 /		33
320	9	200	SEG04	MLC	ENDADR,SEGADR		7	2369	M Q97 Q44		33
321	9	210		MLC	LEVNO,ENTSYM-1		7	2376	M Q76 Q22		33
322	9	220		MLC	OUTADR,X2		7	2383	M Q83 094		33
323	9	230		MLC	PAD,OUTFLD&3&X2		7	2390	M Q26 ?Q9		34
324	9	240		MLC			1	2397	M		34
325	9	250		A	&3,OUTADR		7	2398	A R20 Q83		34
326	10	010		MLC	@1@,OVFSW		7	2405	M R13 Q68		34
327	10	020		B	SEG01		4	2412	B L53		34
328	10	030	ENTRTN	SBR	ENTR01&3		4	2416	H 003		34
329	10	040		MLC	@003@,X2		7	2420	M R29 094		34
330	10	050		MLC	@01@,QSW		7	2427	M R15 Q20		35
331	10	060		MLC	SVNM,NM&X2		7	2434	M Q64 RL6		35
332	10	070		B	ENTR05		4	2441	B M49		35
333	10	080	ENTR02	B	GTSYM		4	2445	B 019		35
334	10	090	ENTR05	C	CURNT,QUAL		7	2449	C Q32 Q58		35
335	10	100		BU	ENTR03		5	2456	B M90 /		35
336	10	110		B	GTSYM		4	2461	B 019		35
337	10	120		A	&3,X2		7	2465	A R20 094		36
338	10	130		MLC	CURNT,NM&X2		7	2472	M Q32 RL6		36
339	10	140		A	&1,QSW		7	2479	A R19 Q20		36
340	10	150		B	ENTR02		4	2486	B M45		36
341	10	160	ENTR03	BWZ	ENTR04,SVNM-2,K		8	2490	V N30 Q62 K		36
342	10	170		MLC	DOVSW,OVSW		7	2498	M T35 Q65		37
343	10	180		MLC	DTADR,TSTADR		7	2505	M T14 Q47		37
344	10	190		MLC	DTCN,GCN		7	2512	M T08 Q61		37
345	10	200		MLC	DTEND,ENDADR		7	2519	M T11 Q97		37
346	10	210		B	ENTR06		4	2526	B N58		37
347	10	220	ENTR04	MLC	PRADR,TSTADR		7	2530	M T26 Q47		37

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
348	10	230		MLC	POVSW,OVSW		7	2537	M T36 Q65		38
349	10	240		MLC	PRCN,GCN		7	2544	M T20 Q61		38
350	10	250		MLC	PREND,ENDADR		7	2551	M T23 Q97		38
351	11	010	ENTR06	MLC	X2,NMADR		7	2558	M 094 Q53		38
352	11	020		MLC	@00000@,SVSW		7	2565	M R35 Q70		38
353	11	030		MLC	NM&X2,QNAME		7	2572	M RL6 Q74		39
354	11	040		MLC	ENDADR,SEGADR		7	2579	M Q97 Q44		39
355	11	050		MLC	@01@,TQSW		7	2586	M R15 Q55		39
356	11	060		MLC	@003@,OUTADR		7	2593	M R29 Q83		39
357	11	070	ENTR01	B	*		4	2600	B O03		39
358	11	080	CNR01	SBR	CNR01&3		4	2604	H O18		39
359	11	090		A	&1,GCN		7	2608	A R19 Q61		40
360	11	100	CNR01	B	*		4	2615	B O18		40
361	11	110	GTSYM	SBR	GT01&3		4	2619	H O48		40
362	11	120		B	GETX		4	2623	B 335		40
363	11	130		DCW	CURNT		3	2629	Q32		40
364	11	140		DCW	EOJ		3	2632	O92		40
365	11	150	GT03	C	CURNT,CDSYM		7	2633	C Q32 Q35		40
366	11	160		BE	GT02		5	2640	B O49 S		41
367	11	170	GT01	B	*		4	2645	B O48		41
368	11	180	GT02	MLC	@0@,CDSW		7	2649	M R30 Q94		41
369	11	190	GT04	B	PUTX		4	2656	B 363		41
370	11	200		DCW	CURNT		3	2662	Q32		41
371	11	210		B	GETX		4	2663	B 335		41
372	11	220		DCW	CURNT		3	2669	Q32		41
373	11	230		DCW	EOJ		3	2672	O92		42
374	11	240		A	&1,CDSW		7	2673	A R19 Q94		42
375	11	250		BCE	GT03,CDSW,3		8	2680	B O33 Q94 3		42
376	12	010		B	GT04		4	2688	B O56		42
377	12	020	EOJ	B	PUTX		4	2692	B 363		42
378	12	030		DCW	EOP		3	2698	Q18		42
379	12	040		BCE	EOJ1,DOVSW,1		8	2699	B P22 T35 1		42
380	12	050		BCE	EOJ1,POVSW,1		8	2707	B P22 T36 1		43
381	12	060		B	SUPER		4	2715	B 351		43
382	12	070		DCW	@B09@		3	2721			43
383	12	080	EOJ1	BSP	1		5	2722	U %U1 B		43
384	12	090		BSP	1		5	2727	U %U1 B		43
385	12	100		BSP	1		5	2732	U %U1 B		43
386	12	110		BSP	1		5	2737	U %U1 B		43
387	12	120		B	SUPER		4	2742	B 351		44
388	12	130		DCW	@B07@		3	2748			44
389	12	140	MLTDEF	MLC	MLTSYM,TEMP		7	2749	M Q90 Q41		44
390	12	150		B	OUTERR		4	2756	B P67		44
391	12	160	UNDEF	MLC	UNDSYM,TEMP		7	2760	M Q93 Q41		44
392	12	170	OUTERR	MLC	@1@,DSW		7	2767	M R13 T42		44
393	12	180		B	PUTX		4	2774	B 363		44
394	12	190		DCW	TEMP		3	2780	Q41		45
395	12	200		B	OUTCNS		4	2781	B !31		45
396	12	210		B	PUTX		4	2785	B 363		45
397	12	220		DCW	TEMP		3	2791	Q41		45

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
398	12	230	RTEST	BCE	TEST,TBSW,0		8	2792	B T88 Q67 0		45
399	12	240	RTEST1	BCE	GTEST,CURNT,*		8	2800	B T84 Q32 *		45
400	12	250		B	GTSYM		4	2808	B O19		45
401	13	010		B	RTEST1		4	2812	B Q00		46
402	13	020	EOP	DCW	@.EP@		3	2818			46
403	13	030	QSW	DCW	@00@		2	2820			46
404	13	040	ENTSYM	DCW	#3		3	2823			46
405	13	050	PAD	DCW	@***@		3	2826			46
406	13	060	OUTSYM	DCW	#3		3	2829			46
407	13	070	CURNT	DCW	#3		3	2832			46
408	13	080	CDSYM	DCW	@.CD@		3	2835			47
409	13	090	SENV	DCW	@*91@		3	2838			47
410	13	100	TEMP	DCW	#3		3	2841			47
411	13	110	SEGADR	DCW	#3		3	2844			47
412	13	120	TSTADR	DCW	#3		3	2847			47
413	13	130	NXGCN	DCW	#3		3	2850			47
414	13	140	NMADR	DCW	#3		3	2853			47
415	13	150	TQSW	DCW	@00@		2	2855			48
416	13	160	QUAL	DCW	@*32@		3	2858			48
417	13	170	GCN	DCW	#3		3	2861			48
418	13	180	SVNM	DCW	#3		3	2864			48
419	13	190	OVSF	DC	@0@		1	2865			48
420	13	200	USW	DCW	@0@		1	2866			48
421	13	210	TBSW	DC	@0@		1	2867			48
422	13	220	OVFSW	DC	@0@		1	2868			48
423	13	230	SVSW1	DC	@0@		1	2869			48
424	13	240	SVSW	DC	@0@		1	2870			48
425	13	250	LKSW	DC	@0@		1	2871			48
426	14	010	QNAME	DCW	#3		3	2874			48
427	14	020	LEVNO	DCW	@00@		2	2876			48
428	14	030		DC	@ @		1	2877			49
429	14	040	CNAME	DCW	#3		3	2880			49
430	14	050	OUTADR	DCW	#3		3	2883			49
431	14	060	TABSYM	DCW	@.QQ@		3	2886			49
432	14	070	TSTCHR	DCW	@ @		1	2887			49
433	14	080	MLTSYM	DCW	@.DM@		3	2890			50
434	14	090	UNDSYM	DCW	@.DU@		3	2893			50
435	14	100	CDSW	DCW	@0@		1	2894			50
436	14	110	ENDADR	DCW	#3		3	2897			50
437	14	120		DC	#9		9	2906			50
438	14	130	SVTQSW	DCW	#2		2	2908			50
439	14	140		LTORG					2909		
				DCW	@A@		1	2909		LIT	50
					@R@		1	2910		LIT	50
					@.D@		2	2912		LIT	51
					@1@		1	2913		LIT	51
					@01@		2	2915		LIT	51
					@ @		1	2916		LIT	51
					@00@		2	2918		LIT	51
					&1		1	2919		LIT	51

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
					&3		1	2920		LIT	51
					@000@		3	2923		LIT	52
					@***@		3	2926		LIT	52
					@003@		3	2929		LIT	52
					@0@		1	2930		LIT	52
		352			@00000@		5	2935		LIT	52
440	14	150	NM	DC	@ @		1	2936			52
441	14	160	OUTFLD	EQU	NM&150			3086			
442	14	170		DCW	@}@		1	2937			52
443	14	180		END	GROUP MARK				/ 000 080		53

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CLEAR STORAGE 1      ,008015,019026,030,034041,045,053,0570571026      1
CLEAR STORAGE 2      L068112,102106,113/101099/I99,027A070028)027B0010270B0261,001/001113I0      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	010	000	JOB	1401 COBOL - B09						
102	1	020		CTL	631 11						
103	1	030	X1	EQU	89			0089			
104	1	040	X2	EQU	94			0094			
105	1	050	X3	EQU	99			0099			
106	1	060	GETX	EQU	335			0335			
107	1	070	PUTX	EQU	363			0363			
108	1	080	SUPER	EQU	351			0351			
109	1	090	SPSW	EQU	1303			1303			
110	1	100	LV88SW	EQU	1304			1304			
111	1	110	DTVLSW	EQU	1305			1305			
112	1	120	SYSW	EQU	1340			1340			
113	1	130	DSW	EQU	1342			1342			
114	1	140		ORG	1400				1400		
115	1	150	START	BCE	START1,DSW,1	8		1400	B U20 T42	1	4
116	1	160		BCE	START1,SYSW,1	8		1408	B U20 T40	1	4
117	1	170		B	INIT	4		1416	B U34		4
118	1	180	START1	MLC	@B@,PTCARD	7		1420	M K52 Y85		4
119	1	190		MLC	@B@,EOJA	7		1427	M K52 !82		4
120	1	200	INIT	B	GTSYM	4		1434	B Y35		4
121	1	210		B	PUTX	4		1438	B 363		5
122	1	220		DCW	CURNT	3		1444	J14		5
123	1	230		C	CURNT,SENV	7		1445	C J14 J68		5
124	1	240		BU	INIT	5		1452	B U34 /		5
125	1	250	SW1	B	INIPRT	4		1457	B Z37		5
126	2	010	PTEST	B	PUTX	4		1461	B 363		5
127	2	020		DCW	CURNT	3		1467	J14		5
128	2	030	GTEST	B	GTSYM	4		1468	B Y35		6
129	2	040	TEST	C	CURNT,SPNOP	7		1472	C J14 J08		6
130	2	050		BU	LIST1	5		1479	B U96 /		6
131	2	060	SW2	B	SPINPT	4		1484	B Z58		6
132	2	070		B	GTSYM	4		1488	B Y35		6
133	2	080		B	PRINT	4		1492	B W35		6
134	2	090	LIST1	C	CURNT,LVOP	7		1496	C J14 J20		6
135	2	100		BU	LIST2	5		1503	B V24 /		7
136	2	110	SW3	B	DTINPT	4		1508	B Z90		7
137	2	120		B	PTGTSY	4		1512	B Z18		7
138	2	130		B	PTGTSY	4		1516	B Z18		7
139	2	140		B	PRINT	4		1520	B W35		7
140	2	150	LIST2	C	CURNT,LBFOP	7		1524	C J14 J11		7
141	2	160		BU	LIST3	5		1531	B V55 /		7
142	2	170	SW5	B	PRINPT	4		1536	B !29		8
143	2	180		B	GTSYM	4		1540	B Y35		8
144	2	190		B	PUTX	4		1544	B 363		8
145	2	200		DCW	LBOP	3		1550	J17		8
146	2	210		B	PRINT	4		1551	B W35		8
147	2	220	LIST3	C	CURNT,SFD	7		1555	C J14 J71		8

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	2	230		BU	LIST4		5	1562	B V79 /		8
149	2	240	SW4	B	DTINPT		4	1567	B Z90		9
150	2	250		B	PTGTSY		4	1571	B Z18		9
151	3	010		B	PRINT		4	1575	B W35		9
152	3	020	LIST4	C	CURNT,MLTSYM		7	1579	C J14 J29		9
153	3	030		BU	LIST5		5	1586	B V95 /		9
154	3	040		B	GTEST		4	1591	B U68		9
155	3	050	LIST5	C	CURNT,LSTOP		7	1595	C J14 J74		9
156	3	060		BU	LIST6		5	1602	B W19 /		10
157	3	070		B	GTSYM		4	1607	B Y35		10
158	3	080		B	ENTFLD		4	1611	B X38		10
159	3	090		B	GTEST		4	1615	B U68		10
160	3	100	LIST6	C	CURNT,TBOP		7	1619	C J14 J77		10
161	3	110		BU	PTEST		5	1626	B U61 /		10
162	3	120		B	EOJA		4	1631	B !82		10
163	3	130	PRINT	C	CURNT,@ @		7	1635	C J14 K55		11
164	3	140		BE	PTEST		5	1642	B U61 S		11
165	3	150		CS	332		4	1647	/ 332		11
166	3	160		CS			1	1651	/		11
167	3	170		MLC	CURNT,235		7	1652	M J14 235		11
168	3	180		MCS	CDSV2,230		7	1659	Z J02 230		11
169	3	190		B	PTGTSY		4	1666	B Z18		11
170	3	200		C	CURNT,SSCT		7	1670	C J14 J26		12
171	3	210		BU	PRT1		5	1677	B W93 /		12
172	3	220		MLC	SECTN,280		7	1682	M K51 280		12
173	3	230		B	PTGTSY		4	1689	B Z18		12
174	3	240	PRT1	B	GTSYM		4	1693	B Y35		12
175	3	250		B	ENTFLD		4	1697	B X38		12
176	4	010		MCM	FIELD,239		7	1701	P J30 239		12
177	4	020		SBR	X2		4	1708	H 094		13
178	4	030		MLC	@ @,0&X2		7	1712	M K57 0!0		13
179	4	040		W			1	1719	2		13
180	4	050		BCV	PMSG		5	1720	B X29 @		13
181	4	060		B	GTEST		4	1725	B U68		13
182	4	070	PMSG	CCB	GTEST,1		5	1729	F U68 1		13
183	4	080		B	TEST		4	1734	B U72		13
184	4	090	ENTFLD	SBR	ENTF01&3		4	1738	H Y16		14
185	4	100		MLC	CURNT,SYM		7	1742	M J14 J65		14
186	4	110		MLC	@002@,X2		7	1749	M K60 094		14
187	4	120		B	GTSYM		4	1756	B Y35		14
188	4	130		B	ENTF03		4	1760	B X87		14
189	4	140	ENTF02	B	GTSYM		4	1764	B Y35		14
190	4	150		C	CURNT,SYM		7	1768	C J14 J65		14
191	4	160		BE	ENTF04		5	1775	B X98 S		15
192	4	170		A	&3,X2		7	1780	A K61 094		15
193	4	180	ENTF03	MLC	CURNT,FIELD&X2		7	1787	M J14 JL0		15
194	4	190		B	ENTF02		4	1794	B X64		15
195	4	200	ENTF04	BCE	ENTF05,FIELD&X2,		8	1798	B Y17 JL0		15
196	4	210		MLC	@|@,FIELD&1&X2		7	1806	M K62 JL1		15
197	4	220	ENTF01	B	*		4	1813	B Y16		16

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
198	4	230	ENTF05	S	&1,X2		7	1817	S K63 094		16
199	4	240		MZ	@ @,X2		7	1824	Y K64 094		16
200	4	250		B	ENTF04		4	1831	B X98		16
201	5	010	GTSYM	SBR	GT01&3		4	1835	H Y64		16
202	5	020	GT03	B	GETX		4	1839	B 335		16
203	5	030		DCW	CURNT		3	1845	J14		16
204	5	040		DCW	EOJ		3	1848	!61		17
205	5	050		C	CURNT,CDSYM		7	1849	C J14 J05		17
206	5	060		BE	GT02		5	1856	B Y65 S		17
207	5	070	GT01	B	*		4	1861	B Y64		17
208	5	080	GT02	B	GETX		4	1865	B 335		17
209	5	090		DCW	CDSV1		3	1871	!99		17
210	5	100		DCW	EOJ		3	1874	!61		17
211	5	110		B	GETX		4	1875	B 335		18
212	5	120		DCW	CDSV2		3	1881	J02		18
213	5	130		DCW	EOJ		3	1884	!61		18
214	5	140	PTCARD	NOB	GT04		4	1885	N Y93		18
215	5	150		B	GT03		4	1889	B Y39		18
216	5	160	GT04	B	PUTX		4	1893	B 363		18
217	5	170		DCW	CDSYM		3	1899	J05		18
218	5	180		B	PUTX		4	1900	B 363		19
219	5	190		DCW	CDSV1		3	1906	!99		19
220	5	200		B	PUTX		4	1907	B 363		19
221	5	210		DCW	CDSV2		3	1913	J02		19
222	5	220		B	GT03		4	1914	B Y39		19
223	5	230	PTGTSY	SBR	PTGT01&3		4	1918	H Z36		19
224	5	240		B	PUTX		4	1922	B 363		19
225	5	250		DCW	CURNT		3	1928	J14		20
226	6	010		B	GTSYM		4	1929	B Y35		20
227	6	020	PTGT01	B	*		4	1933	B Z36		20
228	6	030	INIPRT	CC	1		2	1937	F 1		20
229	6	040		CS	332		4	1939	/ 332		20
230	6	050		CS			1	1943	/		20
231	6	060		MLC	DCTMSG,258		7	1944	M J99 258		20
232	6	070		W			1	1951	2		21
233	6	080		CC	J		2	1952	F J		21
234	6	090		B	GTEST		4	1954	B U68		21
235	6	100	SPINPT	SBR	SPIN01&3		4	1958	H Z89		21
236	6	110		CC	J		2	1962	F J		21
237	6	120		CS	332		4	1964	/ 332		21
238	6	130		CS			1	1968	/		21
239	6	140		MLC	SPMSG,235		7	1969	M K14 235		22
240	6	150		W			1	1976	2		22
241	6	160		CC	J		2	1977	F J		22
242	6	170		MLC	@N@,SW2		7	1979	M K65 U84		22
243	6	180	SPIN01	B	*		4	1986	B Z89		22
244	6	190	DTINPT	SBR	DTIN01&3		4	1990	H !28		22
245	6	200		CC	J		2	1994	F J		22
246	6	210		CS	332		4	1996	/ 332		23
247	6	220		CS			1	2000	/		23

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
248	6	230		MLC	DTMSG,235		7	2001	M K29 235		23
249	6	240		W			1	2008	2		23
250	6	250		CC	J		2	2009	F J		23
251	7	010		MLC	@N@,SW3		7	2011	M K65 V08		23
252	7	020		MLC	@N@,SW4		7	2018	M K65 V67		23
253	7	030	DTIN01	B	*		4	2025	B !28		24
254	7	040	PRINPT	SBR	PRIN01&3		4	2029	H !60		24
255	7	050		CC	J		2	2033	F J		24
256	7	060		CS	332		4	2035	/ 332		24
257	7	070		CS			1	2039	/		24
258	7	080		MLC	PRMSG,235		7	2040	M K44 235		24
259	7	090		W			1	2047	2		24
260	7	100		CC	J		2	2048	F J		25
261	7	110		MLC	@N@,SW5		7	2050	M K65 V36		25
262	7	120	PRIN01	B	*		4	2057	B !60		25
263	7	130	EOJ	B	PUTX		4	2061	B 363		25
264	7	140		DCW	EOP		3	2067	!96		25
265	7	150		B	SUPER		4	2068	B 351		25
266	7	160		DCW	@C01@		3	2074			25
267	7	170	EOJ1	B	SUPER		4	2075	B 351		26
268	7	180		DCW	@B10@		3	2081			26
269	7	190	EOJA	NOF	EOJ1		4	2082	N !75		26
270	7	200		B	GTSYM		4	2086	B Y35		26
271	7	210		B	EOJA		4	2090	B !82		26
272	7	220	EOP	DCW	@.EP@		3	2096			26
273	7	230	CDSV1	DCW	#3		3	2099			26
274	7	240	CDSV2	DC	#3		3	2102			27
275	7	250	CDSYM	DCW	@.CD@		3	2105			27
276	8	010	SPNOP	DCW	@.SP@		3	2108			27
277	8	020	LBFOP	DCW	@.LF@		3	2111			27
278	8	030	CURNT	DCW	#3		3	2114			27
279	8	040	LBOP	DCW	@.LB@		3	2117			28
280	8	050	LVOP	DCW	@.LV@		3	2120			28
281	8	060	FDOP	DCW	@/26@		3	2123			28
282	8	070	SSCT	DCW	@*09@		3	2126			28
283	8	080	MLTSYM	DCW	@.MT@		3	2129			28
284	8	090	FIELD	DC	@ @		1	2130			28
285	8	100		DC	#32		32	2162			29
286	8	110	SYM	DCW	#3		3	2165			29
287	8	120	SENV	DCW	@*91@		3	2168			29
288	8	130	SFD	DCW	@/26@		3	2171			30
289	8	140	LSTOP	DCW	@.LT@		3	2174			30
290	8	150	TBOP	DCW	@.TO@		3	2177			30
291	8	160	DCTMSG	DCW	@** COBOL DICTIONARY **@		22	2199			30
292	8	170	SPMSG	DCW	@SPECIAL NAMES @		15	2214			31
293	8	180	DTMSG	DCW	@DATA NAMES @		15	2229			31
294	8	190	PRMSG	DCW	@PROCEDURE NAMES@		15	2244			32
295	8	200	SECTN	DCW	@SECTION@		7	2251			32
296	8	210		LTOF					2252		
				DCW	@B@		1	2252		LIT	32

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
					@ @		3	2255		LIT	32
					@ @		2	2257		LIT	32
					@002@		3	2260		LIT	32
					&3		1	2261		LIT	32
					@|@		1	2262		LIT	33
					&1		1	2263		LIT	33
					@ @		1	2264		LIT	33
					@N@		1	2265		LIT	33
297	8	220		DCW	@}@		1	2266			33
298	8	230		END					/ 000 080		34

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CLEAR STORAGE 1      ,008015,019026,030,034041,045,053,0570571026      1
CLEAR STORAGE 2      L068112,102106,113/101099/I99,027A070028)027B0010270B0261,001/001113I0      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	010	000	JOB	1401 COBOL - B10						
102	1	020		CTL	631 11						
103	1	030	X1	EQU	89			0089			
104	1	040	X2	EQU	94			0094			
105	1	050	X3	EQU	99			0099			
106	1	060	GETX	EQU	335			0335			
107	1	070	SUPER	EQU	351			0351			
108	1	080	DUMP	EQU	359			0359			
109	1	090	PUTX	EQU	363			0363			
110	1	100	DTADR	EQU	1314			1314			
111	1	110	SYSW	EQU	1340			1340			
112	1	120	DSW	EQU	1342			1342			
113	1	130		ORG	1350				1350		
114	1	140	INIT	MLC	DTADR,X3	7		1350	M T14	099	4
115	1	150		MLC	@00@,OVSW	7		1357	M Q81	P87	4
116	1	160		BCE	INTTAB,DSW,1	8		1364	B T79	T42 1	4
117	1	170		MLC	@B@,DLQUAL	7		1372	M Q82	T95	4
118	1	180	INTTAB	B	GTSYM	4		1379	B N61		4
119	1	190	INTTB1	C	CURNT,QULSYM	7		1383	C P95	Q16	5
120	1	200		BU	TAB01	5		1390	B U10	/	5
121	1	210	DLQUAL	NOP	DLENTY	4		1395	N V16		5
122	1	220		MLC	@ @,TAG	7		1399	M Q83	R79	5
123	1	230		B	ENTER	4		1406	B U40		5
124	1	240	TAB01	C	CURNT,MLTSYM	7		1410	C P95	Q10	5
125	1	250		BU	TAB02	5		1417	B U33	/	5
126	2	010		MLC	@&@,TAG	7		1422	M Q84	R79	6
127	2	020		B	ENTER	4		1429	B U40		6
128	2	030	TAB02	MLC	@-@,TAG	7		1433	M Q85	R79	6
129	2	040	ENTER	BCE	OUTENT,OVFSW,1	8		1440	B V51	P86 1	6
130	2	050		B	GTSYM	4		1448	B N61		6
131	2	060		MLC	CURNT,CNAME	7		1452	M P95	R82	6
132	2	070		B	GTSYM	4		1459	B N61		7
133	2	080		B	ENTFLD	4		1463	B L47		7
134	2	090		LCA	FIELD&1&X2,SRNM	7		1467	L RJ2	R78	7
135	2	100		LCA	CNAME,0&X3	7		1474	L R82	0?0	7
136	2	110		SBR	X3	4		1481	H 099		7
137	2	120		BCE	OVFTST,OVCHR,|	8		1485	B U97	?22 |	7
138	2	130		B	OVCOND	4		1493	B V05		7
139	2	140	OVFTST	BWZ	INTTAB,OVCHR,1	8		1497	V T79	?22 1	8
140	2	150	OVCOND	MLC	@1@,OVFSW	7		1505	M Q86	P86	8
141	2	160		B	INTTAB	4		1512	B T79		8
142	2	170	DLENTY	B	GTSYM	4		1516	B N61		8
143	2	180		B	GTSYM	4		1520	B N61		8
144	2	190		MLC	CURNT,SYM	7		1524	M P95	P98	8
145	2	200	DLENT1	B	GTSYM	4		1531	B N61		8
146	2	210		C	CURNT,SYM	7		1535	C P95	P98	9
147	2	220		BU	DLENT1	5		1542	B V31	/	9

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	2	230		B	INTTAB		4	1547	B T79		9
149	2	240	OUTENT	MLC	@1@,OVSW		7	1551	M Q86 P87		9
150	2	250		MLC	@B@,PTCARD		7	1558	M Q82 O11		9
151	3	010	OUTBOP	B	TABOUT		4	1565	B W08		9
152	3	020		B	PTGTSY		4	1569	B O44		9
153	3	030		B	PTGTSY		4	1573	B O44		10
154	3	040		MLC	CURNT,SYM		7	1577	M P95 P98		10
155	3	050	OUTET1	B	PTGTSY		4	1584	B O44		10
156	3	060		C	CURNT,SYM		7	1588	C P95 P98		10
157	3	070		BU	OUTET1		5	1595	B V84 /		10
158	3	080		B	PTGTSY		4	1600	B O44		10
159	3	090		B	INTTB1		4	1604	B T83		10
160	3	100	TABOUT	MLC	@N@,OUTBOP		7	1608	M Q87 V65		11
161	3	110		B	PUTX		4	1615	B 363		11
162	3	120		DCW	TBOP		3	1621	Q19		11
163	3	130		B	OUTBOP		4	1622	B V65		11
164	3	140	EJINT	B	PUTX		4	1626	B 363		11
165	3	150		DCW	EOP		3	1632	Q22		11
166	3	160	SW1	B	INPRT		4	1633	B O63		11
167	3	170		MLC	@N@,RTEOJ		7	1637	M Q87 P24		12
168	3	180		MLC	X3,ENDADR		7	1644	M 099 Q01		12
169	3	190		B	GTEST		4	1651	B W62		12
170	3	200	PTEST	B	PUTX		4	1655	B 363		12
171	3	210		DCW	CURNT		3	1661	P95		12
172	3	220	GTEST	B	GTSYM		4	1662	B N61		12
173	3	230	TEST	C	CURNT,TBOP		7	1666	C P95 Q19		12
174	3	240		BE	EOJ1		5	1673	B P61 S		13
175	3	250		C	CURNT-1,@.D@		7	1678	C P94 Q89		13
176	4	010		BU	TEST1		5	1685	B Z74 /		13
177	4	020		B	TESTQ,OVSW,1		8	1690	B Y68 P87 1		13
178	4	030		BCE	TESTQ1,CURNT,M		8	1698	B X17 P95 M		13
179	4	040		MLC	UNDMSG,240		7	1706	M Q32 240		14
180	4	050		B	TESTQ4		4	1713	B X24		14
181	4	060	TESTQ1	MLC	MLTMSG,240		7	1717	M Q37 240		14
182	4	070	TESTQ4	B	GTSYM		4	1724	B N61		14
183	4	080		MLC	@0@,QLSW		7	1728	M Q90 P89		14
184	4	090		C	CURNT-1,@.D@		7	1735	C P94 Q89		14
185	4	100		BE	GTEST		5	1742	B W62 S		15
186	4	110		C	CURNT,QUAL		7	1747	C P95 P92		15
187	4	120		BU	TESTQ6		5	1754	B X70 /		15
188	4	130		MLC	@1@,QLSW		7	1759	M Q86 P89		15
189	4	140		B	GTSYM		4	1766	B N61		15
190	4	150	TESTQ6	C	CURNT,CNOP		7	1770	C P95 Q47		15
191	4	160		BE	TESTQ5		5	1777	B Y60 S		16
192	4	170		B	LKNAME		4	1782	B K71		16
193	4	180		BCE	TESTQ4,LKSW,0		8	1786	B X24 P88 0		16
194	4	190		C	0&X1,0&X1		7	1794	C 0|0 0|0		16
195	4	200		SAR	X1		4	1801	Q 089		16
196	4	210		MCM	1&X1,FIELD		7	1805	P 0|1 R11		16
197	4	220	TESTQ9	MCM	FIELD,250		7	1812	P R11 250		17

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
198	4	230		SBR	X2		4	1819	H 094		17
199	4	240		MLC	@ @,0&X2		7	1823	M Q92 0!0		17
200	4	250		BCE	TESTQ8,QLSW,0		8	1830	B Y45 P89 0		17
201	5	010		MLC	@/@,1&X2		7	1838	M Q93 0!1		17
202	5	020	TESTQ8	MCS	CDSV2,230		7	1845	Z Q44 230		18
203	5	030		B	PRINT		4	1852	B P00		18
204	5	040		B	TESTQ4		4	1856	B X24		18
205	5	050	TESTQ5	B	ENTFLD		4	1860	B L47		18
206	5	060		B	TESTQ9		4	1864	B Y12		18
207	5	070	TESTQ	B	PTGTSY		4	1868	B O44		18
208	5	080	TESTQ2	C	CURNT,CNOP		7	1872	C P95 Q47		18
209	5	090		BU	TSTQ11		5	1879	B Z04 /		19
210	5	100	TSTQ12	B	PTGTSY		4	1884	B O44		19
211	5	110		C	CURNT,CNOP		7	1888	C P95 Q47		19
212	5	120		BU	TSTQ12		5	1895	B Y84 /		19
213	5	130		B	PTGTSY		4	1900	B O44		19
214	5	140	TSTQ11	C	CURNT-1,@.D@		7	1904	C P94 Q89		19
215	5	150		BE	PTEST		5	1911	B W55 S		19
216	5	160		C	CURNT,QUAL		7	1916	C P95 P92		20
217	5	170		BU	TSTQ10		5	1923	B Z36 /		20
218	5	180	TESTQ3	B	PTGTSY		4	1928	B O44		20
219	5	190		B	TESTQ2		4	1932	B Y72		20
220	5	200	TSTQ10	B	LKNAME		4	1936	B K71		20
221	5	210		BCE	TESTQ3,LKSW,0		8	1940	B Z28 P88 0		20
222	5	220		C	0&X1,0&X1		7	1948	C 0|0 0|0		20
223	5	230		SAR	X1		4	1955	Q 089		21
224	5	240		MCM	1&X1,FIELD		7	1959	P 0|1 R11		21
225	5	250		B	OUTNM		4	1966	B M44		21
226	6	010		B	TESTQ3		4	1970	B Z28		21
227	6	020	TEST1	BCE	PTEST,SYSW,0		8	1974	B W55 T40 0		21
228	6	030		C	CURNT-2,@A@		7	1982	C P93 Q94		21
229	6	040		BH	TEST2		5	1989	B J25 U		21
230	6	050		C	CURNT-2,@R@		7	1994	C P93 Q95		22
231	6	060		BL	TEST2		5	2001	B J25 T		22
232	6	070		BCE	TEST3,OVSW,1		8	2006	B J81 P87 1		22
233	6	080		B	LKNAME		4	2014	B K71		22
234	6	090		BCE	PTEST,LKSW,0		8	2018	B W55 P88 0		22
235	6	100		MLC	0&X1,TSTCHR		7	2026	M 0|0 Q38		22
236	6	110		BWZ	PTEST,TSTCHR,2		8	2033	V W55 Q38 2		23
237	6	120		C	0&X1,0&X1		7	2041	C 0|0 0|0		23
238	6	130		SAR	X1		4	2048	Q 089		23
239	6	140		MCM	1&X1,FIELD		7	2052	P 0|1 R11		23
240	6	150		BWZ	TEST4,TSTCHR,B		8	2059	V !78 Q38 B		23
241	6	160	TEST6	MLC	UNDMMSG,PRMSG		7	2067	M Q32 Q27		24
242	6	170		B	TEST5		4	2074	B !85		24
243	6	180	TEST4	MLC	MLTMSG,PRMSG		7	2078	M Q37 Q27		24
244	6	190	TEST5	MLC	PRMSG,240		7	2085	M Q27 240		24
245	6	200		MCS	CDSV2,230		7	2092	Z Q44 230		24
246	6	210		MCM	FIELD,245		7	2099	P R11 245		24
247	6	220		SBR	X2		4	2106	H 094		25

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
248	6	230		MLC	@ @,0&X2		7	2110	M Q92 0!0		25
249	6	240		B	PRINT		4	2117	B P00		25
250	6	250		B	GTEST		4	2121	B W62		25
251	7	010	TEST2	BCE	PTEST,OVSW,1		8	2125	B W55 P87 1		25
252	7	020		C	CURNT,MLTSYM		7	2133	C P95 Q10		25
253	7	030		BU	TEST7		5	2140	B J57 /		25
254	7	040		B	GTSYM		4	2145	B N61		26
255	7	050		B	ENTFLD		4	2149	B L47		26
256	7	060		B	TEST4		4	2153	B !78		26
257	7	070	TEST7	C	CURNT,UNDSYM		7	2157	C P95 Q13		26
258	7	080		BU	PTEST		5	2164	B W55 /		26
259	7	090		B	GTSYM		4	2169	B N61		26
260	7	100		B	ENTFLD		4	2173	B L47		26
261	7	110		B	TEST6		4	2177	B !67		27
262	7	120	TEST3	B	LKNAME		4	2181	B K71		27
263	7	130		BCE	PTEST,LKSW,0		8	2185	B W55 P88 0		27
264	7	140		MLC	0&X1,TSTCHR		7	2193	M 0|0 Q38		27
265	7	150		BWZ	TEST8,TSTCHR,B		8	2200	V K31 Q38 B		27
266	7	160		BWZ	TEST9,TSTCHR,K		8	2208	V K20 Q38 K		27
267	7	170		B	PTEST		4	2216	B W55		28
268	7	180	TEST9	MLC	UNDSYM,SYM		7	2220	M Q13 P98		28
269	7	190		B	TEST10		4	2227	B K38		28
270	7	200	TEST8	MLC	MLTSYM,SYM		7	2231	M Q10 P98		28
271	7	210	TEST10	B	PUTX		4	2238	B 363		28
272	7	220		DCW	SYM		3	2244	P98		28
273	7	230		C	0&X1,0&X1		7	2245	C 0|0 0|0		28
274	7	240		SAR	X1		4	2252	Q 089		29
275	7	250		MCM	1&X1,FIELD		7	2256	P 0|1 R11		29
276	8	010		B	OUTNM		4	2263	B M44		29
277	8	020		B	GTEST		4	2267	B W62		29
278	8	030	LKNAME	SBR	LK05&3		4	2271	H L46		29
279	8	040		MLC	@0@,LKSW		7	2275	M Q90 P88		29
280	8	050		MLC	DTADR,X1		7	2282	M T14 089		29
281	8	060	LK01	C	X1,ENDADR		7	2289	C 089 Q01		30
282	8	070		BE	LK05		5	2296	B L43 S		30
283	8	080		C	0&X1,CURNT		7	2301	C 0|0 P95		30
284	8	090		SAR	X1		4	2308	Q 089		30
285	8	100		BU	LK04		5	2312	B L28 /		30
286	8	110		MLC	@1@,LKSW		7	2317	M Q86 P88		30
287	8	120		B	LK05		4	2324	B L43		30
288	8	130	LK04	C	0&X1,0&X1		7	2328	C 0|0 0|0		31
289	8	140		SAR	X1		4	2335	Q 089		31
290	8	150		B	LK01		4	2339	B K89		31
291	8	160	LK05	B	*		4	2343	B L46		31
292	8	170	ENTFLD	SBR	ENTF01&3		4	2347	H M25		31
293	8	180		MLC	CURNT,SYM		7	2351	M P95 P98		31
294	8	190		MLC	@002@,X2		7	2358	M Q98 094		31
295	8	200		B	GTSYM		4	2365	B N61		32
296	8	210		B	ENTF03		4	2369	B L96		32
297	8	220	ENTF02	B	GTSYM		4	2373	B N61		32

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
298	8	230		C	CURNT,SYM		7	2377	C P95 P98		32
299	8	240		BE	ENTF04		5	2384	B M07 S		32
300	8	250		A	&3,X2		7	2389	A Q99 094		32
301	9	010	ENTF03	MLC	CURNT,FIELD&X2		7	2396	M P95 RJ1		32
302	9	020		B	ENTF02		4	2403	B L73		33
303	9	030	ENTF04	BCE	ENTF05,FIELD&X2,		8	2407	B M26 RJ1		33
304	9	040		MLC	@|@,FIELD&1&X2		7	2415	M R00 RJ2		33
305	9	050	ENTF01	B	*		4	2422	B M25		33
306	9	060	ENTF05	S	&1,X2		7	2426	S R01 094		33
307	9	070		MZ	@ @,X2		7	2433	Y Q83 094		33
308	9	080		B	ENTF04		4	2440	B M07		34
309	9	090	OUTNM	SBR	OUTNM1&3		4	2444	H N60		34
310	9	100		B	PUTX		4	2448	B 363		34
311	9	110		DCW	CNOP		3	2454	Q47		34
312	9	120		MLC	@000@,X2		7	2455	M R04 094		34
313	9	130	OUTNM2	MLC	@ @,OUTSYM		7	2462	M R07 Q04		34
314	9	140		MLC	@000@,X3		7	2469	M R04 099		34
315	9	150	OUTNM3	BCE	OUTNMX,FIELD&X2,|		8	2476	B N35 RJ1	|	35
316	9	160		MZ	FIELD&X2,OUTSYM-2&X3		7	2484	Y RJ1 Q?2		35
317	9	170		MN	FIELD&X2,OUTSYM-2&X3		7	2491	D RJ1 Q?2		35
318	9	180		A	&1,X2		7	2498	A R01 094		35
319	9	190		A	&1,X3		7	2505	A R01 099		35
320	9	200		C	X3,@003@		7	2512	C 099 R10		36
321	9	210		BU	OUTNM3		5	2519	B M76 /		36
322	9	220		B	PUTX		4	2524	B 363		36
323	9	230		DCW	OUTSYM		3	2530	Q04		36
324	9	240		B	OUTNM2		4	2531	B M62		36
325	9	250	OUTNMX	BCE	OUTNM4,X3,0		8	2535	B N50 099 0		36
326	10	010		B	PUTX		4	2543	B 363		36
327	10	020		DCW	OUTSYM		3	2549	Q04		37
328	10	030	OUTNM4	B	PUTX		4	2550	B 363		37
329	10	040		DCW	CNOP		3	2556	Q47		37
330	10	050	OUTNM1	B	*		4	2557	B N60		37
331	10	060	GTSYM	SBR	GT01&3		4	2561	H N90		37
332	10	070	GT08	B	GETX		4	2565	B 335		37
333	10	080		DCW	CURNT		3	2571	P95		37
334	10	090		DCW	RTEOJ		3	2574	P24		38
335	10	100	GT03	C	CURNT,CDSYM		7	2575	C P95 Q07		38
336	10	110		BE	GT02		5	2582	B N91 S		38
337	10	120	GT01	B	*		4	2587	B N90		38
338	10	130	GT02	B	GETX		4	2591	B 335		38
339	10	140		DCW	CDSV1		3	2597	Q41		38
340	10	150		DCW	RTEOJ		3	2600	P24		38
341	10	160		B	GETX		4	2601	B 335		39
342	10	170		DCW	CDSV2		3	2607	Q44		39
343	10	180		DCW	RTEOJ		3	2610	P24		39
344	10	190	PTCARD	NOF	GT04		4	2611	N 019		39
345	10	200		B	GT08		4	2615	B N65		39
346	10	210	GT04	B	PUTX		4	2619	B 363		39
347	10	220		DCW	CDSYM		3	2625	Q07		39

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
348	10	230		B	PUTX		4	2626	B 363		40
349	10	240		DCW	CDSV1		3	2632	Q41		40
350	10	250		B	PUTX		4	2633	B 363		40
351	11	010		DCW	CDSV2		3	2639	Q44		40
352	11	020		B	GT08		4	2640	B N65		40
353	11	030	PTGTSY	SBR	PTGT01&3		4	2644	H 062		40
354	11	040		B	PUTX		4	2648	B 363		40
355	11	050		DCW	CURNT		3	2654	P95		41
356	11	060		B	GTSYM		4	2655	B N61		41
357	11	070	PTGT01	B	*		4	2659	B 062		41
358	11	080	INPRT	SBR	INP01&3		4	2663	H 099		41
359	11	090		CC	1		2	2667	F 1		41
360	11	100		CS	332		4	2669	/ 332		41
361	11	110		CS			1	2673	/		41
362	11	120		MLC	DIAGMG,250		7	2674	M Q63 250		42
363	11	130		W			1	2681	2		42
364	11	140		CS	332		4	2682	/ 332		42
365	11	150		CS			1	2686	/		42
366	11	160		CC	K		2	2687	F K		42
367	11	170		MLC	@N@,SW1		7	2689	M Q87 W33		42
368	11	180	INP01	B	*		4	2696	B 099		42
369	11	190	PRINT	SBR	PRT01&3		4	2700	H P18		43
370	11	200		W			1	2704	2		43
371	11	210		CS	332		4	2705	/ 332		43
372	11	220		CS			1	2709	/		43
373	11	230		BCV	PMSG		5	2710	B P19 @		43
374	11	240	PRT01	B	*		4	2715	B P18		43
375	11	250	PMSG	CCB	PRT01,1		5	2719	F P15 1		43
376	12	010	RTEOJ	B	EJINT		4	2724	B W26		44
377	12	020	EOJ	BCE	EOJ1,OVSW,1		8	2728	B P61 P87 1		44
378	12	030		CC	1		2	2736	F 1		44
379	12	040		MLC	DISMSG,250		7	2738	M Q79 250		44
380	12	050		B	PRINT		4	2745	B P00		44
381	12	060		CC	1		2	2749	F 1		44
382	12	070		RWD	1		5	2751	U %U1 R		44
383	12	080		H			1	2756	.		45
384	12	090		B	*-4		4	2757	B P56		45
385	12	100	EOJ1	MLC	@N@,PTCARD		7	2761	M Q87 O11		45
386	12	110		MLC	@B@,RTEOJ		7	2768	M Q82 P24		45
387	12	120		MLC	@B@,OUTBOP		7	2775	M Q82 V65		45
388	12	130		B	INIT		4	2782	B T50		45
389	12	140	OVFSW	DCW	@0@		1	2786			45
390	12	150	OVSW	DC	@0@		1	2787			46
391	12	160	LKSW	DCW	@0@		1	2788			46
392	12	170	QLSW	DCW	@0@		1	2789			46
393	12	180	QUAL	DCW	@*32@		3	2792			46
394	12	190	CURNT	DCW	#3		3	2795			46
395	12	200	SYM	DCW	#3		3	2798			47
396	12	210	ENDADR	DCW	#3		3	2801			47
397	12	220	OUTSYM	DCW	#3		3	2804			47

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
398	12	230	CDSYM	DCW	@.CD@		3	2807			47
399	12	240	MLTSYM	DCW	@.MT@		3	2810			47
400	12	250	UNDSYM	DCW	@.UN@		3	2813			47
401	13	010	QULSYM	DCW	@.QN@		3	2816			47
402	13	020	TBOP	DCW	@.TO@		3	2819			48
403	13	030	EOP	DCW	@.EP@		3	2822			48
404	13	040	PRMSG	DCW	#5		5	2827			48
405	13	050	UNDMMSG	DCW	@UNDEF@		5	2832			48
406	13	060	MLTMSG	DCW	@MULT @		5	2837			48
407	13	070	TSTCHR	DCW	@0@		1	2838			48
408	13	080	CDSV1	DCW	#3		3	2841			48
409	13	090	CDSV2	DC	#3		3	2844			49
410	13	100	CNOP	DCW	@.NM@		3	2847			49
411	13	110	DIAGMG	DCW	@NAME DIAGNOSTICS@		16	2863			49
412	13	120	DISMSG	DCW	@RUN DISCONTINUED@		16	2879			49
413	13	130		LTORG					2880		
				DCW	@00@		2	2881		LIT	50
					@B@		1	2882		LIT	50
					@ @		1	2883		LIT	50
					@&@		1	2884		LIT	50
					@-@		1	2885		LIT	50
					@1@		1	2886		LIT	50
					@N@		1	2887		LIT	50
					@.D@		2	2889		LIT	51
					@0@		1	2890		LIT	51
					@ @		2	2892		LIT	51
					@/@		1	2893		LIT	51
					@A@		1	2894		LIT	51
					@R@		1	2895		LIT	51
					@002@		3	2898		LIT	51
					&3		1	2899		LIT	52
					@|@		1	2900		LIT	52
					&1		1	2901		LIT	52
					@000@		3	2904		LIT	52
					@ @		3	2907		LIT	52
					@003@		3	2910		LIT	52
414	13	140	FIELD	DCW	@ @		1	2911			52
415	13	150		DC	#33		33	2944			53
416	13	160		DC	#33		33	2977			54
417	13	170	SRNM	DC	@ @		1	2978			54
418	13	180	TAG	DC	@ @		1	2979			54
419	13	190	CNAME	DC	#3		3	2982			54
420	13	200		ORG	*&39				3022		
421	13	210	OVCHR	DCW	@|@		1	3022			55
422	13	220		DCW	@}@		1	3023			55
423	13	230		END	INIT				/ T50 080		56

CLEAR STORAGE 1 ,008015,019026,030,034041,045,053,0570571026 1
 CLEAR STORAGE 2 L068112,102106,113/101099/I99,027A070028)027B0010270B0261,001/001113I0 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	010	000	JOB	1401 COBOL - C01						
102	1	020		CTL	631 11						
103	1	030	TESTSN	EQU	1303			1303			
104	1	040	TEST88	EQU	1304			1304			
105	1	050	TESTDV	EQU	1305			1305			
106	1	060		ORG	1306				1306		
107	1	070	X1	EQU	89			0089			
108	1	080	X3	EQU	99			0099			
109	1	090	SUPER	EQU	351			0351			
110	1	100	GETX	EQU	335			0335			
111	1	110	PUTX	EQU	363			0363			
112	1	120	IORW	EQU	343			0343			
113	1	130	START	BCE	EOJ0,TESTSN,0	8		1306	B !85 T03 0		4
114	1	140		B	PLACE	4		1314	B L17		4
115	1	150		DCW	VSN	3		1320	K00		4
116	1	160	START0	B	GTPTIL	4		1321	B K49		4
117	1	170		DCW	VSPNM	3		1327	J27		4
118	1	180	SPNM1	B	GETSX	4		1328	B K16		4
119	1	190	SPNM2	C	SX-1,@*8@	7		1332	C J29 P74		4
120	1	200		BE	SPNMDV	5		1339	B T72 S		5
121	1	210		C	SX,VPRD	7		1344	C J30 J33		5
122	1	220		BE	EOSPNM	5		1351	B Z14 S		5
123	1	230		C	SX,VNM	7		1356	C J30 J36		5
124	1	240		BE	SPNMEQ	5		1363	B W95 S		5
125	1	250		B	SPNM1	4		1368	B T28		5
126	2	010	SPNMDV	MLC	SX,DEVICE	7		1372	M J30 J39		6
127	2	020		BCE	SPNMSW,DEVICE,7	8		1379	B V74 J39 7		6
128	2	030		BCE	SPNMSW,DEVICE,1	8		1387	B V74 J39 1		6
129	2	040		BCE	SPNMSW,DEVICE,6	8		1395	B V74 J39 6		6
130	2	050		BCE	SPNMSW,DEVICE,5	8		1403	B V74 J39 5		6
131	2	060		MLC	VDV,FLAG	7		1411	M J42 J45		7
132	2	070		B	GETSX	4		1418	B K16		7
133	2	080		C	SX,VNL	7		1422	C J30 J48		7
134	2	090		BE	SNDV02	5		1429	B U64 S		7
135	2	100		BCE	SNDV01,DEVICE,8	8		1434	B U53 J39 8		7
136	2	110		MLC	V1,PKT	7		1442	M J51 J54		7
137	2	120		B	EOPKT	4		1449	B V59		8
138	2	130	SNDV01	MLC	V4,PKT	7		1453	M J57 J54		8
139	2	140		B	EOPKT	4		1460	B V59		8
140	2	150	SNDV02	B	GETSX	4		1464	B K16		8
141	2	160		MLC	@ @,PKT	7		1468	M P77 J54		8
142	2	170		BCE	SNDV05,SX-2,1	8		1475	B U98 J28 1		8
143	2	180	SNDV03	MLC	SX-2,PKT	7		1483	M J28 J54		9
144	2	190	SNDV04	B	GETSX	4		1490	B K16		9
145	2	200		B	SNDV07	4		1494	B V55		9
146	2	210	SNDV05	BCE	SNDV03,SX-1,	8		1498	B U83 J29		9
147	2	220		BCE	SNDV06,SX-1,1	8		1506	B V33 J29 1		9

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	2	230		BCE	SNDV6A, SX-1, 2		8	1514	B V44 J29	2	9
149	2	240		MLC	@0@, PKT		7	1522	M P78 J54		10
150	2	250		B	SNDV04		4	1529	B U90		10
151	3	010	SNDV06	MLC	VEL, PKT		7	1533	M J63 J54		10
152	3	020		B	SNDV04		4	1540	B U90		10
153	3	030	SNDV6A	MLC	VTW, PKT		7	1544	M J60 J54		10
154	3	040		B	SNDV04		4	1551	B U90		10
155	3	050	SNDV07	B	GETSX		4	1555	B K16		10
156	3	060	EOPKT	MLC	SX, NAME		7	1559	M J30 J66		11
157	3	070		B	DESCRB	DATA-DESCRIPTION TO PRE-MERGE	4	1566	B X79		11
158	3	080		B	SPNM1		4	1570	B T28		11
159	3	090	SPNMSW	MLC	@1@, SWSW	SWITCH-ROUTINE	7	1574	M P79 J67		11
160	3	100		MLC	@B@, DSCR1		7	1581	M P80 X95		11
161	3	110		C	DEVICE, VSS		7	1588	C J39 J70		11
162	3	120		BU	SNSW1		5	1595	B W18 /		12
163	3	130		B	GETSX	GET PAST LIT.OP.	4	1600	B K16		12
164	3	140		B	GETX	GET S.S. LETTER	4	1604	B 335		12
165	3	150		DCW	DEVICE		3	1610	J39		12
166	3	160		DCW	EOJ		3	1613	!67		12
167	3	170		B	GETSX	GET PAST LIT.OP.	4	1614	B K16		12
168	3	180	SNSW1	MLC	VSW, FLAG		7	1618	M J73 J45		12
169	3	190		B	GETX		4	1625	B 335		13
170	3	200		DCW	PKT	GET STATUS	3	1631	J54		13
171	3	210		DCW	EOJ		3	1634	!67		13
172	3	220	SNSW2	B	GETX	GET NAME	4	1635	B 335		13
173	3	230		DCW	NAME		3	1641	J66		13
174	3	240		DCW	EOJ		3	1644	!67		13
175	3	250		B	DESCRB	DATA-DESCRIPTION TO PRE-MERGE	4	1645	B X79		13
176	4	010		B	GETSX		4	1649	B K16		14
177	4	020		C	SX, VON	IS THERE ANOTHER STATUS	7	1653	C J30 J76		14
178	4	030		BE	SNSW3		5	1660	B W77 S		14
179	4	040		C	SX, VOFF		7	1665	C J30 J79		14
180	4	050		BU	SPNM2		5	1672	B T32 /		14
181	4	060	SNSW3	MLC	SX, PKT	ASSIGN STATUS	7	1677	M J30 J54		14
182	4	070		MLC	@B@, DSCR1		7	1684	M P80 X95		15
183	4	080		B	SNSW2		4	1691	B W35		15
184	4	090	SPNMEQ	B	PLACE	A/C-COBOL EQUATE	4	1695	B L17		15
185	4	100		DCW	VSPOP		3	1701	J82		15
186	4	110	SNEQ01	B	GETSX		4	1702	B K16		15
187	4	120		C	SX, VNM		7	1706	C J30 J36		15
188	4	130		BE	SNEQ02		5	1713	B X29 S		15
189	4	140		B	PLACE		4	1718	B L17		16
190	4	150		DCW	SX		3	1724	J30		16
191	4	160		B	SNEQ01		4	1725	B X02		16
192	4	170	SNEQ02	B	PLACE		4	1729	B L17		16
193	4	180		DCW	VLOC		3	1735	J85		16
194	4	190		B	PLACE		4	1736	B L17		16
195	4	200		DCW	VEQU		3	1742	J88		16
196	4	210		B	PLACE		4	1743	B L17		17
197	4	220		DCW	VOP		3	1749	J91		17

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
198	4	230		B	GETSX		4	1750	B K16		17
199	4	240		B	PLACE		4	1754	B L17		17
200	4	250		DCW	SX		3	1760	J30		17
201	5	010		B	PLACE		4	1761	B L17		17
202	5	020		DCW	MACSP		3	1767	J94		17
203	5	030		B	PLACE		4	1768	B L17		18
204	5	040		DCW	VDE		3	1774	K03		18
205	5	050		B	SPNM1		4	1775	B T28		18
206	5	060	DESCRB	SBR	DSCREX&3		4	1779	H Y44		18
207	5	070		C	NAME,@ @		7	1783	C J66	P77	18
208	5	080		BE	DSCR3		5	1790	B Y45	S	18
209	5	090	DSCR1	NOP	BLDTBL		4	1795	N Y68		18
210	5	100	DSCR2	B	PLACE		4	1799	B L17		19
211	5	110		DCW	VTE		3	1805	J97		19
212	5	120		B	PLACE		4	1806	B L17		19
213	5	130		DCW	NAME		3	1812	J66		19
214	5	140		B	PLACE		4	1813	B L17		19
215	5	150		DCW	FLAG		3	1819	J45		19
216	5	160		B	PLACE		4	1820	B L17		19
217	5	170		DCW	DEVICE		3	1826	J39		20
218	5	180		B	PLACE		4	1827	B L17		20
219	5	190		DCW	PKT		3	1833	J54		20
220	5	200		B	PLACE		4	1834	B L17		20
221	5	210		DCW	VTE		3	1840	J97		20
222	5	220	DSCREX	B	*		4	1841	B Y44		20
223	5	230	DSCR3	BCE	DSCR4,DSCR1,B		8	1845	B Y57	X95 B	20
224	5	240		B	DSCREX		4	1853	B Y41		21
225	5	250	DSCR4	MLC	@N@,DSCR1		7	1857	M P81	X95	21
226	6	010		B	DSCREX		4	1864	B Y41		21
227	6	020	BLDTBL	MLC	@N@,DSCR1		7	1868	M P81	X95	21
228	6	030		MLC	NEXTTE,X3		7	1875	M Z13	099	21
229	6	040		MLCWA	NAME,0&X3		7	1882	L J66	0?0	21
230	6	050		SBR	X3		4	1889	H 099		22
231	6	060		MLCWA	@|@,0&X3		7	1893	L P82	0?0	22
232	6	070		MLC	X3,NEXTTE		7	1900	M 099	Z13	22
233	6	080		B	DSCR2		4	1907	B X99		22
234	6	090	NEXTTE	DCW	GM		3	1913	G98		22
235	6	100	EOSPNM	BCE	START0,SWSW,0	ARE THERE NO SWITCHES	8	1914	B T21	J67 0	22
236	6	110		B	GTPTIL		4	1922	B K49		22
237	6	120		DCW	VPROC		3	1928	K06		23
238	6	130	ESN01	B	PUTSX		4	1929	B K34		23
239	6	140		B	GETSX		4	1933	B K16		23
240	6	150		C	SX,VIF		7	1937	C J30	K09	23
241	6	160		BE	ESN02		5	1944	B Z61	S	23
242	6	170		C	SX,VUNTIL		7	1949	C J30	K12	23
243	6	180		BU	ESN01		5	1956	B Z29	/	23
244	6	190	ESN02	B	PUTSX	CONDITIONAL EXPRESSION	4	1961	B K34		24
245	6	200		B	GETSX		4	1965	B K16		24
246	6	210		C	SX-2,@?@		7	1969	C J28	P83	24
247	6	220		BL	ESN03	NAME TEST	5	1976	B !21	T	24

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
248	6	230		BCE	ESN02,SX-2,		8	1981	B Z61 J28		24
249	6	240		C	SX,VPRD		7	1989	C J30 J33		24
250	6	250		BE	ESN01		5	1996	B Z29 S		25
251	7	010		BCE	ESN02,SX-2,.		8	2001	B Z61 J28	.	25
252	7	020		BCE	ESN02,SX-2,\$		8	2009	B Z61 J28	\$	25
253	7	030		B	ESN01		4	2017	B Z29		25
254	7	040	ESN03	MLC	TBARG,X3		7	2021	M K15 099		25
255	7	050	ESN04	C	SX,0&X3		7	2028	C J30 0?0		25
256	7	060		SBR	X3		4	2035	H 099		26
257	7	070		BE	ESN05		5	2039	B !56 S		26
258	7	080		BCE	ESN02,0&X3,|		8	2044	B Z61 0?0 |		26
259	7	090		B	ESN04		4	2052	B !28		26
260	7	100	ESN05	B	PUTX		4	2056	B 363		26
261	7	110		DCW	VSW		3	2062	J73		26
262	7	120		B	ESN02		4	2063	B Z61		26
263	7	130	EOJ	B	PUTSX		4	2067	B K34		27
264	7	140		B	PLACE		4	2071	B L17		27
265	7	150		DCW	VSN		3	2077	K00		27
266	7	160		B	PLACE		4	2078	B L17		27
267	7	170		DCW	VEB		3	2084	J24		27
268	7	180	EOJ0	BCE	EOJ1,TEST88,0		8	2085	B J00 T04 0		27
269	7	190		B	SUPER	CALL 88 PHASE	4	2093	B 351		27
270	7	200		DCW	@C02@		3	2099			28
271	7	210	EOJ1	BCE	EOJ2,TESTDV,0		8	2100	B J15 T05 0		28
272	7	220		B	SUPER	CALL DATA-VALUE PHASE	4	2108	B 351		28
273	7	230		DCW	@C03@		3	2114			28
274	7	240	EOJ2	B	SUPER	CALL STORAGE ALLOCATION PHASE	4	2115	B 351		28
275	7	250		DCW	@D01@		3	2121			28
276	8	010	VEB		@.EB@		3	2124			28
277	8	020	VSPNM	DCW	@*95@		3	2127			29
278	8	030	SX		#3		3	2130			29
279	8	040	VPRD		@.PD@		3	2133			29
280	8	050	VNM		@.NM@		3	2136			29
281	8	060	DEVICE		#3		3	2139			29
282	8	070	VDV		@.DV@		3	2142			29
283	8	080	FLAG		#3		3	2145			29
284	8	090	VNL		@.NL@		3	2148			30
285	8	100	V1		@ 1@		3	2151			30
286	8	110	PKT		#3		3	2154			30
287	8	120	V4		@ 4@		3	2157			30
288	8	130	VTW		@.TW@		3	2160			30
289	8	140	VEL		@.EL@		3	2163			30
290	8	150	NAME		#3		3	2166			30
291	8	160	SWSW		@0@		1	2167			31
292	8	170	VSS		@*81@		3	2170			31
293	8	180	VSW		@.SW@		3	2173			31
294	8	190	VON		@*31@		3	2176			31
295	8	200	VOFF		@*71@		3	2179			31
296	8	210	VSPOP		@.EQ@		3	2182			31
297	8	220	VLOC		@.LC@		3	2185			31

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
298	8	230	VEQU		@EQU@		3	2188			32
299	8	240	VOP		.@OP@		3	2191			32
300	8	250	MACSP		.@MC@		3	2194			32
301	9	010	VTE		.@TE@		3	2197			32
302	9	020	VSN		.@SN@		3	2200			32
303	9	030	VDE		.@DE@		3	2203			32
304	9	040	VPROC	DCW	@*01@		3	2206			32
305	9	050	VIF		@)19@		3	2209			33
306	9	060	VUNTIL		@*18@		3	2212			33
307	9	070	TBARG		GM		3	2215	G98		33
308	9	080	GETSX	SBR	GTSEX&3	GETSX	4	2216	H K33		33
309	9	090		B	GETX		4	2220	B 335		33
310	9	100		DCW	&SX		3	2226	J30		33
311	9	110			&EOJ		3	2229	!67		33
312	9	120	GTSEX	B	*		4	2230	B K33		34
313	9	130	PUTSX	SBR	PTSEX&3	PUTSX	4	2234	H K48		34
314	9	140		B	PUTX		4	2238	B 363		34
315	9	150		DCW	&SX		3	2244	J30		34
316	9	160	PTSEX	B	*		4	2245	B K48		34
317	9	170	GTPTIL	SBR	X1	GTPTIL	4	2249	H 089		34
318	9	180		MLC	@P@,GTPSW		7	2253	M P84 L16		34
319	9	190	GTL01	MLC	X1,GTL5V		7	2260	M 089 L15		35
320	9	200		MLC	2&X1,GTL03&3		7	2267	M 0|2 K81		35
321	9	210	GTL02	B	GETSX		4	2274	B K16		35
322	9	220	GTL03	C	*,SX		7	2278	C K84 J30		35
323	9	230		BE	GTL04		5	2285	B L02 S		35
324	9	240		BCE	PUTSX,GTPSW,P		8	2290	B K34 L16 P		35
325	9	250		B	GTL02		4	2298	B K74		36
326	10	010	GTL04	MLC	GTL5V,X1		7	2302	M L15 089		36
327	10	020		B	3&X1		4	2309	B 0|3		36
328	10	030	GTL5V	DCW	#3		3	2315			36
329	10	040	GTPSW		#1		1	2316			36
330	10	050	PLACE	SBR	X1		4	2317	H 089		36
331	10	060		SBR	PLC2&3,3&X1		7	2321	H L91 0|3		36
332	10	070		MLC	2&X1,PLC1&3		7	2328	M 0|2 L38		37
333	10	080	PLC1	MLC	0,PLCSY		7	2335	M 000 M71		37
334	10	090	PLC1A	MLC	PLCSY,PLCB		7	2342	M M71 M74		37
335	10	100		C	PLCSY,@.EB@		7	2349	C M71 P87		37
336	10	110		BE	PLC3		5	2356	B L92 S		37
337	10	120		C	PLC1A&6,&PLCMAX		7	2361	C L48 P90		38
338	10	130		BE	PLC3		5	2368	B L92 S		38
339	10	140		MA	@003@,PLC1A&6					MACRO	
340				SW	PLC1A&6-2		4	2373	, L46	GEN	38
341				A	@003@,PLC1A&6		7	2377	A P93 L48	GEN	38
342				CW	PLC1A&6-2		4	2384	) L46	GEN	38
343	10	150	PLC2	B	0		4	2388	B 000		38
344	10	160	PLC3	SW	PLC5&1		4	2392	, M68		38
345	10	170		B	IORW		4	2396	B 343		39
346	10	180		RT	4,PLC5		8	2400	M %U4 M67 R		39
347	10	190		DCW	PLC4		3	2410	M15		39

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
348	10	200		B	PLC3		4	2411	B L92		39
349	10	210	PLC4	BSP	4		5	2415	U %U4 B		39
350	10	220		SW	PLCMAX&1		4	2420	, P72		39
351	10	230		B	IORW		4	2424	B 343		39
352	10	240		WT	4, PLCA		8	2428	M %U4 M72 W		40
353	10	250		DCW	*&1		3	2438	M39		40
354	11	010		WTM	4		5	2439	U %U4 M		40
355	11	020		BSP	4		5	2444	U %U4 B		40
356	11	030		MLC	&PLCB, PLC1A&6		7	2449	M P96 L48		40
357	11	040		ZA	@0@, PLCMAX		7	2456	? P78 P71		40
358	11	050		B	PLC2		4	2463	B L88		40
359	11	060	PLC5	EQU	*&1			2467			
360	11	070		DCW	@ }MAX&1		4	2420	, P72		39
351	10	230		B	IORW		4	2424	B 343		39
352	10	240		WT	4, PLCA		8	2428	M %U4 M72 W		40
353	10	250		DCW	*&1		3	2438	M39		40
354	11	010		WTM	4		5	2439	U %U4 M		40
355	11	020		BSP	4		5	2444	U %U4 B		40
356	11	030		MLC	&PLCB, PLC1A&6		7	2449	M P96 L48		40
357	11	040		ZA	@0@, PLCMAX		7	2456	? P78 P71		40
358	11	050		B	PLC2		4	2463	B L88		40
359	11	060	PLC5	EQU	*&1			2467			
					@0@		1	2778		LIT	42
					@1@		1	2779		LIT	42
					@B@		1	2780		LIT	43
					@N@		1	2781		LIT	43
					@|@		1	2782		LIT	43
					@?@		1	2783		LIT	43
					@P@		1	2784		LIT	43
					@.EB@		3	2787		LIT	43
		337			&PLCMAX		3	2790	P71	ADCON	43
					@003@		3	2793		LIT	44
		356			&PLCB		3	2796	M74	ADCON	44
368	11	150		ORG	3798				3798		
369	11	160	GM	DCW	@}@		1	3798			45
370	11	170		END	START				/ T06 080		46

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CLEAR STORAGE 1      ,008015,019026,030,034041,045,053,0570571026      1
CLEAR STORAGE 2      L068112,102106,113/101099/I99,027A070028)027B0010270B0261,001/001113I0      2
BOOTSTRAP            ,008015,022029,036040,047054,061068,072/061039      ,0010011040      3

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1401 COBOL - C02 PAGE 1

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
101	1	010	000	JOB	1401 COBOL - C02						
102	1	020		CTL	631 11						
103	1	030		ORG	1306				1306		
104	1	040	GNBKT	EQU	1302			1302			
105	1	050	DATAV	EQU	1305			1305			
106	1	060	SUPER	EQU	351			0351			
107	1	070	PUTX	EQU	363			0363			
108	1	080	GETX	EQU	335			0335			
109	1	090	X1	EQU	89			0089			
110	1	100	X2	EQU	94			0094			
111	1	110	X3	EQU	99			0099			
112	1	120	START	BCE	STRT1,ITSW,0	8		1306	B T28 N10	0	4
113	1	130		B	GTPTIL	4		1314	B P92		4
114	1	140		DCW	VITOP	3		1320	N64		4
115	1	150		MLC	@0@,ITSW	7		1321	M R42 N10		4
116	1	160	STRT1	SW	RM&100	4		1328	, ?97		4
117	1	170		MLC	TBARG,X3	7		1332	M M47 099		4
118	1	180		MLC	TBARG,X2	7		1339	M M47 094		5
119	1	190	STRT2	CS	0&X2	4		1346	/ 0!0		5
120	1	200		SBR	X2	4		1350	H 094		5
121	1	210		BW	STRT2,RM&100	8		1354	V T46 ?97 1		5
122	1	220		C	SX,VITOP	7		1362	C M50 N64		5
123	1	230		BE	LEVEL0	5		1369	B U22 S		5
124	1	240	STRT3	B	GETSX	4		1374	B P59	GENERAL CONTROL	5
125	1	250		C	SX,VLV	7		1378	C M50 N13		6
126	2	010		BE	LEVEL	5		1385	B U10 S		6
127	2	020		C	SX,VPROC	7		1390	C M50 N16		6
128	2	030		BE	PROCD	5		1397	B Y21 S		6
129	2	040		B	PUTSX	4		1402	B P77		6
130	2	050		B	STRT3	4		1406	B T74		6
131	2	060	LEVEL	B	PUTSX	4		1410	B P77	NEW DATA DESCRIPTION	6
132	2	070		B	GETSX	4		1414	B P59	GET-PUT LEVEL NUMBER	7
133	2	080		B	PUTSX	4		1418	B P77		7
134	2	090	LEVEL0	B	GETX	4		1422	B 335	GET DATA NAME	7
135	2	100		DCW	NAME	3		1428	M53		7
136	2	110			EOJ	3		1431	M11		7
137	2	120	LEVEL1	B	GETSX	4		1432	B P59	GET DATA DESCRIPTION OPTIONS	7
138	2	130	LEVEL2	C	SX,VPRD	7		1436	C M50 N19		7
139	2	140		BE	EOFDD	5		1443	B X66 S		8
140	2	150		C	SX,VLV	7		1448	C M50 N13		8
141	2	160		BE	LVL88	5		1455	B U74 S		8
142	2	170		B	ADSL	4		1460	B N65	SAVE NON-88 OPTIONS	8
143	2	180		DCW	WORKST	3		1466	R93		8
144	2	190			SX	3		1469	M50		8
145	2	200		B	LEVEL1	4		1470	B U32		8
146	2	210	LVL88	B	GETSX	4		1474	B P59		9
147	2	220		C	NAME,@	7		1478	C M53 R45		9

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	2	230		BU	LVL88A	5		1485	B V04 /		9
149	2	240		MLC	GNBKT,NAME	7		1490	M T02 M53		9
150	2	250		A	&1,GNBKT	7		1497	A R46 T02		9
151	3	010	LVL88A	B	GETX	4		1504	B 335		9
152	3	020		DCW	CONDNM	3		1510	M56		9
153	3	030			EOJ	3		1513	M11		10
154	3	040		C	CONDNM,@ @	7		1514	C M56 R45		10
155	3	050		BE	SKIP	5		1521	B V58 S		10
156	3	060	LEVEL3	B	GETSX	4		1526	B P59	SELECT VALUE OPTION OF 88	10
157	3	070		C	SX,VVALUE	7		1530	C M50 N25		10
158	3	080		BE	VALUE	5		1537	B V90 S		10
159	3	090		C	SX,V88	7		1542	C M50 N22		10
160	3	100		BE	LVL88A	5		1549	B V04 S		11
161	3	110		B	LEVEL3	4		1554	B V26		11
162	3	120	SKIP	B	GETSX	4		1558	B P59		11
163	3	130		C	SX,VPRD	7		1562	C M50 N19		11
164	3	140		BE	EOFDD	5		1569	B X66 S		11
165	3	150		C	SX,V88	7		1574	C M50 N22		11
166	3	160		BE	LVL88A	5		1581	B V04 S		11
167	3	170		B	SKIP	4		1586	B V58		12
168	3	180	VALUE	C	0&X3,SAFE	7		1590	C 0?0 N09		12
169	3	190		BU	ITER	5		1597	B X85 /		12
170	3	200		MLC	CONDNM,0&X3	7		1602	M M56 0?0	BUILD TABLE	12
171	3	220		MLC	NAME	4		1609	M M53	NAME	12
172	3	230		SBR	X3	4		1613	H 099		12
173	3	240		B	GETX	4		1617	B 335		12
174	3	250		DCW	LIT1	3		1623	M59		13
175	4	010			EOJ	3		1626	M11		13
176	4	020	VALUE1	B	GETSX	4		1627	B P59		13
177	4	030		C	SX,VTHRU	7		1631	C M50 N28		13
178	4	040		BE	THRU	5		1638	B X27 S		13
179	4	050		MLC	VEQUAL,0&X3	7		1643	M N31 0?0	EQUAL	13
180	4	060		MLC	LIT1	4		1650	M M59	LITERAL	13
181	4	070		SBR	X3	4		1654	H 099		14
182	4	080	VALUE2	BWZ	ORTEST,SX-1,2	8		1658	V W70 M49 2		14
183	4	090		B	NOTLIT	4		1666	B W86		14
184	4	100	ORTEST	BWZ	OR,SX-2,S	8		1670	V X05 M48 S		14
185	4	110		BWZ	OR,SX,K	8		1678	V X05 M50 K		14
186	4	120	NOTLIT	MLC	@)@,0&X3	7		1686	M R49 0?0		14
187	4	130		MLCWA	@|@	4		1693	L R50		15
188	4	140		SBR	X3	4		1697	H 099	DESCRIPTION	15
189	4	150		B	LEVEL2	4		1701	B U36		15
190	4	160	OR	MLC	VOR,0&X3	7		1705	M N34 0?0	OR	15
191	4	170		SBR	X3	4		1712	H 099		15
192	4	180		MLC	SX,LIT1	7		1716	M M50 M59		15
193	4	190		B	VALUE1	4		1723	B W27		15
194	4	200	THRU	B	GETSX	4		1727	B P59		16
195	4	210		MLC	VGE,0&X3	7		1731	M N37 0?0		16
196	4	220		MLC	LIT1	4		1738	M M59		16
197	4	230		MLC	VAND	4		1742	M N40		16

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
198	4	240		MLC	VLE		4	1746	M N43		16
199	4	250		MLC	SX		4	1750	M M50		16
200	5	010		SBR	X3		4	1754	H 099		16
201	5	020		B	GETSX		4	1758	B P59		17
202	5	030		B	VALUE2		4	1762	B W58		17
203	5	040	EOFDD	B	PUTX		4	1766	B 363		17
204	5	050		DCW	NAME		3	1772	M53		17
205	5	060		B	OUTST		4	1773	B Q60		17
206	5	070		B	PUTSX		4	1777	B P77		17
207	5	080		B	STRT3		4	1781	B T74		17
208	5	090	ITER	B	PUTX		4	1785	B 363		18
209	5	100		DCW	VITOP		3	1791	N64		18
210	5	110		MLC	@1@,ITSW		7	1792	M R51 N10		18
211	5	120		B	PUTX		4	1799	B 363		18
212	5	130		DCW	NAME		3	1805	M53		18
213	5	140		B	OUTST		4	1806	B Q60		18
214	5	150		B	PUTSX		4	1810	B P77		18
215	5	160		B	GTPTIL		4	1814	B P92		19
216	5	170		DCW	VPROC		3	1820	N16		19
217	5	180	PROCD	B	PUTSX	PROCEDURE DIVISION	4	1821	B P77		19
218	5	190	PROC1	B	GETSX		4	1825	B P59		19
219	5	200	PROC2	B	PUTSX		4	1829	B P77		19
220	5	210		C	SX,VIF		7	1833	C M50 N46		19
221	5	220		BE	CONDEX		5	1840	B Y57 S		19
222	5	230		C	SX,VUNTIL		7	1845	C M50 N49		20
223	5	240		BU	PROC1		5	1852	B Y25 /		20
224	5	250	CONDEX	B	GETSX	CONDITIONAL EXPRESSION	4	1857	B P59		20
225	6	010	CEX0	C	SX-2,@A@		7	1861	C M48 R52		20
226	6	020		BH	NOO		5	1868	B Y89 U		20
227	6	030		C	SX-2,@I@		7	1873	C M48 R53		20
228	6	040		BL	NOTFND		5	1880	B !67 T		21
229	6	050		B	CEX2		4	1885	B !17		21
230	6	060	NOO	BCE	NOTFND,SX-2,	OPERATOR TEST	8	1889	B !67 M48		21
231	6	070		C	SX,VPRD		7	1897	C M50 N19		21
232	6	080		BE	PROCD	END OF COND. EXP.	5	1904	B Y21 S		21
233	6	090		C	SX,VSW		7	1909	C M50 N52		21
234	6	100		BU	CEX1		5	1916	B Z37 /		22
235	6	110		B	PUTSX		4	1921	B P77		22
236	6	120		B	GETSX		4	1925	B P59		22
237	6	130		B	PUTSX		4	1929	B P77		22
238	6	140		B	CONDEX		4	1933	B Y57		22
239	6	150	CEX1	BCE	NOTFND,SX-2,.	RELATIONAL TEST	8	1937	B !67 M48 .		22
240	6	160		BCE	NOTFND,SX-2,\$	LOG./CLASS/SIGN/RELATIONAL TEST	8	1945	B !67 M48 \$		22
241	6	170	DIAGSW	NOP	DGNSTC		4	1953	N Z61		23
242	6	180		B	PROC2		4	1957	B Y29		23
243	6	190	DGNSTC	MLC	@N@,DIAGSW		7	1961	M R54 Z53		23
244	6	200		MLC	&FST,DGPTSY		7	1968	M R57 Z81		23
245	6	210	DGPT	B	PUTX		4	1975	B 363		23
246	6	220	DGPTSY	DCW	*		3	1981	Z81		23
247	6	230		C	DGPTSY,&ENDED		7	1982	C Z81 R60		23

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
248	6	240		BE	PROCD		5	1989	B Y21 S		24
249	6	250		A	&3,DGPTSY		7	1994	A R61 Z81		24
250	7	010		B	DGPT		4	2001	B Z75		24
251	7	020	FST	DCW	@#DC@		3	2007			24
252	7	030	ENDED	DC	@***C0A#DC@		9	2016			24
253	7	040	CEX2	MLC	TBARG,X2	LOOK-UP	7	2017	M M47 094		24
254	7	050	CEX3	C	X2,X3		7	2024	C 094 099		25
255	7	060		BE	NOTFND		5	2031	B !67 S		25
256	7	070		C	0&X2,SX		7	2036	C 0!0 M50		25
257	7	080		SAR	X2		4	2043	Q 094		25
258	7	090		BE	FOUND		5	2047	B !75 S		25
259	7	100		MLC	0&X2,0&X2		7	2052	M 0!0 0!0		25
260	7	110		SBR	X2		4	2059	H 094		25
261	7	120		B	CEX3		4	2063	B !24		26
262	7	130	NOTFND	B	PUTSX		4	2067	B P77		26
263	7	140		B	CONDEX		4	2071	B Y57		26
264	7	150	FOUND	MLC	@ %@,SX		7	2075	M R64 M50		26
265	7	151		B	PUTSX		4	2082	B P77		26
266	7	152		B	GETX		4	2086	B 335		26
267	7	160		DCW	SYM		3	2092	K67		26
268	7	170			EOJ		3	2095	M11		27
269	7	180		BCE	GTSBSC,SYM,%	BRANCH IF SUBSCRIPTED	8	2096	B K71 K67 %		27
270	7	190	FOUND1	BCE	FOUND4,0&X2,|	BRANCH IF EQUATION FINISHED	8	2104	B J53 0!0 |		27
271	7	200		MLC	0&X2,SX		7	2112	M 0!0 M50		27
272	7	210		SAR	X2		4	2119	Q 094		27
273	7	220		B	PUTSX	CURRENT SYMBOL OF EQUATION	4	2123	B P77		27
274	7	230	FOUND3	NOP	FOUND2	OFF ONLY FOR FIRST SYMBOL	4	2127	N J45		27
275	7	240		MLC	@B@,FOUND3		7	2131	M R65 J27		28
276	7	250		MLC	SX,NAME1	SAVE CONDITIONAL VARIABLE	7	2138	M M50 K70		28
277	8	010	FOUND2	NOP	CVTEST	ON IF COND.NAME IS SUBSCRIPTED	4	2145	N L45		28
278	8	020		B	FOUND1		4	2149	B J04		28
279	8	030	FOUND4	MLC	@N@,FOUND3	REINITIALIZATION	7	2153	M R54 J27		28
280	8	040		MLC	@N@,FOUND2		7	2160	M R54 J45		28
281	8	050		MLC	SYM,SX	FIRST-NON-SUBSCRIPTED SYMBOL	7	2167	M K67 M50		29
282	8	060	FOUND5	BCE	CEX0,SX-2,)		8	2174	B Y61 M48)		29
283	8	070		C	SX,@*22@		7	2182	C M50 R68		29
284	8	080		BE	CEX0		5	2189	B Y61 S		29
285	8	090		C	SX,@\$31@		7	2194	C M50 R71		29
286	8	100		BE	CEX0		5	2201	B Y61 S		29
287	8	110		C	SX,@\$32@		7	2206	C M50 R74		30
288	8	120		BE	CEX0		5	2213	B Y61 S		30
289	8	130		C	SX,@*25@		7	2218	C M50 R77		30
290	8	140		BE	CEX0		5	2225	B Y61 S		30
291	8	150		C	SX,VPRD		7	2230	C M50 N19		30
292	8	160		BE	PROCD		5	2237	B Y21 S		30
293	8	161		BCE	CEX0,SX-2,		8	2242	B Y61 M48		31
294	8	170		MLC	@B@,DIAGSW		7	2250	M R65 Z53		31
295	8	180		B	GETSX		4	2257	B P59		31
296	8	190		B	FOUND5		4	2261	B J74		31
297	8	200	SYM	DCW	#3		3	2267			31

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
298	8	210	NAME1	DCW	#3		3	2270			31
299	8	220	GTSBSC	MLC	BGNST,ENDST		7	2271	M N58 N61		31
300	8	230		MLC	@000@,WORKST		7	2278	M R80 R93		32
301	8	240		MLC	@|@,RM		7	2285	M R50 R97		32
302	8	250	GTSB01	B	ADSL		4	2292	B N65		32
303	9	010		DCW	WORKST		3	2298	R93		32
304	9	020			SYM		3	2301	K67		32
305	9	030		BCE	GTSB02,SYM,)		8	2302	B L24 K67)		32
306	9	040		B	GETX		4	2310	B 335		32
307	9	050		DCW	SYM		3	2316	K67		33
308	9	060			EOJ		3	2319	M11		33
309	9	070		B	GTSB01		4	2320	B K92		33
310	9	080	GTSB02	MLC	@B@,FOUND2		7	2324	M R65 J45		33
311	9	090		B	GETX		4	2331	B 335		33
312	9	100		DCW	SYM		3	2337	K67		33
313	9	110			EOJ		3	2340	M11		33
314	9	120		B	FOUND1		4	2341	B J04		34
315	9	130	CVTEST	C	SX,NAME1		7	2345	C M50 K70		34
316	9	140		BU	FOUND1		5	2352	B J04 /		34
317	9	150		MLC	&RM2,CVSX		7	2357	M R83 L77		34
318	9	160		MLC	@000@,CVCNTR		7	2364	M R80 M10		34
319	9	170	CV01	B	PUTX		4	2371	B 363		34
320	9	180	CVSX	DCW	*		3	2377	L77		34
321	9	190		A	&3,CVCNTR		7	2378	A R61 M10		35
322	9	200		A	&3,CVSX		7	2385	A R61 L77		35
323	9	210		C	CVCNTR,WORKST		7	2392	C M10 R93		35
324	9	220		BU	CV01		5	2399	B L71 /		35
325	9	230		B	FOUND1		4	2404	B J04		35
326	9	240	CVCNTR	DCW	#3		3	2410			35
327	9	250	RM2	EQU	RM&2			2999			
328	10	010	EOJ	B	PUTSX		4	2411	B P77		35
329	10	020		BCE	START,ITSW,1		8	2415	B T06 N10 1		36
330	10	030		BCE	EOJ1,DATAV,0		8	2423	B M38 T05 0		36
331	10	040		B	SUPER		4	2431	B 351		36
332	10	050		DCW	@C03@		3	2437			36
333	10	060	EOJ1	B	SUPER		4	2438	B 351		36
334	10	070		DCW	@D01@		3	2444			36
335	10	080	TBARG	DCW	GM		3	2447	G98		36
336	10	090	SX		#3		3	2450			37
337	10	100	NAME		#3		3	2453			37
338	10	110	CONDNM		#3		3	2456			37
339	10	120	LIT1		#3		3	2459			37
340	10	130	SAFE		#50		50	2509			39
341	10	140	ITSW		@0@		1	2510			39
342	10	150	VLV		@.LV@		3	2513			39
343	10	160	VPROC		@*01@		3	2516			39
344	10	170	VPRD		@.PD@		3	2519			39
345	10	180	V88		@088@		3	2522			40
346	10	190	VVALUE		@/13@		3	2525			40
347	10	200	VTHRU		@*08@		3	2528			40

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
348	10	210	VEQUAL		@ #@		3	2531			40
349	10	220	VOR		@\$31@		3	2534			40
350	10	230	VGE		@.GE@		3	2537			40
351	10	240	VAND		@\$32@		3	2540			40
352	10	250	VLE		@.LE@		3	2543			41
353	11	010	VIF		@)19@		3	2546			41
354	11	020	VUNTIL		@*18@		3	2549			41
355	11	030	VSW		@.SW@		3	2552			41
356	11	040	FIRST		RM&2		3	2555	R99		41
357	11	050	BGNST		RM		3	2558	R97		41
358	11	060	ENDST		RM		3	2561	R97		41
359	11	070	VITOP	DCW	@.IT@		3	2564			42
360	11	080	ADSL	SBR	X1		4	2565	H 089		42
361	11	090		SBR	ADSL5&3,6&X1	FIX EXIT	7	2569	H 081 0|6		42
362	11	100		MLC	2&X1,ADSL1	STRING 1	7	2576	M 0|2 0|0		42
363	11	110		MLC	ADSL1,ADSL4&6	STRING1	7	2583	M 0|0 0|0		42
364	11	120		MLC	5&X1,ADSL3&3	SYMBOL	7	2590	M 0|5 0|5		42
365	11	130		A	@003@,ADSL1		7	2597	A R86 0|0		43
366	11	140		B	LCST	LOCATE FIRST OF NEXT STRING	4	2604	B 082		43
367	11	150	ADSL1	DCW	#3		3	2610			43
368	11	160			LOCTN		3	2613	P58		43
369	11	170		MLC	ENDST,X1	SET OPENER	7	2614	M N61 089		43
370	11	180		SBR	ADSL2&3,0&X1		7	2621	H 049 0|0		43
371	11	190		SBR	ADSL2&6,3&X1		7	2628	H 052 0|3		43
372	11	200		MLC	LOCTN,X1		7	2635	M P58 089		44
373	11	210		SW	0&X1		4	2642	, 0|0		44
374	11	220	ADSL2	MLC	0,0	OPEN STRING AREA	7	2646	M 000 000		44
375	11	230	ADSL3	MLC	0,2&X1		7	2653	M 000 0|2		44
376	11	240		CW	0&X1		4	2660	) 0|0		44
377	11	250	ADSL4	A	@003@,0	INCREMENT NORM	7	2664	A R86 000		44
378	12	010		A	@003@,ENDST		7	2671	A R86 N61		45
379	12	020	ADSL5	B	0	EXIT	4	2678	B 000		45
380	12	030	*		LOCATION GIVEN IS LEFT	END CHARACTER					
381	12	040	LCST	SBR	X1		4	2682	H 089		45
382	12	050		MLC	2&X1,*&4	SET ADDER	7	2686	M 0|2 096		45
383	12	060		MLC	0,LOCTN		7	2693	M 000 P58		45
384	12	070		SAR	LCST2&3		4	2700	Q P44		45
385	12	080		MLC	BGNST,LOCTN	INITIALIZE COUNTER	7	2704	M N58 P58		46
386	12	090	LCST1	C	LCST2&3,&BGNLC	TEST FOR END	7	2711	C P44 R89		46
387	12	100		BU	LCST2		5	2718	B P41 /		46
388	12	110		MLC	5&X1,*&7		7	2723	M 0|5 P36		46
389	12	120		MLC	LOCTN,*		7	2730	M P58 P36		46
390	12	130		B	6&X1		4	2737	B 0|6		46
391	12	140	LCST2	A	0,LOCTN	ADDER	7	2741	A 000 P58		47
392	12	150		SAR	LCST2&3	DECREMENT ADDER	4	2748	Q P44		47
393	12	160		B	LCST1		4	2752	B P11		47
394	12	170	LOCTN	DCW	#3	LOCATION OF STRING	3	2758			47
395	12	180	GETSX	SBR	GTSEX&3	GETSX	4	2759	H P76		47
396	12	190		B	GETX		4	2763	B 335		47
397	12	200		DCW	&SX		3	2769	M50		47

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
398	12	210			&EOJ		3	2772	M11		48
399	12	220	GTSEX	B	*		4	2773	B P76		48
400	12	230	PUTSX	SBR	PTSEX&3	PUTSX	4	2777	H P91		48
401	12	240		B	PUTX		4	2781	B 363		48
402	12	250		DCW	&SX		3	2787	M50		48
403	13	010	PTSEX	B	*		4	2788	B P91		48
404	13	020	GTPTIL	SBR	X1	GTPTIL	4	2792	H 089		48
405	13	030		MLC	@P@,GTPSW		7	2796	M R90 Q59		49
406	13	040	GTL01	MLC	X1,GTLV		7	2803	M 089 Q58		49
407	13	050		MLC	2&X1,GTL03&3		7	2810	M 0|2 Q24		49
408	13	060	GTL02	B	GETSX		4	2817	B P59		49
409	13	070	GTL03	C	*,SX		7	2821	C Q27 M50		49
410	13	080		BE	GTL04		5	2828	B Q45 S		49
411	13	090		BCE	PUTSX,GTPSW,P		8	2833	B P77 Q59 P		50
412	13	100		B	GTL02		4	2841	B Q17		50
413	13	110	GTL04	MLC	GTLV,X1		7	2845	M Q58 089		50
414	13	120		B	3&X1		4	2852	B 0|3		50
415	13	130	GTLV	DCW	#3		3	2858			50
416	13	140	GTPSW		#1		1	2859			50
417	13	150	OUTST	SBR	OUTSEX&3		4	2860	H R35		50
418	13	160		MLC	FIRST,OUTCNT		7	2864	M N55 R38		51
419	13	170	OUTS01	MLC	OUTCNT,*&4		7	2871	M R38 Q81		51
420	13	180		MLC	*,OUTSYM		7	2878	M Q84 R41		51
421	13	190		BCE	DONE,OUTSYM-2,|		8	2885	B R11 R39 |		51
422	13	200		B	PUTX		4	2893	B 363		51
423	13	210		DCW	OUTSYM		3	2899	R41		51
424	13	220		A	&3,OUTCNT		7	2900	A R61 R38		52
425	13	230		B	OUTS01		4	2907	B Q71		52
426	13	240	DONE	MLC	BGNST,ENDST		7	2911	M N58 N61		52
427	13	250		MLC	NULL,WORKST		7	2918	M R96 R93		52
428	14	010		MLC	@|@,RM		7	2925	M R50 R97		52
429	14	020	OUTSEX	B	*		4	2932	B R35		52
430	14	030	OUTCNT	DCW	#3		3	2938			52
431	14	040	OUTSYM	DCW	#3		3	2941			53
432	14	050	LTORG						2942		
				DCW	@0@		1	2942		LIT	53
					@ @		3	2945		LIT	53
					&1		1	2946		LIT	53
					@)@		3	2949		LIT	53
					@|@		1	2950		LIT	53
					@1@		1	2951		LIT	53
					@A@		1	2952		LIT	54
					@I@		1	2953		LIT	54
					@N@		1	2954		LIT	54
	244				&FST		3	2957	!07	ADCON	54
	247				&ENDED		3	2960	!16	ADCON	54
					&3		1	2961		LIT	54
					@ %@		3	2964		LIT	54
					@B@		1	2965		LIT	55
					@*22@		3	2968		LIT	55

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
					@\$31@	3		2971		LIT	55
					@\$32@	3		2974		LIT	55
					@*25@	3		2977		LIT	55
					@000@	3		2980		LIT	55
		317			&RM2	3		2983	R99	ADCON	55
					@003@	3		2986		LIT	56
		386			&BGNLC	3		2989	R90	ADCON	56
					@P@	1		2990		LIT	56
433	14	060	BGNLC	EQU	*			2990			
434	14	070	WORKST	DCW	@000@	3		2993			56
435	14	080	NULL		@000@	3		2996			56
436	14	090	RM	DC	@|@	1		2997			56
437	14	100		ORG	3798				3798		
438	14	110	GM	DCW	@}@	1		3798			57
439	14	120		END	START				/ T06 080		58

CLEAR STORAGE 1 ,008015,019026,030,034041,045,053,0570571026 1
 CLEAR STORAGE 2 L068112,102106,113/101099/I99,027A070028)027B0010270B0261,001/001113I0 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	010	000	JOB	1401 COBOL - C03						
102	1	020		CTL	631 11						
103	1	030		ORG	1304				1304		
104	1	040	ITERSW	EQU	1303			1303			
105	1	050	NEXTAN	EQU	1302			1302			
106	1	060	X1	EQU	89			0089			
107	1	070	X2	EQU	94			0094			
108	1	080	X3	EQU	99			0099			
109	1	090	PUTX	EQU	363			0363			
110	1	100	GETX	EQU	335			0335			
111	1	110	SUPER	EQU	351			0351			
112	1	120		MLC	@0@, ITERSW	7		1304	M Z00	T03	4
113	1	130	START	MLC	@G98@, X3	7		1311	M Z03	099	4
114	1	140		MLC	@G98@, X2	7		1318	M Z03	094	4
115	1	150		MLC	ITERSW, ITERSV	7		1325	M T03	X08	4
116	1	160		BCE	START1, ITERSW, 0	8		1332	B T47	T03 0	4
117	1	170	START0	B	GTPTIL	4		1340	B Y32		5
118	1	180		DCW	VITER	3		1346	X98		5
119	1	190	START1	B	GTPTIL	4		1347	B Y32		5
120	1	200		DCW	VLV	3		1353	X74		5
121	1	210		B	PUTSX	4		1354	B Y17		5
122	1	220	STRTO	B	GETSX	4		1358	B X99		5
123	1	230		B	PUTSX	4		1362	B Y17		5
124	1	240		B	GETX	4		1366	B 335		6
125	1	250		DCW	NAME	3		1372	X80		6
126	2	010			EOJ	3		1375	W35		6
127	2	020		B	PUTX	4		1376	B 363		6
128	2	030		DCW	NAME	3		1382	X80		6
129	2	040	STRT1	B	GETSX	4		1383	B X99		6
130	2	050		C	SX, VVALUE	7		1387	C X77	X83	6
131	2	060		BE	VALUE	5		1394	B U84	S	7
132	2	070		C	SX, VPRD	7		1399	C X77	X86	7
133	2	080		BE	EODD	5		1406	B U19	S	7
134	2	090		B	PUTSX	4		1411	B Y17		7
135	2	100		B	STRT1	4		1415	B T83		7
136	2	110	EODD	B	EODDA	4		1419	B U44		7
137	2	120		MLC	@B@, EODD	7		1423	M Z04	U19	7
138	2	130		B	PUTX	4		1430	B 363		8
139	2	140		DCW	VNM	3		1436	X71		8
140	2	150		B	PUTX	4		1437	B 363		8
141	2	160		DCW	NAME	3		1443	X80		8
142	2	170	EODDA	B	PUTSX	4		1444	B Y17		8
143	2	180		B	GETSX	4		1448	B X99		8
144	2	190	EODD1	B	PUTSX	4		1452	B Y17		8
145	2	200		C	SX, VPROC	7		1456	C X77	X89	9
146	2	210		BE	PROCD	5		1463	B V91	S	9
147	2	220		C	SX, VLV	7		1468	C X77	X74	9

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	2	230		BE	STRT0		5	1475	B T58	S	9
149	2	240		B	START1		4	1480	B T47		9
150	2	250	VALUE	B	GETSX	GET NAME OF LITERAL	4	1484	B X99		9
151	3	010		C	NAME,@ @		7	1488	C X80	Z07	9
152	3	020		BE	VALUE2		5	1495	B V66	S	10
153	3	030	VALUE1	MLCWA	SX,0&X3	SAVE LITERAL	7	1500	L X77	0?0	10
154	3	040		MLCWA	NAME	SAVE NAME IN TABLE	4	1507	L X80		10
155	3	050		SBR	X3	UPDATE POINTER	4	1511	H 099		10
156	3	060		C	0&X3,@ @		7	1515	C 0?0	Z13	10
157	3	070		BE	STRT1		5	1522	B T83	S	10
158	3	080		A	&1,ITERSW		7	1527	A Z14	T03	10
159	3	081		B	PUTX		4	1534	B 363		11
160	3	082		DCW	VNM		3	1540	X71		11
161	3	083		B	PUTX		4	1541	B 363		11
162	3	084		DCW	NAME		3	1547	X80		11
163	3	090		B	PUTX		4	1548	B 363		11
164	3	100		DCW	VITER		3	1554	X98		11
165	3	110		B	GTPTIL		4	1555	B Y32		11
166	3	120		DCW	VPROC		3	1561	X89		12
167	3	130		B	EODD1		4	1562	B U52		12
168	3	140	VALUE2	MLC	NEXTAN,NAME	USE NEXT-AVAILABLE-NAME	7	1566	M T02	X80	12
169	3	150		A	&1,NEXTAN	UPDATE NEXT-AVAILABLE-NAME	7	1573	A Z14	T02	12
170	3	160		MLC	@N@,EODD		7	1580	M Z15	U19	12
171	3	170		B	VALUE1		4	1587	B V00		12
172	3	180	PROCD	C	ITERSV,@0@		7	1591	C X08	Z00	12
173	3	190		BU	CHKSWI		5	1598	B W97	/	13
174	3	200		B	GETSX		4	1603	B X99		13
175	3	210		B	PUTSX		4	1607	B Y17		13
176	3	220		B	GETSX		4	1611	B X99		13
177	3	230		B	PUTSX		4	1615	B Y17		13
178	3	240	PROCAA	B	PURGE		4	1619	B X09		13
179	3	250	PROC1	B	GETSX		4	1623	B X99		13
180	4	010		B	PUTSX		4	1627	B Y17		14
181	4	020		B	PROC1		4	1631	B W23		14
182	4	030	EOJ	B	PUTSX		4	1635	B Y17		14
183	4	040		C	ITERSW,ITERSV		7	1639	C T03	X08	14
184	4	050		BE	EOJ2		5	1646	B W90	S	14
185	4	060		BCE	EOJ2,ITERSW,0		8	1651	B W90	T03 0	14
186	4	070		MLC	@G98@,X3		7	1659	M Z03	099	14
187	4	080		SW	VXFR&300		4	1666	, !95		15
188	4	090	EOJ1	CS	0&X3		4	1670	/ 0?0		15
189	4	100		SBR	X3		4	1674	H 099		15
190	4	110		BW	EOJ1,VXFR&300		8	1678	V W70	!95 1	15
191	4	120		B	START		4	1686	B T11		15
192	4	130	EOJ2	B	SUPER		4	1690	B 351		15
193	4	140		DCW	@D01@		3	1696			15
194	4	150	CHKSWI	B	GTPTIL		4	1697	B Y32		16
195	4	160		DCW	VXFR		3	1703	X95		16
196	4	170		B	PROCAA		4	1704	B W19		16
197	4	180	ITERSV	DCW	#1		1	1708			16

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
198	4	190	PURGE	B	PUTX		4	1709	B 363		16
199	4	200		DCW	VMOVE		3	1715	X92		16
200	4	210		MLC	0&X2, SX		7	1716	M 0|0 X77		16
201	4	220		SAR	X2		4	1723	Q 094		17
202	4	230		B	PUTSX		4	1727	B Y17		17
203	4	240		MLC	0&X2, SX		7	1731	M 0|0 X77		17
204	4	250		SAR	X2		4	1738	Q 094		17
205	5	010		B	PUTSX		4	1742	B Y17		17
206	5	020		C	X2, X3		7	1746	C 094 099		17
207	5	030		BU	PURGE		5	1753	B X09 /		17
208	5	040		B	PUTX		4	1758	B 363		18
209	5	050		DCW	VXFR	.XF	3	1764	X95		18
210	5	060		B	PROC1		4	1765	B W23		18
211	5	070	VNM	DCW	@.NM@		3	1771			18
212	5	080	VLV	DCW	@.LV@		3	1774			18
213	5	090	SX		#3		3	1777			18
214	5	100	NAME		#3		3	1780			18
215	5	110	VVALUE		@/13@		3	1783			19
216	5	120	VPRD		@.PD@		3	1786			19
217	5	130	VPROC		@*01@		3	1789			19
218	5	140	VMOVE		@)15@		3	1792			19
219	5	150	VXFR		@.XF@		3	1795			19
220	5	160	VITER		@.IT@		3	1798			19
221	5	170	GETSX	SBR	GTSEX&3	GETSX	4	1799	H Y16		19
222	5	180		B	GETX		4	1803	B 335		20
223	5	190		DCW	&SX		3	1809	X77		20
224	5	200			&EOJ		3	1812	W35		20
225	5	210	GTSEX	B	*		4	1813	B Y16		20
226	5	220	PUTSX	SBR	PTSEX&3	PUTSX	4	1817	H Y31		20
227	5	230		B	PUTX		4	1821	B 363		20
228	5	240		DCW	&SX		3	1827	X77		20
229	5	250	PTSEX	B	*		4	1828	B Y31		21
230	6	010	GTPTIL	SBR	X1	GTPTIL	4	1832	H 089		21
231	6	020		MLC	@P@, GTPSW		7	1836	M Z16 Y99		21
232	6	030	GTL01	MLC	X1, GTLSV		7	1843	M 089 Y98		21
233	6	040		MLC	2&X1, GTL03&3		7	1850	M 0|2 Y64		21
234	6	050	GTL02	B	GETSX		4	1857	B X99		21
235	6	060	GTL03	C	*, SX		7	1861	C Y67 X77		22
236	6	070		BE	GTL04		5	1868	B Y85 S		22
237	6	080		BCE	PUTSX, GTPSW, P		8	1873	B Y17 Y99 P		22
238	6	090		B	GTL02		4	1881	B Y57		22
239	6	100	GTL04	MLC	GTLSV, X1		7	1885	M Y98 089		22
240	6	110		B	3&X1		4	1892	B 0|3		22
241	6	120	GTLSV	DCW	#3		3	1898			22
242	6	130	GTPSW		#1		1	1899			23
243	6	140		LTOrg					1900		
				DCW	@0@		1	1900		LIT	23
					@G98@		3	1903		LIT	23
					@B@		1	1904		LIT	23
					@ @		3	1907		LIT	23

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
		156			@ @						
					&1	6		1913		LIT	23
					@N@	1		1914		LIT	23
					@P@	1		1915		LIT	24
						1		1916		LIT	24
244	6	150		ORG	3798				3798		
245	6	160		DCW	@}@	1		3798			25
246	6	170		END	START				/ T11 080		26

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CLEAR STORAGE 1 ,008015,019026,030,034041,045,053,0570571026 1
CLEAR STORAGE 2 L068112,102106,113/101099/I99,027A070028)027B0010270B0261,001/001113I0 2
BOOTSTRAP ,008015,022029,036040,047054,061068,072/061039 ,0010011040 3

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1401 COBOL - D01 PAGE 1

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
101	1	010	000	JOB	1401 COBOL - D01						
102	1	020		CTL	631 11						
103	1	030	X1	EQU	89			0089			
104	1	040	X2	EQU	94			0094			
105	1	050	X3	EQU	99			0099			
106	1	060	GETX	EQU	335			0335			
107	1	070	IORW	EQU	343			0343			
108	1	080	SUPER	EQU	351			0351			
109	1	090	DUMP	EQU	359			0359			
110	1	100	PUTX	EQU	363			0363			
111	1	110	CONST	EQU	188			0188			
112	1	120	SCRBKT	EQU	1126			1126			
113	1	130		ORG	1303				1303		
114	1	140	HOWBIG	DCW	#3		3	1305			4
115	1	150	NXTNAM	EQU	1302			1302			
116	1	160		SW	GRPMK		4	1306	, C46		4
117	1	170	GMADDR	EQU	*			1309			
118	1	180		BCE	AA0,SCRBKT,4		8	1310	B T25 /26 4		4
119	1	190		MLC	&TBR4K,TBLNM&6		7	1318	M ?37 Z98		4
120	1	200	AA0	MLC	TBLNM&6,HOWBIG		7	1325	M Z98 T05		4
121	1	210	AA1	B	SRSKIP		4	1332	B Q12		4
122	1	220	AA5	B	SRGET		4	1336	B Q40		4
123	1	230	AA5A	B	SRPUT		4	1340	B Q58		5
124	1	240		C	SX,LEVELI		7	1344	C R95 R65		5
125	1	250		BE	BB1	HANDLE ENTRY	5	1351	B U44 S		5
126	2	010		MLC	@0@,NOWMSW	RESET NOWMSW	7	1356	M ?38 R76		5
127	2	020		C	SX,@/01@	WORKING-STORAGE	7	1363	C R95 ?41		5
128	2	030		BE	AA4		5	1370	B U33 S		5
129	2	040		C	SX,@/09@	CONSTANTS	7	1375	C R95 ?44		6
130	2	050		BE	AA4		5	1382	B U33 S		6
131	2	060		C	SX,PROCI	PROCEDURE	7	1387	C R95 R62		6
132	2	070		BE	EOJRT		5	1394	B !07 S		6
133	2	080		C	SX,@/26@	FD	7	1399	C R95 ?47		6
134	2	090		BE	SETFD		5	1406	B U15 S		6
135	2	100		B	AA1		4	1411	B T32		7
136	2	110	SETFD	MLC	NULL,O1CONT		7	1415	M R74 ?63		7
137	2	120		MLC	@1@,FILESW		7	1422	M ?48 R75		7
138	2	130		B	AA1		4	1429	B T32		7
139	2	140	AA4	MLC	NULL,FILESW		7	1433	M R74 R75		7
140	2	150		B	AA1		4	1440	B T32		7
141	2	160	BB1	B	GETX		4	1444	B 335		7
142	2	170	BB1A	DCW	SXSAV2		3	1450	?34		8
143	2	180	BB1B	DCW	ERR		3	1453	Q80		8
144	2	190	BB2	B	PUTX	HANDLE ENTRY	4	1454	B 363		8
145	2	200		DCW	SXSAV2		3	1460	?34		8
146	2	210		MLC	SXSAV2,LVL#3		7	1461	M ?34 ?51		8
147	2	220		C	LVL,@001@		7	1468	C ?51 ?54		8

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	2	230		BU	BB3		5	1475	B V33 /		8
149	2	240		MLC	@0@,NOWMSW	RESET NOWMSW	7	1480	M ?38 R76		9
150	2	250		B	SRGET		4	1487	B Q40		9
151	3	010		C	SX,@ @		7	1491	C R95 ?57		9
152	3	020		BE	BB2C		5	1498	B W15 S		9
153	3	030	BB2D	B	SRPUT		4	1503	B Q58		9
154	3	040		C	O1CONT,NULL		7	1507	C ?63 R74		9
155	3	050		BE	BB2A		5	1514	B W04 S		9
156	3	060	BB2B	MLC	SX,O1NAME#3		7	1519	M R95 ?60		10
157	3	070		A	@1@,O1CONT#3		7	1526	A ?48 ?63		10
158	3	080	BB3	B	SRGET		4	1533	B Q40		10
159	3	090		C	SX,PICTI	PICTURE	7	1537	C R95 R68		10
160	3	100		BE	PICTUR		5	1544	B !50 S		10
161	3	110		C	SX,PERIOD		7	1549	C R95 R71		10
162	3	120		BE	PERDRT		5	1556	B X02 S		11
163	3	130		C	SX,@/14@	OCCURS	7	1561	C R95 ?66		11
164	3	140		BE	OCCURS		5	1568	B W87 S		11
165	3	150		C	SX,@/05@	REDEFINES	7	1573	C R95 ?69		11
166	3	160		BE	REDEF		5	1580	B W33 S		11
167	3	170		B	SRPUT		4	1585	B Q58		11
168	3	180		B	BB3		4	1589	B V33		11
169	3	190	BB4	MLC	@1@,EDCLSW	SET EDIT CLAUSE SW	7	1593	M ?48 R78		12
170	3	200		B	BB3		4	1600	B V33		12
171	3	210	BB2A	MLC	SX,NAMSAV#3		7	1604	M R95 ?72		12
172	3	220		B	BB2B		4	1611	B V19		12
173	3	230	BB2C	MLC	NXTNAM,SX		7	1615	M T02 R95		12
174	3	240		A	@1@,NXTNAM		7	1622	A ?48 T02		12
175	3	250		B	BB2D		4	1629	B V03		13
176	4	010	REDEF	B	SRPUT	REDEFINES	4	1633	B Q58		13
177	4	020		MLC	@1@,NOWMSW		7	1637	M ?48 R76		13
178	4	030		C	LVL,@001@		7	1644	C ?51 ?54		13
179	4	040		BU	*&9		5	1651	B W64 /		13
180	4	050		BCE	BB3,FILESW,1		8	1656	B V33 R75 1		13
181	4	060		B	SRGET		4	1664	B Q40		13
182	4	070		B	SRPUT		4	1668	B Q58		14
183	4	080		MLC	&SX,X1		7	1672	M ?75 089		14
184	4	090		B	TBLSET		4	1679	B Z33		14
185	4	100		B	BB3		4	1683	B V33		14
186	4	110	OCCURS	B	SRPUT	OCCURS	4	1687	B Q58		14
187	4	120		MLC	@1@,NOWMSW		7	1691	M ?48 R76		14
188	4	130		B	BB3		4	1698	B V33		14
189	4	140	PERDRT	B	GETX		4	1702	B 335		15
190	4	150		DCW	SXSAVE		3	1708	?31		15
191	4	160		DCW	ERR		3	1711	Q80		15
192	4	170		C	SXSAVE,LEVELI		7	1712	C ?31 R65		15
193	4	180		BE	PERD1		5	1719	B X35 S		15
194	4	190	PERD3	B	PUTX		4	1724	B 363		15
195	4	200		DCW	&@#EL@	HIT VERB SO ENTRY ELEM	3	1730	?78		15
196	4	210		B	PERD2		4	1731	B X80		16
197	4	220	PERD1	B	GETX		4	1735	B 335		16

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
198	4	230		DCW	SXSAV2		3	1741	?34		16
199	4	240		DCW	ERR		3	1744	Q80		16
200	4	250		C	LVL,SXSAV2		7	1745	C ?51 ?34		16
201	5	010		BH	PERD4		5	1752	B X61 U		16
202	5	020		B	PERD3		4	1757	B X24		16
203	5	030	PERD4	C	SXSAV2,@077@		7	1761	C ?34 ?81		17
204	5	040		BE	PERD3		5	1768	B X24 S		17
205	5	050		B	PUTX		4	1773	B 363		17
206	5	060		DCW	&@#GR@		3	1779	?84		17
207	5	070	PERD2	BCE	PERD10,FILESW,1		8	1780	B Y34 R75 1		17
208	5	080	PERD7	BCE	PERD20,NOWMSW,1		8	1788	B Z18 R76 1		17
209	5	090	PERD8	B	PICANL		4	1796	B J13		17
210	5	100	PERD9	B	PUTX		4	1800	B 363		18
211	5	110		DCW	PERIOD		3	1806	R71		18
212	5	120		MLC	SXSAVE,SX		7	1807	M ?31 R95		18
213	5	130		C	SX,LEVELI		7	1814	C R95 R65		18
214	5	140		BU	AA5A	IF NOT LEVEL - BR TO ANALYZE	5	1821	B T40 /		18
215	5	150		B	SRPUT	PUT OUT LEVEL OPERATOR	4	1826	B Q58		18
216	5	160		B	BB2	BRANCH TO LEVEL ANALYSIS ROUTINE	4	1830	B U54		18
217	5	170	PERD10	C	LVL,@001@		7	1834	C ?51 ?54		19
218	5	180		BU	PERD7		5	1841	B X88 /		19
219	5	190		C	O1CONT,@002@		7	1846	C ?63 ?87		19
220	5	200		BE	PERD12		5	1853	B Y67 S		19
221	5	210		BH	PERD7		5	1858	B X88 U		19
222	5	220		B	PERD13		4	1863	B Y78		19
223	5	230	PERD12	MLC	&NAMSAV,X1		7	1867	M ?90 089		20
224	5	240		B	TBLSET		4	1874	B Z33		20
225	5	250	PERD13	BCE	PERD7,NOWMSW,1		8	1878	B X88 R76 1		20
226	6	010		B	PUTX		4	1886	B 363		20
227	6	020		DCW	&/05@	IMPLIED REDEF	3	1892	?69		20
228	6	030		B	PUTX		4	1893	B 363		20
229	6	040		DCW	&NAMSAV		3	1899	?72		20
230	6	050		MLC	@1@,NOWMSW		7	1900	M ?48 R76		21
231	6	060		MLC	O1NAME,NAMSAV		7	1907	M ?60 ?72		21
232	6	070		B	PERD7		4	1914	B X88		21
233	6	080	PERD20	MLC	&O1NAME,X1		7	1918	M ?93 089		21
234	6	090		B	TBLSET		4	1925	B Z33		21
235	6	100		B	PERD8		4	1929	B X96		21
236	6	110	*	BUILD NO	WDMK TABLE ROUTINE						
237	6	120	TBLSET	SBR	XTBLST&3		4	1933	H !06		21
238	6	130		MLC	TBLNM&6,X3		7	1937	M Z98 099		22
239	6	140		C	0&X1,3&X3		7	1944	C 0|0 0?3		22
240	6	150		BE	XTBLST	NAME ALREADY ON TABLE	5	1951	B !03 S		22
241	6	160		C	0&X1,6&X3		7	1956	C 0|0 0?6		22
242	6	170		BE	XTBLST		5	1963	B !03 S		22
243	6	180		C	0&X1,9&X3		7	1968	C 0|0 0?9		22
244	6	190		BE	XTBLST		5	1975	B !03 S		23
245	6	200		C	GMADDR,X3	TABLE OVERFLO IF PAST GM	7	1980	C T09 099		23
246	6	210		BE	ERR002		5	1987	B Q73 S		23
247	6	220	TBLNM	LCA	0&X1,TBLSTR		7	1992	L 0|0 G96		23

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
248	6	230		SBR	TBLNM&6		4	1999	H Z98		23
249	6	240	XTBLST	B	0		4	2003	B 000		23
250	6	250	EOJRT	MLC	&GRPMK,X1		7	2007	M ?96 089		23
251	7	010		B	TBLSET		4	2014	B Z33		24
252	7	020	EOJ1	B	GETX		4	2018	B 335		24
253	7	030		DCW	SX		3	2024	R95		24
254	7	040		DCW	EOJ2		3	2027	!39		24
255	7	050		B	PUTX		4	2028	B 363		24
256	7	060		DCW	SX		3	2034	R95		24
257	7	070		B	EOJ1		4	2035	B !18		24
258	7	080	EOJ2	B	SRPUT		4	2039	B Q58		25
259	7	090		B	SUPER		4	2043	B 351		25
260	7	100		DCW	@D02@		3	2049			25
261	7	110	PICTUR	MLC	PICR&1,PICR	BLANK OUT PICTURE	7	2050	M ?28 ?27		25
262	7	120	PICT1	B	SRGET		4	2057	B Q40		25
263	7	130		C	SX,PICTI		7	2061	C R95 R68		25
264	7	140		BE	BB3		5	2068	B V33 S		25
265	7	150		MLC	PICR-1,PICR	SHIFT	7	2073	M ?26 ?27		26
266	7	160		MLC	SX,PICL		7	2080	M R95 R96		26
267	7	170		BCE	PICT1,PICR&1,		8	2087	B !57 ?28		26
268	7	180		MLC	@ @,PICR&1	PICTURE TOO BIG - ERROR	7	2095	M ?97 ?28		26
269	7	190		MLC	PICR&1,PICR		7	2102	M ?28 ?27		26
270	7	200		B	ERR001		4	2109	B R25		27
271	7	210	* ANALYZE	PICTURES							
272	7	220	PICANL	BCE	PERD9,PICL,	PICL BLANK IF NO PICTURE	8	2113	B Y00 R96		27
273	7	230		MLC	NULL,X2	NITIALIZE PICTURE UNPACK ROUTIEN	7	2121	M R74 094		27
274	7	240		MLC	@ @,TIMESR		7	2128	M A01 R91		27
275	7	250		MLC	NULL,PACKSW		7	2135	M R74 R79		27
276	8	010		MLC	NULL,CLASSW	**	7	2142	M R74 R81		28
277	8	020		MLC	NULL,EDITSW	**	7	2149	M R74 R80		28
278	8	030		MLC	NULL,SIZCNT	**	7	2156	M R74 R87		28
279	8	040		MLC	&SDEC06,SDEC03&3	INITIALIZE DEC	7	2163	M A04 P74		28
280	8	050		MLC	@B@,SDEC03	**	7	2170	M A05 P71		28
281	8	060		MLC	NULL,DECSW	**	7	2177	M R74 R77		29
282	8	070		MLC	NULL,DECONT	**	7	2184	M R74 A32		29
283	8	080	PICAN1	B	SSINGL	GET ONE CHAR	4	2191	B L94		29
284	8	090	PICA10	BCE	PICAN2,PICCHAR,	END OF PICTURE IF BLANK	8	2195	B K47 R92		29
285	8	100		B	SSIZE	FIND SIZE OF PICTURE	4	2203	B O21		29
286	8	110	PICA12	B	SDECNT	CALCULATE DECIMAL COUNT	4	2207	B O49		29
287	8	120	PICA13	B	SEDCLS		4	2211	B N51		29
288	8	130	PICA14	B	PICAN1		4	2215	B J91		30
289	8	140	PICN22	S	@1@,DECONT		7	2219	S ?48 A32		30
290	8	150		MLZS	@1@,DECONT		7	2226	Y ?48 A32		30
291	8	160		MLC	@N@,PICN21		7	2233	M A06 K62		30
292	8	170		MLC	@B@,SWITCH		7	2240	M A05 R59		30
293	8	180	PICAN2	BCE	*&8,DECSW,1		8	2247	B K62 R77 1		31
294	8	190		MLC	NULL,DECONT		7	2255	M R74 A32		31
295	8	200	PICN21	NOP	PICN22		4	2262	N K19		31
296	8	210		B	PUTX		4	2266	B 363		31
297	8	220		DCW	PICTI		3	2272	R68		31

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
298	8	230		B	PUTX		4	2273	B 363		31
299	8	240		DCW	SIZCNT-3	HIGHORDER - SIZE	3	2279	R84		31
300	8	250		B	PUTX		4	2280	B 363		32
301	9	010		DCW	SIZCNT	LOW ORDER SIZE	3	2286	R87		32
302	9	020		B	PUTX		4	2287	B 363		32
303	9	030		DCW	DECONT	DECIMAL COUNT	3	2293	A32		32
304	9	040		MLC	@ 9@,SX		7	2294	M A09 R95		32
305	9	050		BCE	*&8,CLASSW,2	DETERMINE AND PUT CLASS	8	2301	B L16 R81 2		32
306	9	060		MLC	@X@,SX		7	2309	M A10 R95		32
307	9	070		B	SRPUT		4	2316	B Q58		33
308	9	080		BCE	PICAN3,EDITSW,1		8	2320	B L50 R80 1		33
309	9	090		MLC	@.KK@,SX	PUT NO EDIT SYMBOL	7	2328	M A13 R95		33
310	9	100		B	SRPUT		4	2335	B Q58		33
311	9	110	PICAN4	MLC	PICR&1,PICR	BLANK OUT PICTURE AREA	7	2339	M ?28 ?27		33
312	9	120		B	PERD9		4	2346	B Y00		33
313	9	130	PICAN3	B	PUTX		4	2350	B 363		33
314	9	140		DCW	&@ E@	YES EDIT	3	2356	A16		34
315	9	150		MLC	@002@,X2		7	2357	M ?87 094		34
316	9	160	PICA30	MLC	PICL&X2,SX		7	2364	M RR6 R95		34
317	9	170		B	SRPUT		4	2371	B Q58		34
318	9	180		BCE	PICAN4,PICL&X2,	IS PICTURE ALL OUT	8	2375	B L39 RR6		34
319	9	190		A	@003@,X2		7	2383	A A19 094		34
320	9	200		B	PICA30		4	2390	B L64		35
321	9	210	*	SSINGL	ROUTINE SUPPLIES ONE UNPACKED CHAR AT A TIME FROM PICTURE						
322	9	220	SSINGL	BCE	UNPACK,PACKSW,1		8	2394	B N11 R79 1		35
323	9	230		MLC	PICL&X2,PICCHAR		7	2402	M RR6 R92		35
324	9	240		BCE	PACKED,PICCHAR,)	IS IT RT PAREN	8	2409	B M28 R92)		35
325	9	250		A	@1@,X2		7	2417	A ?48 094		35
326	10	010	XSINGL	B	PICA10		4	2424	B J95		35
327	10	020	PACKED	A	@1@,X2	SET UP FOR UNPACKING %NN) PICT	7	2428	A ?48 094		36
328	10	030		BCE	PACKD1,PICL&X2,%	LEFT PAREN	8	2435	B M82 RR6 %		36
329	10	040		MLNS	PICL&X2,TIMESL		7	2443	D RR6 R88		36
330	10	050		MLC	TIMESR-1,TIMESR		7	2450	M R90 R91		36
331	10	060		MLC	NULL,TIMESL		7	2457	M R74 R88		36
332	10	070		B	PACKED		4	2464	B M28		37
333	10	080	PACKD2	MLC	TIMESR-1,TIMESR	SHIFT TO FILL TIMES BUCKET	7	2468	M R90 R91		37
334	10	090		MLC	NULL,TIMESL		7	2475	M R74 R88		37
335	10	100	PACKD1	BCE	PACKD2,TIMESR,		8	2482	B M68 R91		37
336	10	110		A	@1@,X2		7	2490	A ?48 094		37
337	10	120		MLC	PICL&X2,PICCHAR		7	2497	M RR6 R92		38
338	10	130		MLC	@1@,PACKSW		7	2504	M ?48 R79		38
339	10	140	UNPACK	S	@1@,TIMESR		7	2511	S ?48 R91		38
340	10	150		BWZ	XSINGL,TIMESR,B	IS TIMES BUCKET STILL PLUS	8	2518	V M24 R91 B		38
341	10	160		MLC	NULL,PACKSW	NO, RESET AND BR OUT	7	2526	M R74 R79		38
342	10	170		MLC	@ @,TIMESR		7	2533	M A01 R91		39
343	10	180		A	@1@,X2		7	2540	A ?48 094		39
344	10	190		B	SSINGL		4	2547	B L94		39
345	10	200	SEDCLS	BCE	CLASS9,PICCHAR,9	CLASS AND EDIT ROUTINE	8	2551	B O10 R92 9		39
346	10	210		BCE	CLASSX,PICCHAR,X	ALPHANUM CHAR	8	2559	B N99 R92 X		39
347	10	220		BCE	CLASSX,PICCHAR,A	ALPHA CHAR	8	2567	B N99 R92 A		40

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
348	10	230		MLC	PICCHAR,*&8		7	2575	M R92 N89		40
349	10	240		BCE	XEDCLS,@SVP@,		8	2582	B 006 A22		40
350	10	250		BCE			1	2590	B		40
351	11	010		BCE			1	2591	B		40
352	11	020		MLC	@1@,EDITSW		7	2592	M ?48 R80		40
353	11	030	CLASSX	MLC	@B@,CLASSW		7	2599	M A05 R81		40
354	11	040	XEDCLS	B	PICA14		4	2606	B K15		41
355	11	050	CLASS9	MLNS	@2@,CLASSW		7	2610	D A23 R81		41
356	11	060		B	XEDCLS		4	2617	B 006		41
357	11	070	SSIZE	MLC	PICCHAR,*&8		7	2621	M R92 O35		41
358	11	080		BCE	XSIZE,@SVP@,		8	2628	B 045 A22		41
359	11	090		BCE			1	2636	B		41
360	11	100		BCE			1	2637	B		41
361	11	110		A	@1@,SIZCNT		7	2638	A ?48 R87		42
362	11	120	XSIZE	B	PICA12		4	2645	B K07		42
363	11	130	SDECNT	BCE	SDEC04,PICCHAR,P		8	2649	B P57 R92 P		42
364	11	140		BCE	XDECNT,DECSW,1		8	2657	B P24 R77 1		42
365	11	150		BCE	SDEC01,PICCHAR,V		8	2665	B P46 R92 V		42
366	11	160		BCE	SDEC01,PICCHAR,.		8	2673	B P46 R92 .		43
367	11	170		MLC	PICCHAR,SDEC02&7		7	2681	M R92 O95		43
368	11	180	SDEC02	BCE	XDECNT,@CR0BSD@,		8	2688	B P24 A29		43
369	11	190		BCE			1	2696	B		43
370	11	200		BCE			1	2697	B		43
371	11	210		BCE			1	2698	B		43
372	11	220		BCE			1	2699	B		43
373	11	230		BCE			1	2700	B		44
374	11	240		BCE	PLSMNS,PICCHAR,&		8	2701	B P28 R92 &		44
375	11	250		BCE	PLSMNS,PICCHAR,-		8	2709	B P28 R92 -		44
376	12	010	SDEC05	A	@1@,DECONT#3		7	2717	A ?48 A32		44
377	12	020	XDECNT	B	PICA13		4	2724	B K11		44
378	12	030	PLSMNS	MLC	SWITCH,PICN21		7	2728	M R59 K62		44
379	12	040		MLC	@N@,SWITCH		7	2735	M A06 R59		45
380	12	050		B	SDEC05		4	2742	B P17		45
381	12	060	SDEC01	MLC	@1@,DECSW		7	2746	M ?48 R77		45
382	12	070		B	XDECNT		4	2753	B P24		45
383	12	080	SDEC04	MLC	@1@,DECSW		7	2757	M ?48 R77		45
384	12	090		C	SIZCNT,NULL		7	2764	C R87 R74		45
385	12	100	SDEC03	BU	SDEC06		5	2771	B P94 /		46
386	12	110		MLC	@N@,SDEC03		7	2776	M A06 P71		46
387	12	120		S	@1@,DECONT		7	2783	S ?48 A32		46
388	12	130		B	XDECNT		4	2790	B P24		46
389	12	140	SDEC06	MLC	SIZCNT,DECONT		7	2794	M R87 A32		46
390	12	150		MLC	&SDEC05,SDEC03&3		7	2801	M A35 P74		46
391	12	160		B	SDEC05		4	2808	B P17		47
392	12	170	SRSKIP	SBR	EXSKIP&3		4	2812	H Q39		47
393	12	180	SKIP1	B	SRGET		4	2816	B Q40		47
394	12	190		B	SRPUT		4	2820	B Q58		47
395	12	200		C	SX,PERIOD		7	2824	C R95 R71		47
396	12	210		BU	SKIPL		5	2831	B Q16 /		47
397	12	220	EXSKIP	B	0		4	2836	B 000		47

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
398	12	230	SRGET	SBR	EXGET&3		4	2840	H Q57		48
399	12	240		B	GETX		4	2844	B 335		48
400	12	250		DCW	SX		3	2850	R95		48
401	13	010		DCW	ERR		3	2853	Q80		48
402	13	020	EXGET	B	0		4	2854	B 000		48
403	13	030	SRPUT	SBR	EXPOT&3		4	2858	H Q72		48
404	13	040		B	PUTX		4	2862	B 363		48
405	13	050		DCW	SX		3	2868	R95		49
406	13	060	EXPOT	B	0		4	2869	B 000		49
407	13	070	ERR002	MLC	@9@,DIAG		7	2873	M A36 R24		49
408	13	080	ERR	CS	333		4	2880	/ 333		49
409	13	090		CS			1	2884	/		49
410	13	100		CC	1		2	2885	F 1		49
411	13	110		MLC	DIAG,260		7	2887	M R24 260		49
412	13	120		W			1	2894	2		50
413	13	130		CC	1		2	2895	F 1		50
414	13	140		B	DUMP		4	2897	B 359		50
415	13	150	DIAG	DCW	@SYSTEM FAILURE PHASE D01@		24	2924			50
416	13	160	ERR001	B	PUTX		4	2925	B 363		50
417	13	170		DCW	&@.DG@		3	2931	A39		50
418	13	180		B	PUTX		4	2932	B 363		51
419	13	190		DCW	&@D01@		3	2938	A42		51
420	13	200	ER1	B	SRGET		4	2939	B Q40		51
421	13	210		C	SX,@.PC@		7	2943	C R95 A45		51
422	13	220		BU	ER1		5	2950	B R39 /		51
423	13	230		B	BB3		4	2955	B V33		51
424	13	240	SWITCH	DCW	@B@		1	2959			51
425	13	250	PROCI	DCW	@*01@		3	2962			52
426	14	010	LEVELI	DCW	@.LV@		3	2965			52
427	14	020	PICTI	DCW	@.PC@		3	2968			52
428	14	030	PERIOD	DCW	@.PD@		3	2971			52
429	14	040	NULL	DCW	@000@		3	2974			52
430	14	050	FILESW	DCW	@0@	1 IF IN FILE SECTION	1	2975			52
431	14	060	NOWMSW	DCW	@0@	1 IF 01 HAS NO WDMKS	1	2976			52
432	14	070	DECSW	DCW	@0@	1 WHEN DEC COUNT COMPLETE FOR ENT	1	2977			53
433	14	080	EDCLSW	DCW	@0@	1 WHEN ANY EDIT CLAUSES	1	2978			53
434	14	090	PACKSW	DCW	@0@		1	2979			53
435	14	100	EDITSW	DCW	@0@		1	2980			53
436	14	110	CLASSW	DCW	@0@		1	2981			53
437	14	120	SIZCNT	DCW	#6		6	2987			53
438	14	130	TIMESL	DA	1X4	****		2988	2991		53
439	14	140	TIMESR		4			2991		SBFLD	
440	14	150	PICHAR	DCW	#1		1	2992			54
441	14	160	SX	DCW	#3		3	2995			54
442	14	170	PICL	DA	1X33	*****		2996	3028		54
443	14	180	PICR		32	*****		3027		SBFLD	
444	14	190	SXSAVE	DCW	#3		3	3031			55
445	14	200	SXSAV2	DCW	#3		3	3034			55
446	14	210		LTORG					3035		
		119		DCW	&TBR4K		3	3037	L4W	ADCON	55

OBJECT CORE EXCEEDED

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CLEAR STORAGE 1      ,008015,019026,030,034041,045,053,0570571026      1
CLEAR STORAGE 2      L068112,102106,113/101099/I99,027A070028)027B0010270B0261,001/001113I0      2
BOOTSTRAP            ,008015,022029,036040,047054,061068,072/061039      ,0010011040      3

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1401 COBOL - D02 PAGE 1

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
101	1	010	000	JOB	1401 COBOL - D02						
102	1	020		CTL	631 11						
103	1	030	X1	EQU	89			0089			
104	1	040	X2	EQU	94			0094			
105	1	050	X3	EQU	99			0099			
106	1	060	GETX	EQU	335			0335			
107	1	070	IORW	EQU	343			0343			
108	1	080	SUPER	EQU	351			0351			
109	1	090	DUMP	EQU	359			0359			
110	1	100	PUTX	EQU	363			0363			
111	1	110	CONST	EQU	188			0188			
112	1	120	SCRBKT	EQU	1126			1126			
113	1	130	NXTNAM	EQU	1302			1302			
114	1	140	TBLSTR	EQU	1305			1305			
115	1	150		ORG	1306				1306		
116	1	160	AA1	B	GETX	4		1306	B 335		4
117	1	170		DCW	SX	3		1312	?04		4
118	1	180		DCW	ERR	3		1315	Q80		4
119	1	190		B	PUTX	4		1316	B 363		4
120	1	200		DCW	SX	3		1322	?04		4
121	1	210		C	SX,@.LV@	7		1323	C ?04 ?10		4
122	1	220		BE	AA2	5		1330	B T69 S		4
123	1	230		C	SX,*01@	7		1335	C ?04 ?13		5
124	1	240		BE	EOJ1A	5		1342	B P69 S		5
125	1	250		B	AA1	4		1347	B T06		5
126	2	010	AA3	MLC	@001@,DLEVEL	7		1351	M ?16 R60		5
127	2	020		MLC	@N@,SW77	7		1358	M ?17 U11		5
128	2	030		B	AA4	4		1365	B T94		5
129	2	040	AA2	MLC	ZERO,ZERO-1	7		1369	M R97 R96		6
130	2	050		B	GETX	4		1376	B 335		6
131	2	060		DCW	DLEVEL	3		1382	R60		6
132	2	070		DCW	ERR	3		1385	Q80		6
133	2	080		BCE	AA3,DLEVEL-1,7	8		1386	B T51 R59 7		6
134	2	090	AA4	B	PUTX	4		1394	B 363		6
135	2	100		DCW	DLEVEL	3		1400	R60		6
136	2	110		B	GETX	4		1401	B 335		7
137	2	120		DCW	DNAME	3		1407	R63		7
138	2	130		DCW	ERR	3		1410	Q80		7
139	2	140	SW77	B	AA5	4		1411	B U29		7
140	2	150		B	PUTX	4		1415	B 363		7
141	2	160		DCW	&@077@	3		1421	?20		7
142	2	170		MLC	@B@,SW77	7		1422	M ?21 U11		7
143	2	180	AA5	C	DLEVEL,@001@	7		1429	C R60 ?16		8
144	2	190		BE	NOWMTB	5		1436	B N22 S		8
145	2	200		BCE	RETURN,DPNSW,0	8		1441	B U75 ?01 0		8
146	2	210		C	DNAME,DPNAME	7		1449	C R63 ?00		8
147	2	220		BU	RETURN	5		1456	B U75 /		8

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	2	230		B	PUTX		4	1461	B 363		8
149	2	240		DCW	&@*03@		3	1467	?24		8
150	2	250		MLC	@0@,DPNDSW		7	1468	M ?25 ?01		9
151	3	010	RETURN	B	SRGET		4	1475	B R25		9
152	3	020		C	SX,@/10@	SIZE	7	1479	C ?04 ?28		9
153	3	030		BE	DCSIZE		5	1486	B X45 S		9
154	3	040		C	SX,@\$16@	NUMERIC CLASS	7	1491	C ?04 ?31		9
155	3	050		BE	DCNUM		5	1498	B X80 S		9
156	3	060		C	SX,@/03@	ALPHANUMERIC CLASS	7	1503	C ?04 ?34		10
157	3	070		BE	DCALNM		5	1510	B X69 S		10
158	3	080		C	SX,\$\$10@	ALPHABETIC	7	1515	C ?04 ?37		10
159	3	090		BE	DCALNM		5	1522	B X69 S		10
160	3	100		C	SX,@/18@	POINT	7	1527	C ?04 ?40		10
161	3	110		BE	DCDIML		5	1534	B X91 S		10
162	3	120		C	SX,@#EL@	ELEM	7	1539	C ?04 ?43		11
163	3	130		BE	DCTYPE		5	1546	B Z24 S		11
164	3	140		C	SX,@#GR@	GROUP	7	1551	C ?04 ?46		11
165	3	150		BE	DCTYPE		5	1558	B Z24 S		11
166	3	160		C	SX,@/15@	LEFT JUSTIFIED	7	1563	C ?04 ?49		11
167	3	170		BE	DCJUST		5	1570	B Y60 S		11
168	3	180		C	SX,@/17@	RIGHT JUSTIFIED	7	1575	C ?04 ?52		12
169	3	190		BE	DCJUST		5	1582	B Y60 S		12
170	3	200		C	SX,@/20@	FLOATING \$\$\$	7	1587	C ?04 ?55		12
171	3	210		BE	DCEDTC		5	1594	B Y90 S		12
172	3	220		C	SX,@/21@	CHECK PROTECT	7	1599	C ?04 ?58		12
173	3	230		BE	DCEDTC		5	1606	B Y90 S		12
174	3	240		C	SX,\$\$08@	ZERO SUPR	7	1611	C ?04 ?61		13
175	3	250		BE	DCEDTC		5	1618	B Y90 S		13
176	4	010		C	SX,@/12@	LEAVING	7	1623	C ?04 ?64		13
177	4	020		BE	DCLVNG		5	1630	B Z10 S		13
178	4	030		C	SX,@.NM@	NAME OF	7	1635	C ?04 ?67		13
179	4	040		BE	NAMERT		5	1642	B Y45 S		13
180	4	050		C	SX,@/22@		7	1647	C ?04 ?70		14
181	4	060		BE	DCBLNK		5	1654	B Z50 S		14
182	4	070		C	SX,@.PD@	PERIOD	7	1659	C ?04 ?73		14
183	4	080		BE	PERDRT		5	1666	B Z61 S		14
184	4	090		C	SX,@.PC@	PICTURE	7	1671	C ?04 ?76		14
185	4	100		BE	PICTRT		5	1678	B O39 S		14
186	4	110		C	SX,@*03@	DEPENDING	7	1683	C ?04 ?24		15
187	4	120		BE	DPNDRT		5	1690	B Y24 S		15
188	4	130		C	SX,@/14@	OCCURS	7	1695	C ?04 ?79		15
189	4	140		BE	OCCURT		5	1702	B X15 S		15
190	4	150	RETRN1	B	SRPUT		4	1707	B R43		15
191	4	160		B	RETURN		4	1711	B U75		15
192	4	170	OCCURT	C	DNAME,@ @	OCCURS - IS NAME BLANK	7	1715	C R63 ?82		15
193	4	180		BU	RETRN1		5	1722	B X07 /		16
194	4	190		MLC	NXTNAM,DNAME		7	1727	M T02 R63		16
195	4	200		A	@1@,NXTNAM		7	1734	A ?83 T02		16
196	4	210		B	RETRN1		4	1741	B X07		16
197	4	220	DCSIZE	B	GETX	SIZE DECLARED	4	1745	B 335		16

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
198	4	230		DCW	DSIZHO		3	1751	R66		16
199	4	240		DCW	ERR		3	1754	Q80		16
200	4	250		B	GETX		4	1755	B 335		17
201	5	010		DCW	DSIZLO		3	1761	R69		17
202	5	020		DCW	ERR		3	1764	Q80		17
203	5	030		B	RETURN		4	1765	B U75		17
204	5	040	DCALNM	MLC	@ X@,DCLASS	ALPHA OR ALPHANUMERIC DECLAR	7	1769	M ?86 R75		17
205	5	050		B	RETURN		4	1776	B U75		17
206	5	060	DCNUM	MLC	@ 9@,DCLASS	NUMERIC DECLARARION	7	1780	M ?89 R75		17
207	5	070		B	RETURN		4	1787	B U75		18
208	5	080	DCDIML	B	SRGET	DECIMAL POINT DECLARED	4	1791	B R25		18
209	5	090		B	GETX		4	1795	B 335		18
210	5	100		DCW	DDCIML		3	1801	R72		18
211	5	110		DCW	ERR		3	1804	Q80		18
212	5	120		BCE	*&8,SX,5	NO SIGN IF LEFT DEC	8	1805	B Y20 ?04 5		18
213	5	130		MLZS	@K@,DDCIML		7	1813	Y ?90 R72		18
214	5	140		B	RETURN		4	1820	B U75		19
215	5	150	DPNDRT	MLC	@1@,DPNSW		7	1824	M ?83 ?01		19
216	5	160		B	GETX		4	1831	B 335		19
217	5	170		DCW	DPNAME		3	1837	?00		19
218	5	180		DCW	ERR		3	1840	Q80		19
219	5	190		B	RETURN		4	1841	B U75		19
220	5	200	NAMERT	B	SRGET		4	1845	B R25		19
221	5	210		MLC	SX,DNAME		7	1849	M ?04 R63		20
222	5	220		B	RETURN	ATTACH PROPER NAME IF VALUE IS ONLY USE	4	1856	B U75		20
223	5	230	DCJUST	BCE	JUSTL,SX,5	SKIP IF LEFT JUST	8	1860	B Y79 ?04 5		20
224	5	240		MLC	@ R@,DJUST		7	1868	M ?93 R84		20
225	5	250		B	RETURN		4	1875	B U75		20
226	6	010	JUSTL	MLC	@ L@,DJUST		7	1879	M ?96 R84		20
227	6	020		B	RETURN		4	1886	B U75		21
228	6	030	DCEDTC	B	SPLCHK	CHECK PROTECT-ZERO SUP-FLOAT\$\$\$	4	1890	B Q01		21
229	6	040		DCW	DEDTCL		3	1896	R93		21
230	6	050		DCW	@02@	D02 CONFLICTION EDIT CLAUSES	2	1898			21
231	6	060		MLC	@ E@,DEDIT		7	1899	M ?99 R87		21
232	6	070		B	RETURN		4	1906	B U75		21
233	6	080	DCLVNG	B	GETX		4	1910	B 335		21
234	6	090		DCW	DLVING		3	1916	R96		22
235	6	100		DCW	ERR		3	1919	Q80		22
236	6	110		B	RETURN		4	1920	B U75		22
237	6	120	DCTYPE	MLC	@ E@,DTYPE	GROUP OR R ELEM	7	1924	M ?99 R81		22
238	6	130		BCE	RETURN,SX,L		8	1931	B U75 ?04 L		22
239	6	140		MLC	@G@,DTYPE		7	1939	M A00 R81		22
240	6	150		B	RETURN		4	1946	B U75		22
241	6	160	DCBLNK	MLC	@ B@,DBLNK		7	1950	M A03 R90		23
242	6	170		B	RETURN		4	1957	B U75		23
243	6	180	PERDRT	BCE	JUSTF,DJUST,0		8	1961	B J67 R84 0		23
244	6	190	PERD4	BCE	PERD6,DEDTCL-2,0		8	1969	B Z88 R91 0		23
245	6	200	PERD5	MLC	@ E@,DEDIT		7	1977	M ?99 R87		23
246	6	210		B	PERD3		4	1984	B !18		23
247	6	220	PERD6	BCE	PERD5,DBLNK,B		8	1988	B Z77 R90 B		24

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
248	6	230		MLC	@ K@,DBLNK	7		1996	M A06 R90		24
249	6	240		MLC	@.KK@,DEDIT	7		2003	M A09 R87		24
250	6	250	PERD2	BCE	GROUP,DTYPE,G	8		2010	B N82 R81 G		24
251	7	010	PERD3	BCE	CLASS,DCLASS,0	8		2018	B J78 R75 0		24
252	7	020	PERD3A	C	DSIZLO,@000000@	7		2026	C R69 A15		25
253	7	030		BE	SIZERR	5		2033	B J89 S		25
254	7	040	PERD7	B	PUTX	4		2038	B 363		25
255	7	050		DCW	&@.DS@	3		2044	A18		25
256	7	060		B	PUTX	4		2045	B 363		25
257	7	070		DCW	DNAME	3		2051	R63		25
258	7	080		B	PUTX	4		2052	B 363		25
259	7	090		DCW	DSIZHO	3		2058	R66		26
260	7	100		B	PUTX	4		2059	B 363		26
261	7	110		DCW	DSIZLO	3		2065	R69		26
262	7	120		B	PUTX	4		2066	B 363		26
263	7	130		DCW	DDCIML	3		2072	R72		26
264	7	140		B	PUTX	4		2073	B 363		26
265	7	150		DCW	DCLASS	3		2079	R75		26
266	7	160		B	PUTX	4		2080	B 363		27
267	7	170		DCW	DWDMK	3		2086	R78		27
268	7	180		B	PUTX	4		2087	B 363		27
269	7	190		DCW	DTYPE	3		2093	R81		27
270	7	200		B	PUTX	4		2094	B 363		27
271	7	210		DCW	DJUST	3		2100	R84		27
272	7	220		B	PUTX	4		2101	B 363		27
273	7	230		DCW	DEDIT	3		2107	R87		28
274	7	240		BCE	PERD7A,DEDIT,K	8		2108	B J56 R87 K		28
275	7	250		MLC	@D03@,NEXTPH	7		2116	M A21 Q00		28
276	8	010		B	PUTX	4		2123	B 363		28
277	8	020		DCW	DBLNK	3		2129	R90		28
278	8	030		B	PUTX	4		2130	B 363		28
279	8	040		DCW	DEDTCL	3		2136	R93		28
280	8	050		C	DEDTCL,@.PC@	7		2137	C R93 ?76		29
281	8	060		BE	PASPIC	5		2144	B K04 S		29
282	8	070		B	PUTX	4		2149	B 363		29
283	8	080		DCW	DLVING	3		2155	R96		29
284	8	090	PERD7A	B	PUTX	4		2156	B 363		29
285	8	100		DCW	&@.PD@	3		2162	?73		29
286	8	110		B	AA1	4		2163	B T06		29
287	8	120	JUSTF	MLC	@ K@,DJUST	7		2167	M A06 R84		30
288	8	130		B	PERD4	4		2174	B Z69		30
289	8	140	CLASS	MLC	@ X@,DCLASS	7		2178	M ?86 R75		30
290	8	150		B	PERD3A	4		2185	B !26		30
291	8	160	SIZERR	MLC	@OI@,ERRNUM	7		2189	M A23 ?07		30
292	8	170		B	SDGNST	4		2196	B Q58		30
293	8	180		B	PERD7	4		2200	B !38		30
294	8	190	PASPIC	MLC	&PICTL-4,X3	7		2204	M A26 099		31
295	8	200		MLC	@ @,TIMESR	7		2211	M A30 L59		31
296	8	210		MLC	@0@,PACKSW	7		2218	M ?25 L55		31
297	8	220		MLC	PICTR1,PICTR1-1	7		2225	M L48 L47		31

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
298	8	230	PASPC2	B	SRGET		4	2232	B R25		31
299	8	240		C	SX,PERIOD		7	2236	C ?04 L51		31
300	8	250		BE	UNPAC		5	2243	B K63 S		32
301	9	010		MLC	SX,6&X3		7	2248	M ?04 0?6		32
302	9	020		SBR	X3		4	2255	H 099		32
303	9	030		B	PASPC2		4	2259	B K32		32
304	9	040	UNPAC	MLC	@ @,SX		7	2263	M ?82 ?04		32
305	9	050		MLC	@000@,X3		7	2270	M A33 099		32
306	9	060	UNPAC1	B	SRSNGL		4	2277	B L61		32
307	9	070		MLC	PICCHAR,SX		7	2281	M L60 ?04		33
308	9	080		B	SRPUT		4	2288	B R43		33
309	9	090		BCE	PICEND,PICCHAR,		8	2292	B L04 L60		33
310	9	100		B	UNPAC1		4	2300	B K77		33
311	9	110	PICEND	B	PUTX		4	2304	B 363		33
312	9	120		DCW	PERIOD		3	2310	L51		33
313	9	130		B	AA1		4	2311	B T06		33
314	9	140	PICTL	DA	1X33			2315	2347		34
315	9	150	PICTR1	DC	@ @		1	2348			35
316	9	160	PERIOD	DCW	@.PD@		3	2351			35
317	9	170	NULL	DCW	@000@		3	2354			35
318	9	180	PACKSW	DCW	#1		1	2355			35
319	9	190	TIMESL	DA	1X4			2356	2359		35
320	9	200	TIMESR		4			2359		SBFLD	
321	9	210	PICCHAR	DCW	@0@		1	2360			36
322	9	220	*	SSINGL	ROUTINE SUPLIES ONE UNPACKED CHAR AT A TIME FROM PICTURE						
323	9	230	PICL	EQU	PICTL			2315			
324	9	240	SRSNGL	SBR	XSINGL&3		4	2361	H L98		36
325	9	250	SSINGL	BCE	UNPACK,PACKSW,1		8	2365	B M82 L55 1		36
326	10	010		MLC	PICL&X3,PICCHAR		7	2373	M LA5 L60		36
327	10	020		BCE	PACKED,PICCHAR,)	IS IT RT PAREN	8	2380	B L99 L60)		36
328	10	030		A	@1@,X3		7	2388	A ?83 099		36
329	10	040	XSINGL	B	0		4	2395	B 000		36
330	10	050	PACKED	A	@1@,X3		7	2399	A ?83 099		37
331	10	060		BCE	PACKD1,PICL&X3,%	LEFT PAREN	8	2406	B M53 LA5 %		37
332	10	070		MLNS	PICL&X3,TIMESL		7	2414	D LA5 L56		37
333	10	080		MLC	TIMESR-1,TIMESR		7	2421	M L58 L59		37
334	10	090		MLC	NULL,TIMESL		7	2428	M L54 L56		37
335	10	100		B	PACKED		4	2435	B L99		38
336	10	110	PACKD2	MLC	TIMESR-1,TIMESR	SHIFT TO FILL TIMES BUCKET	7	2439	M L58 L59		38
337	10	120		MLC	NULL,TIMESL		7	2446	M L54 L56		38
338	10	130	PACKD1	BCE	PACKD2,TIMESR,		8	2453	B M39 L59		38
339	10	140		A	@1@,X3		7	2461	A ?83 099		38
340	10	150		MLC	PICL&X3,PICCHAR		7	2468	M LA5 L60		39
341	10	160		MLC	@1@,PACKSW		7	2475	M ?83 L55		39
342	10	170	UNPACK	S	@1@,TIMESR		7	2482	S ?83 L59		39
343	10	180		BWZ	XSINGL,TIMESR,B	IS TIMES BUCKET STILL PLUS	8	2489	V L95 L59 B		39
344	10	190		MLC	NULL,PACKSW	NO, RESET AND BR OUT	7	2497	M L54 L55		39
345	10	200		MLC	@ @,TIMESR		7	2504	M A30 L59		40
346	10	210		A	@1@,X3		7	2511	A ?83 099		40
347	10	220		B	SSINGL		4	2518	B L65		40

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
348	10	230	*	LOOK FOR	01 NAME ON NO-WDMK-TABLE						
349	10	240	NOWMTB	MLC	TBLSTR,X1	7		2522	M T05 089		40
350	10	250		MLC	@0@,DPNDSW RESET DEPENDING SW AT 01 LEVEL	7		2529	M ?25 ?01		40
351	11	010		MLC	@1@,DWDMMK	7		2536	M ?83 R78		40
352	11	020	NOWM1	BCE	RETURN,0&X1,} HIT END OF TABLE IF NEXT A GM	8		2543	B U75 0|0 }		41
353	11	030		C	DNAME,0&X1	7		2551	C R63 0|0		41
354	11	040		SBR	X1	4		2558	H 089		41
355	11	050		BE	NOWM2 HIT	5		2562	B N71 S		41
356	11	060		B	NOWM1 LOOK MORE	4		2567	B N43		41
357	11	070	NOWM2	MLC	@0@,DWDMMK	7		2571	M ?25 R78		41
358	11	080		B	RETURN	4		2578	B U75		41
359	11	090	GROUP	MLC	@ X@,DCLASS GROUP ITEM W/O PICTURE	7		2582	M ?86 R75		42
360	11	100		MLC	@000@,DSIZHO	7		2589	M A33 R66		42
361	11	110		MLC	@000@,DSIZLO	7		2596	M A33 R69		42
362	11	120		MLC	@000@,SX	7		2603	M A33 ?04		42
363	11	130		B	SPLCHK GROUP DECIMAL COUNT SET TO ZERO	4		2610	B Q01		42
364	11	140		DCW	DDCIML	3		2616	R72		42
365	11	150		DCW	@03@	2		2618			42
366	11	160		MLC	@.KK@,SX	7		2619	M A09 ?04		43
367	11	170		B	SPLCHK NO GROUP EDITING	4		2626	B Q01		43
368	11	180		DCW	DEDIT	3		2632	R87		43
369	11	190		DCW	@04@	2		2634			43
370	11	200		B	PERD7	4		2635	B !38		43
371	11	210	PICTRT	B	SRGET PLACE PIC SIZE	4		2639	B R25		43
372				MLC	@99@,ERRNUM SET DIAG FOR PICT W/ GROUP ITEM	7		2643	M A35 ?07		43
373				BCE	SDGNST,DTYPE,G DIAGNOIS PICT/GROUP COMBINATION	8		2650	B Q58 R81 G		44
374	11	220		B	SPLCHK	4		2658	B Q01		44
375	11	230		DCW	DSIZHO	3		2664	R66		44
376	11	240		DCW	@05@	2		2666			44
377	11	250		B	SRGET	4		2667	B R25		44
378	12	010		B	SPLCHK	4		2671	B Q01		44
379	12	020		DCW	DSIZLO	3		2677	R69		44
380	12	030		DCW	@05@	2		2679			45
381	12	040		B	SRGET	4		2680	B R25		45
382	12	050		B	SPLCHK PLACE PIC DEC	4		2684	B Q01		45
383	12	060		DCW	DDCIML	3		2690	R72		45
384	12	070		DCW	@06@	2		2692			45
385	12	080		B	SRGET	4		2693	B R25		45
386	12	090		B	SPLCHK	4		2697	B Q01		45
387	12	100		DCW	DCLASS PLACE PIC CLASS	3		2703	R75		46
388	12	110		DCW	@07@	2		2705			46
389	12	120		B	SRGET	4		2706	B R25		46
390	12	130		MLC	SX,DEDIT PLACE PIC EDITSW W/O DIAGNOSTIC	7		2710	M ?04 R87		46
391	12	140		BCE	NOEDIT,DEDIT,K	8		2717	B P45 R87 K		46
392	12	150		MLC	@.PC@,SX .PC IN DEDTCL - EDITED PICTURE	7		2725	M ?76 ?04		46
393	12	160		B	SPLCHK	4		2732	B Q01		46
394	12	170		DCW	DEDTCL	3		2738	R93		47
395	12	180		DCW	@08@	2		2740			47
396	12	190		B	PERDRT	4		2741	B Z61		47
397	12	200	NOEDIT	MLC	@000@,SX	7		2745	M A33 ?04		47

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
398	12	210		B	SPLCHK		4	2752	B Q01		47
399	12	220		DCW	DEDTCL		3	2758	R93		47
400	12	230		DCW	@08@		2	2760			47
401	12	240		B	RETURN		4	2761	B U75		48
402	12	250	EOJ1	B	SRPUT		4	2765	B R43		48
403	13	010	EOJ1A	B	GETX		4	2769	B 335		48
404	13	020		DCW	SX		3	2775	?04		48
405	13	030		DCW	EOJ2		3	2778	P90		48
406	13	040		B	PUTX		4	2779	B 363		48
407	13	050		DCW	SX		3	2785	?04		48
408	13	060		B	EOJ1A		4	2786	B P69		49
409	13	070	EOJ2	B	SRPUT		4	2790	B R43		49
410	13	080		B	SUPER		4	2794	B 351		49
411	13	090	NEXTPH	DCW	@D04@		3	2800			49
412	13	100			* SUBROUTINE PLACE AND CHECK PLACES SX INTO AREA SPECIFIED BY 1ST						
413	13	110			* PARAMATER - AN ERROR MESSAGE IS PUT OUT FOR ANY DISCREPANACIES						
414	13	120	SPLCHK	SBR	X3		4	2801	H 099		49
415	13	130		MLC	2&X3,X2		7	2805	M 0?2 094		49
416	13	140		C	0&X2,@000@		7	2812	C 0!0 A33		49
417	13	150		BE	SPLC		5	2819	B Q47 S		50
418	13	160		C	0&X2,SX		7	2824	C 0!0 ?04		50
419	13	170		BE	SPLC		5	2831	B Q47 S		50
420	13	180		MLC	4&X3,ERRNUM		7	2836	M 0?4 ?07		50
421	13	190		B	SDGNST		4	2843	B Q58		50
422	13	200	SPLC	MLC	SX,0&X2		7	2847	M ?04 0!0		50
423	13	210		B	5&X3		4	2854	B 0?5		50
424	13	220	SDGNST	SBR	XDGNST&3		4	2858	H Q79		51
425	13	230		B	PUTX		4	2862	B 363		51
426	13	240		DCW	&@.DG@		3	2868	A38		51
427	13	250		B	PUTX		4	2869	B 363		51
428	14	010		DCW	ERRNUM		3	2875	?07		51
429	14	020	XDGNST	B	0		4	2876	B 000		51
430	14	030	ERR	CS	333		4	2880	/ 333		51
431	14	040		CS			1	2884	/		52
432	14	050		CC	1		2	2885	F 1		52
433	14	060		MLC	DIAG,260		7	2887	M R24 260		52
434	14	070		W			1	2894	2		52
435	14	080		CC	1		2	2895	F 1		52
436	14	090		B	DUMP		4	2897	B 359		52
437	14	100	DIAG	DCW	@SYSTEM FAILURE PHASE D02@		24	2924			53
438	14	110	SRGET	SBR	EXGET&3		4	2925	H R42		53
439	14	120		B	GETX		4	2929	B 335		53
440	14	130		DCW	SX		3	2935	?04		53
441	14	140		DCW	ERR		3	2938	Q80		53
442	14	150	EXGET	B	0		4	2939	B 000		54
443	14	160	SRPUT	SBR	EXPUT&3		4	2943	H R57		54
444	14	170		B	PUTX		4	2947	B 363		54
445	14	180		DCW	SX		3	2953	?04		54
446	14	190	EXPUT	B	0		4	2954	B 000		54
447	14	200	DESCRP	DA	1X39			2958	2996		54

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
448	14	210	DLEVEL		3						
					LEVEL			2960		SBFLD	
449	14	220	DNAME		6						
					NAME			2963		SBFLD	
450	14	230	DSIZHO		9						
					SIZE - HIGH ORDER			2966		SBFLD	
451	14	240	DSIZLO		12						
					SIZE - LOW ORDER			2969		SBFLD	
452	14	250	DDCIML		15						
					DECIMAL POSITION			2972		SBFLD	
453	15	010	DCLASS		18						
					CLASS			2975		SBFLD	
454	15	020	DWDMK		21						
					WORDMARKS - 01 LEVEL YES/NO			2978		SBFLD	
455	15	030	DTYPE		24						
					TYPE - GR OR EL			2981		SBFLD	
456	15	040	DJUST		27						
					JUSTIFIED			2984		SBFLD	
457	15	050	DEDIT		30						
					EDITING			2987		SBFLD	
458	15	060	DBLNK		33						
					BLANK WHEN ZERO			2990		SBFLD	
459	15	070	DEDTCL		36						
					EDIT CLAUSES/PICTURE			2993		SBFLD	
460	15	080	DLVING		39						
					LEAVING			2996		SBFLD	
461	15	090	ZERO	DC	@0@		1	2997			55
462	15	100	DPNAME	DCW	#3		3	3000			55
463	15	110	DPNSW	DCW	#1		1	3001			55
464	15	120	SX	DCW	#3		3	3004			55
465	15	130	ERRNUM	DCW	@D @		3	3007			55
466	15	140	LTORG						3008		
			DCW		@.LV@		3	3010		LIT	56
					@*01@		3	3013		LIT	56
					@001@		3	3016		LIT	56
					@N@		1	3017		LIT	56
					@077@		3	3020		LIT	56
					@B@		1	3021		LIT	56
					@*03@		3	3024		LIT	56
					@0@		1	3025		LIT	57
					@/10@		3	3028		LIT	57
					@\$16@		3	3031		LIT	57
					@/03@		3	3034		LIT	57
					@\$10@		3	3037		LIT	57
					@/18@		3	3040		LIT	57
					@#EL@		3	3043		LIT	57
					@#GR@		3	3046		LIT	58
					@/15@		3	3049		LIT	58
					@/17@		3	3052		LIT	58
					@/20@		3	3055		LIT	58
					@/21@		3	3058		LIT	58
					@\$08@		3	3061		LIT	58
					@/12@		3	3064		LIT	58
					@.NM@		3	3067		LIT	59
					@/22@		3	3070		LIT	59
					@.PD@		3	3073		LIT	59
					@.PC@		3	3076		LIT	59
					@/14@		3	3079		LIT	59
					@ @		3	3082		LIT	59
					@1@		1	3083		LIT	59
					@ X@		3	3086		LIT	60
					@ 9@		3	3089		LIT	60
					@K@		1	3090		LIT	60

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
					@ R@		3	3093		LIT	60
					@ L@		3	3096		LIT	60
					@ E@		3	3099		LIT	60
					@G@		1	3100		LIT	60
					@ B@		3	3103		LIT	61
					@ K@		3	3106		LIT	61
					@.KK@		3	3109		LIT	61
	252				@000000@		6	3115		LIT	61
					@.DS@		3	3118		LIT	61
					@D03@		3	3121		LIT	61
					@0I@		2	3123		LIT	61
	294				&PICTL-4		3	3126	L11	ADCON	62
					@ @		4	3130		LIT	62
					@000@		3	3133		LIT	62
					@99@		2	3135		LIT	62
					@.DG@		3	3138		LIT	62
467	15	150		DCW	@}@		1	3139			62
468	15	160		END	GROUPMARK				/ 000 080		63

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CLEAR STORAGE 1      ,008015,019026,030,034041,045,053,0570571026      1
CLEAR STORAGE 2      L068112,102106,113/101099/I99,027A070028)027B0010270B0261,001/001113I0      2
BOOTSTRAP            ,008015,022029,036040,047054,061068,072/061039      ,0010011040      3

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1401 COBOL - D03 PAGE 1

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
101	1	010	000	JOB	1401 COBOL - D03						
102	1	020		CTL	631 11						
103	1	030	X1	EQU	89			0089			
104	1	040	X2	EQU	94			0094			
105	1	050	X3	EQU	99			0099			
106	1	060	GETX	EQU	335			0335			
107	1	070	IORW	EQU	343			0343			
108	1	080	SUPER	EQU	351			0351			
109	1	090	DUMP	EQU	359			0359			
110	1	100	PUTX	EQU	363			0363			
111	1	110	CONST	EQU	188			0188			
112	1	120	SCRBKT	EQU	1126			1126			
113	1	130	NAME	EQU	1302			1302			
114	1	140		ORG	1303				1303		
115	1	150	START1	B	PLACE	4		1303	B A70		4
116	1	160		DCW	&.ED@	3		1309	F94		4
117	1	170	START	B	GETX	4		1310	B 335		4
118	1	180		DCW	SX	3		1316	F73		4
119	1	190		DCW	EOJ	3		1319	?14		4
120	1	200		B	PUTX	4		1320	B 363		4
121	1	210		DCW	SX	3		1326	F73		4
122	1	220		C	SX,@.LV@	7		1327	C F73 F97		5
123	1	230		BU	START	5		1334	B T10 /		5
124	1	240	AA1	B	GETX	4		1339	B 335		5
125	1	250		DCW	SX	3		1345	F73		5
126	2	010		DCW	ERR	3		1348	F26		5
127	2	020		C	SX,@.DS@	7		1349	C F73 G00		5
128	2	030		BE	CLEAR	5		1356	B T72 S		5
129	2	040		B	PUTX	4		1361	B 363		6
130	2	050		DCW	SX	3		1367	F73		6
131	2	060		B	AA1	4		1368	B T39		6
132	2	070	CLEAR	CW	CLRBFR	4		1372	) ?13		6
133	2	080		MLC	CLRBFR	4		1376	M ?13		6
134	2	090		MLC	NINULL,ED2 INITIALIZE FIELDS TO K	7		1380	M F85 ?00		6
135	2	100		MLC	EDMSKR,EDMSKR-1	7		1387	M R54 R53		6
136	2	110		SAR	X2	4		1394	Q 094		7
137	2	120		MLC	@@,@,0&X2	7		1398	M G01 0!0		7
138	2	130		SBR	X2	4		1405	H 094		7
139	2	140	DESCRT	MLC	&DESLFT&2,ADDRES GET DESCRIPTION ET AL	7		1409	M G04 U56		7
140	2	150	DESGET	B	GETX	4		1416	B 335		7
141	2	160		DCW	SX	3		1422	F73		7
142	2	170		DCW	ERR	3		1425	F26		7
143	2	180		C	SX,@.PD@	7		1426	C F73 G07		8
144	2	190		BE	BB1 GOT DATA - NOW ANALYZE	5		1433	B U76 S		8
145	2	200		C	SX,@.PC@	7		1438	C F73 G10		8
146	2	210		BE	PICT2	5		1445	B X72 S		8
147	2	220		MLC	SX,0	7		1450	M F73 000		8

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	2	230	ADDRES	EQU	*			1456			
149	2	240		MA	@003@,ADDRES					MACRO	
150				SW	ADDRES-2		4	1457	, U54	GEN	8
151				A	@003@,ADDRES		7	1461	A G13 U56	GEN	9
152				CW	ADDRES-2		4	1468	) U54	GEN	9
153	2	250		B	DESGET		4	1472	B U16		9
154	3	010	BB1	BCE	DESOUT,EDITSW,K	BR OUT IF NO EDIT	8	1476	B W97 R85 K		9
155	3	020		MLC	SIZE,COUNT		7	1484	M R67 F76		9
156	3	030		C	EDCLSW,@000@		7	1491	C R91 G16		9
157	3	040		BE	JSTBLK	BR IF ONLY BLANK WHEN ZERO	5	1498	B W79 S		10
158	3	050	EDCLAS	MLC	DECIML,X3	EDIT CLAUSES	7	1503	M R70 099		10
159	3	060		A	LEVINING,X3		7	1510	A R94 099		10
160	3	070		A	@1@,X3		7	1517	A G17 099		10
161	3	080		C	SIZE,X3		7	1524	C R67 099		10
162	3	090		BH	FCRERR	ZERO SUPRESS FIT ERROR	5	1531	B Z29 U		10
163	3	100		MLC	@0@,EDMSKL&X3		7	1536	M G18 QC2		11
164	3	110		BCE	BB2,EDCLSW-1,0		8	1543	B V92 R90 0		11
165	3	120		C	SIZE,X3		7	1551	C R67 099		11
166	3	130		BE	FCRERR	EDIT FIT ERROR	5	1558	B Z29 S		11
167	3	140		MLC	@*@,EDMSKL&1&X3		7	1563	M G19 QC3		11
168	3	150		BCE	BB2,EDCLSW,1	CHECK PROTECT	8	1570	B V92 R91 1		12
169	3	160		S	@1@,COUNT		7	1578	S G17 F76		12
170	3	170		MLC	@\$@,EDMSKL&1&X3		7	1585	M G20 QC3		12
171	3	180	BB2	MLC	SIZE,X3		7	1592	M R67 099		12
172	3	190		MLC	@@@,EDMSKL&1&X3		7	1599	M G01 QC3		12
173	3	200		SBR	X2		4	1606	H 094		13
174	3	210		MLC	NINULL,ED2		7	1610	M F85 ?00		13
175	3	220		MLC	NAME,MASK01		7	1617	M T02 R91		13
176	3	230		A	@1@,NAME		7	1624	A G17 T02		13
177	3	240		MLC	COUNT,CHARCN		7	1631	M F76 ?03		13
178	3	250		MLZS	@ @,CHARCN		7	1638	Y G21 ?03		13
179	4	010	BB3	MLC	@.PD@,CHARCN&3		7	1645	M G07 ?06		14
180	4	020		BCE	BB4,MASK01,K		8	1652	B W71 R91 K		14
181	4	030		MLC	@000@,MASKCB		7	1660	M G16 R94		14
182	4	040		B	SRDECL		4	1667	B N50		14
183	4	050	BB4	B	SRDESC		4	1671	B X08		14
184	4	060		B	START		4	1675	B T10		14
185	4	070	JSTBLK	MLC	@ K@,MASK01	JUST BWZERO	7	1679	M G24 R91		15
186	4	080		MLC	NINULL,ED2		7	1686	M F85 ?00		15
187	4	090		B	BB3		4	1693	B W45		15
188	4	100	DESOUT	MLC	@.PD@,BLANK	DESC W/O EDIT	7	1697	M G07 R88		15
189	4	110		B	BB4		4	1704	B W71		15
190	4	120	SRDESC	SBR	XDESC&3	PUTX DESCRIPTION THRU .PD	4	1708	H X60		15
191	4	130		MLC	&DESLFT-7,X3		7	1712	M G27 099		16
192	4	140		BCE	SDESC2,BLANK,0		8	1719	B X61 R88 0		16
193	4	150	SDESC1	MLC	6&X3,SX		7	1727	M 0?6 F73		16
194	4	160		SAR	X3		4	1734	Q 099		16
195	4	170		B	PUTX		4	1738	B 363		16
196	4	180		DCW	SX		3	1744	F73		16
197	4	190		C	SX,@.PD@		7	1745	C F73 G07		17

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
198	4	200		BU	SDESC1		5	1752	B X27 /		17
199	4	210	XDESC	B	0		4	1757	B 000		17
200	4	220	SDESC2	MLC	@ K@,BLANK		7	1761	M G24 R88		17
201	4	230		B	SDESC1		4	1768	B X27		17
202	4	240	PICT2	B	SRSNGL SETUP FOR SYMBOL #1		4	1772	B P00		17
203	4	250		B	SRSNGL		4	1776	B P00		17
204	5	010		MLC	SIZE,COUNT		7	1780	M R67 F76		18
205	5	020		C	DECIML,@000@ SET DECIML SW IF REQUIRED		7	1787	C R70 G16		18
206	5	030		BE	*&8		5	1794	B Y06 S		18
207	5	040		MLC	@1@,DECSW		7	1799	M G17 ?12		18
208	5	050		BCE	FDBRT,SINGLE,B		8	1806	B Z90 G72 B		18
209	5	060		BCE	FCRRT,SINGLE,R		8	1814	B Z21 G72 R		19
210	5	070		BCE	FPLUS,SINGLE,&		8	1822	B Y50 G72 &		19
211	5	080		BCE	FMINUS,SINGLE,-		8	1830	B Y98 G72 -		19
212	5	090		BCE	BLKFRC,SINGLE,\$ LOW ORDER \$, FUL FLOT &/- BLK0		8	1838	B Z10 G72 \$		19
213	5	100		B	TESTN		4	1846	B ?46		19
214	5	110	FPLUS	BCE	BLKFRC,NEXT,&		8	1850	B Z10 G69 &		20
215	5	120		MLC	@000@,ED1		7	1858	M G16 R97		20
216	5	130		MLNS	SIZE,ED1		7	1865	D R67 R97		20
217	5	140		MLNS			1	1872	D		20
218	5	150		MLNS			1	1873	D		20
219	5	160	FPLUS1	B	MASK		4	1874	B Q00		20
220	5	170		DCW	@-@		1	1878			20
221	5	180		S	@1@,COUNT		7	1879	S G17 F76		21
222	5	190		B	PICT3		4	1886	B Y90		21
223	5	200	PICT3	B	SRSNGL		4	1890	B P00		21
224	5	210		B	TESTN		4	1894	B ?46		21
225	5	220	FMINUS	BCE	BLKFRC,NEXT,- - IN 1ST POS- BLK/0 IF FULL FLOT		8	1898	B Z10 G69 -		21
226	5	230		B	FPLUS1		4	1906	B Y74		21
227	5	240	BLKFRC	MLC	@B@,BLANK FORCE BLK IF ZERO FOR FULL FLOAT & - \$		7	1910	M G28 R88		21
228	5	250		B	TESTN		4	1917	B ?46		22
229	6	010	FCRRT	BCE	FCRRT1,NEXT,C CR		8	1921	B Z61 G69 C		22
230	6	020	FCRERR	B	PUTX ERROR - ILLEGIAL EDIT SPECIFIED		4	1929	B 363		22
231	6	030		DCW	&@.DG@		3	1935	G31		22
232	6	040		B	PUTX		4	1936	B 363		22
233	6	050		DCW	&@D14@		3	1942	G34		22
234	6	060		MLC	@.KK@,EDITSW		7	1943	M G37 R85		22
235	6	070		MLC	@.PD@,BLANK		7	1950	M G07 R88		23
236	6	080		B	BB4		4	1957	B W71		23
237	6	090	FCRRT1	B	SRSNGL		4	1961	B P00		23
238	6	100	FCRRT2	B	MASK		4	1965	B Q00		23
239	6	110		DCW	@R@		1	1969			23
240	6	120		B	MASK		4	1970	B Q00		23
241	6	130		DCW	@C@		1	1974			23
242	6	140		S	@2@,COUNT		7	1975	S G38 F76		24
243	6	150		B	SRSNGL		4	1982	B P00		24
244	6	160		B	TESTN		4	1986	B ?46		24
245	6	170	FDBRT	BCE	FDBRT1,NEXT,D B TEST - DB OR INSERT ZERO		8	1990	B !02 G69 D		24
246	6	180		B	TESTN		4	1998	B ?46		24
247	6	190	FDBRT1	MLC	@D D@,ED1 SET DB SW		7	2002	M G41 R97		24

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
248	6	200		B	FCRRT1		4	2009	B Z61		24
249	6	210	SUSPRT	BCE	NUMBRT,ZEROSW,1		8	2013	B !76 ?10 1		25
250	6	220		BCE	SUPRT1,DECSW,1		8	2021	B !53 ?12 1		25
251	6	230		BCE	SUPRT3,NEXT,		8	2029	B 088 G69		25
252	6	240	SUSS	MLC	@1@,ZEROSW		7	2037	M G17 ?10		25
253	6	250	SUPRT2	B	MASK		4	2044	B Q00		25
254	7	010		DCW	@0@		1	2048			25
255	7	020		B	PICT3		4	2049	B Y90		26
256	7	030	SUPRT1	BWZ	NUMBRT,CLRBFR,1		8	2053	V !76 ?13 1		26
257	7	040		SW	CLRBFR		4	2061	, ?13		26
258	7	050		SBR	REPLS&6,2&X2		7	2065	H K28 0!2		26
259	7	060		B	SUPRT2		4	2072	B !44		26
260	7	070	NUMBRT	B	MASK		4	2076	B Q00		26
261	7	080		DCW	@ @		1	2080			26
262	7	090		B	PICT3		4	2081	B Y90		27
263	7	100	PRTCRT	BCE	SUPRT1,DECSW,1		8	2085	B !53 ?12 1		27
264	7	110		BCE	NUMBRT,PROTSW,2		8	2093	B !76 ?09 2		27
265	7	120		BCE	PROT1,PROTSW,0		8	2101	B J25 ?09 0		27
266	7	130		B	MASK		4	2109	B Q00		27
267	7	140		DCW	@*@		1	2113			27
268	7	150		MLC	@2@,PROTSW		7	2114	M G38 ?09		28
269	7	160		B	PICT3		4	2121	B Y90		28
270	7	170	PROT1	MLC	@1@,PROTSW		7	2125	M G17 ?09		28
271	7	180		B	SUSPRT		4	2132	B !13		28
272	7	190	DECMRT	B	MASK		4	2136	B Q00		28
273	7	200		DCW	@.@		1	2140			28
274	7	210		S	@1@,COUNT		7	2141	S G17 F76		28
275	7	220	DECRT1	MLC	@0@,DECSW		7	2148	M G18 ?12		29
276	7	230		B	PICT3		4	2155	B Y90		29
277	7	240	FLOTRT	BCE	NUMBRT,DECSW,1		8	2159	B !76 ?12 1		29
278	7	250		BCE	NUMBRT,FLOTSW,2		8	2167	B !76 ?08 2		29
279	8	010		BCE	FLOT21,NEXT,		8	2175	B J99 G69		29
280	8	020		BCE	SUSPRT,ZEROSW,0		8	2183	B !13 ?10 0		30
281	8	030	FLOT2	BWZ	REPLS,CLRBFR,1		8	2191	V K22 ?13 1		30
282	8	040	FLOT21	B	MASK		4	2199	B Q00		30
283	8	050		DCW	@\$@		1	2203			30
284	8	060		MLC	@2@,FLOTSW		7	2204	M G38 ?08		30
285	8	070		S	@1@,COUNT		7	2211	S G17 F76		30
286	8	080		B	PICT3		4	2218	B Y90		30
287	8	090	REPLS	MLC	@ @,0		7	2222	M G21 000		31
288	8	100		B	FLOT21		4	2229	B J99		31
289	8	110	CREDRT	BCE	*&5,NEXT,C		8	2233	B K45 G69 C		31
290	8	120		B	FCRERR		4	2241	B Z29		31
291	8	130	CRED1	B	SRSNGL		4	2245	B P00		31
292	8	140		BCE	FCRRT2,NEXT,		8	2249	B Z65 G69		31
293	8	150		B	FCRERR		4	2257	B Z29		31
294	8	160	PLUSRT	BCE	NUMBRT,DECSW,1		8	2261	B !76 ?12 1		32
295	8	170		BCE	NUMBRT,FLPLSW,2		8	2269	B !76 ?07 2		32
296	8	180		BCE	PLUS1,NEXT,		8	2277	B L18 G69		32
297	8	190		MLC	@1@,FLPLSW		7	2285	M G17 ?07		32

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
298	8	200		BCE	SUSPRT,ZEROSW,0		8	2292	B !13 ?10	0	32
299	8	210	PLUS4	MLC	@& &@,ED2 SET EDI TO FLOT PLUS		7	2300	M G44 ?00		33
300	8	220		MLC	@2@,FLPLSW		7	2307	M G38 ?07		33
301	8	230		B	FLOT2		4	2314	B J91		33
302	8	240	PLUS1	BCE	PLUS4,FLPLSW,1		8	2318	B L00 ?07	1	33
303	8	250		MLC	@001@,ED1		7	2326	M G47 R97		33
304	9	010		B	FPLUS1		4	2333	B Y74		33
305	9	020	MINSRT	BCE	NUMBRT,DECSW,1		8	2337	B !76 ?12	1	34
306	9	030		BCE	NUMBRT,FLMNSW,2		8	2345	B !76 ?11	2	34
307	9	040		BCE	MINS1,NEXT,		8	2353	B L94 G69		34
308	9	050		MLC	@1@,FLMNSW		7	2361	M G17 ?11		34
309	9	060		BCE	SUSPRT,ZEROSW,0		8	2368	B !13 ?10	0	34
310	9	070	MINS3	MLC	@- -@,ED2		7	2376	M G50 ?00		35
311	9	080		MLC	@2@,FLMNSW		7	2383	M G38 ?11		35
312	9	090		B	FLOT2		4	2390	B J91		35
313	9	100	MINS1	BCE	MINS3,FLMNSW,1		8	2394	B L76 ?11	1	35
314	9	110		B	FPLUS1		4	2402	B Y74		35
315	9	120	ZERORT	BCE	ZERO1,CBLMSK-2,0		8	2406	B M34 R92	0	35
316	9	130	ZERO2	SW	2&X2		4	2414	, 0!2		36
317	9	140	ZERO3	B	MASK		4	2418	B Q00		36
318	9	150		DCW	@&@		1	2422			36
319	9	160	ZERO4	S	@1@,COUNT		7	2423	S G17 F76		36
320	9	170		B	PICT3		4	2430	B Y90		36
321	9	180	ZERO1	MLC	NAME,CBLMSK		7	2434	M T02 R94		36
322	9	190		A	@1@,NAME		7	2441	A G17 T02		36
323	9	200		B	ZERO2		4	2448	B M14		37
324	9	210	BLNKRT	BCE	BLNK1,NEXT,D		8	2452	B M64 G69	D	37
325	9	220		B	ZERO3		4	2460	B M18		37
326	9	230	BLNK1	MLC	@D D@,ED1 SET DBIT SW & BR TO INSERT CR		7	2464	M G41 R97		37
327	9	240		B	CRED1		4	2471	B K45		37
328	9	250	COMART	B	MASK		4	2475	B Q00		37
329	10	010		DCW	@,@		1	2479			37
330	10	020		B	ZERO4		4	2480	B M23		38
331	10	030	PICT5	B	MASK		4	2484	B Q00		38
332	10	040		DCW	@@@		1	2488			38
333	10	050		MLC	NAME,A/CMSK		7	2489	M T02 R91		38
334	10	060		A	@1@,NAME		7	2496	A G17 T02		38
335	10	070		BCE	PICT5A,CBLMSK-2,0		8	2503	B N39 R92	0	38
336	10	080	PICT5B	MLNS	COUNT,CHARCN		7	2511	D F76 ?03		38
337	10	090		MLNS			1	2518	D		39
338	10	100		MLNS			1	2519	D		39
339	10	110		MLC	@.PD@,CHARCN&3		7	2520	M G07 ?06		39
340	10	120		B	SRDESC		4	2527	B X08		39
341	10	130		B	SRDECL		4	2531	B N50		39
342	10	140		B	START		4	2535	B T10		39
343	10	150	PICT5A	MLC	@000@,CBLMSK		7	2539	M G16 R94		39
344	10	160		B	PICT5B		4	2546	B N11		40
345	10	170	SRDECL	SBR	XDECL&3		4	2550	H O87		40
346	10	180		MLC	X2,X2SAVE#3		7	2554	M 094 G53		40
347	10	190		B	PLACE		4	2561	B A70		40

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
348	10	200		DCW	A/CMSK		3	2567	R91		40
349	10	210	DECL10	B	PLACE		4	2568	B A70		40
350	10	220		DCW	&@.LC@		3	2574	G56		40
351	10	230		B	PLACE		4	2575	B A70		41
352	10	240		DCW	&@DCW@		3	2581	G59		41
353	10	250		B	PLACE		4	2582	B A70		41
354	11	010		DCW	&@.OP@		3	2588	G62		41
355	11	020	DECL12	B	PLACE		4	2589	B A70		41
356	11	030		DCW	COMAT		3	2595	F88		41
357	11	040	XDECL4	NOP	CBLOOP		4	2596	N P25		41
358	11	050	DECL2	MLZS	0&X2,OUTSYM#3		7	2600	Y 0!0 G65		42
359	11	060		MLNS	0&X2,OUTSYM		7	2607	D 0!0 G65		42
360	11	070		SAR	X2		4	2614	Q 094		42
361	11	080		B	PLACE		4	2618	B A70		42
362	11	090		DCW	OUTSYM		3	2624	G65		42
363	11	100	XDECL3	BCE	XDECL1,OUTSYM,@		8	2625	B 037 G65 @		42
364	11	110		B	DECL2		4	2633	B 000		42
365	11	120	XDECL1	B	PLACE		4	2637	B A70		43
366	11	130		DCW	MACSEP		3	2643	F91		43
367	11	140		BCE	XDECL2,CBLMSK-2,0		8	2644	B 077 R92 0		43
368	11	150		MLC	X2SAVE,X2		7	2652	M G53 094		43
369	11	160		B	PLACE		4	2659	B A70		43
370	11	170		DCW	CBLMSK		3	2665	R94		43
371	11	180		MLC	@B@,XDECL4		7	2666	M G28 N96		43
372	11	190		B	DECL10		4	2673	B N68		44
373	11	200	XDECL2	MLC	@N@,XDECL4		7	2677	M G66 N96		44
374	11	210	XDECL	B	0		4	2684	B 000		44
375	11	220	SUPRT3	BW	SUSS,CLRBFR		8	2688	V !37 ?!3 1		44
376	11	230		B	FCRERR		4	2696	B Z29		44
377	11	240	SRSNGL	SBR	XSNGL&3 SUPPLY SINGLE SYMBOL OF PICTURE		4	2700	H P24		44
378	11	250		MLC	NEXT#3,SINGLE#3		7	2704	M G69 G72		44
379	12	010		B	GETX		4	2711	B 335		45
380	12	020		DCW	NEXT		3	2717	G69		45
381	12	030		DCW	ERR		3	2720	F26		45
382	12	040	XSNGL	B	0		4	2721	B 000		45
383	12	050	CBLOOP	BCE	CBLOP1,0&X2,@		8	2725	B P63 0!0 @		45
384	12	060		BWZ	CBLOP2,0&X2,1		8	2733	V P81 0!0 1		45
385	12	070		SBR	X2		4	2741	H 094		45
386	12	080		MLNS	@ @,OUTSYM		7	2745	D G21 G65		46
387	12	090	CBLOP3	B	PLACE		4	2752	B A70		46
388	12	100		DCW	OUTSYM		3	2758	G65		46
389	12	110		B	CBLOOP		4	2759	B P25		46
390	12	120	CBLOP1	B	PLACE		4	2763	B A70		46
391	12	130		DCW	COMAT		3	2769	F88		46
392	12	140		B	PLACE		4	2770	B A70		46
393	12	150		DCW	MACSEP		3	2776	F91		47
394	12	160		B	XDECL2		4	2777	B 077		47
395	12	170	CBLOP2	CW	0&X2		4	2781	) 0!0		47
396	12	180		SBR	X2		4	2785	H 094		47
397	12	190		MLNS	@@,OUTSYM		7	2789	D G18 G65		47

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
398	12	200		B	CBLOP3		4	2796	B P52		47
399	12	210	MASK	SBR	X1		4	2800	H 089		47
400	12	220		C	X2,&EDMSKR-2		7	2804	C 094 G75		48
401	12	230		BE	FCRERR MASK TOO BIG		5	2811	B Z29 S		48
402	12	240		MLC	0&X1,2&X2		7	2816	M 0|0 0|2		48
403	12	250		SBR	X2		4	2823	H 094		48
404	13	010		B	1&X1		4	2827	B 0|1		48
405	13	020		DCW	@@@		1	2831			48
406	13	030	EDMSKL	DA	1X122			2832	2953		48
407	13	040	EDMSKR	DC	@ @		1	2954			49
408	13	050		DCW	@@@		1	2955			49
409	13	060		DCW	@.DS@	****	3	2958			49
410	13	070	DESLFT	DA	1X48	****		2959	3006		49
411	13	080	SIZE		9			2967		SBFLD	
412	13	090	DECIML		12	****		2970		SBFLD	
413	13	100	EDITSW		27	****		2985		SBFLD	
414	13	110	EDCLSW		33	****		2991		SBFLD	
415	13	120	PICLFT		34	****		2992		SBFLD	
416	13	130	LEVING		36	****		2994		SBFLD	
417	13	140	BLANK		30	****		2988		SBFLD	
418	13	150	CHARCN		45	****		3003		SBFLD	
419	13	160	MASK01		33	****		2991		SBFLD	
420	13	170	A/CMSK		33	****		2991		SBFLD	
421	13	180	MASKCB		36	****		2994		SBFLD	
422	13	190	CBLMSK		36	****		2994		SBFLD	
423	13	200	ED1		39	****		2997		SBFLD	
424	13	210	ED2		42	****		3000		SBFLD	
425	13	220	FLPLSW	DC	#1		1	3007			50
426	13	230	FLOTSW	DC	#1		1	3008			50
427	13	240	PROTSW	DC	#1		1	3009			50
428	13	250	ZEROSW	DC	#1		1	3010			50
429	14	010	FLMNSW	DC	#1		1	3011			50
430	14	020	DECSW	DC	#1		1	3012			50
431	14	030	CLRBFR	DC	@0@	****	1	3013			50
432	14	040	EOJ	B	PLACE		4	3014	B A70		50
433	14	050		DCW	&@.DE@		3	3020	G78		50
434	14	060		B	PLACE		4	3021	B A70		50
435	14	070		DCW	&@.EB@		3	3027	G81		50
436	14	080		B	PUTX		4	3028	B 363		51
437	14	090		DCW	SX		3	3034	F73		51
438	14	100		B	SUPER		4	3035	B 351		51
439	14	110		DCW	@D04@		3	3041			51
440	14	120	PICT4	B	SRSNGL		4	3042	B P00		51
441	14	130	TESTN	BCE	PICT5,SINGLE, BLANK MEANS END OF PICTURE		8	3046	B M84 G72		51
442	14	140		BCE	ZERORT,SINGLE,0		8	3054	B M06 G72 0		51
443	14	150		BCE	BLNKRT,SINGLE,B		8	3062	B M52 G72 B		52
444	14	160		BCE	COMART,SINGLE,,		8	3070	B M75 G72 ,		52
445	14	170		BCE	DECRT1,SINGLE,V		8	3078	B J48 G72 V		52
446	14	180		BCE	DECMRT,SINGLE,.		8	3086	B J36 G72 .		52
447	14	190		BCE	PLUSRT,SINGLE,&		8	3094	B K61 G72 &		53

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
448	14	200		BCE	MINSRT,SINGLE,-	8		3102	B L37 G72 -		53
449	14	210		BCE	CREDRT,SINGLE,R	8		3110	B K33 G72 R		53
450	14	220		BCE	FLOTRT,SINGLE,\$	8		3118	B J59 G72 \$		53
451	14	230		BCE	PRTCRT,SINGLE,*	8		3126	B !85 G72 *		54
452	14	240		BCE	SUSPRT,SINGLE,Z	8		3134	B !13 G72 Z		54
453	14	250		BCE	FCRERR,SINGLE,X	8		3142	B Z29 G72 X		54
454	15	010		BCE	FCRERR,SINGLE,A	8		3150	B Z29 G72 A		54
455	15	020		BCE	NUMBRT,SINGLE,9	8		3158	B !76 G72 9		55
456	15	030		B	FCRERR	4		3166	B Z29		55
457	15	040	PLACE	SBR	X1	4		3170	H 089		55
458	15	050		SBR	PLC2&3,3&X1	7		3174	H B44 0|3		55
459	15	060		MLC	2&X1,PLC1&3	7		3181	M 0|2 A91		55
460	15	070	PLC1	MLC	0,PLCSY	7		3188	M 000 C24		55
461	15	080	PLC1A	MLC	PLCSY,PLCB	7		3195	M C24 C27		56
462	15	090		C	PLCSY,@.EB@	7		3202	C C24 G81		56
463	15	100		BE	PLC3	5		3209	B B45 S		56
464	15	110		C	PLC1A&6,&PLCMAX	7		3214	C B01 G84		56
465	15	120		BE	PLC3	5		3221	B B45 S		56
466	15	130		MA	@003@,PLC1A&6					MACRO	
467				SW	PLC1A&6-2	4		3226	, A99	GEN	56
468				A	@003@,PLC1A&6	7		3230	A G13 B01	GEN	57
469				CW	PLC1A&6-2	4		3237	) A99	GEN	57
470	15	140	PLC2	B	0	4		3241	B 000		57
471	15	150	PLC3	SW	PLC5&1	4		3245	, C21		57
472	15	160		B	IORW	4		3249	B 343		57
473	15	170		RT	4,PLC5	8		3253	M %U4 C20 R		57
474	15	180		DCW	PLC4	3		3263	B68		57
475	15	190		B	PLC3	4		3264	B B45		58
476	15	200	PLC4	BSP	4	5		3268	U %U4 B		58
477	15	210		SW	PLCMAX&1	4		3273	, F25		58
478	15	220		B	IORW	4		3277	B 343		58
479	15	230		WT	4,PLCA	8		3281	M %U4 C25 W		58
480	15	240		DCW	*&1	3		3291	B92		58
481	15	250		WTM	4	5		3292	U %U4 M		58
482	16	010		BSP	4	5		3297	U %U4 B		59
483	16	020		MLC	&PLCB,PLC1A&6	7		3302	M G87 B01		59
484	16	030		ZA	@0@,PLCMAX	7		3309	? G18 F24		59
485	16	040		B	PLC2	4		3316	B B41		59
486	16	050	PLC5	EQU	*&1			3320			
487	16	060		DCW	@ }@	2		3321			59
488	16	070	PLCSY	DCW	#3	3		3324			59
489	16	080		DA	1X300			3325	3624		59
490	16	090	PLCA		1			3325		SBFLD	
491	16	100	PLCB		3			3327		SBFLD	
492	16	110	PLCMAX	EQU	*			3624			
493	16	120		DC	@}@	1		3625			60
494	16	130	ERR	CS	333	4		3626	/ 333		60
495	16	140		CS		1		3630	/		60
496	16	150		CC	1	2		3631	F 1		60
497	16	160		MLC	DIAG,260	7		3633	M F70 260		60

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
498	16	170		W			1	3640	2		61
499	16	180		CC	1		2	3641	F 1		61
500	16	190		B	DUMP		4	3643	B 359		61
501	16	200	DIAG	DCW	@SYSTEM FAILURE PHASE D03@		24	3670			61
502	16	210	SX	DCW	#3		3	3673			61
503	16	220	COUNT	DCW	#3		3	3676			61
504	16	230	NINULL	DCW	@000K KK K@ FORMERLY NINE NULLS TO INITIALIZE		9	3685			62
505	16	240	COMAT	DCW	@ @@		3	3688			62
506	16	250	MACSEP	DCW	@.MC@		3	3691			62
507	17	010		LTORG					3692		
				DCW	@.ED@		3	3694		LIT	62
					@.LV@		3	3697		LIT	62
					@.DS@		3	3700		LIT	62
					@@@		1	3701		LIT	62
		139			&DESLFT&2		3	3704	R61	ADCON	63
					@.PD@		3	3707		LIT	63
					@.PC@		3	3710		LIT	63
					@003@		3	3713		LIT	63
					@000@		3	3716		LIT	63
					@1@		1	3717		LIT	63
					@0@		1	3718		LIT	63
					@*@		1	3719		LIT	64
					@\$@		1	3720		LIT	64
					@ @		1	3721		LIT	64
					@ K@		3	3724		LIT	64
		191			&DESLFT-7		3	3727	R52	ADCON	64
					@B@		1	3728		LIT	64
					@.DG@		3	3731		LIT	64
					@D14@		3	3734		LIT	65
					@.KK@		3	3737		LIT	65
					@2@		1	3738		LIT	65
					@D D@		3	3741		LIT	65
					@& &@		3	3744		LIT	65
					@001@		3	3747		LIT	65
					@- -@		3	3750		LIT	65
		346	X2SAVE		#03		3	3753		AREA	66
					@.LC@		3	3756		LIT	66
					@DCW@		3	3759		LIT	66
					@.OP@		3	3762		LIT	66
		358	OUTSYM		#03		3	3765		AREA	66
					@N@		1	3766		LIT	66
		378	NEXT		#03		3	3769		AREA	66
		378	SINGLE		#03		3	3772		AREA	67
		400			&EDMSKR-2		3	3775	R52	ADCON	67
					@.DE@		3	3778		LIT	67
					@.EB@		3	3781		LIT	67
		464			&PLCMAX		3	3784	F24	ADCON	67
		483			&PLCB		3	3787	C27	ADCON	67
508	17	020		DCW	@} @		1	3788			67
509	17	030		END					/ 000 080		68

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CLEAR STORAGE 1 ,008015,019026,030,034041,045,053,0570571026 1
CLEAR STORAGE 2 L068112,102106,113/101099/I99,027A070028)027B0010270B0261,001/001113I0 2
BOOTSTRAP ,008015,022029,036040,047054,061068,072/061039 ,0010011040 3

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1401 COBOL - D04 PAGE 1

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
101	1	010	000	JOB	1401 COBOL - D04						
102	1	020		CTL	631 11						
103	1	030	X1	EQU	89			0089			
104	1	040	X2	EQU	94			0094			
105	1	050	X3	EQU	99			0099			
106	1	060	GETX	EQU	335			0335			
107	1	070	IORW	EQU	343			0343			
108	1	080	SUPER	EQU	351			0351			
109	1	090	DUMP	EQU	359			0359			
110	1	100	PUTX	EQU	363			0363			
111	1	110	CONST	EQU	188			0188			
112	1	120	SCRBKT	EQU	1126			1126			
113	1	130		ORG	1300				1300		
114	1	140		MLC	&TABLER,X2	7		1300	M R66	094	4
115	1	150	START	MLC	1&X2,0&X2	7		1307	M 0!1	0!0	4
116	1	160		SBR	X3	4		1314	H 099		4
117	1	170	AA1	B	GETX	4		1318	B 335		4
118	1	180		DCW	SX	3		1324	Q97		4
119	1	190		DCW	ERR	3		1327	R01		4
120	1	200		B	PUTX	4		1328	B 363		4
121	1	210		DCW	SX	3		1334	Q97		5
122	1	220		C	SX,@/24@	7		1335	C Q97	R69	5
123	1	230		BU	AA1	5		1342	B T18	/	5
124	1	240	AA2	B	SRSKIP	4		1347	B L22		5
125	1	250		B	SRGET	4		1351	B N95		5
126	2	010		B	SRPUT	4		1355	B 013		5
127	2	020		C	SX,PROCI	7		1359	C Q97	Q85	5
128	2	030		BE	EOJ1	5		1366	B K53	S	6
129	2	040		C	SX,LEVELI	7		1371	C Q97	Q73	6
130	2	050		BU	AA2	5		1378	B T47	/	6
131	2	060		B	SRGET	4		1383	B N95		6
132	2	070		C	SX,2&X3	7		1387	C Q97	0?2	6
133	2	080		BL	PLACE	5		1394	B W51	T	6
134	2	090		B	FORCE	4		1399	B U15		6
135	2	100	BB2	C	SX,2&X3	7		1403	C Q97	0?2	7
136	2	110		BL	PLACE1	5		1410	B W44	T	7
137	2	120	FORCE	MLC	SX,FRCLVL	7		1415	M Q97	R00	7
138	2	130		C	ZEROS4,2&X3	7		1422	C Q94	0?2	7
139	2	140		BE	FORCE2	5		1429	B V87	S	7
140	2	150		B	PUTX	4		1434	B 363		7
141	2	160		DCW	LEVELI	3		1440	Q73		7
142	2	170		MLC	2&X3,SX	7		1441	M 0?2	Q97	8
143	2	180		MLC	NULL,SX-2	7		1448	M Q52	Q95	8
144	2	190		B	SRPUT	4		1455	B 013		8
145	2	200		B	PUTX	4		1459	B 363		8
146	2	210		DCW	DESCRI	3		1465	R48		8
147	2	220		MLC	5&X3,SX	7		1466	M 0?5	Q97	8

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	2	230		MLZS	NULL,SX-1			7	1473	Y Q52 Q96	8
149	2	240		B	SRPUT			4	1480	B O13	9
150	2	250		B	SROUT			4	1484	B L77	9
151	3	010		B	PUTX			4	1488	B 363	9
152	3	020		DCW	NULL			3	1494	Q52	9
153	3	030		B	PUTX			4	1495	B 363	9
154	3	040		DCW	&@ X@	CLASS		3	1501	R72	9
155	3	050		B	PUTX			4	1502	B 363	9
156	3	060		DCW	NULL	WDMKS		3	1508	Q52	10
157	3	070		B	PUTX			4	1509	B 363	10
158	3	080		DCW	&@ G@			3	1515	R75	10
159	3	090		BWZ	FORCE8,4&X3,2	BRANCH IF NOT A JUSTIFIED CLAUSE		8	1516	V W22 0?4 2	10
160	3	100		BWZ	FORCE9,4&X3,K	B-ZONE IS RIGHT JUST		8	1524	V W33 0?4 K	10
161	3	110		MLC	@L@,JUSTIF			7	1532	M R76 R51	10
162	3	120	FORCE7	B	PUTX			4	1539	B 363	10
163	3	130		DCW	JUSTIF			3	1545	R51	11
164	3	140		B	PUTX			4	1546	B 363	11
165	3	150		DCW	&@.KK@	NO EDIT		3	1552	R79	11
166	3	160		B	SRSUBC			4	1553	B P33	11
167	3	170		B	PUTX			4	1557	B 363	11
168	3	180		DCW	PERODI			3	1563	Q67	11
169	3	190		B	SROCRS			4	1564	B O28	11
170	3	200		B	SRREDF			4	1568	B L50	12
171	3	210		B	SRZERO			4	1572	B M28	12
172	3	220		MLC	FRCLVL,SX			7	1576	M R00 Q97	12
173	3	230		B	BB2			4	1583	B U03	12
174	3	240	FORCE2	B	PUTX	AFTER ALL LEVELS ARE FORCED OFF		4	1587	B 363	12
175	3	250		DCW	SXSAVE			3	1593	Q55	12
176	4	010		C	SXSAVE,LEVELI			7	1594	C Q55 Q73	12
177	4	020		BE	PLACE			5	1601	B W51 S	13
178	4	030		C	SXSAVE,PROCI			7	1606	C Q55 Q85	13
179	4	040		BE	EOJ1			5	1613	B K53 S	13
180	4	050		B	AA2	HIT VERB - NOT PROC DIV		4	1618	B T47	13
181	4	060	FORCE8	MLC	@K@,JUSTIF	NO JUSTIFICATION		7	1622	M R80 R51	13
182	4	070		B	FORCE7			4	1629	B V39	13
183	4	080	FORCE9	MLC	@R@,JUSTIF	JUSTIFIED RIGHT		7	1633	M R81 R51	13
184	4	090		B	FORCE7			4	1640	B V39	14
185	4	100	PLACE1	B	PUTX			4	1644	B 363	14
186	4	110		DCW	LEVELI			3	1650	Q73	14
187	4	120	PLACE	B	SRPUT			4	1651	B O13	14
188	4	130	PLACE3	C	ZEROS4,2&X3	IS TABLE CLEARED		7	1655	C Q94 0?2	14
189	4	140		BE	PLACE2			5	1662	B W75 S	14
190	4	150	PLAC3A	SW	15&X3	SET WDMK & POINTER FOR NEXT LVL		4	1667	, OA5	14
191	4	160		SBR	X3			4	1671	H O99	15
192	4	170	PLACE2	MLC	SX,2&X3	STORE LEVEL		7	1675	M Q97 0?2	15
193	4	180	*	ANALYZE	SYMBOLS WITHIN AN ITEM						
194	4	190	CC2	B	SRGET			4	1682	B N95	15
195	4	200		C	SX,DESCRI	DESCRIPTION RT		7	1686	C Q97 R48	15
196	4	210		BE	DESCRT			5	1693	B X42 S	15
197	4	220		C	SX,OCCURI			7	1698	C Q97 Q79	15

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
198	4	230		BE	OCCURT			5	1705	B K05 S	15
199	4	240		C	SX,REDEFI			7	1710	C Q97 Q76	16
200	4	250		BE	REDFRT			5	1717	B J47 S	16
201	5	010		C	SX,RECLNI			7	1722	C Q97 Q82	16
202	5	020		BE	RECLRT			5	1729	B J28 S	16
203	5	030	CC3	B	SRPUT			4	1734	B O13	16
204	5	040		B	CC2			4	1738	B W82	16
205	5	050	DESCRT	B	SRGET			4	1742	B N95	16
206	5	060		MLC	SX,5&X3	STORE	NAME	7	1746	M Q97 0?5	17
207	5	070		B	SRGET			4	1753	B N95	17
208	5	080		MLNS	SX,7&X3			7	1757	D Q97 0?7	17
209	5	090		MLNS				1	1764	D	17
210	5	100		B	SRGET			4	1765	B N95	17
211	5	110		MLC	SX,10&X3			7	1769	M Q97 0A0	17
212	5	120		B	GETX			4	1776	B 335	17
213	5	130		DCW	DECIML			3	1782	R63	18
214	5	140		DCW	ERR			3	1785	R01	18
215	5	150		B	GETX			4	1786	B 335	18
216	5	160		DCW	CLASS			3	1792	R60	18
217	5	170		DCW	ERR			3	1795	R01	18
218	5	180		B	GETX			4	1796	B 335	18
219	5	190		DCW	WDMKS			3	1802	R57	18
220	5	200		DCW	ERR			3	1805	R01	19
221	5	210		B	GETX			4	1806	B 335	19
222	5	220		DCW	TYPE			3	1812	R54	19
223	5	230		DCW	ERR			3	1815	R01	19
224	5	240		MLC	10&X3,SIZSAV			7	1816	M 0A0 Q60	19
225	5	250		BCE	*&8,REDFSW,0			8	1823	B Y38 Q63 0	19
226	6	010		MLZS	BELIT,10&X3	SET	REDEFINES SWITCH	7	1831	Y Q89 0A0	19
227	6	020		BCE	GRPLAC,TYPE,G			8	1838	B !23 R54 G	20
228	6	030		B	SRADD	ELEM	OUT	4	1846	B M92	20
229	6	040		BCE	RLIOUT,RLISW,1			8	1850	B K85 Q62 1	20
230	6	050		B	PUTX			4	1858	B 363	20
231	6	060		DCW	DESCRI			3	1864	R48	20
232	6	070		MLC	5&X3,SX	NAME		7	1865	M 0?5 Q97	20
233	6	080		B	SRPUT			4	1872	B O13	20
234	6	090		B	SROUT			4	1876	B L77	21
235	6	100		B	PUTX			4	1880	B 363	21
236	6	110		DCW	DECIML			3	1886	R63	21
237	6	120		B	PUTX	G		4	1887	B 363	21
238	6	130		DCW	CLASS			3	1893	R60	21
239	6	140		B	PUTX			4	1894	B 363	21
240	6	150		DCW	WDMKS			3	1900	R57	21
241	6	160		B	PUTX			4	1901	B 363	22
242	6	170		DCW	TYPE			3	1907	R54	22
243	6	180	DESCR1	B	SRGET			4	1908	B N95	22
244	6	190		C	SX,PERODI			7	1912	C Q97 Q67	22
245	6	200		BE	DESCR2			5	1919	B Z32 S	22
246	6	210		B	SRPUT			4	1924	B O13	22
247	6	220		B	DESCR1			4	1928	B Z08	22

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
248	6	230	DESCR2	B	SRSUBC		4	1932	B P33		23
249	6	240		B	PUTX		4	1936	B 363		23
250	6	250		DCW	PERODI		3	1942	Q67		23
251	7	010		B	SROCRS		4	1943	B O28		23
252	7	020		B	SRREDF		4	1947	B L50		23
253	7	030		B	SRZERO		4	1951	B M28		23
254	7	040		B	FF2		4	1955	B Z66		23
255	7	050	FF4	B	PUTX		4	1959	B 363		24
256	7	060		DCW	PERODI		3	1965	Q67		24
257	7	070	FF2	B	SRSWCH		4	1966	B M70		24
258	7	080		B	GETX		4	1970	B 335		24
259	7	090		DCW	SXSAVE		3	1976	Q55		24
260	7	100		DCW	ERR		3	1979	R01		24
261	7	110		C	SXSAVE, LEVELI		7	1980	C Q55 Q73		24
262	7	120		BU	GGX1		5	1987	B J17 /		25
263	7	130		B	SRGET		4	1992	B N95		25
264	7	140	GG4	C	SX, 2&X3		7	1996	C Q97 0?2		25
265	7	150		BL	GG5		5	2003	B !12 T		25
266	7	160		B	FORCE		4	2008	B U15		25
267	7	170	GG5	B	PUTX		4	2012	B 363		25
268	7	180		DCW	LEVELI		3	2018	Q73		25
269	7	190		B	PLACE		4	2019	B W51		26
270	7	200	GRPLAC	B	SRGET		4	2023	B N95		26
271	7	210		BCE	GRPLS1, SX, K		8	2027	B !57 Q97 K		26
272	7	220		MLZS	@R@, 4&X3		7	2035	Y R81 0?4		26
273	7	230		BCE	GRPLS1, SX, R		8	2042	B !57 Q97 R		26
274	7	240		MLZS	*-6, 4&X3		7	2050	Y !50 0?4		26
275	7	250	GRPLS1	B	SRGET		4	2057	B N95		27
276	8	010		C	SX, PERODI	SHOULD BE END OF ENTRY ELSE DROP	7	2061	C Q97 Q67		27
277	8	020		BU	GRPLS1		5	2068	B !57 /		27
278	8	030		B	PUTX		4	2073	B 363		27
279	8	040		DCW	&@#GR@		3	2079	R84		27
280	8	050		MLC	5&X3, SX	NAME OUT	7	2080	M 0?5 Q97		27
281	8	060		MLZS	NULL, SX-1		7	2087	Y Q52 Q96		27
282	8	070		B	SRPUT		4	2094	B O13		28
283	8	080		BCE	FF4, WDMKS, 0		8	2098	B Z59 R57 0		28
284	8	090		B	PUTX		4	2106	B 363		28
285	8	100		DCW	&@#WM@		3	2112	R87		28
286	8	110		B	FF4		4	2113	B Z59		28
287	8	120	GGX1	MLC	ZEROS4, SX	SET SX TO SHALLOWEST	7	2117	M Q94 Q97		28
288	8	130		B	FORCE		4	2124	B U15		28
289	8	140	RECLRT	BCE	CC2, RLISW, 1		8	2128	B W82 Q62 1		29
290	8	150		MLC	ONE, RLISW	SET SWW FOR PUTTING RLI AFTER SIZEADD	7	2136	M Q61 Q62		29
291	8	160		B	CC2	GET NEXT & ANALYZE	4	2143	B W82		29
292	8	170	REDFRT	B	SRPUT	PUT REDEFINES OPER	4	2147	B O13		29
293	8	180		S	@1@, SIZSAV		7	2151	S R88 Q60		29
294	8	190		MLZS	@1@, SIZSAV		7	2158	Y R88 Q60		29
295	8	200		ZA	SIZSAV-3, SX		7	2165	? Q57 Q97		30
296	8	210		MLZS	BLK, SX		7	2172	Y Q90 Q97		30
297	8	220		B	SRPUT		4	2179	B O13		30

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
298	8	230		MLC	SIZSAV,SX	7		2183	M Q60 Q97		30
299	8	240		B	SRPUT	4		2190	B O13		30
300	8	250		MLC	ONE,REDFSW	7		2194	M Q61 Q63		30
301	9	010		B	CC2	4		2201	B W82		31
302	9	020	OCCURT	B	SRGET	4		2205	B N95		31
303	9	030		MLNS	SX,11&X3	7		2209	D Q97 0A1		31
304	9	040		B	SRGET	4		2216	B N95		31
305	9	050		MLC	SX,14&X3	7		2220	M Q97 0A4		31
306	9	060		BCE	*&8,SUBSW,1	8		2227	B K42 Q64 1		31
307	9	070		MLC	2&X3,TOPOCR#2	7		2235	M 0?2 R90		32
308	9	080		MLC	ONE,SUBSW	7		2242	M Q61 Q64		32
309	9	090		B	CC2	4		2249	B W82		32
310	9	100	EOJ1	B	GETX	4		2253	B 335		32
311	9	110		DCW	SX	3		2259	Q97		32
312	9	120		DCW	EOJ2	3		2262	K74		32
313	9	130		B	PUTX	4		2263	B 363		32
314	9	140		DCW	SX	3		2269	Q97		33
315	9	150		B	EOJ1	4		2270	B K53		33
316	9	160	EOJ2	B	SRPUT	4		2274	B O13		33
317	9	170		B	SUPER	4		2278	B 351		33
318	9	180		DCW	@D05@	3		2284			33
319	9	190	RLIOUT	SBR	EXRLI&3	4		2285	H L21		33
320	9	200		B	PUTX	4		2289	B 363		33
321	9	210		DCW	RECLNI	3		2295	Q82		34
322	9	220		MLC	TABLEL,X3	7		2296	M ?01 099		34
323	9	230		B	SROUT	4		2303	B L77		34
324	9	240		MLC	0&X2,0&X2	7		2307	M 0!0 0!0		34
325	9	250		SBR	X3	4		2314	H 099		34
326	10	010	EXRLI	B	0	4		2318	B 000		34
327	10	020	*	SRSKIP	SUB ROUTINE GETS AND PUTS UNTIL NEXT PERIOD						
328	10	030	SRSKIP	SBR	EXSKIP&3	4		2322	H L49		34
329	10	040	SKIP1	B	SRGET	4		2326	B N95		35
330	10	050		B	SRPUT	4		2330	B O13		35
331	10	060		C	SX,PERODI	7		2334	C Q97 Q67		35
332	10	070		BU	SKIPL	5		2341	B L26 /		35
333	10	080	EXSKIP	B	0	4		2346	B 000		35
334	10	090	*	PUT OUT	ORG BLANK CUE IF AT REDEFINED LEVEL						
335	10	100	SRREDF	SBR	EXREDF&3	4		2350	H L65		35
336	10	110		BWZ	REDF1,10&X3,B	8		2354	V L66 0A0 B		35
337	10	120	EXREDF	B	0	4		2362	B 000		36
338	10	130	REDF1	B	PUTX	4		2366	B 363		36
339	10	140		DCW	&@/OG@	3		2372	R93		36
340	10	150		B	EXREDF	4		2373	B L62		36
341	10	160	*	PICKS OUT	&IPUTS OUT SIZE OF X3/POINTER ENTRY						
342	10	170	SROUT	SBR	EXOUT&3	4		2377	H M27		36
343	10	180		MLC	10&X3,SIZSAV	7		2381	M 0A0 Q60		36
344	10	190		ZA	SIZSAV-3,SX	7		2388	? Q57 Q97		36
345	10	200		MLZS	BLK,SX	7		2395	Y Q90 Q97		37
346	10	210		B	SRPUT	4		2402	B O13		37
347	10	220		MLC	SIZSAV,SX	7		2406	M Q60 Q97		37

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
348	10	230		MLZS	BLK, SX		7	2413	Y Q90 Q97		37
349	10	240		B	SRPUT		4	2420	B 013		37
350	10	250	EXOUT	B	0		4	2424	B 000		37
351	11	010	*		ZERO OUT FORCED ENTRY AND RESET SWITCHES						
352	11	020	SRZERO	SBR	EXZERO&3		4	2428	H M69		37
353	11	030		MLC	15&X3, 14&X3		7	2432	M 0A5 0A4		38
354	11	040		C	X3, TABLEL		7	2439	C 099 ?01		38
355	11	050		BE	EXZERO		5	2446	B M66 S		38
356	11	060		CW	1&X3		4	2451	) 0?1		38
357	11	070		MLC	0&X3, 0&X3		7	2455	M 0?0 0?0		38
358	11	080		SBR	X3		4	2462	H 099		38
359	11	090	EXZERO	B	0		4	2466	B 000		38
360	11	100	SRSWCH	SBR	EXSWCH&3		4	2470	H M91		39
361	11	110		MLC	NULL, REDFSW		7	2474	M Q52 Q63		39
362	11	120		MLC	NULL, RLISW		7	2481	M Q52 Q62		39
363	11	130	EXSWCH	B	0		4	2488	B 000		39
364	11	140	*		ADD SIZSAV TO EACH LEVEL UNTIL FIRST REDEFINES						
365	11	150	SRADD	SBR	EXADD&3		4	2492	H N94		39
366	11	160		C	X3, TABLEL		7	2496	C 099 ?01		39
367	11	170		BE	EXADD		5	2503	B N91 S		39
368	11	180		BWZ	EXADD, 10&X3, B		8	2508	V N91 0A0 B		40
369	11	190		MLC	BELIT, ADD3		7	2516	M Q89 N76		40
370	11	200	ADD1	MLC	0&X3, 0&X3		7	2523	M 0?0 0?0		40
371	11	210		SBR	X3		4	2530	H 099		40
372	11	220		C	TABLEL, X3		7	2534	C ?01 099		40
373	11	230		BU	*&8		5	2541	B N53 /		40
374	11	240		MLC	@N@, ADD3		7	2546	M R94 N76		41
375	11	250		SW	6&X3		4	2553	, 0?6		41
376	12	010		A	SIZSAV, 10&X3		7	2557	A Q60 0A0		41
377	12	020		CW	6&X3		4	2564	) 0?6		41
378	12	030		BWZ	ADD2, 10&X3, B		8	2568	V N80 0A0 B		41
379	12	040	ADD3	B	ADD1		4	2576	B N23		41
380	12	050	ADD2	MLC	0&X2, 0&X2		7	2580	M 0!0 0!0		42
381	12	060		SBR	X3		4	2587	H 099		42
382	12	070	EXADD	B	0		4	2591	B 000		42
383	12	080	*		GETS SX						
384	12	090	SRGET	SBR	EXGET&3		4	2595	H 012		42
385	12	100		B	GETX		4	2599	B 335		42
386	12	110		DCW	SX		3	2605	Q97		42
387	12	120		DCW	ERR		3	2608	R01		42
388	12	130	EXGET	B	0		4	2609	B 000		43
389	12	140	*		PUT SX						
390	12	150	SRPUT	SBR	EXPUT&3		4	2613	H 027		43
391	12	160		B	PUTX		4	2617	B 363		43
392	12	170		DCW	SX		3	2623	Q97		43
393	12	180	EXPUT	B	0		4	2624	B 000		43
394	12	190	*		OCCURS EXPAND AND ADD- PAD SIZE OUT -SUBSCRIP DEPTH NAMES						
395	12	200	SROCRS	SBR	EXOCRS&3		4	2628	H P32		43
396	12	210		C	14&X3, ZEROS4		7	2632	C 0A4 Q94		43
397	12	220		BE	EXOCRS		5	2639	B P29 S		44

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
398	12	230		SW	11&X3		4	2644	, 0A1		44
399	12	240	EE1	S	ONE,14&X3		7	2648	S Q61 0A4		44
400	12	250		C	14&X3,@000A@		7	2655	C 0A4 R98		44
401	13	010		BE	EE2		5	2662	B 078 S		44
402	13	020		A	10&X3,SIZSAV		7	2667	A 0A0 Q60		44
403	13	030		B	EE1		4	2674	B 048		44
404	13	040	EE2	CW	11&X3		4	2678	) 0A1		45
405	13	050		B	PUTX		4	2682	B 363		45
406	13	060		DCW	OCCURI		3	2688	Q79		45
407	13	070		ZA	SIZSAV-3,SX		7	2689	? Q57 Q97		45
408	13	080		MLZS	BLK,SX		7	2696	Y Q90 Q97		45
409	13	090		B	SRPUT		4	2703	B 013		45
410	13	100		MLC	SIZSAV,SX		7	2707	M Q60 Q97		45
411	13	110		B	SRPUT		4	2714	B 013		46
412	13	120		B	SRADD		4	2718	B M92		46
413	13	130		MLC	10&X3,SIZSAV		7	2722	M 0A0 Q60		46
414	13	140	EXOCRS	B	0		4	2729	B 000		46
415	13	150	*		SUBSCRIPT DEPTH NAMES OUT AND SUBSW RESWT WHEN EQU						
416	13	160	SRSUBC	SBR	EXSUBC&3		4	2733	H Q49		46
417	13	170		BCE	EXSUBC,SUBSW,0		8	2737	B Q46 Q64 0		46
418	13	180		B	PUTX		4	2745	B 363		46
419	13	190		DCW	SUBSCI		3	2751	Q70		47
420	13	200	EE4	C	14&X3,ZEROS4		7	2752	C 0A4 Q94		47
421	13	210		BE	EE3		5	2759	B P82 S		47
422	13	220		MLC	5&X3,SX		7	2764	M 0?5 Q97		47
423	13	230		MLZS	NULL,SX-1		7	2771	Y Q52 Q96		47
424	13	240		B	SRPUT		4	2778	B 013		47
425	13	250	EE3	C	TABLEL,X3		7	2782	C ?01 099		48
426	14	010		BE	EE5		5	2789	B Q09 S		48
427	14	020		MLC	0&X3,0&X3		7	2794	M 0?0 0?0		48
428	14	030		SBR	X3		4	2801	H 099		48
429	14	040		B	EE4		4	2805	B P52		48
430	14	050	EE5	B	PUTX		4	2809	B 363		48
431	14	060		DCW	SUBSCI		3	2815	Q70		48
432	14	070		MLC	0&X2,0&X2		7	2816	M 0!0 0!0		49
433	14	080		SBR	X3		4	2823	H 099		49
434	14	090		C	2&X3,TOPOCR		7	2827	C 0?2 R90		49
435	14	100		BU	EXSUBC		5	2834	B Q46 /		49
436	14	110		MLC	NULL,SUBSW		7	2839	M Q52 Q64		49
437	14	120	EXSUBC	B	0		4	2846	B 000		49
438	14	130	NULL	DCW	@000@		3	2852			49
439	14	140	SXSAVE	DCW	@000@		3	2855			50
440	14	150	SIZSAV	DCW	#5		5	2860			50
441	14	160	ONE	DCW	1		1	2861			50
442	14	170	RLISW	DCW	@0@	1 MEANS ENTRY A DEPENDING	1	2862			50
443	14	180	REDFSW	DCW	@0@	1 MEANS ENTRY REDEFINES PRECDING	1	2863			50
444	14	190	SUBSW	DCW	@0@	1 IF ANY SUBSCRIPTING	1	2864			50
445	14	200	PERODI	DCW	@.PD@		3	2867			50
446	14	210	SUBSCI	DCW	@.SB@		3	2870			51
447	14	220	LEVELI	DCW	@.LV@		3	2873			51

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
448	14	230	REDEFI	DCW	@/05@		3	2876			51
449	14	240	OCCURI	DCW	@/14@		3	2879			51
450	14	250	RECLNI	DCW	@*03@		3	2882			51
451	15	010	PROCI	DCW	@*01@		3	2885			51
452	15	020	GROUPI	DCW	@#GR@		3	2888			51
453	15	030	BELIT	DCW	@B@		1	2889			52
454	15	040	BLK	DCW	@ @		1	2890			52
455	15	050	ZEROS4	DCW	@0000@		4	2894			52
456	15	060	SX	DCW	#3		3	2897			52
457	15	070	FRCLVL	DCW	#3		3	2900			52
458	15	080	ERR	CS	333		4	2901	/ 333		52
459	15	090		CS			1	2905	/		52
460	15	100		CC	1		2	2906	F 1		53
461	15	110		MLC	DIAG,260		7	2908	M R45 260		53
462	15	120		W			1	2915	2		53
463	15	130		CC	1		2	2916	F 1		53
464	15	140		B	DUMP		4	2918	B 359		53
465	15	150	DIAG	DCW	@SYSTEM FAILURE PHASE D04@		24	2945			54
466	15	160	DESCRI	DCW	@.DS@		3	2948	DESCRIPTION OPERATOR		54
467	15	170	JUSTIF	DCW	@ @		3	2951	BUCKET TO LOAD JUSTIFICATION CODE		54
468	15	180	TYPE	DCW	#3		3	2954			54
469	15	190	WDMKS	DCW	#3		3	2957			54
470	15	200	CLASS	DCW	#3		3	2960			54
471	15	210	DECIML	DCW	#3		3	2963			55
472	15	220		LTORG					2964		
		114		DCW	&TABLER		3	2966	G01	ADCON	55
					@/24@		3	2969		LIT	55
					@ X@		3	2972		LIT	55
					@ G@		3	2975		LIT	55
					@L@		1	2976		LIT	55
					@.KK@		3	2979		LIT	55
					@K@		1	2980		LIT	56
					@R@		1	2981		LIT	56
					@#GR@		3	2984		LIT	56
					@#WM@		3	2987		LIT	56
					@1@		1	2988		LIT	56
		307	TOPOCR		#02		2	2990		AREA	56
					@/OG@		3	2993		LIT	56
					@N@		1	2994		LIT	57
					@000A@		4	2998		LIT	57
473	15	230	TABLEL	DCW	*		3	3001	?01		57
474	15	240		DA	1X700			3002	3701		57
475	15	250	TABLER	EQU	*			3701			
476	16	010		DC	@0@		1	3702			58
477	16	020		DCW	@}@		1	3703			58
					GMWM						
478	16	030		END					/ 000 080		59

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CLEAR STORAGE 1      ,008015,019026,030,034041,045,053,0570571026      1
CLEAR STORAGE 2      L068112,102106,113/101099/I99,027A070028)027B0010270B0261,001/001113I0      2
BOOTSTRAP            ,008015,022029,036040,047054,061068,072/061039      ,0010011040      3

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1401 COBOL - D05 PAGE 1

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
101	1	010	000	JOB	1401 COBOL - D05						
102	1	020		CTL	631 11						
103	1	030	X1	EQU	89			0089			
104	1	040	X2	EQU	94			0094			
105	1	050	X3	EQU	99			0099			
106	1	060	GETX	EQU	335			0335			
107	1	070	IORW	EQU	343			0343			
108	1	080	SUPER	EQU	351			0351			
109	1	090	DUMP	EQU	359			0359			
110	1	100	PUTX	EQU	363			0363			
111	1	110	CONST	EQU	188			0188			
112	1	120	SCRBKT	EQU	1126			1126			
113	1	130		ORG	1300				1300		
114	1	140	AA1	B	GETX	4		1300	B 335		4
115	1	150		DCW	SX	3		1306	?01		4
116	1	160		DCW	ERR	3		1309	B68		4
117	1	170		B	PUTX	4		1310	B 363		4
118	1	180		DCW	SX	3		1316	?01		4
119	1	190		C	SX,@/24@	7		1317	C ?01 D85		4
120	1	200		BU	AA1	5		1324	B T00 /		4
121	1	210		B	SRSKIP	4		1329	B B37		5
122	1	220		B	SRSKIP	4		1333	B B37		5
123	1	230	MAIN	B	SRGET	4		1337	B B04		5
124	1	240		C	SX,@.LV@	7		1341	C ?01 D88		5
125	1	250		BE	LVLRT	5		1348	B X49 S		5
126	2	010		C	SX,@/26@	7		1353	C ?01 D91		5
127	2	020		BE	FDRT	5		1360	B V12 S		5
128	2	030		C	SX,@/14@	7		1365	C ?01 D94		6
129	2	040		BE	OCCURT	5		1372	B U79 S		6
130	2	050		C	SX,@.DG@	7		1377	C ?01 D97		6
131	2	060		BE	DIAGRT	5		1384	B J11 S		6
132	2	070		C	SX,@/OG@	7		1389	C ?01 E00		6
133	2	080		BE	ORIGRT	5		1396	B U45 S		6
134	2	090		C	SX,*01@	7		1401	C ?01 E03		7
135	2	100		BE	VERBRT	5		1408	B W84 S		7
136	2	110		C	SX,@/01@	7		1413	C ?01 E06		7
137	2	120		BE	VERBRT	5		1420	B W84 S		7
138	2	130		C	SX,@/09@	7		1425	C ?01 E09		7
139	2	140		BE	VERBRT	5		1432	B W84 S		7
140	2	150		B	SRPUT	4		1437	B B22		8
141	2	160		B	MAIN	4		1441	B T37		8
142	2	170	ORIGRT	MLC	LVADRS,X1	7		1445	M E33 089		8
143	2	180		MLC	TBLFT&X1,SX	7		1452	M CT1 ?01		8
144	2	190		MLZS	@ @,SX-1 DROP TAG	7		1459	Y E10 ?00		8
145	2	200		B	OPLACE	4		1466	B A79		8
146	2	210		DCW	@A@	1		1470		ORG N F&1	8
147	2	220		B	SRPUT	4		1471	B B22		9

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	2	230		B	MAIN		4	1475	B T37		9
149	2	240	OCCURT	B	GETX OCCURS RESERVE CORE NEEDED FOR PAD		4	1479	B 335		9
150	2	250		DCW	HOSIZE		3	1485	?19		9
151	3	010		DCW	ERR		3	1488	B68		9
152	3	020		B	GETX		4	1489	B 335		9
153	3	030		DCW	LOSIZE		3	1495	?22		9
154	3	040		DCW	ERR		3	1498	B68		10
155	3	050		B	OPLACE		4	1499	B A79		10
156	3	060		DCW	@B@ DECLARE DS		1	1503			10
157	3	070		B	SRPLZS PLACE SIZE W/ ZERO SUPPRESS		4	1504	B ?82		10
158	3	080		B	MAIN		4	1508	B T37		10
159	3	090	FDRT	BCE	FDRT0,FDSW,0 IF FD AND NO RLI PUT REC SIZE		8	1512	B V32 Q88 0		10
160	3	100		BCE	SRFDSZ,RLISW,0		8	1520	B W01 E13 0		10
161	3	110		B	SRFDDS PLACE FD DESCR		4	1528	B O44		11
162	3	120	FDRT0	B	SRPUT		4	1532	B B22		11
163	3	130	FDRT1	B	GETX		4	1536	B 335		11
164	3	140		DCW	FDNAME		3	1542	?13		11
165	3	150		DCW	ERR		3	1545	B68		11
166	3	160		B	PUTX		4	1546	B 363		11
167	3	170		DCW	FDNAME		3	1552	?13		11
168	3	180		MLC	@1@,FDSW SET FD SW		7	1553	M E11 Q88		12
169	3	190		MLC	@0@,RLISW#1 SET RLISW		7	1560	M E12 E13		12
170	3	200		MLC	NULL,FDSIZE#3 SET FD SIZE BUCKET		7	1567	M ?16 E16		12
171	3	210		MLC	@000000@,O1SIZE		7	1574	M E22 C18		12
172	3	220		B	SRSKIP		4	1581	B B37		12
173	3	230		B	OPLACE		4	1585	B A79		12
174	3	240		DCW	@I@ L N EQU *&1		1	1589			12
175	3	250		B	PUTX		4	1590	B 363		13
176	4	010		DCW	FDNAME		3	1596	?13		13
177	4	020		B	MAIN		4	1597	B T37		13
178	4	030	SRFDSZ	SBR	XFDSZ&3 PUTX RECORD SIZE DATA FOR IOCS		4	1601	H W72		13
179	4	040		C	O1SIZE-3,NULL		7	1605	C C15 ?16		13
180	4	050		BE	FDRT2 DIAGNOSTIC DFOR SIZE OVER 999		5	1612	B W28 S		13
181	4	060		MLC	@1A@,ERRNUM		7	1617	M E24 R00		13
182	4	070		B	SRDGNS		4	1624	B R37		14
183	4	080	FDRT2	B	PUTX		4	1628	B 363		14
184	4	090		DCW	LROPER PUTX FD SIZE OPERZTOR		3	1634	Q91		14
185	4	100		C	O1SIZE,NULL		7	1635	C C18 ?16		14
186	4	110		BE	FDZERO		5	1642	B W73 S		14
187	4	120		B	PUTX		4	1647	B 363		14
188	4	130		DCW	O1SIZE		3	1653	C18		14
189	4	140	FDRT2A	B	PUTX		4	1654	B 363		15
190	4	150		DCW	LROPER		3	1660	Q91		15
191	4	160		MLC	TBLCLR,TBLCLR-1 RESET REDEF ORG TABLE		7	1661	M D82 D81		15
192	4	170		MLC			1	1668	M		15
193	4	180	XFDSZ	B	0		4	1669	B 000		15
194	4	190	FDZERO	B	PUTX		4	1673	B 363		15
195	4	200		DCW	&@@@		3	1679	E27		15
196	4	210		B	FDRT2A		4	1680	B W54		16
197	4	220	VERBRT	MLC	SX,SXSAVE#3 KEY VERB ROUTINE		7	1684	M ?01 E30		16

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
198	4	230		BCE	VERB1,FDSW,0		8	1691	B X11 Q88 0		16
199	4	240		BCE	SRFDSZ,RLISW,0		8	1699	B W01 E13 0		16
200	4	250		B	SRFDDS		4	1707	B O44		16
201	5	010	VERB1	MLC	@0@,FDSW		7	1711	M E12 Q88		16
202	5	020		C	SX,@*01@		7	1718	C ?01 E03		17
203	5	030		BE	EOJ1		5	1725	B R57 S		17
204	5	040		MLC	TBLCLR,TBLCLR-1		7	1730	M D82 D81		17
205	5	050		MLC			1	1737	M		17
206	5	060		B	PUTX		4	1738	B 363		17
207	5	070		DCW	SXSAVE		3	1744	E30		17
208	5	080		B	MAIN		4	1745	B T37		17
209	5	090	LVLRT	B	GETX		4	1749	B 335		18
210	5	100		DCW	LVLNUM		3	1755	?10		18
211	5	110		DCW	ERR		3	1758	B68		18
212	5	120		MLC	LVLNUM,LVADRS#3		7	1759	M ?10 E33		18
213	5	130		A	LVADRS		4	1766	A E33		18
214	5	140		A	LVLNUM,LVADRS		7	1770	A ?10 E33		18
215	5	150		C	LVLNUM,@001@		7	1777	C ?10 E36		18
216	5	160		BE	LVLRT1		5	1784	B X97 S		19
217	5	170		BCE	NXTSET,NEXTSW,0		8	1789	B Y95 C22 0		19
218	5	180	LVLRT1	B	SRGET		4	1797	B B04		19
219	5	190		C	SX,@#GR@		7	1801	C ?01 E39		19
220	5	200		BE	LVLGRP		5	1808	B J37 S		19
221	5	210		C	SX,@077@		7	1813	C ?01 E42		19
222	5	220		BU	*&15		5	1820	B Y39 /		20
223	5	230		MLC	@N@,RB77SW		7	1825	M E43 N10		20
224	5	240		MLC	@N@,RE77SW		7	1832	M E43 N70		20
225	5	250		C	SX,DESCRI		7	1839	C ?01 Q94		20
226	6	010		BE	DESCRT		5	1846	B K85 S		20
227	6	020		C	SX,@*03@		7	1851	C ?01 E46		20
228	6	030		BE	DPNDRT		5	1858	B Z13 S		21
229	6	040		C	SX,@/05@		7	1863	C ?01 E49		21
230	6	050		BE	REDFRT		5	1870	B Z83 S		21
231	6	060		C	SX,@.DG@		7	1875	C ?01 D97		21
232	6	070		BE	DIAGRT		5	1882	B J11 S		21
233	6	080		B	SRPUT		4	1887	B B22		21
234	6	090		B	LVLRT1		4	1891	B X97		21
235	6	100	NXTSET	MLC	LVLNUM,WMLVL		7	1895	M ?10 C27		22
236	6	110		MLC	@1@,NEXTSW		7	1902	M E11 C22		22
237	6	120		B	LVLRT1		4	1909	B X97		22
238	6	130	DPNDRT	B	SRGET		4	1913	B B04		22
239	6	140		C	SX,NULL		7	1917	C ?01 ?16		22
240	6	150		BE	DPNRT1		5	1924	B Z40 S		22
241	6	160		MLC	@1A@,ERRNUM		7	1929	M E24 R00		23
242	6	170		B	SRDGNS		4	1936	B R37		23
243	6	180	DPNRT1	B	PUTX		4	1940	B 363		23
244	6	190		DCW	LROPER		3	1946	Q91		23
245	6	200		B	PUTX		4	1947	B 363		23
246	6	210		DCW	&@.RI@		3	1953	E52		23
247	6	220		B	SRGET		4	1954	B B04		23

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
248	6	230		B	PUTX		4	1958	B 363		24
249	6	240		DCW	SX		3	1964	?01		24
250	6	250		B	PUTX		4	1965	B 363		24
251	7	010		DCW	LROPER		3	1971	Q91		24
252	7	020		MLC	@1@,RLISW	GET NEXT SYMBOL	7	1972	M E11	E13	24
253	7	030		B	LVLRT1		4	1979	B X97		24
254	7	040	REDFRT	B	GETX	REDEFINE ROUTINE	4	1983	B 335		24
255	7	050		DCW	HOSIZE		3	1989	?19		25
256	7	060		DCW	ERR		3	1992	B68		25
257	7	070		B	GETX		4	1993	B 335		25
258	7	080		DCW	LOSIZE		3	1999	?22		25
259	7	090		DCW	ERR		3	2002	B68		25
260	7	100		B	SRGET		4	2003	B B04		25
261	7	110		MLC	LVADRS,X1		7	2007	M E33	089	25
262	7	120		BWZ	RDFRT3,TBLFT-1&X1,K	SKIP IF TAGGED W/ B BIT	8	2014	V !52	CT0 K	26
263	7	130		MLC	SX,TBLFT&X1	SET NEW NAME ON TABLE	7	2022	M ?01	CT1	26
264	7	140		MLZS	@S@,TBLFT-1&X1	SET PRETAG	7	2029	Y E53	CT0	26
265	7	150		B	OPLACE		4	2036	B A79		26
266	7	160		DCW	@E@	N F EQU *	1	2040			26
267	7	170		B	SRPUT		4	2041	B B22		26
268	7	180		MLC	LVADRS,X1		7	2045	M E33	089	26
269	7	190	RDFRT3	MLZS	@S@,TBLFT-1&X1	SET PRETAG	7	2052	Y E53	CT0	27
270	7	200		B	OPLACE		4	2059	B A79		27
271	7	210		DCW	@F@	ORG N -	1	2063			27
272	7	220		B	SRPUT		4	2064	B B22		27
273	7	230	RDFRT2	C	HOSIZE,@000@	IS REDEF SIZE OVER 999	7	2068	C ?19	E56	27
274	7	240		BE	RDFRT1		5	2075	B J03	S	27
275	7	250		S	@999@,LOSIZE		7	2080	S E59	?22	27
276	8	010		MLZS	@0@,LOSIZE		7	2087	Y E12	?22	28
277	8	020		B	OPLACE		4	2094	B A79		28
278	8	030		DCW	@G@	-999 ORG * -	1	2098			28
279	8	040		B	RDFRT2		4	2099	B !68		28
280	8	050	RDFRT1	B	SRPLZS		4	2103	B ?82		28
281	8	060		B	LVLRT1	GET NEXT SYMBOL	4	2107	B X97		28
282	8	070	DIAGRT	B	SRGET	HANDLE DIAGNOSTICS AS THEY COME	4	2111	B B04		28
283	8	080		MLC	@D@,SX-2		7	2115	M E60	R99	29
284	8	090		MLC	SX,ERRNUM		7	2122	M ?01	R00	29
285	8	100		B	SRDGNS		4	2129	B R37		29
286	8	110		B	LVLRT1		4	2133	B X97		29
287	8	120	LVLGRP	C	LVLNUM,@001@	HANDLE START-GROUP ENTRIES	7	2137	C ?10	E36	29
288	8	130		BU	DROPLV		5	2144	B K02	/	29
289	8	140		B	GETX		4	2149	B 335		29
290	8	150		DCW	O1NAME		3	2155	?07		30
291	8	160		DCW	ERR		3	2158	B68		30
292	8	170	LVLGR1	B	SRGET		4	2159	B B04		30
293	8	180		C	SX,@.PD@		7	2163	C ?01	E63	30
294	8	190		BE	LVLGR2		5	2170	B K18	S	30
295	8	200		C	SX,@#WM@		7	2175	C ?01	E66	30
296	8	210		BU	LVLGR1	WDMKS OR NOT	5	2182	B J59	/	30
297	8	220		MLC	@1@,WDMKSW	SET WORDMARK SWITCH	7	2187	M E11	C23	31

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
298	8	230		B	LVLGR1		4	2194	B J59		31
299	8	240	DROPL1	B	SRGET		4	2198	B B04		31
300	8	250	DROPLV	C	SX,@.PD@		7	2202	C ?01 E63		31
301	9	010		BU	DROPL1		5	2209	B J98 /		31
302	9	020		B	MAIN		4	2214	B T37		31
303	9	030	LVLGR2	C	O1NAME,@ @	IF GROUP NAME BLANK, DROP DESCRI	7	2218	C ?07 E69		31
304	9	040		BE	DROPLV		5	2225	B K02 S		32
305	9	050		B	SRREC	TAKE CARE OF FD-RECORD-L ADDRESS	4	2230	B K38		32
306	9	060		B	DROPLV		4	2234	B K02		32
307	9	070	SRREC	SBR	XREC&3	HANDLE L ADDRESS AND FD EQUATES I	4	2238	H K84		32
308	9	080		B	OPLACE		4	2242	B A79		32
309	9	090		DCW	@I@	L N EQU *&1	1	2246			32
310	9	100		B	PUTX		4	2247	B 363		32
311	9	110		DCW	O1NAME		3	2253	?07		33
312	9	120		BCE	XREC,FDSW,0	SKIP IF NO FDEQUS NEEDED	8	2254	B K81 Q88 0		33
313	9	130		B	OPLACE		4	2262	B A79		33
314	9	140		DCW	@J@	F N1 EQU I N2	1	2266			33
315	9	150		B	PUTX		4	2267	B 363		33
316	9	160		DCW	O1NAME		3	2273	?07		33
317	9	170		B	PUTX		4	2274	B 363		33
318	9	180		DCW	FDNAME		3	2280	?13		34
319	9	190	XREC	B	0		4	2281	B 000		34
320	9	200	DESCRT	MLC	&0@,DESCNT#1	DESCRIPTIION ROUTINE	7	2285	M E12 E70		34
321	9	210		MLC	&NAME,DESCR1&6		7	2292	M E73 L09		34
322	9	220	DESCR2	B	SRGET		4	2299	B B04		34
323	9	230	DESCR1	MLC	SX,0		7	2303	M ?01 000		34
324	9	240		SBR	DESCR1&6	GET DESCRIPTION TO EDIT	4	2310	H L09		34
325	9	250		A	@1@,DESCNT		7	2314	A E11 E70		35
326	10	010		BCE	DESCR3,DESCNT,9		8	2321	B L33 E70 9		35
327	10	020		B	DESCR2		4	2329	B K99		35
328	10	030	DESCR3	MLC	SIZELO,LOSIZE		7	2333	M R24 ?22		35
329	10	040		MLC	SIZEHO,HOSIZE		7	2340	M R27 ?19		35
330	10	050		MLC	LVADRS,X1		7	2347	M E33 089		36
331	10	060		BWZ	DESC3E,TBLFT-1&X1,S	BR IF PRETAGGED - ORG BACK TBL	8	2354	V L73 CT0 S		36
332	10	070		MLZS	@,@,TBLFT-1&X1	CLEAR ANY TAG	7	2362	Y E10 CT0		36
333	10	080		B	DESC3A		4	2369	B L80		36
334	10	090	DESC3E	MLZS	@K@,TBLFT-1&X1	SET TAG	7	2373	Y E74 CT0		36
335	10	100	DESC3A	C	LVLNUM,@001@		7	2380	C ?10 E36		37
336	10	110		BE	O1DES		5	2387	B P74 S		37
337	10	120	SWDMKS	BCE	DESCR4,WDMKSW,0	CONTROL SETTING OF WDMKS FOR	8	2392	B M83 C23 0		37
338	10	130		C	WMLVL,LVLNUM	EACH ENTRY	7	2400	C C27 ?10		37
339	10	140		BU	WDMKS1		5	2407	B M30 /		37
340	10	150		A	@1@,WMCNT		7	2412	A E11 C21		37
341	10	160		MLC	@0@,ELMYET	RESET ELEM SWITCH	7	2419	M E12 C24		38
342	10	170		B	SETWMK		4	2426	B M69		38
343	10	180	WDMKS1	BCE	ELEM,TYPE,E		8	2430	B M54 R12 E		38
344	10	190		C	DEPLVL,LVLNUM	GROUP PROCESSING	7	2438	C C30 ?10		38
345	10	200		BL	SETWMK		5	2445	B M69 T		38
346	10	210		B	DESCR4		4	2450	B M83		38
347	10	220	ELEM	BCE	DESCR4,ELMYET,1	BRANCH IF HAVE HIT 1ST ELEM ENTRY	8	2454	B M83 C24 1		39

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
348	10	230		MLC	@1@,ELMYET				HIT FIRST ELEM - SET SWITCH		
349	10	240	SETWMK	MLC	@001@,WDMKS	7	2462	M E11	C24		39
350	10	250		MLC	LVLNUM,DEPLVL	7	2469	M E36	R15		39
351	11	010	DESCR4	BCE	GRPEND,TYPE,G	7	2476	M ?10	C30		39
352	11	020		C	LVLNUM,@001@	8	2483	B P30	R12 G		39
353	11	030		BU	DSCR4A	7	2491	C ?10	E36		40
354	11	040		MLC	NAME,O1NAME	5	2498	B N21	/		40
355	11	050	RB77SW	B	SRREC	7	2503	M R30	?07		40
356	11	060		MLC	@B@,RB77SW	4	2510	B K38			40
357	11	070	DSCR4A	MLC	@K@,DC/DCW	7	2514	M E75	N10		40
358	11	080		C	WDMKS,@000@	7	2521	M E74	N51		40
359	11	090		BU	DSCR4B	7	2528	C R15	E56		41
360	11	100		MLC	@L@,DC/DCW	5	2535	B N47	/		41
361	11	110	DSCR4B	B	OPLACE	7	2540	M E76	N51		41
362	11	120	DC/DCW	DCW	@ @	4	2547	B A79			41
363	11	130		B	PUTX	1	2551				41
364	11	140		DCW	NAME	4	2552	B 363			41
365	11	150		B	SRPLZS	3	2558	R30			41
366	11	160	DESCR6	C	LVLNUM,@001@	4	2559	B ?82			42
367	11	170	RE77SW	BE	RECEAD	7	2563	C ?10	E36		42
368	11	180		MLC	@B@,RE77SW	5	2570	B P58	S		42
369	11	190	DSCR6A	BCE	RLISIZ,RLISW,2	7	2575	M E75	N70		42
370	11	200	DESCR7	C	NAME,@ @	8	2582	B O96	E13 2		42
371	11	210		BE	DROPLV	7	2590	C R30	E69		42
372	11	220		B	SRPLST	5	2597	B K02	S		43
373	11	230	EDTOUT	B	OPLACE	4	2602	B ?32			43
374	11	240		DCW	@P@	4	2606	B A79			43
375	11	250	EDTOT1	B	SRGET	1	2610				43
376	12	010		B	SRPUT	4	2611	B B04			43
377	12	020		C	SX,@.PD@	4	2615	B B22			43
378	12	030		BE	DESCR9	7	2619	C ?01	E63		43
379	12	040		B	EDTOT1	5	2626	B O35	S		44
380	12	050	DESCR9	B	OPLACE	4	2631	B O11			44
381	12	060		DCW	@O@	4	2635	B A79			44
382	12	070		B	MAIN	1	2639				44
383	12	080	SRFDDS	SBR	XFDDS&3	4	2640	B T37			44
384	12	090		B	OPLACE	4	2644	H O95			44
385	12	100		DCW	@R@ N1 EQU N2	4	2648	B A79			44
386	12	110		B	PUTX	1	2652				45
387	12	120		DCW	FDNAME	4	2653	B 363			45
388	12	130		B	PUTX	3	2659	?13			45
389	12	140		DCW	O1NMSV	4	2660	B 363			45
390	12	150		MLC	FDNAME,NAME	3	2666	E96			45
391	12	160		MLNS	O1SIZE,SIZELO	7	2667	M ?13	R30		45
392	12	170		MLNS		7	2674	D C18	R24		45
393	12	180		MLNS		1	2681	D			46
394	12	190		B	SRPLST	1	2682	D			46
395	12	200		B	OPLACE	4	2683	B ?32			46
396	12	210		DCW	@O@	4	2687	B A79			46
397	12	220	XFDDS	B	0	1	2691				46
						4	2692	B 000			46

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
398	12	230	RLISIZ	MLC	@1@,RLISW		7	2696	M E11 E13		46
399	12	240		C	SIZELO,@000004@		7	2703	C R24 E82		47
400	12	250		BE	DESCR7		5	2710	B N90 S		47
401	13	010		MLC	@1B@,ERRNUM		7	2715	M E84 R00		47
402	13	020		B	SRDGNS		4	2722	B R37		47
403	13	030		B	DESCR7		4	2726	B N90		47
404	13	040	GRPEND	C	NAME,@ @ SKIP IF NO NAME		7	2730	C R30 E69		47
405	13	050		BE	DESCR6		5	2737	B N63 S		47
406	13	060		B	OPLACE		4	2742	B A79		48
407	13	070		DCW	@M@	N EQU *	1	2746			48
408	13	080		B	PUTX		4	2747	B 363		48
409	13	090		DCW	NAME		3	2753	R30		48
410	13	100		B	DESCR6		4	2754	B N63		48
411	13	110	RESEND	B	OPLACE		4	2758	B A79		48
412	13	120		DCW	@Q@	PLACE ORG BLK & GMWM	1	2762			48
413	13	130		MLC	@R@,TYPE		7	2763	M E85 R12		49
414	13	140		B	DSCR6A		4	2770	B N82		49
415	13	150	01DES	MLC	TBLCLR,TBLCLR-1		7	2774	M D82 D81		49
416	13	160		BCE	01DES1,WDMKSW,0	01 DESCRIPT UPDATE AND OUT	8	2781	B Q03 C23 0		49
417	13	170		MLC	WMCNT,WDMKS		7	2789	M C21 R15		49
418	13	180	WMSTUP	MLC	DEPLVL&1,DEPLVL	INITIALIZE SWITCHES	7	2796	M C31 C30		50
419	13	190	01DES1	BCE	DESCR4,FDSW,0		8	2803	B M83 Q88 0		50
420	13	200		C	01SIZE,@000000@		7	2811	C C18 E91		50
421	13	210		BE	SETSIZ		5	2818	B Q70 S		50
422	13	220		C	LOSIZE,01SIZE		7	2823	C ?22 C18		50
423	13	230		BE	DESCR4		5	2830	B M83 S		50
424	13	240		BH	DAG20		5	2835	B Q47 U		51
425	13	250		MLC	LOSIZE,01SIZE		7	2840	M ?22 C18		51
426	14	010	DAG20	BCE	DESCR4,RLISW,1	OUT DIAGNOSTIC FOR MULTISIZE 01	8	2847	B M83 E13 1		51
427	14	020		MLC	@13@,ERRNUM		7	2855	M E93 R00		51
428	14	030		B	SRDGNS		4	2862	B R37		51
429	14	040		B	DESCR4		4	2866	B M83		51
430	14	050	SETSIZ	MLC	LOSIZE,01SIZE		7	2870	M ?22 C18		52
431	14	060		MLC	NAME,01NMSV#3	SAVE 01NAME FOR FD EQU	7	2877	M R30 E96		52
432	14	070		B	DESCR4		4	2884	B M83		52
433	14	080	FDSW	DCW	@0@		1	2888			52
434	14	090	LROPER	DCW	@.LR@		3	2891			52
435	14	100	DESCRI	DCW	@.DS@		3	2894			52
436	14	110	MACSEP	DCW	@.MC@		3	2897			52
437	14	120	ERRNUM	DCW	@D00@		3	2900			53
438	14	130		DCW	@.PD@	####	3	2903			53
439	14	140	EDIT	DC	#3	@@@@	3	2906			53
440	14	150	JUST	DC	#3	@@@@	3	2909			53
441	14	160	TYPE	DC	#3	@@@@	3	2912			53
442	14	170	WDMKS	DC	#3	@@@@	3	2915			53
443	14	180	CLASS	DC	#3	@@@@	3	2918			53
444	14	190	DECIML	DC	#3	@@@@	3	2921			53
445	14	200	SIZELO	DC	#3	@@@@	3	2924			53
446	14	210	SIZEHO	DC	#3	@@@@	3	2927			53
447	14	220	NAME	DC	#3	@@@@	3	2930			53

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
448	14	230	DESCST	DC	@.DS.DE@ #####	6		2936			53
449	14	240	SRDGNS	SBR	XDGNS&3	4		2937	H R56		54
450	14	250		B	OPLACE	4		2941	B A79		54
451	15	010		DCW	@D@	1		2945			54
452	15	020		B	PUTX	4		2946	B 363		54
453	15	030		DCW	ERRNUM	3		2952	R00		54
454	15	040	XDGNS	B	0	4		2953	B 000		54
455	15	050	EOJ1	B	PUTX	4		2957	B 363		54
456	15	060		DCW	SXSAVE	3		2963	E30		55
457	15	070	EOJ	B	GETX	4		2964	B 335		55
458	15	080		DCW	SX	3		2970	?01		55
459	15	090		DCW	EOJ2	3		2973	R85		55
460	15	100		B	PUTX	4		2974	B 363		55
461	15	110		DCW	SX	3		2980	?01		55
462	15	120		B	EOJ	4		2981	B R64		55
463	15	130	EOJ2	B	PUTX	4		2985	B 363		56
464	15	140		DCW	SX	3		2991	?01		56
465	15	150		B	SUPER	4		2992	B 351		56
466	15	160		DCW	@D06@	3		2998			56
467	15	170	SX	DCW	#3	3		3001			56
468	15	180	OUTBKT	DCW	#3	3		3004			56
469	15	190	O1NAME	DCW	#3	3		3007			56
470	15	200	LVLNUM	DCW	#3	3		3010			57
471	15	210	FDNAME	DCW	#3	3		3013			57
472	15	220	NULL	DCW	@000@	3		3016			57
473	15	230	HOSIZE	DCW	#3 *****	3		3019			57
474	15	240	LOSIZE	DC	#3 *****	3		3022			57
475	15	250	LCDSOP	DCW	@.OPDS .LC@ DS FOR OCCURS	9		3031			57
476	16	010	SRPLST	SBR	XPLST&3 PLACE STRING IN XO UNTIL WDMK	4		3032	H ?81		57
477	16	020		B	OPLACE	4		3036	B A79		57
478	16	030		DCW	@P@ GET AND PLACE UNTIL .PD	1		3040			58
479	16	040		MLC	&DESCST,X3	7		3041	M E99 099		58
480	16	050	SRPL2	MLC	0&X3,OUTBK#3	7		3048	M 0?0 F02		58
481	16	060		SAR	X3	4		3055	Q 099		58
482	16	070		B	PUTX	4		3059	B 363		58
483	16	080		DCW	OUTBK	3		3065	F02		58
484	16	090		BWZ	XPLST,1&X3,1	8		3066	V ?78 0?1 1		58
485	16	100		B	SRPL2	4		3074	B ?48		59
486	16	110	XPLST	B	0	4		3078	B 000		59
487	16	120	SRPLZS	SBR	XPLZS&3 PLACES WITH ZERO SUPPRESS	4		3082	H A78		59
488	16	130		B	OPLACE	4		3086	B A79		59
489	16	140		DCW	@H@ GET AND PUT THRU .MC	1		3090			59
490	16	150		MLC	&HOSIZE-4,X3	7		3091	M F05 099		59
491	16	160		MLC	@B@,T002	7		3098	M E75 A28		59
492	16	170	T001	C	X3,&LOSIZE-2	7		3105	C 099 F08		60
493	16	180		BE	XPLZS1	5		3112	B A54 S		60
494	16	190		MLNS	2&X3,OUTBKT	7		3117	D 0?2 ?04		60
495	16	200		SAR	X3	4		3124	Q 099		60
496	16	210	T002	BCE	T001,OUTBKT,0	8		3128	B A05 ?04 0		60
497	16	220		MLC	@N@,T002	7		3136	M E43 A28		60

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
498	16	230		B	PUTX		4	3143	B 363		61
499	16	240		DCW	OUTBKT		3	3149	?04		61
500	16	250		B	T001		4	3150	B A05		61
501	17	010	XPLZS1	MLNS	2&X3,OUTBKT		7	3154	D 0?2 ?04		61
502	17	020		B	PUTX		4	3161	B 363		61
503	17	030		DCW	OUTBKT		3	3167	?04		61
504	17	040		B	PUTX		4	3168	B 363		61
505	17	050		DCW	MACSEP		3	3174	Q97		62
506	17	060	XPLZS	B	0		4	3175	B 000		62
507	17	070	*	MODIFIES	OPERATOR ANF PUTX						
508	17	080	OPLACE	SBR	X3		4	3179	H 099		62
509	17	090		MLC	0&X3, OPOUT		7	3183	M 0?0 B03		62
510	17	100		B	PUTX		4	3190	B 363		62
511	17	110		DCW	OPOUT		3	3196	B03		62
512	17	120		B	1&X3		4	3197	B 0?1		62
513	17	130	OPOUT	DCW	@\$\$ @		3	3203			63
514	17	140	*	GETS SX							
515	17	150	SRGET	SBR	EXGET&3		4	3204	H B21		63
516	17	160		B	GETX		4	3208	B 335		63
517	17	170		DCW	SX		3	3214	?01		63
518	17	180		DCW	ERR		3	3217	B68		63
519	17	190	EXGET	B	0		4	3218	B 000		63
520	17	200	*	PUT SX							
521	17	210	SRPUT	SBR	EXPUT&3		4	3222	H B36		63
522	17	220		B	PUTX		4	3226	B 363		64
523	17	230		DCW	SX		3	3232	?01		64
524	17	240	EXPUB	B	0		4	3233	B 000		64
525	17	250	*	SRSKIP	SUB ROUTINE GETS AND PUTS UNTIL NEXT PERIOD						
526	18	010	SRSKIP	SBR	EXSKIP&3		4	3237	H B67		64
527	18	020	SKIP1	B	SRGET		4	3241	B B04		64
528	18	030		B	PUTX		4	3245	B 363		64
529	18	040		DCW	SX		3	3251	?01		64
530	18	050		C	SX, @.PD@		7	3252	C ?01 E63		65
531	18	060		BU	SKIP1		5	3259	B B41 /		65
532	18	070	EXSKIP	B	0		4	3264	B 000		65
533	18	080	ERR	CS	333		4	3268	/ 333		65
534	18	090		CS			1	3272	/		65
535	18	100		CC	1		2	3273	F 1		65
536	18	110		MLC	DIAG, 260		7	3275	M C12 260		65
537	18	120		W			1	3282	2		66
538	18	130		CC	1		2	3283	F 1		66
539	18	140		B	DUMP		4	3285	B 359		66
540	18	150	DIAG	DCW	@SYSTEM FAILURE PHASE D05@		24	3312			66
541	18	160	O1SIZE	DCW	@000000@		6	3318			66
542	18	170	WMCNT	DCW	@000@	#####WORDMARK COUNT	3	3321			67
543	18	180	NEXTSW	DC	@0@	#####0 IF NEXT LVL IS WMLVL	1	3322			67
544	18	190	WDMKSW	DC	@0@	##### 1 IF 01 ENTRY GETS WDMKS	1	3323			67
545	18	200	ELMYET	DC	@0@	##### 0 IF HAVENT REACHED 1ST ELEM YET	1	3324			67
546	18	210	WMLVL	DC	@000@	##### 1ST LEVEL BELOW 01 - W	3	3327			67
547	18	220	DEPLVL	DC	@000@	##### LAST LEVEL TO GET WDMKS	3	3330			67

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
548	18	230		DC	@0@		1	3331			67
549	18	240	TBLFT	EQU	*			3331			
550	18	250		DA	1X3 *****			3332	3334		67
551	19	010		DA	1X147 ****			3335	3481		67
552	19	020	TBLCLR	DC	@ @		1	3482			68
553	19	030		LTORG					3483		
				DCW	@/24@		3	3485		LIT	68
					@.LV@		3	3488		LIT	68
					@/26@		3	3491		LIT	68
					@/14@		3	3494		LIT	68
					@.DG@		3	3497		LIT	69
					@/OG@		3	3500		LIT	69
					@*01@		3	3503		LIT	69
					@/01@		3	3506		LIT	69
					@/09@		3	3509		LIT	69
					@ @		1	3510		LIT	69
					@1@		1	3511		LIT	69
					@0@		1	3512		LIT	70
169			RLISW		#01		1	3513		AREA	70
170			FDSIZE		#03		3	3516		AREA	70
171					@000000@		6	3522		LIT	70
					@1A@		2	3524		LIT	70
					@@@@@		3	3527		LIT	70
197			SXSAVE		#03		3	3530		AREA	70
212			LVADRS		#03		3	3533		AREA	71
					@001@		3	3536		LIT	71
					@#GR@		3	3539		LIT	71
					@077@		3	3542		LIT	71
					@N@		1	3543		LIT	71
					@*03@		3	3546		LIT	71
					@/05@		3	3549		LIT	71
					@.RI@		3	3552		LIT	72
					@S@		1	3553		LIT	72
					@000@		3	3556		LIT	72
					@999@		3	3559		LIT	72
					@D@		1	3560		LIT	72
					@.PD@		3	3563		LIT	72
					@#WM@		3	3566		LIT	72
					@ @		3	3569		LIT	73
320			DESCNT		#01		1	3570		AREA	73
321					&NAME		3	3573	R30	ADCON	73
					@K@		1	3574		LIT	73
					@B@		1	3575		LIT	73
					@L@		1	3576		LIT	73
399					@000004@		6	3582		LIT	73
					@1B@		2	3584		LIT	74
					@R@		1	3585		LIT	74
420					@000000@		6	3591		LIT	74
					@13@		2	3593		LIT	74
431			O1NMSV		#03		3	3596		AREA	74

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
		479			&DESCST	3		3599	R36	ADCON	74
		480	OUTBK		#03	3		3602		AREA	74
		490			&HOSIZE-4	3		3605	?15	ADCON	75
		492			&LOSIZE-2	3		3608	?20	ADCON	75
554	19	040		DCW	@}@	1		3609			75
555	19	050		END					/ 000 080		76

CLEAR STORAGE 1 ,008015,019026,030,034041,045,053,0570571026 1
 CLEAR STORAGE 2 L068112,102106,113/101099/I99,027A070028)027B0010270B0261,001/001113I0 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	010	000	JOB	1401 COBOL - D06						
102	1	020		CTL	631 11						
103	1	030	X1	EQU	89			0089			
104	1	040	X2	EQU	94			0094			
105	1	050	X3	EQU	99			0099			
106	1	060	GETX	EQU	335			0335			
107	1	070	IORW	EQU	343			0343			
108	1	080	SUPER	EQU	351			0351			
109	1	090	DUMP	EQU	359			0359			
110	1	100	PUTX	EQU	363			0363			
111	1	110	CONST	EQU	188			0188			
112	1	120	SCRBKT	EQU	1126			1126			
113	1	130		ORG	1300				1300		
114	1	140	AA1	B	GETX	4		1300	B 335		4
115	1	150		DCW	SX	3		1306	J08		4
116	1	160		DCW	ERR	3		1309	J50		4
117	1	170		B	PUTX	4		1310	B 363		4
118	1	180		DCW	SX	3		1316	J08		4
119	1	190		C	SX,@/24@	7		1317	C J08 O86		4
120	1	200		BU	AA1	5		1324	B T00 /		4
121	1	210		B	PLACE	4		1329	B K28		5
122	1	220		DCW	&.DL@	3		1335	O89		5
123	1	230	NEXT	B	GETX	4		1336	B 335		5
124	1	240		DCW	SX	3		1342	J08		5
125	1	250		DCW	ERR	3		1345	J50		5
126	2	010		BCE	SECOND,SX-1,\$	8		1346	B T58 J07 \$		5
127	2	020		B	NOT\$	4		1354	B T66		5
128	2	030	SECOND	BCE	CHECK,SX-2,\$	8		1358	B T89 J06 \$		6
129	2	040	NOT\$	B	PUTX	4		1366	B 363		6
130	2	050		DCW	SX	3		1372	J08		6
131	2	060		C	SX,PROCI	7		1373	C J08 J05		6
132	2	070		BE	EOJ1	5		1380	B !47 S		6
133	2	080		B	NEXT	4		1385	B T36		6
134	2	090	CHECK	BCE	ART,SX,A	8		1389	B V29 J08 A		6
135	2	100		BCE	BRT,SX,B	8		1397	B V64 J08 B		7
136	2	110		BCE	CRT,SX,C	8		1405	B V80 J08 C		7
137	2	120		BCE	DRT,SX,D	8		1413	B W15 J08 D		7
138	2	130		BCE	ERT,SX,E	8		1421	B W38 J08 E		7
139	2	140		BCE	FRT,SX,F	8		1429	B W71 J08 F		8
140	2	150		BCE	GRT,SX,G	8		1437	B X03 J08 G		8
141	2	160		BCE	HRT,SX,H	8		1445	B X31 J08 H		8
142	2	170		BCE	IRT,SX,I	8		1453	B X55 J08 I		8
143	2	180		BCE	JRT,SX,J	8		1461	B X93 J08 J		9
144	2	190		BCE	KRT,SX,K	8		1469	B Y44 J08 K		9
145	2	200		BCE	LRT,SX,L	8		1477	B Y71 J08 L		9
146	2	210		BCE	MRT,SX,M	8		1485	B Y98 J08 M		9
147	2	220		BCE	ORT,SX,O	8		1493	B Z28 J08 O		10

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	2	230		BCE	PRT,SX,P		8	1501	B Z41 J08 P		10
149	2	240		BCE	QRT,SX,Q		8	1509	B Z65 J08 Q		10
150	2	250		BCE	RRT,SX,R		8	1517	B !02 J08 R		10
151	3	010		B	NOT\$		4	1525	B T66		10
152	3	020	ART	B	GETX	ORG NH&1	4	1529	B 335		11
153	3	030		DCW	ARTN1		3	1535	V54		11
154	3	040		DCW	ERR		3	1538	J50		11
155	3	050		B	SRPLST		4	1539	B J09		11
156	3	060		DCW	ASTRG		3	1545	V63		11
157	3	070	ARTN1	DCW	@.MCH&1 @		9	1554			11
158	3	080	ASTRG	DC	@.OPORG.LC@		9	1563			11
159	3	090	BRT	B	SRPLST	DS DECLARATION	4	1564	B J09		11
160	3	100		DCW	BSTRG		3	1570	V79		12
161	3	110	BSTRG	DCW	@.OPDS .LC@		9	1579			12
162	3	120	CRT	B	GETX	N EQU *&1	4	1580	B 335		12
163	3	130		DCW	CRTN1		3	1586	W14		12
164	3	140		DCW	ERR		3	1589	J50		12
165	3	150		B	SRPLST		4	1590	B J09		12
166	3	160		DCW	CSTRG		3	1596	W14		12
167	3	170	CSTRG	DCW	@.MC*&1.OPEQU.LC @		18	1614			13
168	3	180	CRTN1	EQU	*			1614			
169	3	190	DRT	B	GETX		4	1615	B 335		13
170	3	200		DCW	DRTN1	*** DIAG	3	1621	W34		13
171	3	210		DCW	ERR		3	1624	J50		13
172	3	220		B	SRPLST		4	1625	B J09		13
173	3	230		DCW	DSTRG		3	1631	W37		13
174	3	240	DRTN1	DCW	@ @		3	1634			13
175	3	250	DSTRG	DC	@***@		3	1637			14
176	4	010	ERT	B	SRGET	N F EQU *	4	1638	B J95		14
177	4	020		B	SRPLAC		4	1642	B K13		14
178	4	030		B	SRPLST		4	1646	B J09		14
179	4	040		DCW	ESTRG		3	1652	W70		14
180	4	050	ESTRG	DCW	@.MC *.OPEQU.LC H@		18	1670			15
181	4	060	FRT	B	GETX	ORG N-	4	1671	B 335		15
182	4	070		DCW	FRTN1		3	1677	W93		15
183	4	080		DCW	ERR		3	1680	J50		15
184	4	090		B	SRPLST		4	1681	B J09		15
185	4	100		DCW	FSTRG		3	1687	X02		15
186	4	110	FRTN1	DCW	@ - @		6	1693			16
187	4	120	FSTRG	DC	@.OPORG.LC@		9	1702			16
188	4	130	GRT	B	SRPLST	999 ORG -	4	1703	B J09		16
189	4	140		DCW	GSTRG		3	1709	X30		16
190	4	150	GSTRG	DCW	@ - *.OPORG.LC.MC999@		21	1730			17
191	4	160	HRT	B	SRGET	GET AND PLACE THRU .MC	4	1731	B J95		17
192	4	170		B	SRPLAC		4	1735	B K13		17
193	4	180		C	SX,@.MC@		7	1739	C J08 O92		17
194	4	190		BU	HRT		5	1746	B X31 /		18
195	4	200		B	NEXT		4	1751	B T36		18
196	4	210	IRT	B	GETX	L N EQU *&1	4	1755	B 335		18
197	4	220		DCW	IRTN1		3	1761	X89		18

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
198	4	230		DCW	ERR		3	1764	J50		18
199	4	240		B	SRPLST		4	1765	B J09		18
200	4	250		DCW	ISTRG		3	1771	X92		18
201	5	010	IRTN1	DCW	@.MC*&1.OPEQU.LC	@	18	1789			19
202	5	020	ISTRG	DC	@ L@		3	1792			19
203	5	030	JRT	B	GETX	FN1 EQU IN2	4	1793	B 335		19
204	5	040		DCW	JRTN1		3	1799	Y40		19
205	5	050		DCW	ERR		3	1802	J50		19
206	5	060		B	GETX		4	1803	B 335		19
207	5	070		DCW	JRTN2		3	1809	Y25		19
208	5	080		DCW	ERR		3	1812	J50		20
209	5	090		B	SRPLST		4	1813	B J09		20
210	5	100		DCW	JSTRG		3	1819	Y43		20
211	5	110	JRTN2	DCW	@.MC @		6	1825			20
212	5	120	JRTN1	DC	@ I.OPEQU.LC @		15	1840			20
213	5	130	JSTRG	DC	@ F@		3	1843			20
214	5	140	KRT	B	SRGET	DCW DECLARATION	4	1844	B J95		20
215	5	150		B	SRPLAC		4	1848	B K13		21
216	5	160		B	SRPLST		4	1852	B J09		21
217	5	170		DCW	KSTRG		3	1858	Y70		21
218	5	180	KSTRG	DCW	@ #.OPDCW.LC@		12	1870			21
219	5	190	LRT	B	SRGET	DC DECLARATION	4	1871	B J95		21
220	5	200		B	SRPLAC		4	1875	B K13		21
221	5	210		B	SRPLST		4	1879	B J09		21
222	5	220		DCW	LSTRG		3	1885	Y97		22
223	5	230	LSTRG	DCW	@ #.OPDC .LC@		12	1897			22
224	5	240	MRT	B	SRGET	N EAU *	4	1898	B J95		22
225	5	250		B	SRPLAC		4	1902	B K13		22
226	6	010		B	SRPLST		4	1906	B J09		22
227	6	020		DCW	MSTRG		3	1912	Z27		22
228	6	030	MSTRG	DCW	@.MC *.OPEQU.LC@		15	1927			23
229	6	040	ORT	B	SRPLST	.DS .DL	4	1928	B J09		23
230	6	050		DCW	OSTRG		3	1934	Z40		23
231	6	060	OSTRG	DCW	@.DL.DS@		6	1940			23
232	6	070	PRT	B	SRGET	GET AND PLACE UNTIL .PD	4	1941	B J95		23
233	6	080		C	SX,@.PD@		7	1945	C J08 O95		23
234	6	090		BE	NEXT		5	1952	B T36 S		24
235	6	100		B	SRPLAC		4	1957	B K13		24
236	6	110		B	PRT		4	1961	B Z41		24
237	6	120	QRT	B	SRPLST	ORG BLK & GMWM	4	1965	B J09		24
238	6	130		DCW	QSTRG		3	1971	!01		24
239	6	140	QSTRG	DCW	@.MC @ GM @.OPDCW.LC.MCORG.LC@		30	2001			25
240	6	150	RRT	B	GETX		4	2002	B 335		25
241	6	160		DCW	RRTN1	N1 EQU N2	3	2008	!46		25
242	6	170		DCW	ERR		3	2011	J50		26
243	6	180		B	GETX		4	2012	B 335		26
244	6	190		DCW	RRTN2		3	2018	!34		26
245	6	200		DCW	ERR		3	2021	J50		26
246	6	210		B	SRPLST		4	2022	B J09		26
247	6	220		DCW	RSTRG		3	2028	!46		26

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
248	6	230	RRTN2	DCW	@@.MC @	6		2034			26
249	6	240	RRTN1	DC	@.OPEQU.LC @	12		2046			27
250	6	250	RSTRG	EQU	*			2046			
251	7	010	EOJ1	B	GETX	4		2047	B 335		27
252	7	020		DCW	SX	3		2053	J08		27
253	7	030		DCW	EOJ2	3		2056	!68		27
254	7	040		B	PUTX	4		2057	B 363		27
255	7	050		DCW	SX	3		2063	J08		28
256	7	060		B	EOJ1	4		2064	B !47		28
257	7	070	EOJ2	B	PUTX	4		2068	B 363		28
258	7	080		DCW	SX	3		2074	J08		28
259	7	090		B	PLACE	4		2075	B K28		28
260	7	100		DCW	&@.DE@	3		2081	O98		28
261	7	110		B	PLACE	4		2082	B K28		28
262	7	120		DCW	&@.LD@	3		2088	P01		29
263	7	130		B	PLACE	4		2089	B K28		29
264	7	140		DCW	&@.EB@	3		2095	P04		29
265	7	150		B	SUPER	4		2096	B 351		29
266	7	160		DCW	@E01@	3		2102			29
267	7	170	PROCI	DCW	@*01@	3		2105			29
268	7	180	SX	DCW	#3	3		2108			29
269	7	190	SRPLST	SBR	X2	4		2109	H 094		30
270	7	200		MLC	2&X2,X3	7		2113	M 0!2 099		30
271	7	210	PLST1	MLC	0&X3,OUTBKT#3	7		2120	M 0?0 P07		30
272	7	220		SAR	X3	4		2127	Q 099		30
273	7	230		B	PLACE	4		2131	B K28		30
274	7	240		DCW	OUTBKT	3		2137	P07		30
275	7	250		BWZ	NEXT,1&X3,1	8		2138	V T36 0?1 1		30
276	8	010		B	PLST1	4		2146	B J20		31
277	8	020	ERR	CS	333	4		2150	/ 333		31
278	8	030		CS		1		2154	/		31
279	8	040		CC	1	2		2155	F 1		31
280	8	050		MLC	DIAG,260	7		2157	M J94 260		31
281	8	060		W		1		2164	2		31
282	8	070		CC	1	2		2165	F 1		31
283	8	080		B	DUMP	4		2167	B 359		32
284	8	090	DIAG	DCW	@SYSTEM FAILURE PHASE D06@	24		2194			32
285	8	100	SRGET	SBR	XGET&3	4		2195	H K12		32
286	8	110		B	GETX	4		2199	B 335		32
287	8	120		DCW	SX	3		2205	J08		32
288	8	130		DCW	ERR	3		2208	J50		33
289	8	140	XGET	B	0	4		2209	B 000		33
290	8	150	SRPLAC	SBR	XPLAC&3	4		2213	H K27		33
291	8	160		B	PLACE	4		2217	B K28		33
292	8	170		DCW	SX	3		2223	J08		33
293	8	180	XPLAC	B	0	4		2224	B 000		33
294	8	190	PLACE	SBR	X1	4		2228	H 089		33
295	8	200		SBR	PLC2&3,3&X1	7		2232	H L02 0|3		34
296	8	210		MLC	2&X1,PLC1&3	7		2239	M 0|2 K49		34
297	8	220	PLC1	MLC	0,PLCSY	7		2246	M 000 L82		34

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
298	8	230	PLC1A	MLC	PLCSY,PLCB	7	2253	M L82	L85		34
299	8	240		C	PLCSY,@.EB@	7	2260	C L82	P04		34
300	8	250		BE	PLC3	5	2267	B L03	S		35
301	9	010		C	PLC1A&6,&PLCMAX	7	2272	C K59	P10		35
302	9	020		BE	PLC3	5	2279	B L03	S		35
303	9	030		MA	@003@,PLC1A&6					MACRO	
304				SW	PLC1A&6-2	4	2284	, K57		GEN	35
305				A	@003@,PLC1A&6	7	2288	A P13	K59	GEN	35
306				CW	PLC1A&6-2	4	2295	) K57		GEN	35
307	9	040	PLC2	B	0	4	2299	B 000			35
308	9	050	PLC3	SW	PLC5&1	4	2303	, L79			36
309	9	060		B	IORW	4	2307	B 343			36
310	9	070		RT	4,PLC5	8	2311	M %U4	L78 R		36
311	9	080		DCW	PLC4	3	2321	L26			36
312	9	090		B	PLC3	4	2322	B L03			36
313	9	100	PLC4	BSP	4	5	2326	U %U4	B		36
314	9	110		SW	PLCMAX&1	4	2331	, O83			36
315	9	120		B	IORW	4	2335	B 343			37
316	9	130		WT	4,PLCA	8	2339	M %U4	L83 W		37
317	9	140		DCW	*&1	3	2349	L50			37
318	9	150		WTM	4	5	2350	U %U4	M		37
319	9	160		BSP	4	5	2355	U %U4	B		37
320	9	170		MLC	&PLCB,PLC1A&6	7	2360	M P16	K59		37
321	9	180		ZA	@0@,PLCMAX	7	2367	? P17	O82		37
322	9	190		B	PLC2	4	2374	B K99			38
323	9	200	PLC5	EQU	*&1		2378				
324	9	210		DCW	@ }@	2	2379				38
325	9	220	PLCSY	DCW	#3	3	2382				38
326	9	230		DA	1X300		2383	2682			38
327	9	240	PLCA		1		2383			SBFLD	
328	9	250	PLCB		3		2385			SBFLD	
329	10	010	PLCMAX	EQU	*		2682				
330	10	020		DC	@ }@	1	2683				39
331	10	030		LTORG				2684			
				DCW	@/24@	3	2686			LIT	39
					@.DL@	3	2689			LIT	39
					@.MC@	3	2692			LIT	39
					@.PD@	3	2695			LIT	39
					@.DE@	3	2698			LIT	40
					@.LD@	3	2701			LIT	40
					@.EB@	3	2704			LIT	40
		271	OUTBKT		#03	3	2707			AREA	40
		301			&PLCMAX	3	2710	O82		ADCON	40
					@003@	3	2713			LIT	40
		320			&PLCB	3	2716	L85		ADCON	40
					@0@	1	2717			LIT	41
332	10	040		DCW	@ }@	1	2718				41
333	10	050		END				/ 000	O80		42
					GMWM						

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CLEAR STORAGE 1 ,008015,019026,030,034041,045,053,0570571026 1
CLEAR STORAGE 2 L068112,102106,113/101099/I99,027A070028)027B0010270B0261,001/001113I0 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	010	000	JOB	1401 COBOL - E01						
102	1	020		CTL	631 11						
103	1	030	X1	EQU	89			0089			
104	1	040	X2	EQU	94			0094			
105	1	050	X3	EQU	99			0099			
106	1	060	IORW	EQU	343			0343			
107	1	070	GETX	EQU	335			0335			
108	1	080	PUTX	EQU	363			0363			
109	1	090	SUPER	EQU	351			0351			
110	1	100		ORG	1300				1300		
111	1	110	BEGIN	B	PLACE	4	1300	B X45			4
112	1	120		DCW	&@.IC@	3	1306	Z02			4
113	1	130		B	PLACE	4	1307	B X45			4
114	1	140		DCW	&@.CC@	3	1313	Z05			4
115	1	150		B	PLACE	4	1314	B X45			4
116	1	160		DCW	VLC	3	1320	U38			4
117	1	170		B	PLACE	4	1321	B X45			4
118	1	180		DCW	&@JOB@	3	1327	Z08			5
119	1	190		B	PLACE	4	1328	B X45			5
120	1	200		DCW	VOP	3	1334	U41			5
121	1	210	JOB1	B	GETSX	4	1335	B Z25			5
122	1	220		C	SX,VJOB	7	1339	C Z59 U35			5
123	1	230		BU	START1	5	1346	B T97 /			5
124	1	240	START	B	GETSX	4	1351	B Z25			5
125	1	250		C	SX,VJOB	7	1355	C Z59 U35			6
126	2	010		BE	JOB1	5	1362	B T35 S			6
127	2	020		C	LNGLTH,@50@	7	1367	C U43 Z10			6
128	2	030		BE	START	5	1374	B T51 S			6
129	2	040		A	@1@,LNGLTH	7	1379	A Z11 U43			6
130	2	050		B	PLACE	4	1386	B X45			6
131	2	060		DCW	SX	3	1392	Z59			6
132	2	070		B	START	4	1393	B T51			7
133	2	080	START1	C	SX,ENV	7	1397	C Z59 U32			7
134	2	090		BU	JOB1	5	1404	B T35 /			7
135	2	100		B	PLACE	4	1409	B X45			7
136	2	110		DCW	VMC	3	1415	Z62			7
137	2	120		B	PLACE	4	1416	B X45			7
138	2	130		DCW	&@.EB@	3	1422	Z14			7
139	2	140		B	SUPER	4	1423	B 351			8
140	2	150		DCW	@E02@	3	1429				8
141	2	160	ENV	DCW	@*91@	3	1432				8
142	2	170	VJOB	DCW	@.JB@	3	1435				8
143	2	180	VLC	DCW	@.LC@	3	1438				8
144	2	190	VOP	DCW	@.OP@	3	1441				8
145	2	200	LNGLTH	DCW	@00@	2	1443				8
146	2	220		DA	1X300			1444	1743		9
147	2	230	PLCA		1			1444		SBFLD	

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	2	240	PLCB		3			1446		SBFLD	
149	2	250	PLCMAX	EQU	*			1743			
150	3	010		DC	@}@		1	1744			10
151	3	030	PLACE	SBR	X1		4	1745	H 089		10
152	3	040		SBR	PLC2&3,3&X1		7	1749	H Y19 0|3		10
153	3	050		MLC	2&X1,PLC1&3		7	1756	M 0|2 X66		10
154	3	060	PLC1	MLC	0,PLCSY		7	1763	M 000 Y99		10
155	3	070	PLC1A	MLC	PLCSY,PLCB		7	1770	M Y99 U46		11
156	3	080		C	PLCSY,@.EB@		7	1777	C Y99 Z14		11
157	3	090		BE	PLC3		5	1784	B Y20 S		11
158	3	100		C	PLC1A&6,&PLCMAX		7	1789	C X76 Z17		11
159	3	110		BE	PLC3		5	1796	B Y20 S		11
160	3	120		MA	@003@,PLC1A&6					MACRO	
161				SW	PLC1A&6-2		4	1801	, X74	GEN	11
162				A	@003@,PLC1A&6		7	1805	A Z20 X76	GEN	12
163				CW	PLC1A&6-2		4	1812	) X74	GEN	12
164	3	130	PLC2	B	0		4	1816	B 000		12
165	3	140	PLC3	SW	PLC5&1		4	1820	, Y96		12
166	3	150		B	IORW		4	1824	B 343		12
167	3	160		RT	4,PLC5		8	1828	M %U4 Y95 R		12
168	3	170		DCW	PLC4		3	1838	Y43		12
169	3	180		B	PLC3		4	1839	B Y20		13
170	3	190	PLC4	BSP	4		5	1843	U %U4 B		13
171	3	200		SW	PLCMAX&1		4	1848	, X44		13
172	3	210		B	IORW		4	1852	B 343		13
173	3	220		WT	4,PLCA		8	1856	M %U4 U44 W		13
174	3	230		DCW	*&1		3	1866	Y67		13
175	3	240		WTM	4		5	1867	U %U4 M		13
176	3	250		BSP	4		5	1872	U %U4 B		14
177	4	010		MLC	&PLCB,PLC1A&6		7	1877	M Z23 X76		14
178	4	020		ZA	@0@,PLCMAX		7	1884	? Z24 X43		14
179	4	030		B	PLC2		4	1891	B Y16		14
180	4	040	PLC5	EQU	*&1			1895			
181	4	050		DCW	@ }@		2	1896			14
182	4	060	PLCSY	DCW	#3		3	1899			14
183	4	070		LTORG	*			1900			
				DCW	@.IC@		3	1902		LIT	14
					@.CC@		3	1905		LIT	15
					@JOB@		3	1908		LIT	15
					@50@		2	1910		LIT	15
					@1@		1	1911		LIT	15
					@.EB@		3	1914		LIT	15
		158			&PLCMAX		3	1917	X43	ADCON	15
					@003@		3	1920		LIT	15
		177			&PLCB		3	1923	U46	ADCON	16
					@0@		1	1924		LIT	16
184	4	080	GETSX	SBR	GETSX1&3		4	1925	H Z42		16
185	4	090		B	GETX		4	1929	B 335		16
186	4	100		DCW	SX		3	1935	Z59		16
187	4	110		DCW	EOJ		3	1938	Z43		16

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
188	4	120	GETSX1	B	0		4	1939	B 000		16
189	4	130	EOJ	B	PUTX		4	1943	B 363		17
190	4	140		DCW	SX		3	1949	Z59		17
191	4	150		B	SUPER		4	1950	B 351		17
192	4	160		DCW	@F01@		3	1956			17
193	4	170	SX	DCW	#3		3	1959			17
194	4	180	VMC	DCW	@.MC@		3	1962			17
195	4	190		DCW	@}@		1	1963			17
196	4	200		END	BEGIN				/ T00 080		18

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CLEAR STORAGE 1      ,008015,019026,030,034041,045,053,0570571026      1
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SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
101	1	010	000	JOB	1401 COBOL - E02						
102	1	020		CTL	631 11						
103	1	030	X1	EQU	89			0089			
104	1	040	X2	EQU	94			0094			
105	1	050	X3	EQU	99			0099			
106	1	060	GETX	EQU	335			0335			
107	1	070	SUPER	EQU	351			0351			
108	1	080		ORG	1300				1300		
109	1	090	FIRSTN	DCW	#3		3	1302			4
110	1	100		DC	#47		47	1349			6
111	1	110		DCW	#50		50	1399			8
112	1	120		DCW	#50		50	1449			10
113	1	130		DCW	#50		50	1499			12
114	1	140		DCW	#50		50	1549			14
115	1	150		DCW	#50		50	1599			16
116	1	160		DCW	#50		50	1649			18
117	1	170		DCW	#50		50	1699			20
118	1	180		DCW	#50		50	1749			22
119	1	190	NOOVLP	DC	#1		1	1750			22
120	1	200	ASGN	EQU	*			1750			
121	1	210	ORIGIN	DC	#5		5	1755			22
122	1	220	SOURCE	DC	#1		1	1756			22
123	1	230	OBJECT	DC	#1		1	1757			22
124	1	240		DC	#4		4	1761			22
125	1	250	NEXTTE	DCW	FIRSTN		3	1764	T02		22
126	2	010	SPRD	DCW	#1		1	1765			22
127	2	020	SPPN	DCW	#1		1	1766			22
128	2	030	SPPT	DCW	#1		1	1767			22
129	2	040	SLCCNT	DCW	@01@		2	1769			23
130	2	050	NORELS	EQU	NOOVLP&1			1751			
131	2	060	FILEN	EQU	0&X3			0000			
132	2	070	DEVICE	EQU	1&X3			0001			
133	2	080	OPN	EQU	1&X3			0001			
134	2	090	CLOS	EQU	2&X3			0002			
135	2	100	INPT	EQU	2&X3			0002			
136	2	110	UNIT	EQU	2&X3			0002			
137	2	120	RSRV	EQU	3&X3			0003			
138	2	130	OUTP	EQU	3&X3			0003			
139	2	140	ALT	EQU	3&X3			0003			
140	2	150	BFRCD	EQU	8&X3			0008			
141	2	160	RECSIZ	EQU	9&X3			0009			
142	2	170	VARIABLE	EQU	11&X3			0011			
143	2	180	STND	EQU	12&X3			0012			
144	2	190	LOCK	EQU	14&X3			0014			
145	2	200	NORWD	EQU	15&X3			0015			
146	2	210	IDHDBL	EQU	4&X3			0004			
147	2	220		ORG	1800				1800		

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	2	230	BEGIN	MLNS	1126,SOURCE		7	1800	D /26 X56		24
149	2	231	LL00	B	GETSX		4	1807	B G15		24
150	2	232		C	SX,VOCOMP		7	1811	C G35 Z38		24
151	2	233		BE	OCOMP		5	1818	B !71 S		24
152	2	234		C	SX,VNORLS		7	1823	C G35 J50		24
153	2	235		BE	SNORLS		5	1830	B Y39 S		24
154	2	236		B	LL00		4	1835	B Y07		24
155	2	237	SNORLS	SW	1752		4	1839	, X52		25
156	2	238		B	LL00		4	1843	B Y07		25
157	2	240	START	B	GETSX	GENERAL CONTROL	4	1847	B G15		25
158	3	020	START1	C	SX,VSLCT		7	1851	C G35 Z41		25
159	3	030		BE	SELECT		5	1858	B L36 S		25
160	3	040		C	SX,VDATA		7	1863	C G35 Z44		25
161	3	050		BE	DATA		5	1870	B Z54 S		25
162	3	060		C	SX,VRDR	COLLECT	7	1875	C G35 Z47		26
163	3	070		BU	START2	USE	5	1882	B Y94 /		26
164	3	080		MLC	@1@,SPRD	OF	7	1887	M G38 X65		26
165	3	090	START2	C	SX,VPNCH	H/W	7	1894	C G35 Z50		26
166	3	100		BU	START3	DEVICES	5	1901	B Z13 /		26
167	3	110		MLC	@1@,SPPN	IN	7	1906	M G38 X66		26
168	3	120	START3	C	SX,VPRNTR	SPECIAL-NAMES	7	1913	C G35 Z53		27
169	3	130		BU	START	SECTION	5	1920	B Y47 /		27
170	3	140		MLC	@1@,SPPT		7	1925	M G38 X67		27
171	3	150		B	START		4	1932	B Y47		27
172	3	160	VOCOMP	DCW	@*97@		3	1938			27
173	3	170	VSLCT	DCW	@*77@		3	1941			27
174	3	180	VDATA	DCW	@/24@		3	1944			27
175	3	190	VRDR	DCW	@*80@		3	1947			28
176	3	200	VPNCH	DCW	@*88@		3	1950			28
177	3	210	VPRNTR	DCW	@*83@		3	1953			28
178	3	220	DATA	B	GETSX	GENERAL CONTROL	4	1954	B G15		28
179	3	230		C	SX,VFD	DATA	7	1958	C G35 Z88		28
180	3	240		BE	FD	DIVISION	5	1965	B P04 S		28
181	3	250		C	SX,VPROC		7	1970	C G35 Z91		28
182	4	010		BE	PROC		5	1977	B Z92 S		29
183	4	020		B	DATA		4	1982	B Z54		29
184	4	030	VFD	DCW	@/26@		3	1988			29
185	4	040	VPROC	DCW	@*01@		3	1991			29
186	4	050	PROC	MLC	@B@,NOTFND	GENERAL CONTROL	7	1992	M G39 F73		29
187	4	060	PROC1	B	GETSX	PROCEDURE	4	1999	B G15		29
188	4	070	PROC2	C	SX,VOPEN	DIVISION	7	2003	C G35 !33		29
189	4	080		BE	OPEN		5	2010	B A70 S		30
190	4	090		C	SX,VCLOSE		7	2015	C G35 !36		30
191	4	100		BE	CLOSE		5	2022	B B72 S		30
192	4	110		B	PROC1		4	2027	B Z99		30
193	4	120	VOPEN	DCW	@)14@		3	2033			30
194	4	130	VCLOSE	DCW	@)09@		3	2036			30
195	4	140	EOJ	MLNS	PDNFCT,1761		7	2037	D G37 X61		30
196	4	150		CHAIN	1					MACRO	
197				MLNS			1	2044	D	GEN	31

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
198	4	160		C	FIRSTN,@ @		7	2045	C T02 G42		31
199	4	170		BE	EOJ1		5	2052	B !64 S		31
200	4	180		B	SUPER		4	2057	B 351		31
201	4	190		DCW	@E03@		3	2063			31
202	4	200	EOJ1	B	SUPER		4	2064	B 351		31
203	4	210		DCW	@E04@		3	2070			31
204	4	220	OCOMP	B	GETSX		4	2071	B G15		32
205	4	230		C	SX,VASGN		7	2075	C G35 J41		32
206	4	240		BE	ASSIGN		5	2082	B J54 S		32
207	4	250		C	SX,VMEM		7	2087	C G35 J44		32
208	5	010		BE	MEM		5	2094	B J77 S		32
209	5	020		C	SX,VNOOV		7	2099	C G35 J47		32
210	5	030		BE	NOOV		5	2106	B K92 S		33
211	5	040		C	SX,VNORLS		7	2111	C G35 J50		33
212	5	050		BE	NORLS		5	2118	B J69 S		33
213	5	060		C	SX,VPRD		7	2123	C G35 J53		33
214	5	070		BE	START		5	2130	B Y47 S		33
215	5	080		B	OCOMP		4	2135	B !71		33
216	5	090	VASGN	DCW	@*75@		3	2141			33
217	5	100	VMEM	DCW	@*76@		3	2144			34
218	5	110	VNOOV	DCW	@*72@		3	2147			34
219	5	120	VNORLS	DCW	@*90@		3	2150			34
220	5	130	VPRD	DCW	@.PD@		3	2153			34
221	5	140	ASSIGN	MLZS	&1,ASGN		7	2154	Y G43 X50		34
222	5	150		SW	085		4	2161	, 085		34
223	5	160		B	OCOMP		4	2165	B !71		34
224	5	170	NORLS	SW	NORELS		4	2169	, X51		35
225	5	180		B	OCOMP		4	2173	B !71		35
226	5	190	MEM	B	GETSX		4	2177	B G15		35
227	5	200		C	SX,VADDR		7	2181	C G35 K41		35
228	5	210		BE	ADDR		5	2188	B K42 S		35
229	5	220		B	GETSX		4	2193	B G15		35
230	5	230		C	SX-2,@1@		7	2197	C G33 G38		35
231	5	240		BU	MEM1		5	2204	B K16 /		36
232	5	250		MLNS	SX-1,SX-2		7	2209	D G34 G33		36
233	6	010	MEM1	MLNS	SX-2,OBJECT		7	2216	D G33 X57		36
234	6	020	MEM2	B	GETSX		4	2223	B G15		36
235	6	030		BCE	OCOMP,SX-2,.		8	2227	B !71 G33 .		36
236	6	040		B	MEM2		4	2235	B K23		36
237	6	050	VADDR	DCW	@*74@		3	2241			36
238	6	060	ADDR	B	GETSX		4	2242	B G15		37
239	6	070		B	GETSX		4	2246	B G15		37
240	6	080		MLNS	SX,ORIGIN-3		7	2250	D G35 X52		37
241	6	090		MLNS			1	2257	D		37
242	6	100		MLNS			1	2258	D		37
243	6	110	ADDR01	B	GETSX		4	2259	B G15		37
244	6	120		BCE	ADDR02,SX-2,.		8	2263	B K84 G33 .		37
245	6	130		MLNS	SX,ORIGIN		7	2271	D G35 X55		38
246	6	140		MLNS			1	2278	D		38
247	6	150		MLNS			1	2279	D		38

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
248	6	160		B	ADDR01		4	2280	B K59		38
249	6	170	ADDR02	B	GETSX		4	2284	B G15		38
250	6	180		B	MEM		4	2288	B J77		38
251	6	190	NOOV	SW	NOOVLP	NO-OVERLAP ENTRY	4	2292	, X50		38
252	6	200		B	OCOMP	OF OBJECT-COMPUTER	4	2296	B !71		39
253	6	210	NEWFIL	SBR	NWFLEX&3		4	2300	H L35		39
254	6	220		A	&1,SLCCNT	OF FILE-CONTROL	7	2304	A G43 X69		39
255	6	230		MLC	NEXTTE,X3	PARAGRAPH	7	2311	M X64 099		39
256	6	240		SBR	NEXTTE,50&X3		7	2318	H X64 0E0		39
257	6	250		MLC	SX,FILEN		7	2325	M G35 0?0		39
258	7	010	NWFLEX	B	0		4	2332	B 000		40
259	7	020	SELECT	BCE	START,SLCCNT-1,1	SELECT ROUTINE	8	2336	B Y47 X68 1		40
260	7	030		B	GETSX		4	2344	B G15		40
261	7	040		B	NEWFIL		4	2348	B L00		40
262	7	050		B	GETSX		4	2352	B G15		40
263	7	060		B	GETSX		4	2356	B G15		40
264	7	070		C	SX,VRDR		7	2360	C G35 Z47		40
265	7	080		BE	RDR		5	2367	B M18 S		41
266	7	090		C	SX,VPNCH		7	2372	C G35 Z50		41
267	7	100		BE	PNCH		5	2379	B M36 S		41
268	7	110		C	SX,VPRNTR	ASSIGN TO	7	2384	C G35 Z53		41
269	7	120		BE	PRNTR		5	2391	B M07 S		41
270	7	130		MLNS	@1@,DEVICE	-TAPE	7	2396	D G38 0?1		41
271	7	140		B	NXT		4	2403	B M43		42
272	7	150	PRNTR	MLNS	@2@,DEVICE	-PRINTER	7	2407	D G44 0?1		42
273	7	160		B	NXT		4	2414	B M43		42
274	7	170	RDR	MLNS	@3@,DEVICE	-READER	7	2418	D G45 0?1		42
275	7	171		MLCWA	0&X3,195		7	2425	L 0?0 195		42
276	7	180		B	NXT		4	2432	B M43		42
277	7	190	PNCH	MLNS	@4@,DEVICE		7	2436	D G46 0?1		43
278	7	200	NXT	B	GETSX		4	2443	B G15		43
279	7	210		C	SX,VNL		7	2447	C G35 M77		43
280	7	220		BE	NL1		5	2454	B M81 S		43
281	7	230	NXT2	C	SX,VRSRV		7	2459	C G35 M80		43
282	7	240		BE	RESERV		5	2466	B O80 S		43
283	7	250		B	START1		4	2471	B Y51		43
284	8	010	VNL	DCW	@.NL@		3	2477			44
285	8	020	VRSRV	DCW	@*70@		3	2480			44
286	8	021	NL1	B	GETSX		4	2481	B G15		44
287	8	022		BCE	NXT2,DEVICE,2		8	2485	B M59 0?1 2		44
288	8	023		BCE	TSTRDR,DEVICE,3		8	2493	B O03 0?1 3		44
289	8	024		BCE	TSTPNC,DEVICE,4		8	2501	B N68 0?1 4		44
290	8	025	TSTTAP	BCE	OK,SX-2,1		8	2509	B O34 G33 1		45
291	8	026		BCE	OK,SX-2,2		8	2517	B O34 G33 2		45
292	8	026		BCE	OK,SX-2,3		8	2525	B O34 G33 3		45
293	8	028		BCE	OK,SX-2,4		8	2533	B O34 G33 4		45
294	8	029		BCE	OK,SX-2,5		8	2541	B O34 G33 5		46
295	8	030		BCE	OK,SX-2,6		8	2549	B O34 G33 6		46
296	8	031		MLC	@6 @,SX		7	2557	M G49 G35		46
297	8	032		B	OK		4	2564	B O34		46

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
298	8	033	TSTPNC	BCE	OK,SX-2,0		8	2568	B O34 G33 0		46
299	8	034		BCE	OK,SX-2,4		8	2576	B O34 G33 4		47
300	8	035		BCE	OK,SX-2,8		8	2584	B O34 G33 8		47
301	8	036		MLC	@4 @,SX		7	2592	M G52 G35		47
302	8	037		B	OK		4	2599	B O34		47
303	8	038	TSTRDR	BCE	OK,SX-2,0		8	2603	B O34 G33 0		47
304	8	039		BCE	OK,SX-2,1		8	2611	B O34 G33 1		48
305	8	040		BCE	OK,SX-2,2		8	2619	B O34 G33 2		48
306	8	041		MLC	@1 @,SX		7	2627	M G55 G35		48
307	8	042	OK	MLNS	SX-2,UNIT		7	2634	D G33 0?2		48
308	8	050		B	GETSX		4	2641	B G15		48
309	8	060		B	GETSX		4	2645	B G15		48
310	8	070		C	SX,VNL		7	2649	C G35 M77		49
311	8	080		BU	NXT2		5	2656	B M59 /		49
312	8	090		B	GETSX	ALT. UNIT NUMBER	4	2661	B G15		49
313	8	100		MLNS	SX-2,ALT		7	2665	D G33 0?3		49
314	8	110		B	GETSX		4	2672	B G15		49
315	8	120		B	NXT		4	2676	B M43		49
316	8	130	RESERV	B	GETSX	RESERVE ROUTINE	4	2680	B G15		49
317	8	140		C	SX,VNL		7	2684	C G35 M77		50
318	8	150		BU	START		5	2691	B Y47 /		50
319	8	160		SW	RSRV		4	2696	, 0?3		50
320	8	170		B	START		4	2700	B Y47		50
321	8	180	FD	B	GETSX	FD ROUTINE	4	2704	B G15		50
322	8	190		B	FINDSX	GENERAL CONTROL	4	2708	B F23		50
323	8	200	FD1	B	GETSX		4	2712	B G15		50
324	8	210	FD2	C	SX,VLBL		7	2716	C G35 Q14		51
325	8	220		BE	LABEL		5	2723	B R01 S		51
326	8	230		C	SX,VRCDNG		7	2728	C G35 Q17		51
327	8	240		BE	RCDNG		5	2735	B Q70 S		51
328	8	250		C	SX,VVALUE		7	2740	C G35 Q20		51
329	9	010		BE	VALUE		5	2747	B R47 S		51
330	9	020		C	SX,VDATA		7	2752	C G35 Z44		52
331	9	030		BU	FD3		5	2759	B P72 /		52
332	9	040		B	GETSX		4	2764	B G15		52
333	9	050		B	FD1		4	2768	B P12		52
334	9	060	FD3	C	SX,VBLOCK		7	2772	C G35 Q23		52
335	9	070		BE	BLOCK		5	2779	B A14 S		52
336	9	080		C	SX,VRECRD		7	2784	C G35 Q26		52
337	9	090		BE	FD1		5	2791	B P12 S		53
338	9	100		C	SX,VRECL		7	2796	C G35 Q29		53
339	9	110		BE	EOFD		5	2803	B Q30 S		53
340	9	120		B	FD1		4	2808	B P12		53
341	9	130	VLBL	DCW	@/19@		3	2814			53
342	9	140	VRCDNG	DCW	@/06@		3	2817			53
343	9	150	VVALUE	DCW	@/13@		3	2820			53
344	9	160	VBLOCK	DCW	@/16@		3	2823			54
345	9	170	VRECRD	DCW	@/11@		3	2826			54
346	9	180	VRECL	DCW	@.LR@		3	2829			54
347	9	190	EOFD	B	GETSX	END-OF-FD ROUTINE	4	2830	B G15		54

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
348	9	200		C	SX,VRLI		7	2834	C G35 Q69		54
349	9	210		BE	VAR		5	2841	B Q59 S		54
350	9	220		MLNS	SX,RECSIZ		7	2846	D G35 0?9		54
351	9	230		MLNS			1	2853	D		55
352	9	240		MLNS			1	2854	D		55
353	9	250		B	DATA		4	2855	B Z54		55
354	10	010	VAR	SW	VARIBL		4	2859	, 0A1		55
355	10	020		B	EOFD		4	2863	B Q30		55
356	10	030	VRLI	DCW	@.RI@		3	2869			55
357	10	040	RCDNG	B	GETSX		4	2870	B G15		55
358	10	050		C	SX,VNL		7	2874	C G35 M77		56
359	10	060		BU	RCDNG		5	2881	B Q70 /		56
360	10	070		B	GETSX		4	2886	B G15		56
361	10	080		MLNS	SX-2,15&X3		7	2890	D G33 0A5		56
362	10	090		B	FD1		4	2897	B P12		56
363	10	100	LABEL	B	GETSX	LABEL RECORDS ENTRY	4	2901	B G15		56
364	10	110		C	SX,VSTND		7	2905	C G35 R43		56
365	10	120		BU	LBL1		5	2912	B R25 /		57
366	10	130		SW	STND		4	2917	, 0A2		57
367	10	140		B	FD1		4	2921	B P12		57
368	10	150	LBL1	C	SX,VOMITT		7	2925	C G35 R46		57
369	10	160		BU	LABEL		5	2932	B R01 /		57
370	10	170		B	FD1		4	2937	B P12		57
371	10	180	VSTND	DCW	@/08@		3	2943			57
372	10	190	VOMITT	DCW	@*14@		3	2946			58
373	10	200	VALUE	B	GETSX	VALUE OF CLAUSE	4	2947	B G15		58
374	10	210		C	SX,VID	OF LABEL RECORDS	7	2951	C G35 ?17		58
375	10	220		BE	ID	IN FD	5	2958	B ?30 S		58
376	10	230		C	SX,VCD	GENERAL CONTROL	7	2963	C G35 ?20		58
377	10	240		BE	CD		5	2970	B ?45 S		58
378	10	250		C	SX,VRC		7	2975	C G35 ?23		58
379	11	010		BE	RC		5	2982	B ?56 S		59
380	11	020		C	SX,VFSN		7	2987	C G35 ?26		59
381	11	030		BE	FSN		5	2994	B ?67 S		59
382	11	040		C	SX,VRSEQ		7	2999	C G35 ?29		59
383	11	050		BE	RSEQ		5	3006	B ?78 S		59
384	11	060		B	FD2		4	3011	B P16		59
385	11	070	VID	DCW	@/25@		3	3017			59
386	11	080	VCD	DCW	@/32@		3	3020			60
387	11	090	VRC	DCW	@/02@		3	3023			60
388	11	100	VFSN	DCW	@/31@		3	3026			60
389	11	110	VRSEQ	DCW	@/30@		3	3029			60
390	11	120	ID	MLC	IDF,FACTOR	COLLECT	7	3030	M ?93 F20		60
391	11	130	ID1	B	GETLIT	SPECIFIC	4	3037	B C94		60
392	11	140		B	VALUE	VALUES	4	3041	B R47		60
393	11	150	CD	MLC	CDF,FACTOR	OF	7	3045	M ?98 F20		61
394	11	160		B	ID1	LABEL	4	3052	B ?37		61
395	11	170	RC	MLC	RCF,FACTOR	RECORD	7	3056	M A03 F20		61
396	11	180		B	ID1	ENTRIES	4	3063	B ?37		61
397	11	190	FSN	MLC	FSNF,FACTOR		7	3067	M A08 F20		61

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
398	11	200		B	ID1		4	3074	B ?37		61
399	11	210	RSEQ	MLC	RSEQF,FACTOR		7	3078	M A13 F20		62
400	11	220		B	ID1		4	3085	B ?37		62
401	11	230	IDF	DCW	@01610@		5	3093			62
402	11	240	CDF	DCW	@02605@		5	3098			62
403	11	250	RCF	DCW	@03103@		5	3103			62
404	12	010	FSNF	DCW	@03405@		5	3108			62
405	12	020	RSEQF	DCW	@03905@		5	3113			62
406	12	030	BLOCK	MLC	BLOCKF,FACTOR	BLOCK OPTION	7	3114	M A69 F20		63
407	12	040		B	GETLIT	OF FD	4	3121	B C94		63
408	12	050		B	GETSX		4	3125	B G15		63
409	12	060		C	SX,VRECRD		7	3129	C G35 Q26		63
410	12	070		BU	FD2		5	3136	B P16 /		63
411	12	080		B	GETSX		4	3141	B G15		63
412	12	090		C	SX,VNL		7	3145	C G35 M77		63
413	12	100		BE	FD1		5	3152	B P12 S		64
414	12	110		SW	BFRCDs		4	3157	, 0?8		64
415	12	120		B	FD2		4	3161	B P16		64
416	12	130	BLOCKF	DCW	@01005@		5	3169			64
417	12	140	OPEN	B	GETSX	OPEN ROUTINE	4	3170	B G15		64
418	12	150		C	SX,VINPUT		7	3174	C G35 B65		64
419	12	160		BE	OPEN1		5	3181	B A98 S		64
420	12	170		C	SX,VOUPT		7	3186	C G35 B68		65
421	12	180		BU	OPEN2		5	3193	B B09 /		65
422	12	190	OPEN1	MLC	SX,MODE		7	3198	M G35 B71		65
423	12	200		B	OPEN		4	3205	B A70		65
424	12	210	OPEN2	C	SX-2,@A@		7	3209	C G33 G56		65
425	12	220		BH	PROC2		5	3216	B !03 U		65
426	12	230		B	FINDSX		4	3221	B F23		65
427	12	240		C	MODE,VINPUT		7	3225	C B71 B65		66
428	12	250		BU	OPEN3		5	3232	B B48 /		66
429	13	010		MLZS	&1,INPT		7	3237	Y G43 0?2		66
430	13	020		B	OPEN4		4	3244	B B55		66
431	13	030	OPEN3	MLZS	&1,OUTP		7	3248	Y G43 0?3		66
432	13	040	OPEN4	SW	OPN		4	3255	, 0?1		66
433	13	050		B	OPEN		4	3259	B A70		66
434	13	060	VINPUT	DCW	@*20@		3	3265			67
435	13	070	VOUPT	DCW	@*15@		3	3268			67
436	13	080	MODE	DCW	#3		3	3271			67
437	13	090	CLOSE	B	GETSX	CLOSE ROUTINE	4	3272	B G15		67
438	13	100		MLC	@N@,NTFD2		7	3276	M G57 G07		67
439	13	110		C	SX-2,@A@		7	3283	C G33 G56		67
440	13	120		BH	CLOSE1		5	3290	B C07 U		67
441	13	130		B	FINDSX		4	3295	B F23		68
442	13	140		SW	CLOS		4	3299	, 0?2		68
443	13	150		B	CLOSE		4	3303	B B72		68
444	13	160	CLOSE1	C	SX,VLOCK		7	3307	C G35 C87		68
445	13	170		BU	CLOSE2		5	3314	B C27 /		68
446	13	180		SW	LOCK		4	3319	, 0A4		68
447	13	190		B	CLOSE		4	3323	B B72		68

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
448	13	200	CLOSE2	C	SX,VNO		7	3327	C G35 C90		69
449	13	210		BU	CLOSE3		5	3334	B C47 /		69
450	13	220		SW	NORWD		4	3339	, 0A5		69
451	13	230		B	CLOSE		4	3343	B B72		69
452	13	240	CLOSE3	C	SX,VRWD		7	3347	C G35 C93		69
453	13	250		BE	CLOSE		5	3354	B B72 S		69
454	14	010		C	SX,VAND		7	3359	C G35 C84		69
455	14	020		BE	CLOSE		5	3366	B B72 S		70
456	14	030		MLC	@B@,NTFD2		7	3371	M G39 G07		70
457	14	040		B	PROC2		4	3378	B !03		70
458	14	050	VAND	DCW	@\$32@		3	3384			70
459	14	060	VLOCK	DCW	@*26@		3	3387			70
460	14	070	VNO	DCW	@*33@		3	3390			70
461	14	080	VRWD	DCW	@*13@		3	3393			70
462	14	090	GETLIT	SBR	GTLTXX&3		4	3394	H F00		71
463	14	100		B	GETSX		4	3398	B G15		71
464	14	110		MLNS	FACTOR-2,GTLT01&6		7	3402	D F18 D17		71
465	14	120		MLNS			1	3409	D		71
466	14	130		MLNS			1	3410	D		71
467	14	140	GTLT01	SBR	X2,0&X3		7	3411	H 094 0?0		71
468	14	150	GTLT02	MLC	@00@,GTLTCT		7	3418	M G59 F22		71
469	14	160		BCE	ALFTST,FACTOR-1,1		8	3425	B E16 F19 1		72
470	14	170	GTLT03	B	GETSX		4	3433	B G15		72
471	14	180		BCE	GTLTXX,SX-2,.		8	3437	B E97 G33 .		72
472	14	190		B	BMPTST		4	3445	B D89		72
473	14	200		MLNS	SX-2,0&X2		7	3449	D G33 0!0		72
474	14	210		B	BMPTST		4	3456	B D89		72
475	14	220		MLNS	SX-1,1&X2		7	3460	D G34 0!1		73
476	14	230		B	BMPTST		4	3467	B D89		73
477	14	240		MLNS	SX,2&X2		7	3471	D G35 0!2		73
478	14	250		SBR	X2,3&X2		7	3478	H 094 0!3		73
479	15	010		B	GTLT03		4	3485	B D33		73
480	15	020	BMPTST	SBR	BMPEX&3		4	3489	H E15		73
481	15	030		C	FACTOR,GTLTCT		7	3493	C F20 F22		74
482	15	040		BE	GTLTEX		5	3500	B E73 S		74
483	15	050		A	&1,GTLTCT		7	3505	A G43 F22		74
484	15	060	BMPEX	B	0		4	3512	B 000		74
485	15	070	ALFTST	BCE	GTLT03,SX-2,.		8	3516	B D33 G33 .		74
486	15	080	GTLT04	B	GETSX		4	3524	B G15		74
487	15	090		BCE	GTLTXX,SX,@		8	3528	B E97 G35 @		75
488	15	100		B	BMPTST		4	3536	B D89		75
489	15	110		BCE	IDERR,SX,		8	3540	B F01 G35		75
490	15	120	GTLT05	MLNS	SX,0&X2		7	3548	D G35 0!0		75
491	15	130		MLZS	SX,0&X2		7	3555	Y G35 0!0		75
492	15	140		SBR	X2,1&X2		7	3562	H 094 0!1		76
493	15	150		B	GTLT04		4	3569	B E24		76
494	15	160	GTLTEX	B	GETSX		4	3573	B G15		76
495	15	170		BCE	GTLTXX,SX-2,.		8	3577	B E97 G33 .		76
496	15	180		BCE	GTLTXX,SX,@		8	3585	B E97 G35 @		76
497	15	190		B	GTLTEX		4	3593	B E73		76

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
498	15	200	GTLTXX	B	0		4	3597	B 000		76
499	15	210	IDERR	SW	IDHDBL		4	3601	, 0?4		77
500	15	220		MLC	@. @, SX		7	3605	M G60 G35		77
501	15	230		B	GTLT05		4	3612	B E48		77
502	15	240	FACTOR	DCW	@00000@		5	3620			77
503	15	250	GTLTCT	DCW	@00@		2	3622			77
504	16	010	FINDSX	SBR	FNDSXX&3		4	3623	H F72		77
505	16	020		MLC	&FIRSTN, X3		7	3627	M G63 099		77
506	16	030	FND01	C	X3, NEXTTE		7	3634	C 099 X64		78
507	16	040		BE	NOTFND		5	3641	B F73 S		78
508	16	050		C	FILEN, SX		7	3646	C 0?0 G35		78
509	16	060		BE	FNDSXX		5	3653	B F69 S		78
510	16	070		SBR	X3, 50&X3		7	3658	H 099 0E0		78
511	16	080		B	FND01		4	3665	B F34		78
512	16	090	FNDSXX	B	0		4	3669	B 000		78
513	16	100	NOTFND	NOP	NTFD1		4	3673	N G00		79
514	16	110		BCE	DATA, SLCNT-1, 1		8	3677	B Z54 X68 1		79
515	16	120		B	NEWFIL		4	3685	B L00		79
516	16	130		MLZS	&1, 10&X3		7	3689	Y G43 0A0		79
517	16	140		B	FNDSXX		4	3696	B F69		79
518	16	150	NTFD1	A	&1, PDNFCT		7	3700	A G43 G37		79
519	16	160	NTFD2	B	OPEN		4	3707	B A70		79
520	16	170		B	CLOSE		4	3711	B B72		80
521	16	180	GETSX	SBR	GETSXX&3		4	3715	H G32		80
522	16	190		B	GETX		4	3719	B 335		80
523	16	200		DCW	SX		3	3725	G35		80
524	16	210		DCW	EOJ		3	3728	!37		80
525	16	220	GETSXX	B	0		4	3729	B 000		80
526	16	230	SX	DCW	#3		3	3735			80
527	16	240	PDNFCT	DCW	#2		2	3737			81
528	16	250	LTORG						3738		
			DCW		@1@		1	3738		LIT	81
					@B@		1	3739		LIT	81
					@ @		3	3742		LIT	81
					&1		1	3743		LIT	81
					@2@		1	3744		LIT	81
					@3@		1	3745		LIT	81
					@4@		1	3746		LIT	82
					@6 @		3	3749		LIT	82
					@4 @		3	3752		LIT	82
					@1 @		3	3755		LIT	82
					@A@		1	3756		LIT	82
					@N@		1	3757		LIT	82
					@00@		2	3759		LIT	82
					@. @		1	3760		LIT	83
		505			&FIRSTN		3	3763	T02	ADCON	83
529	17	010	ORG		3798				3798		
530	17	020	DCW		@} @		1	3798			84
531	17	030	END		BEGIN				/ Y00 080		85

CLEAR STORAGE 1	,008015,019026,030,034041,045,053,0570571026	1
CLEAR STORAGE 2	L068112,102106,113/101099/I99,027A070028)027B0010270B0261,001/001113I0	2
BOOTSTRAP	,008015,022029,036040,047054,061068,072/061039	3

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SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
101	1	010	000	JOB	1401 COBOL - E03						
102	1	020		CTL	631 11						
103	1	030	X1	EQU	89			0089			
104	1	040	X2	EQU	94			0094			
105	1	050	X3	EQU	99			0099			
106	1	060	SUPER	EQU	351			0351			
107	1	070	NEXTTE	EQU	1764			1764			
108	1	080	DVC	EQU	1&X3			0001			
109	1	090	TAPE	EQU	1753			1753			
110	1	100	READER	EQU	1754			1754			
111	1	110	PRINTR	EQU	1755			1755			
112	1	120	PUNCH	EQU	1753			1753			
113	1	130	INPUT	EQU	2&X3			0002			
114	1	140	TPIN	EQU	1756			1756			
115	1	150	OUTPUT	EQU	3&X3			0003			
116	1	160	TPOUT	EQU	1757			1757			
117	1	170	ALT	EQU	3&X3			0003			
118	1	180	ALTTAP	EQU	1754			1754			
119	1	190	LCK	EQU	14&X3			0014			
120	1	200	LOCK	EQU	1756			1756			
121	1	210	NOR	EQU	15&X3			0015			
122	1	220	NORWD	EQU	1757			1757			
123	1	230	STND	EQU	12&X3			0012			
124	1	240	STNDRD	EQU	1758			1758			
125	1	250	CHKA	EQU	13&X3			0013			
126	2	010	CHKALL	EQU	1758			1758			
127	2	020	FSTFN	EQU	34&X3			0034			
128	2	030	FSTRS	EQU	39&X3			0039			
129	2	040	FSTCD	EQU	26&X3			0026			
130	2	050	FSTRC	EQU	31&X3			0031			
131	2	060	BLOCK	EQU	10&X3			0010			
132	2	070	WORKA	EQU	7&X3			0007			
133	2	080	RESRV	EQU	3&X3			0003			
134	2	090	BLKSIZ	EQU	14&X3			0014			
135	2	100	BFRCD	EQU	8&X3			0008			
136	2	110	RECSIZ	EQU	9&X3			0009			
137	2	120		ORG	1800				1800		
138	2	130	START	B	GETFIL	4		1800	B Y85		4
139	2	140		B	DEVICE	4		1804	B Z22		4
140	2	150		B	TAPUSE	4		1808	B Z85		4
141	2	160		B	LABELS	4		1812	B !90		4
142	2	170		B	CHECKA	4		1816	B J33		4
143	2	180		B	BLCKNG	4		1820	B J60		4
144	2	190		B	WKAREA	4		1824	B J88		4
145	2	200		B	CONVNM	4		1828	B K28		5
146	2	210		B	START	4		1832	B Y00		5
147	2	220	ORGTST	DCW	#1	1		1836			5

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	2	230	EOJ	MLNS	1750,ORGTST		7	1837	D X50 Y36		5
149	2	240		BCE	EOJ1,ORGTST,		8	1844	B Y78 Y36		5
150	2	250		MLNS	1754,CNVGT5		7	1852	D X54 L29		5
151	3	010		CHAIN	4					MACRO	
152				MLNS			1	1859	D	GEN	5
153				MLNS			1	1860	D	GEN	6
154				MLNS			1	1861	D	GEN	6
155				MLNS			1	1862	D	GEN	6
156	3	020		B	FIX		4	1863	B M29		6
157	3	030		MLNS	CNVGT5,1754		7	1867	D L29 X54		6
158	3	040		CHAIN	4					MACRO	
159				MLNS			1	1874	D	GEN	6
160				MLNS			1	1875	D	GEN	6
161				MLNS			1	1876	D	GEN	7
162				MLNS			1	1877	D	GEN	7
163	3	050	EOJ1	B	SUPER		4	1878	B 351		7
164	3	060		DCW	@E04@		3	1884			7
165	3	070	GETFIL	SBR	GTFLEX&3	DEVELOPS ADDRESSES	4	1885	H Z18		7
166	3	080		MLC	NXTADR,X3	OF FILE DESCRIPTIONS	7	1889	M Z21 099		7
167	3	090		C	X3,NEXTTE	SEQUENTIALLY	7	1896	C 099 X64		7
168	3	100		BE	EOJ	THEN BRANCHES	5	1903	B Y37 S		8
169	3	110		SBR	NXTADR,50&X3	TO EOJ	7	1908	H Z21 0E0		8
170	3	120	GTFLEX	B	0		4	1915	B 000		8
171	3	130	NXTADR	DCW	@T02@		3	1921			8
172	3	140	DEVICE	SBR	DVCEX&3	RELATES DEVICES OF	4	1922	H Z84		8
173	3	150		BCE	DVRDR,DVC,3	EACH FD TO	8	1926	B Z58 0?1 3		8
174	3	160		BCE	DVPNT,DVC,2	DIOCS INFO	8	1934	B Z66 0?1 2		8
175	3	170		BCE	DVPNC,DVC,4		8	1942	B Z74 0?1 4		9
176	3	180		SW	TAPE		4	1950	, X53		9
177	3	190		B	DVCEX		4	1954	B Z81		9
178	3	200	DVRDR	SW	READER		4	1958	, X54		9
179	3	210		B	DVCEX		4	1962	B Z81		9
180	3	220	DVPNT	SW	PRINTR		4	1966	, X55		9
181	3	230		B	DVCEX		4	1970	B Z81		9
182	3	240	DVPNC	MLZS	&1,PUNCH		7	1974	Y M94 X53		10
183	3	250	DVCEX	B	0		4	1981	B 000		10
184	4	010	TAPUSE	SBR	TPUSEX&3	RELATES TAPE FILE	4	1985	H !00		10
185	4	020		BCE	TPUS01,DVC,1	INFO TO DIOCS	8	1989	B !01 0?1 1		10
186	4	030	TPUSEX	B	0	-TAPE USE	4	1997	B 000		10
187	4	040	TPUS01	BWZ	TPUS02,INPUT,2	-ALT TAPE	8	2001	V !13 0?2 2		10
188	4	050		SW	TPIN	-RWD OPTIONS	4	2009	, X56		10
189	4	060	TPUS02	BWZ	ALTT03,OUTPUT,2		8	2013	V !25 0?3 2		11
190	4	070		SW	TPOUT		4	2021	, X57		11
191	4	080	ALTT03	MLNS	ALT,TPTEST		7	2025	D 0?3 !89		11
192	4	090		BCE	RWD04,TPTEST,		8	2032	B !47 !89		11
193	4	100		MLZS	&1,ALTTAP		7	2040	Y M94 X54		11
194	4	110	RWD04	BW	RWD06,LCK		8	2047	V !67 0A4 1		12
195	4	120	RWD05	BW	RWD07,NOR		8	2055	V !78 0A5 1		12
196	4	130		B	TPUSEX		4	2063	B Z97		12
197	4	140	RWD06	MLZS	&1,LOCK		7	2067	Y M94 X56		12

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
198	4	150		B	RWD05		4	2074	B !55		12
199	4	160	RWD07	MLZS	&1,NORWD		7	2078	Y M94 X57		12
200	4	170		B	TPUSEX		4	2085	B Z97		13
201	4	180	TPTEST	DCW	#1		1	2089			13
202	4	190	LABELS	SBR	LBLLEX&3	RELATES F-D	4	2090	H J24		13
203	4	200		BW	LBL01,STND	LABEL INFO	8	2094	V J25 0A2 1		13
204	4	210		BCE	LBL02,DVC,1		8	2102	B J14 0?1 1		13
205	4	220		B	LBLLEX		4	2110	B J21		13
206	4	230	LBL02	MLZS	&1,1759		7	2114	Y M94 X59		13
207	4	240	LBLLEX	B	0	TO DIOCS	4	2121	B 000		14
208	4	250	LBL01	SW	STNDRD		4	2125	, X58		14
209	5	010		B	LBLLEX		4	2129	B J21		14
210	5	020	CHECKA	SBR	CHKEX&3		4	2133	H J59		14
211	5	030		BCE	CHKEX,FSTFN,		8	2137	B J56 0C4		14
212	5	040		SW	CHKA		4	2145	, 0A3		14
213	5	050		MLZS	&1,CHKALL		7	2149	Y M94 X58		14
214	5	060	CHKEX	B	0		4	2156	B 000		15
215	5	070	BLCKNG	SBR	BLKEX&3	SETS	4	2160	H J86		15
216	5	080		MLNS	BLOCK,BLKTST	BLOCKING SWITCH	7	2164	D 0A0 J87		15
217	5	090		BCE	BLKEX,BLKTST,	IF BLOCK OPTION	8	2171	B J83 J87		15
218	5	100		SW	BLOCK	WAS USED IN FD	4	2179	, 0A0		15
219	5	110	BLKEX	B	0		4	2183	B 000		15
220	5	120	BLKTST	DCW	#1		1	2187			15
221	5	130	WKAREA	SBR	WKAEX&3	SETS	4	2188	H K19		16
222	5	140		BW	WKA01,BLOCK	WORKAREA SWITCH	8	2192	V K20 0A0 1		16
223	5	150		BCE	WKA01,DVC,3	IF BLOCKED	8	2200	B K20 0?1 3		16
224	5	160		BW	WKA01,RESRV	OR READER	8	2208	V K20 0?3 1		16
225	5	170	WKAEX	B	0	OR EXTRA AREA	4	2216	B 000		16
226	5	180	WKA01	SW	WORKA		4	2220	, 0?7		16
227	5	190		B	WKAEX		4	2224	B K16		17
228	5	200	CONVNM	SBR	CNVEX&3	NUMERIC CONVERSIONS	4	2228	H K85		17
229	5	210		BW	CNV01,BLOCK	GO IF BLOCKED	8	2232	V K44 0A0 1		17
230	5	220		B	CNVEX		4	2240	B K82		17
231	5	230	CNV01	MLNS	BLKSIZ,CNVGT5		7	2244	D 0A4 L29		17
232	5	240		CHAIN	4					MACRO	
233				MLNS			1	2251	D	GEN	17
234				MLNS			1	2252	D	GEN	17
235				MLNS			1	2253	D	GEN	18
236				MLNS			1	2254	D	GEN	18
237	5	250	CNV02	BW	CNV04,BFRCD5	GO IF B.F. IN RECORDS	8	2255	V K86 0?8 1		18
238	6	010		BCE	FIX,CNVGT5,		8	2263	B M29 L29		18
239	6	020	CNV03	MLNS	CNVGT5,BLKSIZ		7	2271	D L29 0A4		18
240	6	030		CHAIN	4					MACRO	
241				MLNS			1	2278	D	GEN	18
242				MLNS			1	2279	D	GEN	18
243				MLNS			1	2280	D	GEN	19
244				MLNS			1	2281	D	GEN	19
245	6	040	CNVEX	B	0		4	2282	B 000		19
246	6	050	CNV04	BCE	CNV05,CNVGT5-3,		8	2286	B K98 L26		19
247	6	060		B	CNV07		4	2294	B L30		19

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
248	6	070	CNV05	BCE	CNV06,CNVGT5-4,1		8	2298	B L10 L25 1		19
249	6	080		B	CNV07		4	2306	B L30		19
250	6	090	CNV06	CW	BLOCK		4	2310	) 0A0		20
251	6	100		MLNS	@ @,CNVGT5-4		7	2314	D M95 L25		20
252	6	110		B	CNV03		4	2321	B K71		20
253	6	120	CNVGT5	DCW	@ @		5	2329			20
254	6	130	CNV07	MLC	&CNVGT5,X2		7	2330	M M98 094		20
255	6	140	CNV08	BCE	CNV09,0&X2,		8	2337	B L49 0!0		20
256	6	150		B	CNV10		4	2345	B L64		20
257	6	160	CNV09	MLNS	0&X2,0&X2		7	2349	D 0!0 0!0		21
258	6	170		SBR	X2		4	2356	H 094		21
259	6	180		B	CNV08		4	2360	B L37		21
260	6	190	CNV10	ZA	0&X2,CNVGT1		7	2364	? 0!0 M85		21
261	6	200		MLNS	RECSIZ,CNVGT2		7	2371	D 0?9 M88		21
262	6	210		CHAIN	2					MACRO	
263				MLNS			1	2378	D	GEN	21
264				MLNS			1	2379	D	GEN	21
265	6	220	CNV11	C	CNVGT1,&00000		7	2380	C M85 N03		22
266	6	230		BE	CNV12		5	2387	B M10 S		22
267	6	240		A	CNVGT2,CNVGT3		7	2392	A M88 M93		22
268	6	250		S	&1,CNVGT1		7	2399	S M94 M85		22
269	7	010		B	CNV11		4	2406	B L80		22
270	7	020	CNV12	MLNS	CNVGT3,CNVGT5		7	2410	D M93 L29		22
271	7	030		CHAIN	4					MACRO	
272				MLNS			1	2417	D	GEN	22
273				MLNS			1	2418	D	GEN	23
274				MLNS			1	2419	D	GEN	23
275				MLNS			1	2420	D	GEN	23
276	7	040		S	CNVGT3		4	2421	S M93		23
277	7	050		B	CNV03		4	2425	B K71		23
278	7	060	FIX	SBR	FIXEX&3		4	2429	H M65		23
279	7	070		MLC	&CNVGT5,X2		7	2433	M N06 094		23
280	7	080	FIX1	BCE	DECR,0&X2,		8	2440	B M66 0!0		24
281	7	090		ZA	0&X2,CNVGT5		7	2448	? 0!0 L29		24
282	7	100		MLZS	@ @,CNVGT5		7	2455	Y M95 L29		24
283	7	110	FIXEX	B	0		4	2462	B 000		24
284	7	120	DECR	MLNS	0&X2,0&X2		7	2466	D 0!0 0!0		24
285	7	130		SBR	X2		4	2473	H 094		24
286	7	140		B	FIX1		4	2477	B M40		25
287	7	150	CNVGT1	DCW	#5		5	2485			25
288	7	160	CNVGT2	DCW	#3		3	2488			25
289	7	170	CNVGT3	DCW	#5		5	2493			25
290	7	180		LTORG					2494		
				DCW	&1		1	2494		LIT	25
					@ @		1	2495		LIT	25
		254			&CNVGT5		3	2498	L29	ADCON	25
					&00000		5	2503		LIT	26
		279			&CNVGT5		3	2506	L29	ADCON	26
291	7	190		ORG	3798				3798		
292	7	200		DCW	@}@		1	3798			27

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
293	7	210		END	START				/ Y00 080		28

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CLEAR STORAGE 1      ,008015,019026,030,034041,045,053,0570571026      1
CLEAR STORAGE 2      L068112,102106,113/101099/I99,027A070028)027B0010270B0261,001/001113I0      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	010	000	JOB	1401 COBOL - E04						
102	1	020		CTL	631 11						
103	1	030	X1	EQU	89			0089			
104	1	040	X2	EQU	94			0094			
105	1	050	X3	EQU	99			0099			
106	1	060	SUPER	EQU	351			0351			
107	1	070	NEXTTE	EQU	1764			1764			
108	1	080	DEVICE	EQU	1&X3			0001			
109	1	090		ORG	1800				1800		
110	1	100	START	B	TSTORG	4	1800	B Y58			4
111	1	110	START2	B	TSTIOC	4	1804	B Z67			4
112	1	120	TSTFIL	B	GETFIL	4	1808	B P53			4
113	1	130		BCE	TAPES,DEVICE,1	8	1812	B Z87 0?1 1			4
114	1	140		BCE	DIAE07,DEVICE,	8	1820	B Y36 0?1			4
115	1	150		B	UNITRC	4	1828	B K79			4
116	1	160	RETURN	B	TSTALL	4	1832	B M05			4
117	1	170	DIAE07	MLZS	&1,10&X3	7	1836	Y Q85 0A0			5
118	1	180		B	RETURN	4	1843	B Y32			5
119	1	190	EOJ	B	TSTDVC	4	1847	B P90			5
120	1	200	EOJ1	B	SUPER	4	1851	B 351			5
121	1	210		DCW	@E05@	3	1857				5
122	1	220	TSTORG	MLNS	1750,TSTCH	7	1858	D X50 Z66			5
123	1	230		BCE	START2,TSTCH,	8	1865	B Y04 Z66			5
124	1	240		MLNS	1755,GT1	7	1873	D X55 Z65			6
125	1	250		CHAIN	5				MACRO		
126				MLNS		1	1880	D	GEN		6
127				MLNS		1	1881	D	GEN		6
128				MLNS		1	1882	D	GEN		6
129				MLNS		1	1883	D	GEN		6
130				MLNS		1	1884	D	GEN		6
131	2	010		SBR	X3,GT1	7	1885	H 099 Z65			6
132	2	020	LBL01	BCE	LBL02,0&X3,	8	1892	B Z19 0?0			7
133	2	030		S	&334,0&X3	7	1900	S Q88 0?0			7
134	2	040		BM	DIAE17,0&X3	8	1907	V Z34 0?0 K			7
135	2	050		B	START2	4	1915	B Y04			7
136	2	060	LBL02	MLNS	0&X3,0&X3	7	1919	D 0?0 0?0			7
137	2	070		SBR	X3	4	1926	H 099			7
138	2	080		B	LBL01	4	1930	B Y92			8
139	2	090	DIAE17	SW	1759	4	1934	, X59			8
140	2	100		MLNS	BLANKS,1755	7	1938	D Z59 X55			8
141	2	110		CHAIN	5				MACRO		
142				MLNS		1	1945	D	GEN		8
143				MLNS		1	1946	D	GEN		8
144				MLNS		1	1947	D	GEN		8
145				MLNS		1	1948	D	GEN		8
146				MLNS		1	1949	D	GEN		9
147	2	120		B	START2	4	1950	B Y04			9

E17- ORG ADDR LESS THAN 334

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	2	130	BLANKS	DCW	#6		6	1959			9
149	2	140	GT1	DCW	#6		6	1965			9
150	2	150	TSTCH	DCW	#1		1	1966			9
151	2	160	TSTIOC	C	1302, BLANKS-3		7	1967	C T02 Z56		9
152	2	170		BE	EOJ		5	1974	B Y47 S		9
153	2	180		SW	86		4	1979	, 086		10
154	2	190		B	TSTFIL		4	1983	B Y08		10
155	2	200	TAPES	BCE	TAP02, 16&X3,		8	1987	B !33 0A6		10
156	2	210		SBR	X2, 25&X3		7	1995	H 094 0B5		10
157	2	220	TAP01	BCE	HASBL, 0&X2,		8	2002	B !14 0!0		10
158	2	230		B	TAP02		4	2010	B !33		10
159	2	240	HASBL	MLC	@. @, 0&X2		7	2014	M Q89 0!0		11
160	2	250		SBR	X2		4	2021	H 094		11
161	3	010		SW	4&X3		4	2025	, 0?4		11
162	3	020		B	TAP01		4	2029	B !02		11
163	3	030	TAP02	BW	TAP03, 10&X3	GO IF BLOCKED	8	2033	V !45 0A0 1		11
164	3	040		B	RETURN		4	2041	B Y32		11
165	3	050	TAP03	MLNS	14&X3, BLKSIZ		7	2045	D 0A4 P27		11
166	3	060		CHAIN	4					MACRO	
167				MLNS			1	2052	D	GEN	12
168				MLNS			1	2053	D	GEN	12
169				MLNS			1	2054	D	GEN	12
170				MLNS			1	2055	D	GEN	12
171	3	070		MLC	BLKSIZ, GT2		7	2056	M P27 P32		12
172	3	080		MLNS	9&X3, RECSIZ		7	2063	D 0?9 M04		12
173	3	090		CHAIN	2					MACRO	
174				MLNS			1	2070	D	GEN	12
175				MLNS			1	2071	D	GEN	13
176	3	100		S	RECSIZ, GT2		7	2072	S M04 P32		13
177	3	110		BM	DIAE09, GT2		8	2079	V P38 P32 K		13
178	3	120		MLC	BLKSIZ, GT2		7	2087	M P27 P32		13
179	3	130		BCE	TAP04, GT2,		8	2094	B J17 P32		13
180	3	140		BCE	TAP04, GT2-4, 0		8	2102	B J17 P28 0		13
181	3	150	DIAE08	MLZS	&1, 6&X3		7	2110	Y Q85 0?6		14
182	3	160	TAP04	MLNS	1757, GT3-3	OBJECT	7	2117	D X57 P34		14
183	3	170		BCE	ADJUST, GT3-3,		8	2124	B J59 P34		14
184	3	180	TAP4A	BCE	TAP05, GT3-3, 2		8	2132	B J70 P34 2		14
185	3	190		BCE	TAP05, GT3-3, 6		8	2140	B J70 P34 6		14
186	3	200		MLC	@0@, GT3-4		7	2148	M Q90 P33		15
187	3	210		B	TAP06		4	2155	B J77		15
188	3	220	ADJUST	MLNS	@4@, GT3-3		7	2159	D Q91 P34		15
189	3	230		B	TAP4A		4	2166	B J32		15
190	3	240	TAP05	MLC	@1@, GT3-4		7	2170	M Q92 P33		15
191	3	250	TAP06	MLC	>2, X2		7	2177	M Q95 094		15
192	4	010	TAP6A	BCE	DECR, 0&X2,		8	2184	B K30 0!0		16
193	4	020		S	0&X2, GT3		7	2192	S 0!0 P37		16
194	4	030		BM	DIAE02, GT3		8	2199	V K57 P37 K		16
195	4	040	TAP07	S	GT3		4	2207	S P37		16
196	4	050		MLZS	@ @, GT3		7	2211	Y Q96 P37		16
197	4	060		BW	TAP08, 11&X3	VARIABLE	8	2218	V K45 0A1 1		17

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
198	4	070		B	RETURN		4	2226	B Y32		17
199	4	080	DECR	MLNS	0&X2,0&X2		7	2230	D 0!0 0!0		17
200	4	090		SBR	X2		4	2237	H 094		17
201	4	100		B	TAP6A		4	2241	B J84		17
202	4	110	TAP08	BW	DIAE06,8&X3		8	2245	V K68 0?8 1		17
203	4	120		B	RETURN		4	2253	B Y32		17
204	4	130	DIAE02	MLNS	&1,4&X3		7	2257	D Q85 0?4		18
205	4	140		B	TAP07		4	2264	B K07		18
206	4	150	DIAE06	MLNS	&1,5&X3		7	2268	D Q85 0?5		18
207	4	160		B	RETURN		4	2275	B Y32		18
208	4	170	UNITRC	BW	DIAE13,3&X3		8	2279	V L64 0?3 1		18
209	4	180	UNT01	BW	DIAE11,12&X3		8	2287	V L72 0A2 1		18
210	4	190	UNT02	BW	DIAE10,10&X3		8	2295	V L80 0A0 1		19
211	4	200	UNT02A	MLNS	9&X3,RECSIZ		7	2303	D 0?9 M04		19
212	4	210		CHAIN	2					MACRO	
213				MLNS			1	2310	D	GEN	19
214				MLNS			1	2311	D	GEN	19
215	4	220		BCE	PRINTR,DEVICE,2		8	2312	B L36 0?1 2		19
216	4	230		C	RECSIZ,@080@		7	2320	C M04 Q99		19
217	4	240		BU	DIAE05		5	2327	B L91 /		19
218	4	250		B	UNT03		4	2332	B L60		20
219	5	010	PRINTR	C	RECSIZ,@100@		7	2336	C M04 R02		20
220	5	020		BE	UNT03		5	2343	B L60 S		20
221	5	030		C	RECSIZ,@132@		7	2348	C M04 R05		20
222	5	040		BU	DIAE05		5	2355	B L91 /		20
223	5	050	UNT03	B	RETURN		4	2360	B Y32		20
224	5	060	DIAE13	SW	5&X3		4	2364	, 0?5		20
225	5	070		B	UNT01		4	2368	B K87		21
226	5	080	DIAE11	SW	6&X3		4	2372	, 0?6		21
227	5	090		B	UNT02		4	2376	B K95		21
228	5	100	DIAE10	MLZS	&1,4&X3		7	2380	Y Q85 0?4		21
229	5	110		B	UNT02A		4	2387	B L03		21
230	5	120	DIAE05	MLZS	&1,5&X3		7	2391	Y Q85 0?5		21
231	5	130		B	UNT03		4	2398	B L60		21
232	5	140	RECSIZ	DCW	#3		3	2404			22
233	5	150	TSTALL	MLNS	15&X3,TSTCH		7	2405	D 0A5 Z66		22
234	5	160		BCE	ALL01,TSTCH,		8	2412	B M35 Z66		22
235	5	170		BCE	ALL01,TSTCH,1		8	2420	B M35 Z66 1		22
236	5	180	DIAE14	MLNS	&1,6&X3		7	2428	D Q85 0?6		22
237	5	190	ALL01	BW	ALL01A,10&X3		8	2435	V M51 0A0 1		23
238	5	200		BW	DIAE03,11&X3		8	2443	V 095 0A1 1		23
239	5	210	ALL01A	BW	ALL03,1&X3		8	2451	V M66 0?1 1		23
240	5	220	DIAE12	MLZS	&1,7&X3		7	2459	Y Q85 0?7		23
241	5	230	ALL03	BW	ALL04,2&X3		8	2466	V M81 0?2 1		23
242	5	240	DIAE15	MLZS	&1,8&X3		7	2474	Y Q85 0?8		24
243	5	250	ALL04	BW	ALL05,1750		8	2481	V M93 X50 1		24
244	6	010		B	ALL06		4	2489	B N01		24
245	6	020	ALL05	BW	DIAE16,3&X3		8	2493	V P06 0?3 1		24
246	6	030	ALL06	BCE	TAPE,DEVICE,1		8	2501	B N48 0?1 1		24
247	6	040		BCE	READER,DEVICE,3		8	2509	B 073 0?1 3		25

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
248	6	050		BCE	PUNCH,DEVICE,4	8		2517	B 084 0?1	4	25
249	6	060		BCE	PRNTR,DEVICE,2	8		2525	B N37 0?1	2	25
250	6	070		B	ALL07	4		2533	B 091		25
251	6	080	PRNTR	A	&1,PRNTFL	7		2537	A Q85 P14		25
252	6	090		B	ALL07	4		2544	B 091		25
253	6	100	TAPE	MLNS	2&X3,TSTCH	7		2548	D 0?2 Z66		26
254	6	110		BCE	TAP1,TSTCH,1	8		2555	B 007 Z66	1	26
255	6	120		BCE	TAP2,TSTCH,2	8		2563	B 018 Z66	2	26
256	6	130		BCE	TAP3,TSTCH,3	8		2571	B 029 Z66	3	26
257	6	140		BCE	TAP4,TSTCH,4	8		2579	B 040 Z66	4	26
258	6	150		BCE	TAP5,TSTCH,5	8		2587	B 051 Z66	5	27
259	6	160		BCE	TAP6,TSTCH,6	8		2595	B 062 Z66	6	27
260	6	170		B	ALL07	4		2603	B 091		27
261	6	180	TAP1	A	&1,TAPE1	7		2607	A Q85 P15		27
262	6	190		B	ALL07	4		2614	B 091		27
263	6	200	TAP2	A	&1,TAPE2	7		2618	A Q85 P16		27
264	6	210		B	ALL07	4		2625	B 091		28
265	6	220	TAP3	A	&1,TAPE3	7		2629	A Q85 P17		28
266	6	230		B	ALL07	4		2636	B 091		28
267	6	240	TAP4	A	&1,TAPE4	7		2640	A Q85 P18		28
268	6	250		B	ALL07	4		2647	B 091		28
269	7	010	TAP5	A	&1,TAPE5	7		2651	A Q85 P19		28
270	7	020		B	ALL07	4		2658	B 091		28
271	7	030	TAP6	A	&1,TAPE6	7		2662	A Q85 P20		29
272	7	040		B	ALL07	4		2669	B 091		29
273	7	050	READER	A	&1,RDRFIL	7		2673	A Q85 P21		29
274	7	060		B	ALL07	4		2680	B 091		29
275	7	070	PUNCH	A	&1,PNCHFLL	7		2684	A Q85 P22		29
276	7	080	ALL07	B	TSTFIL	4		2691	B Y08		29
277	7	090	DIAE03	MLZS	&1,9&X3	7		2695	Y Q85 0?9		30
278	7	100		B	ALL01A	4		2702	B M51		30
279	7	110	DIAE16	SW	9&X3	4		2706	, 0?9		30
280	7	120		B	ALL06	4		2710	B N01		30
281	7	130	PRNTFL	DCW	@0@	1		2714			30
282	7	140	TAPE1	DCW	@0@	1		2715			30
283	7	150	TAPE2	DCW	@0@	1		2716			30
284	7	160	TAPE3	DCW	@0@	1		2717			31
285	7	170	TAPE4	DCW	@0@	1		2718			31
286	7	180	TAPE5	DCW	@0@	1		2719			31
287	7	190	TAPE6	DCW	@0@	1		2720			31
288	7	200	RDRFIL	DCW	@0@	1		2721			31
289	7	210	PNCHFLL	DCW	@0@	1		2722			31
290	7	220	BLKSIZ	DCW	#5	5		2727			31
291	7	230	GT2	DCW	#5	5		2732			32
292	7	240	GT3	DCW	@00000@	5		2737			32
293	7	250	DIAE09	SBR	DG09EX&3	4		2738	H P52		32
294	8	010		MLZS	&1,11&X3	7		2742	Y Q85 0A1		32
295	8	020	DG09EX	B	0	4		2749	B 000		32
296	8	030	GETFIL	SBR	GTFLEX&3	4		2753	H P86		32
297	8	040		MLC	NXTADR,X3	7		2757	M P89 099		32

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
298	8	050		C	X3,NEXTTE	7		2764	C 099 X64		33
299	8	060		BE	EOJ	5		2771	B Y47 S		33
300	8	070		SBR	NXTADR,50&X3	7		2776	H P89 0E0		33
301	8	080	GTFLEX	B	0	4		2783	B 000		33
302	8	090	NXTADR	DCW	@T02@	3		2789			33
303	8	100	TSTDVC	MLC	&PNCHFL,X2	7		2790	M R08 094		33
304	8	110	TSTD01	C	X2,&PRNTFL	7		2797	C 094 R11		34
305	8	120		BE	TSTD02	5		2804	B Q29 S		34
306	8	130		C	0&X2,@1@	7		2809	C 010 Q92		34
307	8	140		SAR	X2	4		2816	Q 094		34
308	8	150		BL	DIAE01	5		2820	B Q77 T		34
309	8	160		B	TSTD01	4		2825	B P97		34
310	8	170	TSTD02	BCE	TSTD03,PRNTFL,0	8		2829	B Q45 P14 0		35
311	8	180		BCE	DIAE01,1767,1	8		2837	B Q77 X67 1		35
312	8	190	TSTD03	BCE	TSTD04,RDRFIL,0	8		2845	B Q61 P21 0		35
313	8	200		BCE	DIAE01,1765,1	8		2853	B Q77 X65 1		35
314	8	210	TSTD04	BCE	EOJ1,PNCHFL,0	8		2861	B Y51 P22 0		36
315	8	220		BCE	EOJ1,1766,	8		2869	B Y51 X66		36
316	8	230	DIAE01	SW	1760	4		2877	, X60		36
317	8	240		B	EOJ1	4		2881	B Y51		36
318	8	250		LTORG					2885		
				DCW	&1	1		2885		LIT	36
					&334	3		2888		LIT	36
					@.@	1		2889		LIT	36
					@0@	1		2890		LIT	37
					@4@	1		2891		LIT	37
					@1@	1		2892		LIT	37
		191			>2	3		2895	P32	ADCON	37
					@ @	1		2896		LIT	37
					@080@	3		2899		LIT	37
					@100@	3		2902		LIT	37
					@132@	3		2905		LIT	38
		303			&PNCHFL	3		2908	P22	ADCON	38
		304			&PRNTFL	3		2911	P14	ADCON	38
319	9	010		ORG	3798				3798		
320	9	020		DCW	@}@	1		3798			39
321	9	030		END	START				/ Y00 080		40

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CLEAR STORAGE 1      ,008015,019026,030,034041,045,053,0570571026      1
CLEAR STORAGE 2      L068112,102106,113/101099/I99,027A070028)027B0010270B0261,001/001113I0      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	010	000	JOB	1401 COBOL - E05						
102	1	020		CTL	631 11						
103	1	030	X1	EQU	89			0089			
104	1	040	X2	EQU	94			0094			
105	1	050	X3	EQU	99			0099			
106	1	060	SUPER	EQU	351			0351			
107	1	070	IORW	EQU	343			0343			
108	1	080		ORG	1800				1800		
109	1	090	START	MLNS	1756,TSTCH	7		1800	D X56 Q64		4
110	1	100		BCE	OBJ,TSTCH,4	8		1807	B Y72 Q64 4		4
111	1	110		BCE	SRC8,TSTCH,8	8		1815	B Y43 Q64 8		4
112	1	120		BCE	SRC2,TSTCH,2	8		1823	B Y54 Q64 2		4
113	1	130		BCE	SRC6,TSTCH,6	8		1831	B Y65 Q64 6		4
114	1	140		B	OBJ	4		1839	B Y72		5
115	1	150	SRC8	MLNS	@4@,SOURCE	7		1843	D C75 N46		5
116	1	160		B	OBJ	4		1850	B Y72		5
117	1	170	SRC2	MLNS	@5@,SOURCE	7		1854	D C76 N46		5
118	1	180		B	OBJ	4		1861	B Y72		5
119	1	190	SRC6	MLNS	@6@,SOURCE	7		1865	D C77 N46		5
120	1	200	OBJ	MLNS	1757,TSTCH	7		1872	D X57 Q64		6
121	1	210		BCE	ASGN,TSTCH,6	8		1879	B Z51 Q64 6		6
122	1	220		BCE	OBJ4,TSTCH,4	8		1887	B Z15 Q64 4		6
123	1	230		BCE	OBJ8,TSTCH,8	8		1895	B Z33 Q64 8		6
124	1	240		BCE	OBJ2,TSTCH,2	8		1903	B Z44 Q64 2		6
125	1	250		B	ASGN	4		1911	B Z51		7
126	2	010	OBJ4	MLNS	@3@,OBJECT	7		1915	D C78 N47		7
127	2	011		MLC	@ @,MODADD	7		1922	M C79 N51		7
128	2	020		B	ASGN	4		1929	B Z51		7
129	2	030	OBJ8	MLNS	@4@,OBJECT	7		1933	D C75 N47		7
130	2	040		B	ASGN	4		1940	B Z51		7
131	2	050	OBJ2	MLNS	@5@,OBJECT	7		1944	D C76 N47		8
132	2	060	ASGN	BWZ	RLS,1750,2	8		1951	V Z66 X50 2		8
133	2	070		MLNS	@2@,ASSIGN	7		1959	D C80 N48		8
134	2	080	RLS	BW	EOCTL,1752	8		1966	V Z81 X52 1		8
135	2	090		MLNS	@1@,RELEAS	7		1974	D C81 N57		8
136	2	100	EOCTL	B	PLACES	4		1981	B Q65		9
137	2	110		DCW	CTLST	3		1987	N37		9
138	2	120		MLNS	1750,TSTCH	7		1988	D X50 Q64		9
139	2	130		BCE	NOORG,TSTCH,	8		1995	B !28 Q64		9
140	2	140		MLNS	1754,GT5	7		2003	D X54 N15		9
141	2	150		CHAIN	4					MACRO	
142				MLNS		1		2010	D	GEN	9
143				MLNS		1		2011	D	GEN	9
144				MLNS		1		2012	D	GEN	10
145				MLNS		1		2013	D	GEN	10
146	2	160		MLCWA	MASK,ORGVAL&14	7		2014	L N30 N84		10
147	2	170		MCE	GT5,ORGVAL&14	7		2021	E N15 N84		10

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	2	180	NOORG	BW	IOCSYS,86		8	2028	V !72 086	1	10
149	2	190		B	PLACES		4	2036	B Q65		10
150	2	200		DCW	ORGST		3	2042	N61		10
151	2	210		B	PLACES		4	2043	B Q65		11
152	2	220		DCW	EONOIO		3	2049	N88		11
153	2	230		B	SUPER		4	2050	B 351		11
154	2	240		DCW	@F01@		3	2056			11
155	2	250	DG01	SBR	DG01EX&3		4	2057	H !71		11
156	3	010		B	PLACES		4	2061	B Q65		11
157	3	020		DCW	DIAE01		3	2067	O87		11
158	3	030	DG01EX	B	0		4	2068	B 000		12
159	3	040	IOCSYS	B	PLACES	DIOCS	4	2072	B Q65		12
160	3	050		DCW	YESST		3	2078	N31		12
161	3	060		B	PLACES		4	2079	B Q65		12
162	3	070		DCW	DIOCST	DIOCSORG	3	2085	N97		12
163	3	080		B	PLACES		4	2086	B Q65		12
164	3	090		DCW	ORGVAL		3	2092	N70		12
165	3	100		BW	NOOVL,1750		8	2093	V J08 X50	1	13
166	3	110		B	PLACES		4	2101	B Q65		13
167	3	120		DCW	FEATST		3	2107	O63		13
168	3	130	NOOVL	B	PLACES		4	2108	B Q65		13
169	3	140		DCW	IODVST		3	2114	O21		13
170	3	150		BW	RDRYES,1754		8	2115	V J27 X54	1	13
171	3	160		B	PNCTST		4	2123	B J76		13
172	3	170	RDRYES	B	PLACES		4	2127	B Q65		14
173	3	180		DCW	READST		3	2133	O33		14
174	3	190		BWZ	COMMA,1753,B		8	2134	V J69 X53	B	14
175	3	200		BW	COMMA,1755		8	2142	V J69 X55	1	14
176	3	210		BW	COMMA,1753		8	2150	V J69 X53	1	14
177	3	220	EODVCS	B	PLACES		4	2158	B Q65		14
178	3	230		DCW	RELEAS&1		3	2164	N58		14
179	3	240		B	RESTOF		4	2165	B K79		15
180	3	250	COMMA	B	PLACE		4	2169	B B20		15
181	4	010		DCW	&@ ,@		3	2175	C84		15
182	4	020	PNCTST	BWZ	PTTST,1753,2		8	2176	V K18 X53	2	15
183	4	030		B	PLACES		4	2184	B Q65		15
184	4	040		DCW	PUNCHS		3	2190	O39		15
185	4	050		BW	COMMA2,1755		8	2191	V K11 X55	1	15
186	4	060		BW	COMMA2,1753		8	2199	V K11 X53	1	16
187	4	070		B	EODVCS		4	2207	B J58		16
188	4	080	COMMA2	B	PLACE		4	2211	B B20		16
189	4	090		DCW	&@ ,@		3	2217	C84		16
190	4	100	PTTST	BW	PTRYES,1755		8	2218	V K30 X55	1	16
191	4	110		B	TAPTST		4	2226	B K56		16
192	4	120	PTRYES	B	PLACES		4	2230	B Q65		16
193	4	130		DCW	PRINTS		3	2236	O48		17
194	4	140		BW	COMMA3,1753		8	2237	V K49 X53	1	17
195	4	150		B	EODVCS		4	2245	B J58		17
196	4	160	COMMA3	B	PLACE		4	2249	B B20		17
197	4	170		DCW	&@ ,@		3	2255	C84		17

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
198	4	180	TAPTST	BW	TAPYES,1753		8	2256	V K68 X53	1	17
199	4	190		B	EODVCS		4	2264	B J58		17
200	4	200	TAPYES	B	PLACES		4	2268	B Q65		18
201	4	210		DCW	TAPEST		3	2274	O57		18
202	4	220		B	EODVCS		4	2275	B J58		18
203	4	230	RESTOF	BW	GOON,1753		8	2279	V L16 X53	1	18
204	4	240	EOJ	BW	DG01,1760		8	2287	V !57 X60	1	18
205	4	250		B	PLACE		4	2295	B B20		18
206	5	010		DCW	&@.DE@		3	2301	C87		18
207	5	020		B	PLACE		4	2302	B B20		19
208	5	030		DCW	&@.EB@		3	2308	C90		19
209	5	040		B	SUPER		4	2309	B 351		19
210	5	050		DCW	@E06@		3	2315			19
211	5	060	GOON	BW	LBSL,1758		8	2316	V L28 X58	1	19
212	5	070		B	TPUSE		4	2324	B M01		19
213	5	080	LBSL	B	PLACES		4	2328	B Q65		19
214	5	090		DCW	LBLDST		3	2334	O93		20
215	5	100		BWZ	LBSL1,1759,2		8	2335	V L54 X59	2	20
216	5	110		B	PLACES		4	2343	B Q65		20
217	5	120		DCW	MIXDST		3	2349	P05		20
218	5	130		B	LBSL2		4	2350	B L61		20
219	5	140	LBSL1	B	PLACES		4	2354	B Q65		20
220	5	150		DCW	STNDST		3	2360	P11		20
221	5	160	LBSL2	BWZ	IDENT,1758,2		8	2361	V L87 X58	2	21
222	5	170		B	PLACES		4	2369	B Q65		21
223	5	180		DCW	CHECST		3	2375	P20		21
224	5	190		B	PLACES		4	2376	B Q65		21
225	5	200		DCW	RDLNST		3	2382	P29		21
226	5	210		B	LBSL3		4	2383	B L94		21
227	5	220	IDENT	B	PLACES		4	2387	B Q65		21
228	5	230		DCW	IDNTST		3	2393	P35		22
229	5	240	LBSL3	B	PLACES		4	2394	B Q65		22
230	5	250		DCW	RELEAS&1		3	2400	N58		22
231	6	010	TPUSE	BW	TPIN,1756		8	2401	V M13 X56	1	22
232	6	020		B	TP01		4	2409	B M39		22
233	6	030	TPIN	B	PLACES		4	2413	B Q65		22
234	6	040		DCW	RDERST		3	2419	P41		22
235	6	050		BW	RWDOP,1757		8	2420	V M58 X57	1	23
236	6	060		B	PLACES		4	2428	B Q65		23
237	6	070		DCW	TPUIST		3	2434	P62		23
238	6	080		B	RWDOP		4	2435	B M58		23
239	6	090	TP01	BW	TPOUT,1757		8	2439	V M51 X57	1	23
240	6	100		B	RWDOP		4	2447	B M58		23
241	6	110	TPOUT	B	PLACES		4	2451	B Q65		23
242	6	120		DCW	TPUOST		3	2457	P83		24
243	6	130	RWDOP	BWZ	NOLOCK,1756,2		8	2458	V M77 X56	2	24
244	6	140		B	PLACES		4	2466	B Q65		24
245	6	150		DCW	UNLDST		3	2472	Q04		24
246	6	160		B	ALTT		4	2473	B M92		24
247	6	170	NOLOCK	BWZ	ALTT,1757,2		8	2477	V M92 X57	2	24

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
248	6	180		B	PLACES		4	2485	B Q65		24
249	6	190		DCW	NORWST		3	2491	Q25		25
250	6	200	ALTT	BWZ	EOJ,1754,2		8	2492	V K87 X54 2		25
251	6	210		B	PLACES		4	2500	B Q65		25
252	6	220		DCW	ALTDST		3	2506	Q46		25
253	6	230		B	EOJ		4	2507	B K87		25
254	6	240	GT5	DCW	#5		5	2515			25
255	6	250	MASK	DCW	@&& && && && @		15	2530			26
256	7	010	YESST	EQU	*&1			2531			
257	7	020		DCW	*.DE.DI@		6	2536			26
258	7	030	CTLST	EQU	*&1			2537			
259	7	040		DCW	*.LCCTL.OP@		9	2545			26
260	7	050	SOURCE	DC	@3@		1	2546			26
261	7	060	OBJECT	DC	@6@		1	2547			26
262	7	070	ASSIGN	DC	@1@		1	2548			26
263	7	080	MODADD	DC	@ 1@		3	2551			26
264	7	090		DC	@ @		3	2554			26
265	7	100	RELEASE	DC	@ @		3	2557			27
266	7	110		DC	*.MC@		3	2560			27
267	7	120	ORGST	EQU	*&1			2561			
268	7	130		DCW	*.LCORG.OP@		9	2569			27
269	7	140	ORGVAL	EQU	*&1			2570			
270	7	150		DC	@ 0 0 3 3 3.MC@		18	2587			27
271	7	160	EONIO	EQU	*&1			2588			
272	7	170		DCW	*.DE.IS.EB@		9	2596			28
273	7	180	DIOCS	EQU	*&1			2597			
274	7	190		DCW	*.LCDIOCS.MCDIOCSORG.OP@		24	2620			28
275	7	200	IODVST	EQU	*&1			2621			
276	7	210		DCW	@IODEVICES.OP@		12	2632			29
277	7	220	READST	EQU	*&1			2633			
278	7	230		DCW	@READER@		6	2638			29
279	7	240	PUNCHS	EQU	*&1			2639			
280	7	250		DCW	@PUN C H@		9	2647			29
281	8	010	PRINTS	EQU	*&1			2648			
282	8	020		DCW	@PRINTE R@		9	2656			29
283	8	030	TAPEST	EQU	*&1			2657			
284	8	040		DCW	@TAP E@		6	2662			30
285	8	050	FEATST	EQU	*&1			2663			
286	8	060		DCW	@FEATURES.OPOVERLAP.MC@		24	2686			30
287	8	070	DIAE01	EQU	*&1			2687			
288	8	080		DCW	@***E0A@		6	2692			30
289	8	090	LBLDST	EQU	*&1			2693			
290	8	100		DCW	@LABELDEF.OP@		12	2704			31
291	8	110	MIXDST	EQU	*&1			2705			
292	8	120		DCW	@MIXED,@		6	2710			31
293	8	130	STNDST	EQU	*&1			2711			
294	8	140		DCW	@STANDARD,@		9	2719			31
295	8	150	CHECST	EQU	*&1			2720			
296	8	160		DCW	@CHE C K@		9	2728			31
297	8	170	RDLNST	EQU	*&1			2729			

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
298	8	180		DCW	@,RDLIN@		6	2734			32
299	8	190	IDNTST	EQU	*&1			2735			
300	8	200		DCW	@IDENT @		6	2740			32
301	8	210	RDERST	EQU	*&1			2741			
302	8	220		DCW	@READERROR.OPSCAN .MC@		21	2761			32
303	8	230	TPUIST	EQU	*&1			2762			
304	8	240		DCW	@TAPEUSE .OPINPUT .MC@		21	2782			33
305	8	250	TPUOST	EQU	*&1			2783			
306	9	010		DCW	@TAPEUSE .OPOUTPUT.MC@		21	2803			34
307	9	020	UNLDST	EQU	*&1			2804			
308	9	030		DCW	@RWDOPTION.OPUNLOAD.MC@		21	2824			35
309	9	040	NORWST	EQU	*&1			2825			
310	9	050		DCW	@RWDOPTION.OPNORWD .MC@		21	2845			36
311	9	060	ALTDST	EQU	*&1			2846			
312	9	070		DCW	@ALTDRIIVE .OPYES.MC@		18	2863			36
313	9	080	TSTCH	DCW	#1		1	2864			37
314	9	090	PLACES	SBR	X2		4	2865	H 094		37
315	9	100		SBR	PLCSEX&3,3&X2		7	2869	H R00 0!3		37
316	9	110		MLC	2&X2,X2		7	2876	M 0!2 094		37
317	9	120	PLCAA	MLC	2&X2,PLCGT		7	2883	M 0!2 R18		37
318	9	130		B	PLACE		4	2890	B B20		37
319	9	140		DCW	PLCGT		3	2896	R18		37
320	9	150	PLCSEX	BW	0,3&X2		8	2897	V 000 0!3 1		38
321	9	160		SBR	X2,3&X2		7	2905	H 094 0!3		38
322	9	170		B	PLCAA		4	2912	B Q83		38
323	9	180	PLCGT	DCW	#3		3	2918			38
324	9	190		DA	1X300			2919	3218		38
325	9	200	PLCA		1			2919		SBFLD	
326	9	210	PLCB		3			2921		SBFLD	
327	9	220	PLCMAX	EQU	*			3218			
328	9	230		DC	@} @		1	3219			39
329	9	240	PLACE	SBR	X1	SUBROUTINE	4	3220	H 089		39
330	9	250		SBR	PLC2&3,3&X1	PLACE ON TAPE 4	7	3224	H B94 0!3		39
331	10	010		MLC	2&X1,PLC1&3		7	3231	M 0!2 B41		39
332	10	020	PLC1	MLC	0,PLCSY		7	3238	M 000 C74		39
333	10	030	PLC1A	MLC	PLCSY,PLCB	PLACE SYMBOL	7	3245	M C74 R21		40
334	10	040		C	PLCSY,@.EB@	LOOK FOR .EB	7	3252	C C74 C90		40
335	10	050		BE	PLC3		5	3259	B B95 S		40
336	10	060		C	PLC1A&6,&PLCMAX	LOOK FOR FULL BUFFER	7	3264	C B51 C93		40
337	10	070		BE	PLC3		5	3271	B B95 S		40
338	10	080		MA	@003@,PLC1A&6					MACRO	
339				SW	PLC1A&6-2		4	3276	, B49	GEN	40
340				A	@003@,PLC1A&6		7	3280	A C96 B51	GEN	41
341				CW	PLC1A&6-2		4	3287	) B49	GEN	41
342	10	090	PLC2	B	0		4	3291	B 000		41
343	10	100	PLC3	SW	PLC5&1		4	3295	, C71		41
344	10	110		B	IORW		4	3299	B 343		41
345	10	120		RT	4,PLC5	LOOK FOR END OF TAPE	8	3303	M %U4 C70 R		41
346	10	130		DCW	PLC4		3	3313	C18		41
347	10	140		B	PLC3		4	3314	B B95		42

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
348	10	150	PLC4	BSP	4		5	3318	U %U4 B		42
349	10	160		SW	PLCMAX&1		4	3323	, B19		42
350	10	170		B	IORW		4	3327	B 343		42
351	10	180		WT	4,PLCA		8	3331	M %U4 R19 W		42
352	10	190		DCW	*&1		3	3341	C42		42
353	10	200		WTM	4		5	3342	U %U4 M		42
354	10	210		BSP	4		5	3347	U %U4 B		43
355	10	220		MLC	&PLCB,PLC1A&6		7	3352	M C99 B51		43
356	10	230		ZA	@0@,PLCMAX		7	3359	? D00 B18		43
357	10	240		B	PLC2		4	3366	B B91		43
358	10	250	PLC5	EQU	*&1			3370			
359	11	010		DCW	@ }@		2	3371			43
360	11	020	PLCSY	DCW	#3		3	3374			43
361	11	030		LTORG					3375		
				DCW	@4@		1	3375		LIT	43
					@5@		1	3376		LIT	44
					@6@		1	3377		LIT	44
					@3@		1	3378		LIT	44
					@ @		1	3379		LIT	44
					@2@		1	3380		LIT	44
					@1@		1	3381		LIT	44
					@ ,@		3	3384		LIT	44
					@.DE@		3	3387		LIT	45
					@.EB@		3	3390		LIT	45
		336			&PLCMAX		3	3393	B18	ADCON	45
					@003@		3	3396		LIT	45
		355			&PLCB		3	3399	R21	ADCON	45
					@0@		1	3400		LIT	45
362	11	040		ORG	3798				3798		
363	11	050		DCW	@}@		1	3798			46
364	11	060		END	START				/ Y00 080		47

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CLEAR STORAGE 1      ,008015,019026,030,034041,045,053,0570571026      1
CLEAR STORAGE 2      L068112,102106,113/101099/I99,027A070028)027B0010270B0261,001/001113I0      2
BOOTSTRAP            ,008015,022029,036040,047054,061068,072/061039      ,0010011040      3

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1401 COBOL - E06 PAGE 1

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
101	1	010	000	JOB	1401 COBOL - E06						
102	1	020		CTL	631 11						
103	1	030	X1	EQU	89			0089			
104	1	040	X2	EQU	94			0094			
105	1	050	X3	EQU	99			0099			
106	1	060	SUPER	EQU	351			0351			
107	1	070	IORW	EQU	343			0343			
108	1	080	NEXTTE	EQU	1764			1764			
109	1	090		ORG	1800				1800		
110	1	091		MLC	3798,1800	7	1800	M G98	Y00		4
111	1	092		MLNS	445,WT1&3	7	1807	D 445	Y21		4
112	1	093		B	IORW	4	1814	B 343			4
113	1	094	WT1	WTW	5,1750	8	1818	L %U5	X50 W		4
114	1	095		DCW	*&1	3	1828	Y29			4
115	1	100	START	B	PLACE	4	1829	B R84			4
116	1	110		DCW	&@.DA@	3	1835	A42			4
117	1	120	START1	B	GETFIL	4	1836	B N92			5
118	1	130		B	DAPLAC	4	1840	B Z74			5
119	1	140		B	START1	4	1844	B Y36			5
120	1	150	EOJ	B	PLACE	4	1848	B R84			5
121	1	160		DCW	&@.DE@	3	1854	A45			5
122	1	170		B	PLACE	4	1855	B R84			5
123	1	180		DCW	&@.EB@	3	1861	A48			5
124	1	190		MLNS	445,WT&3	7	1862	D 445	Y97		6
125	1	200		SBR	X2,1300	7	1869	H 094	T00		6
126	1	210	EOJ1	MLC	50&X2,SAVE	7	1876	M 0N0	A39		6
127	1	220		MLC	3798,50&X2	7	1883	M G98	0N0		6
128	1	230		B	IORW	4	1890	B 343			6
129	1	240	WT	WTW	5,0&X2	8	1894	L %U5	0!0 W		7
130	1	250		DCW	*&1	3	1904	Z05			7
131	2	010		MLCWA	SAVE,50&X2	7	1905	L A39	0N0		7
132	2	020		BCE	EOJ2,SAVE,	8	1912	B Z43	A39		7
133	2	030		SBR	X2,50&X2	7	1920	H 094	0N0		7
134	2	040		C	X2,@X50@	7	1927	C 094	A51		8
135	2	050		BE	EOJ2	5	1934	B Z43	S		8
136	2	060		B	EOJ1	4	1939	B Y76			8
137	2	070	EOJ2	MLNS	445,WTM&3	7	1943	D 445	Z60		8
138	2	080		MLNS	445,RWD&3	7	1950	D 445	Z65		8
139	2	090	WTM	WTM	5	5	1957	U %U5	M		8
140	2	100	RWD	RWD	5	5	1962	U %U5	R		9
141	2	110		B	SUPER	4	1967	B 351			9
142	2	120		DCW	@E07@	3	1973				9
143	2	130	DAPLAC	SBR	DAPEX&3	4	1974	H !89			9
144	2	140		BWZ	OUTPUT,2&X3,2	8	1978	V !38	0?2 2		9
145	2	150	INPUT	BW	INBLKD,10&X3	8	1986	V !14	0A0 1		9
146	2	160	INUNBL	BW	INURSV,3&X3	8	1994	V !06	0?3 1		10
147	2	170	INUNOA	B	DAPEX	4	2002	B !86			10

INPUT
UNBLOCKED
NO ALT. AREA

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD		
148	2	180	INURSV	B	PLC2DA	1		ALT. AREA	4	2006	B !90	10	
149	2	190		B	DAPEX				4	2010	B !86	10	
150	2	200	INBLKD	BW	INBRVS,3&X3	BLOCKED			8	2014	V !30 0?3 1	10	
151	2	210	INBNOA	B	PLC1DA	NO ALT. AREA			4	2022	B J05	10	
152	2	220		B	DAPEX				4	2026	B !86	10	
153	2	230	INBRVS	B	PLC2DA	1		ALT. AREA	4	2030	B !90	11	
154	2	240		B	DAPEX				4	2034	B !86	11	
155	2	250	OUTPUT	BW	OUTBLK,10&X3	OUTPUT			8	2038	V !66 0A0 1	11	
156	3	010	OTUNBL	BW	OTURSV,3&X3	UNBLOCKED			8	2046	V !58 0?3 1	11	
157	3	020	OTUNNO	B	DAPEX	NO ALT. AREA			4	2054	B !86	11	
158	3	030	OTURSV	B	PLC2DA	1		ALT. AREA	4	2058	B !90	11	
159	3	040		B	DAPEX				4	2062	B !86	11	
160	3	050	OUTBLK	BW	OTBRVS,3&X3	BLOCKED			8	2066	V !82 0?3 1	12	
161	3	060	OTBNOA	B	PLC1DA	NO ALT. AREA			4	2074	B J05	12	
162	3	070		B	DAPEX				4	2078	B !86	12	
163	3	080	OTBRVS	B	PLC2DA	1		ALT. AREA	4	2082	B !90	12	
164	3	090	DAPEX	B	0				4	2086	B 000	12	
165	3	100	PLC2DA	SBR	DAEX&3				4	2090	H L89	12	
166	3	110		MLC	@N@,DASW				7	2094	M A52 L56	12	
167	3	120		B	DA01				4	2101	B J16	13	
168	3	130	PLC1DA	SBR	DAEX&3				4	2105	H L89	13	
169	3	140		MLC	@B@,DASW				7	2109	M A53 L56	13	
170	3	150	DA01	MLC	@0@,RMTST				7	2116	M A54 M14	13	
171	3	152		BW	DA02,10&X3	GO IF BLOCKED			8	2123	V J35 0A0 1	13	
172	3	154		B	DA03				4	2131	B J58	13	
173	3	156	DA02	BW	DA03,11&X3	GO IF VARIABLE			8	2135	V J58 0A1 1	14	
174	3	158		BWZ	DA03,3&X3,2	GO IF INPUT			8	2143	V J58 0?3 2	14	
175	3	160		MLC	@1@,RMTST				7	2151	M A55 M14	14	
176	3	162	DA03	MLC	@00000@,DABF				7	2158	M A60 M29	14	
177	3	164		B	MVDANM				4	2165	B L90	14	
178	3	166		B	MVNM1				4	2169	B N32	14	
179	3	168		B	PLACES				4	2173	B O29	15	
180	3	170		DCW	DAST				3	2179	N62	15	
181	3	172		BW	DA04,10&X3	GO IF BLOCKED			8	2180	V K12 0A0 1	15	
182	3	174		A	&1,DABF				7	2188	A A61 M29	15	
183	3	176		MLNS	9&X3,DARSIZ				7	2195	D 0?9 M19	15	
184	3	178		CHAIN	2							MACRO	
185				MLNS					1	2202	D	GEN	15
186				MLNS					1	2203	D	GEN	15
187	3	180		MLC	@00@				4	2204	M A63		16
188	3	181		B	DA06				4	2208	B K97		16
189	3	182	DA04	MLNS	14&X3,DABSIZ				7	2212	D 0A4 M24		16
190	3	184		CHAIN	7							MACRO	
191				MLNS					1	2219	D	GEN	16
192				MLNS					1	2220	D	GEN	16
193				MLNS					1	2221	D	GEN	16
194				MLNS					1	2222	D	GEN	16
195				MLNS					1	2223	D	GEN	17
196				MLNS					1	2224	D	GEN	17
197				MLNS					1	2225	D	GEN	17

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
198	3	186		MLC	@00@		4	2226	M A63		17
199	3	187	DA05	A	&1,DABF		7	2230	A A61 M29		17
200	3	188		S	DARSIZ,DABSIZ		7	2237	S M19 M24		17
201	3	190		MLZS	@ @,DABSIZ		7	2244	Y A64 M24		17
202	3	192		C	DARSIZ,DABSIZ		7	2251	C M19 M24		18
203	3	194		BH	DA05		5	2258	B K30 U		18
204	3	195		BU	*&8		5	2263	B K75 /		18
205	3	196		A	&1,DABF		7	2268	A A61 M29		18
206	3	197		BCE	DA06,RMTST,0		8	2275	B K97 M14 0		18
207	3	198		S	&1,DARSIZ		7	2283	S A61 M19		18
208	3	200		MLZS	@ @,DARSIZ		7	2290	Y A64 M19		19
209	3	202	DA06	S	DAGT1		4	2297	S M34		19
210	3	204		MLC	DABF,DAGT1		7	2301	M M29 M34		19
211	3	206		B	PLCGT1		4	2308	B M74		19
212	3	207		B	PLACE		4	2312	B R84		19
213	3	208		DCW	&@ X@		3	2318	A67		19
214	3	210		S	DAGT1		4	2319	S M34		19
215	3	212		MLC	DARSIZ,DAGT1		7	2323	M M19 M34		20
216	3	214		B	PLCGT1		4	2330	B M74		20
217	3	216		BCE	DA07,RMTST,0		8	2334	B L49 M14 0		20
218	3	218		B	PLACES		4	2342	B O29		20
219	3	220		DCW	RMST		3	2348	M50		20
220	3	222	DA07	B	PLACES		4	2349	B O29		20
221	3	224		DCW	GMST		3	2355	M56		20
222	3	226	DASW	B	DAEX		4	2356	B L86		21
223	3	228		B	MVDANM		4	2360	B L90		21
224	3	230		B	MVNM2		4	2364	B N47		21
225	3	232		B	PLACES		4	2368	B O29		21
226	3	234		DCW	DAST		3	2374	N62		21
227	3	236		MLC	@B@,DASW		7	2375	M A53 L56		21
228	3	240		B	DA06		4	2382	B K97		21
229	3	250	DAEX	B	000		4	2386	B 000		22
230	4	010	MVDANM	SBR	MDNEX&3		4	2390	H M11		22
231	4	020		A	&1,GNID		7	2394	A A61 M13		22
232	4	030		MLC	GNID,GNAME		7	2401	M M13 N67		22
233	4	040	MDNEX	B	0		4	2408	B 000		22
234	4	050	GNID	DCW	@00@		2	2413			22
235	4	060	RMTST	DCW	@0@		1	2414			22
236	4	061	DARSIZ	DCW	#5		5	2419			23
237	4	062	DABSIZ	DCW	#5		5	2424			23
238	4	063	DABF	DCW	#5		5	2429			23
239	4	064	DAGT1	DCW	#5		5	2434			23
240	4	065	DAGT2	DCW	#15		15	2449			23
241	4	066	RMST	EQU	*&1			2450			
242	4	067		DCW	@ , |@		6	2455			24
243	4	068	GMST	EQU	*&1			2456			
244	4	069		DCW	@ , G.MC.OP1,1.MC@		18	2473			24
245	4	070	PLCGT1	SBR	PLGTEX&3		4	2474	H N31		24
246	4	080		MLCWA	MASK,DAGT2		7	2478	L N91 M49		24
247	4	090		MCE	DAGT1,DAGT2		7	2485	E M34 M49		25

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
248	4	100		MLC	&DAGT2-18,X1	7		2492	M A70 089		25
249	4	105	PLGT01	SBR	X1,3&X1	7		2499	H 089 0|3		25
250	4	110		BCE	PLGT01,3&X1,0	8		2506	B M99 0|3 0		25
251	4	115		SBR	PLGT02,1&X1	7		2514	H N27 0|1		25
252	4	120		B	PLACES	4		2521	B O29		26
253	4	125	PLGT02	DCW	*	3		2527	N27		26
254	4	130	PLGTEX	B	000	4		2528	B 000		26
255	4	140	MVNM1	SBR	MV1EX&3	4		2532	H N46		26
256	4	150		MLC	GNID,45&X3	7		2536	M M13 0D5		26
257	4	160	MV1EX	B	0	4		2543	B 000		26
258	4	170	MVNM2	SBR	MV2EX&3	4		2547	H N61		26
259	4	180		MLC	GNID,47&X3	7		2551	M M13 0D7		27
260	4	190	MV2EX	B	0	4		2558	B 000		27
261	4	200	DAST	EQU	*&1			2562			
262	4	205	GNAME	DCW	@ LI @	6		2567			27
263	4	210		DC	@.LCDA .OP@	9		2576			27
264	4	240	MASK	DCW	&&& && && && @	15		2591			28
265	4	250	GETFIL	SBR	GTFLEX&3	4		2592	H O25		28
266	5	010		MLC	NXTADR,X3	7		2596	M O28 099		28
267	5	020		C	X3,NEXTTE	7		2603	C 099 X64		28
268	5	030		BE	EOJ	5		2610	B Y48 S		28
269	5	040		SBR	NXTADR,50&X3	7		2615	H O28 0E0		29
270	5	050	GTFLEX	B	0	4		2622	B 000		29
271	5	060	NXTADR	DCW	@T02@	3		2628			29
272	5	070	PLACES	SBR	X2	4		2629	H 094		29
273	5	080		SBR	PLCSEX&3,3&X2	7		2633	H O64 0!3		29
274	5	090		MLC	2&X2,X2	7		2640	M 0!2 094		29
275	5	100	PLCAA	MLC	2&X2,PLCGT	7		2647	M 0!2 082		29
276	5	110		B	PLACE	4		2654	B R84		30
277	5	120		DCW	PLCGT	3		2660	O82		30
278	5	130	PLCSEX	BW	0,3&X2	8		2661	V 000 0!3 1		30
279	5	140		SBR	X2,3&X2	7		2669	H 094 0!3		30
280	5	150		B	PLCAA	4		2676	B O47		30
281	5	160	PLCGT	DCW	#3	3		2682			30
282	5	170		DA	1X300			2683	2982		30
283	5	180	PLCA		1			2683		SBFLD	
284	5	190	PLCB		3			2685		SBFLD	
285	5	200	PLCMAX	EQU	*			2982			
286	5	210		DC	@}@	1		2983			31
287	5	220	PLACE	SBR	X1	4		2984	H 089		31
288	5	230		SBR	PLC2&3,3&X1	7		2988	H ?58 0|3		31
289	5	240		MLC	2&X1,PLC1&3	7		2995	M 0|2 ?05		31
290	5	250	PLC1	MLC	0,PLCSY	7		3002	M 000 A38		31
291	6	010	PLC1A	MLC	PLCSY,PLCB	7		3009	M A38 O85		32
292	6	020		C	PLCSY,@.EB@	7		3016	C A38 A48		32
293	6	030		BE	PLC3	5		3023	B ?59 S		32
294	6	040		C	PLC1A&6,&PLCMAX	7		3028	C ?15 A73		32
295	6	050		BE	PLC3	5		3035	B ?59 S		32
296	6	060		MA	@003@,PLC1A&6					MACRO	
297				SW	PLC1A&6-2	4		3040	, ?13	GEN	32

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
298				A	@003@,PLC1A&6		7	3044	A A76 ?15	GEN	33
299				CW	PLC1A&6-2		4	3051	) ?13	GEN	33
300	6	070	PLC2	B	0		4	3055	B 000		33
301	6	080	PLC3	SW	PLC5&1		4	3059	, A35		33
302	6	090		B	IORW		4	3063	B 343		33
303	6	100		RT	4,PLC5		8	3067	M %U4 A34 R		33
304	6	110		DCW	PLC4	LOOK FOR END OF TAPE	3	3077	?82		33
305	6	120		B	PLC3		4	3078	B ?59		34
306	6	130	PLC4	BSP	4		5	3082	U %U4 B		34
307	6	140		SW	PLCMAX&1		4	3087	, R83		34
308	6	150		B	IORW		4	3091	B 343		34
309	6	160		WT	4,PLCA	WRITE BUFFER	8	3095	M %U4 O83 W		34
310	6	170		DCW	*&1		3	3105	A06		34
311	6	180		WTM	4	END TAPE	5	3106	U %U4 M		34
312	6	190		BSP	4		5	3111	U %U4 B		35
313	6	200		MLC	&PLCB,PLC1A&6		7	3116	M A79 ?15		35
314	6	210		ZA	@0@,PLCMAX		7	3123	? A54 R82		35
315	6	220		B	PLC2		4	3130	B ?55		35
316	6	230	PLC5	EQU	*&1			3134			
317	6	240		DCW	@ }@		2	3135			35
318	6	250	PLCSY	DCW	#3		3	3138			35
319	7	010	SAVE	DCW	#1		1	3139			35
320	7	020		LTORG					3140		
				DCW	@.DA@		3	3142		LIT	36
					@.DE@		3	3145		LIT	36
					@.EB@		3	3148		LIT	36
					@X50@		3	3151		LIT	36
					@N@		1	3152		LIT	36
					@B@		1	3153		LIT	36
					@0@		1	3154		LIT	36
					@1@		1	3155		LIT	37
		176			@00000@		5	3160		LIT	37
					&1		1	3161		LIT	37
					@00@		2	3163		LIT	37
					@ @		1	3164		LIT	37
					@ X@		3	3167		LIT	37
		248			&DAGT2-18		3	3170	M31	ADCON	37
		294			&PLCMAX		3	3173	R82	ADCON	38
					@003@		3	3176		LIT	38
		313			&PLCB		3	3179	O85	ADCON	38
321	7	030		ORG	3798				3798		
322	7	040		DCW	@}@		1	3798			39
323	7	050		END	START				/ Y29 080		40

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CLEAR STORAGE 1 ,008015,019026,030,034041,045,053,0570571026 1
CLEAR STORAGE 2 L068112,102106,113/101099/I99,027A070028)027B0010270B0261,001/001113I0 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	010	000	JOB	1401 COBOL - E07						
102	1	020		CTL	631 11						
103	1	030	X1	EQU	89			0089			
104	1	040	X2	EQU	94			0094			
105	1	050	X3	EQU	99			0099			
106	1	060	SUPER	EQU	351			0351			
107	1	070	IORW	EQU	343			0343			
108	1	080		ORG	1300				1300		
109	1	081		SBR	GTFLEX&3,INIT	7		1300	H A08	T22	4
110	1	082		SBR	RT&6,DIOCS	7		1307	H A00	F95	4
111	1	083		SW	DIOGM	4		1314	, G45		4
112	1	084		B	RTALT	4		1318	B ?83		4
113	1	085	INIT	SBR	RT&6,200	7		1322	H A00	200	4
114	1	090	START	B	PLACE	4		1329	B D64		4
115	1	100		DCW	&@.DT@	3		1335	F21		4
116	1	110	START0	B	GETFIL	4		1336	B ?65		5
117	1	120		B	DECLAR	4		1340	B T82		5
118	1	130	START1	B	DIAGNS	4		1344	B K53		5
119	1	140	START2	B	START0	4		1348	B T36		5
120	1	150	EOJ	B	PLACES	4		1352	B A09		5
121	1	160		DCW	ENDST	3		1358	N53		5
122	1	170		MLNS	445,RWDI&3	7		1359	D 445	T69	5
123	1	180	RWDI	RWD	5	5		1366	U %U5	R	6
124	1	190		CS	299	4		1371	/ 299		6
125	1	200		B	SUPER	4		1375	B 351		6
126	1	210		DCW	@F01@	3		1381			6
127	1	220	DECLAR	MLC	0&X3,FILENM	7		1382	M 0?0	N76	6
128	1	230		B	PLACES	4		1389	B A09		6
129	1	240		DCW	DTFST	3		1395	N62		6
130	1	250		BCE	TAPE,1&X3,1	8		1396	B V21	0?1 1	7
131	2	010		BCE	READ,1&X3,3	8		1404	B U31	0?1 3	7
132	2	020		BCE	PNCH,1&X3,4	8		1412	B U50	0?1 4	7
133	2	030	PRNT	B	PLACES	4		1420	B A09		7
134	2	040		DCW	PRNTST	3		1426	N92		7
135	2	050		B	ALL01	4		1427	B !87		7
136	2	060	READ	B	PLACES	4		1431	B A09		7
137	2	070		DCW	READST	3		1437	O04		8
138	2	080		BW	CARD,DIOCS	8		1438	V U57	F95 1	8
139	2	090		B	ALL01	4		1446	B !87		8
140	2	100	PNCH	B	PLACES	4		1450	B A09		8
141	2	110		DCW	PNCHST	3		1456	O28		8
142	2	120	CARD	MLNS	2&X3,POC	7		1457	D 0?2	O51	8
143	2	130		BCE	CARD2,POC,	8		1464	B U91	O51	8
144	2	140		BCE	ALL01,POC,0	8		1472	B !87	O51 0	9
145	2	150	CARD1	B	PLACES	4		1480	B A09		9
146	2	160		DCW	POCKST	3		1486	O37		9
147	2	161		B	ALL01	4		1487	B !87		9

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	2	162	CARD2	BCE	CARD3,1&X3,4		8	1491	B V10 0?1	4	9
149	2	163		MLC	@1@,POC		7	1499	M F22 051		9
150	2	164		B	CARD1		4	1506	B U80		9
151	2	165	CARD3	MLC	@4@,POC		7	1510	M F23 051		10
152	2	166		B	CARD1		4	1517	B U80		10
153	2	170	TAPE	BWZ	OUTPUT,2&X3,2		8	1521	V V40 0?2	2	10
154	2	180		B	PLACES		4	1529	B A09		10
155	2	190		DCW	TPINST		3	1535	O55		10
156	2	200		B	TAPE01		4	1536	B V47		10
157	2	210	OUTPUT	B	PLACES		4	1540	B A09		10
158	2	220		DCW	TPOTST		3	1546	O88		11
159	2	230	TAPE01	MLNS	2&X3,UNIT		7	1547	D 0?2 P20		11
160	2	240		B	PLACES		4	1554	B A09		11
161	2	250		DCW	CHNDST		3	1560	P06		11
162	3	010		MLNS	3&X3,ALT		7	1561	D 0?3 P38		11
163	3	020		BCE	RWD,ALT,		8	1568	B V83 P38		11
164	3	030		B	PLACES		4	1576	B A09		11
165	3	040		DCW	ALTDST		3	1582	P24		12
166	3	050	RWD	BW	LOCK,14&X3		8	1583	V W03 0A4	1	12
167	3	060		BW	NORW,15&X3		8	1591	V W14 0A5	1	12
168	3	070		B	RECFRM		4	1599	B W21		12
169	3	080	LOCK	B	PLACES		4	1603	B A09		12
170	3	090		DCW	UNLDST		3	1609	P42		12
171	3	100		B	RECFRM		4	1610	B W21		12
172	3	110	NORW	B	PLACES		4	1614	B A09		13
173	3	120		DCW	NORWST		3	1620	P60		13
174	3	130	RECFRM	BW	BLOCKD,10&X3		8	1621	V W33 0A0	1	13
175	3	140		B	TYPLBL		4	1629	B W81		13
176	3	150	BLOCKD	B	PLACES		4	1633	B A09		13
177	3	160		DCW	RCFBLK		3	1639	P78		13
178	3	170		BW	VARIABLE,11&X3		8	1640	V W52 0A1	1	13
179	3	180		B	V01		4	1648	B W59		14
180	3	190	VARIBL	B	PLACES		4	1652	B A09		14
181	3	200		DCW	VRBLST		3	1658	P99		14
182	3	210	V01	B	PLACES		4	1659	B A09		14
183	3	220		DCW	BLKSZS		3	1665	Q08		14
184	3	230		MLNS	14&X3,FIVER		7	1666	D 0A4 R43		14
185	3	231		CHAIN	4						
186				MLNS			1	1673	D	MACRO GEN	14
187				MLNS			1	1674	D	GEN	15
188				MLNS			1	1675	D	GEN	15
189				MLNS			1	1676	D	GEN	15
190	3	240		B	DOFIVE		4	1677	B Y72		15
191	4	020	TYPLBL	BW	STANDD,12&X3		8	1681	V W93 0A2	1	15
192	4	030		B	ALLFLS		4	1689	B !59		15
193	4	040	STANDD	BWZ	STND1,2&X3,B		8	1693	V X05 0?2	B	15
194	4	044		SW	TYPLST&24		4	1701	, Q65		16
195	4	045	STND1	B	PLACES		4	1705	B A09		16
196	4	046		DCW	TYPLST		3	1711	Q41		16
197	4	050		CW	TYPLST&24		4	1712	) Q65		16

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
198	4	060		BW	ALL,13&X3		8	1716	V X43 0A3	1	16
199	4	065		BWZ	HDR,2&X3,2		8	1724	V Y12 0?2	2	16
200	4	070		B	PLACES		4	1732	B A09		16
201	4	080		DCW	IDNTST		3	1738	Q80		17
202	4	090		B	HDR		4	1739	B Y12		17
203	4	100	ALL	BWZ	ALL1,2&X3,2		8	1743	V X58 0?2	2	17
204	4	101		B	PLACES		4	1751	B A09		17
205	4	110		DCW	ALLST		3	1757	Q89		17
206	4	120	ALL1	MLNS	41&X3,RSQ		7	1758	D 0D1 R09		17
207	4	130		CHAIN	2						
208				MLNS			1	1765	D	MACRO	17
209				MLNS			1	1766	D	GEN	18
210	4	140		BCE	SNM,RSQ-2,		8	1767	B X94 R07		18
211	4	150		C	RSQ,@001@		7	1775	C R09 F26		18
212	4	160		BE	SNM		5	1782	B X94 S		18
213	4	170		B	PLACES		4	1787	B A09		18
214	4	180		DCW	RLSQST		3	1793	Q95		18
215	4	190	SNM	B	PLACES		4	1794	B A09		18
216	4	200		DCW	SRLNST		3	1800	R13		19
217	4	201		MLC	38&X3,FIVER		7	1801	M 0C8 R43		19
218	4	202		B	DOFIVE		4	1808	B Y72		19
219	4	240	HDR	BCE	NOID,16&X3,		8	1812	B Y31 0A6		19
220	4	250		MLC	25&X3,TEMP		7	1820	M 0B5 R37		19
221	5	010		B	HDR01		4	1827	B Y42		19
222	5	020	NOID	MLC	@. @,TEMP		7	1831	M F27 R37		20
223	5	030		MLC	TEMP		4	1838	M R37		20
224	5	040	HDR01	B	PLACES		4	1842	B A09		20
225	5	050		DCW	HDRST		3	1848	R45		20
226	5	060		MLC	<EMP,X2		7	1849	M F30 094		20
227	5	070		B	PTCHSY		4	1856	B Y98		20
228	5	080		BW	HDR04,1&X3		8	1860	V Z45 0?1	1	20
229	5	090		B	HDR05		4	1868	B Z90		21
230	5	091	DOFIVE	SBR	DOFEX&3		4	1872	H Y97		21
231	5	092		MLC	&FIVER-5,X2		7	1876	M F33 094		21
232	5	093		B	PTCHSY		4	1883	B Y98		21
233	5	094		B	PLACE		4	1887	B D64		21
234	5	095		DCW	LTEMP		3	1893	R27		21
235	5	096	DOFEX	B	000		4	1894	B 000		21
236	5	100	PTCHSY	SBR	PTCS01&3		4	1898	H Z05		22
237	5	110	PTCS01	BCE	0,1&X2,|		8	1902	B 000 011	|	22
238	5	120		MLNS	1&X2,CHXX		7	1910	D 0!1 Z44		22
239	5	130		MLZS	1&X2,CHXX		7	1917	Y 0!1 Z44		22
240	5	140		B	PLACE		4	1924	B D64		22
241	5	150		DCW	CHXX		3	1930	Z44		22
242	5	160		SBR	X2,1&X2		7	1931	H 094 0!1		23
243	5	170		B	PTCS01		4	1938	B Z02		23
244	5	180	CHXX	DCW	#3		3	1944			23
245	5	190	HDR04	BWZ	HDR05,3&X3,B		8	1945	V Z90 0?3	B	23
246	5	200		MLNS	30&X3,CDATE		7	1953	D 0C0 ?57		23
247	5	210		CHAIN	4					MACRO	

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
248				MLNS			1	1960	D	GEN	23
249				MLNS			1	1961	D	GEN	23
250				MLNS			1	1962	D	GEN	24
251				MLNS			1	1963	D	GEN	24
252	5	220		BCE	HDR05,CDATE-4,		8	1964	B Z90 ?53		24
253	5	230		B	PLACE		4	1972	B D64		24
254	5	240		DCW	COMMA		3	1978	R56		24
255	5	250		MLC	&LCDAT,X2		7	1979	M F36 094		24
256	6	010		B	PTCHSY		4	1986	B Y98		24
257	6	020	HDR05	BWZ	HDR06,3&X3,B		8	1990	V !21 0?3 B		25
258	6	030		BW	HDR06,13&X3		8	1998	V !21 0A3 1		25
259	6	040		B	REST		4	2006	B !52		25
260	6	050	HDR55	MLC	@999@,RCYC		7	2010	M F39 R59		25
261	6	060		B	HDR66		4	2017	B !38		25
262	6	070	HDR06	BCE	HDR55,31&X3,		8	2021	B !10 0C1		25
263	6	080		MLNS	33&X3,RCYC		7	2029	D 0C3 R59		26
264	6	090		CHAIN	2					MACRO	
265				MLNS			1	2036	D	GEN	26
266				MLNS			1	2037	D	GEN	26
267	6	100	HDR66	B	PLACE		4	2038	B D64		26
268	6	110		DCW	COMMA		3	2044	R56		26
269	6	120		B	PLACE		4	2045	B D64		26
270	6	130		DCW	RCYC		3	2051	R59		26
271	6	140	REST	B	PLACE		4	2052	B D64		27
272	6	150		DCW	MACSEP		3	2058	O54		27
273	6	160	ALLFLS	MLNS	9&X3,RCS3-3		7	2059	D 0?9 Q37		27
274	6	170		CHAIN	2					MACRO	
275				MLNS			1	2066	D	GEN	27
276				MLNS			1	2067	D	GEN	27
277	6	180		B	PLACES		4	2068	B A09		27
278	6	190		DCW	RCSZST		3	2074	Q23		27
279	6	200		BCE	ALL01,46&X3,		8	2075	B !87 0D6		28
280	6	210		B	ALL02		4	2083	B J22		28
281	6	220	ALL01	BCE	NOIOA,44&X3,		8	2087	B J61 0D4		28
282	6	230		MLNS	45&X3,DA1		7	2095	D 0D5 R77		28
283	6	240		MLNS			1	2102	D		28
284	6	250		MLZS	45&X3,DA1		7	2103	Y 0D5 R77		28
285	7	010		MLZS			1	2110	Y		28
286	7	020		B	PLACES		4	2111	B A09		29
287	7	030		DCW	DA1ST		3	2117	R60		29
288	7	040		B	NOIOA		4	2118	B J61		29
289	7	050	ALL02	MLNS	45&X3,DA21		7	2122	D 0D5 R98		29
290	7	060		MLNS			1	2129	D		29
291	7	070		MLZS	45&X3,DA21		7	2130	Y 0D5 R98		29
292	7	080		MLZS			1	2137	Y		29
293	7	090		MLNS	47&X3,DA22		7	2138	D 0D7 ?07		30
294	7	100		MLNS			1	2145	D		30
295	7	110		MLZS	47&X3,DA22		7	2146	Y 0D7 ?07		30
296	7	120		MLZS			1	2153	Y		30
297	7	130		B	PLACES		4	2154	B A09		30

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
298	7	140		DCW	DA2ST		3	2160	R81		30
299	7	150	NOIOA	BW	NORN,10&X3		8	2161	V J99 0A0	1	30
300	7	160		BW	NORN,3&X3		8	2169	V J99 0?3	1	31
301	7	170		BCE	NORN,1&X3,3		8	2177	B J99 0?1	3	31
302	7	180		MLC	0&X3,RNM		7	2185	M 0?0 ?28		31
303	7	190		B	PLACES		4	2192	B A09		31
304	7	200		DCW	RNMST		3	2198	?11		31
305	7	210	NORN	BWZ	NOWKA,2&X3,2		8	2199	V K49 0?2	2	31
306	7	220		BW	YESWK,10&X3		8	2207	V K35 0A0	1	32
307	7	230		BW	YESWK,3&X3		8	2215	V K35 0?3	1	32
308	7	240		BCE	YESWK,1&X3,3		8	2223	B K35 0?1	3	32
309	7	250		B	NOWKA		4	2231	B K49		32
310	8	010	YESWK	MLC	0&X3,WKNM		7	2235	M 0?0 ?49		32
311	8	020		B	PLACES		4	2242	B A09		32
312	8	030		DCW	WKARST		3	2248	?32		33
313	8	040	NOWKA	B	START1		4	2249	B T44		33
314	8	050	DIAGNS	MLNS	4&X3,DGTST		7	2253	D 0?4 N37		33
315	8	060		BCE	TST03,DGTST,		8	2260	B K79 N37		33
316	8	070		MLC	@E0B@,DIAG		7	2268	M F42 ?64		33
317	8	080		B	PLACDG		4	2275	B N38		33
318	8	090	TST03	BWZ	TST04,9&X3,2		8	2279	V K98 0?9	2	34
319	8	100		MLC	@E0C@,DIAG		7	2287	M F45 ?64		34
320	8	110		B	PLACDG		4	2294	B N38		34
321	8	120	TST04	BW	DO04,4&X3		8	2298	V L10 0?4	1	34
322	8	130		B	TST05		4	2306	B L21		34
323	8	140	DO04	MLC	@E04@,DIAG		7	2310	M F48 ?64		34
324	8	150		B	PLACDG		4	2317	B N38		35
325	8	160	TST05	BWZ	TST06,5&X3,2		8	2321	V L40 0?5	2	35
326	8	170		MLC	@E0E@,DIAG		7	2329	M F51 ?64		35
327	8	180		B	PLACDG		4	2336	B N38		35
328	8	190	TST06	MLNS	5&X3,DGTST		7	2340	D 0?5 N37		35
329	8	200		BCE	TST07,DGTST,		8	2347	B L66 N37		35
330	8	210		MLC	@E0F@,DIAG		7	2355	M F54 ?64		36
331	8	220		B	PLACDG		4	2362	B N38		36
332	8	230	TST07	BWZ	TST08,10&X3,2		8	2366	V L85 0A0	2	36
333	8	240		MLC	@E0G@,DIAG		7	2374	M F57 ?64		36
334	8	250		B	PLACDG		4	2381	B N38		36
335	9	010	TST08	BWZ	TST09,6&X3,2		8	2385	V M04 0?6	2	36
336	9	020		MLC	@E0H@,DIAG		7	2393	M F60 ?64		37
337	9	030		B	PLACDG		4	2400	B N38		37
338	9	040	TST09	BWZ	TST10,11&X3,2		8	2404	V M23 0A1	2	37
339	9	050		MLC	@E0I@,DIAG		7	2412	M F63 ?64		37
340	9	060		B	PLACDG		4	2419	B N38		37
341	9	070	TST10	BWZ	TST11,4&X3,2		8	2423	V M42 0?4	2	37
342	9	080		MLC	@E1?@,DIAG		7	2431	M F66 ?64		38
343	9	090		B	PLACDG		4	2438	B N38		38
344	9	100	TST11	BW	DO11,6&X3		8	2442	V M54 0?6	1	38
345	9	110		B	TST12		4	2450	B M65		38
346	9	120	DO11	MLC	@E1A@,DIAG		7	2454	M F69 ?64		38
347	9	130		B	PLACDG		4	2461	B N38		38

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
348	9	140	TST12	BWZ	TST13,7&X3,2		8	2465	V M84 0?7 2		39
349	9	150		MLC	@E1B@,DIAG		7	2473	M F72 ?64		39
350	9	160		B	PLACDG		4	2480	B N38		39
351	9	170	TST13	BW	DO13,5&X3		8	2484	V M96 0?5 1		39
352	9	180		B	TST14		4	2492	B N07		39
353	9	190	DO13	MLC	@E1C@,DIAG		7	2496	M F75 ?64		39
354	9	200		B	PLACDG		4	2503	B N38		40
355	9	210	TST14	MLNS	6&X3,DGTST		7	2507	D 0?6 N37		40
356	9	220		BCE	TST15,DGTST,		8	2514	B N33 N37		40
357	9	230		MLC	@E1D@,DIAG		7	2522	M F78 ?64		40
358	9	240		B	PLACDG		4	2529	B N38		40
359	9	250	TST15	B	START2		4	2533	B T48		40
360	10	010	DGTST	DCW	#1		1	2537			40
361	10	020	PLACDG	SBR	PLCGEX&3		4	2538	H N52		41
362	10	030		B	PLACES		4	2542	B A09		41
363	10	040		DCW	DGST		3	2548	?59		41
364	10	050	PLCGEX	B	0		4	2549	B 000		41
365	10	060	ENDST	EQU	*&1			2553			
366	10	070		DCW	@.DE.IE.EB@		9	2561			41
367	10	080	DTFST	EQU	*&1			2562			
368	10	090	FILENM	DCW	@.LCDTF.OP I @		15	2576			41
369	10	100		DC	@.MCFILETYPE .OP@		15	2591			42
370	10	110	PRNTST	EQU	*&1			2592			
371	10	120		DCW	@PRINTER .MC@		12	2603			42
372	10	130	READST	EQU	*&1			2604			
373	10	140		DCW	@READER.MCCOBOL .OPYES.MC@		24	2627			43
374	10	150	PNCHST	EQU	*&1			2628			
375	10	160		DCW	@PUNCH .MC@		9	2636			43
376	10	170	POCKST	EQU	*&1			2637			
377	10	180	POC	DCW	@CARDPOC .OP @		15	2651			44
378	10	190	MACSEP	DC	@.MC@		3	2654			44
379	10	200	TPINST	EQU	*&1			2655			
380	10	210		DCW	@TAP E ,INPUT .MCCOBOL .OPYES.MC@		33	2687			45
381	10	220	TPOTST	EQU	*&1			2688			
382	10	230		DCW	@TAP E ,OUTPUT.MC@		18	2705			46
383	10	240	CHNDST	EQU	*&1			2706			
384	10	250	UNIT	DCW	@CHANDRIVE.OP @		15	2720			46
385	11	010		DC	@.MC@		3	2723			46
386	11	020	ALTDST	EQU	*&1			2724			
387	11	030	ALT	DCW	@ALTTAPE .OP @		15	2738			47
388	11	040		DC	@.MC@		3	2741			47
389	11	050	UNLDST	EQU	*&1			2742			
390	11	060		DCW	@REWIND.OPUNLOAD.MC@		18	2759			47
391	11	070	NORWST	EQU	*&1			2760			
392	11	080		DCW	@REWIND.OPNORWD .MC@		18	2777			48
393	11	090	RCFBLK	EQU	*&1			2778			
394	11	100		DCW	@RECFORM .OPBLOCKE D@		21	2798			48
395	11	110	VRBLST	EQU	*&1			2799			
396	11	120		DCW	@,VARIABLE@		9	2807			49
397	11	130	BLKSZS	EQU	*&1			2808			

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
398	11	140		DCW	@.MCBLOCKSIZE.OP@		15	2822			49
399	11	180	RCSZST	EQU	*&1			2823			
400	11	190	RCS3	DCW	@SIZEREC .OP .MC@		18	2840			50
401	11	200	TYPLST	EQU	*&1			2841			
402	11	210		DCW	@TYPELABEL.OPSTANDARD .MCCHECKLABEL .OP@		39	2879			51
403	11	220	IDNTST	EQU	*&1			2880			
404	11	230		DCW	@IDENT .MC@		9	2888			52
405	11	240	ALLST	EQU	*&1			2889			
406	11	250		DCW	@ALL.MC@		6	2894			52
407	12	010	RLSQST	EQU	*&1			2895			
408	12	020	RSQ	DCW	@REELSEQ .OP @		15	2909			52
409	12	030		DC	@.MC@		3	2912			52
410	12	040	SRLNST	EQU	*&1			2913			
411	12	050		DCW	@SERIALNUM.OP@		12	2924			53
412	12	060	LTEMP	DCW	@.MC@		3	2927			53
413	12	070	TEMP	DCW	#10		10	2937			53
414	12	080		DC	@|@		1	2938			53
415	12	081	FIVER	DCW	#5		5	2943			53
416	12	082		DC	@|@		1	2944			53
417	12	090	HDRST	EQU	*&1			2945			
418	12	100		DCW	@HEADER.OP@		9	2953			54
419	12	110	COMMA	DCW	@ , @		3	2956			54
420	12	120	RCYC	DCW	#3		3	2959			54
421	12	130	DA1ST	EQU	*&1			2960			
422	12	140	DA1	DCW	@IOAREAS .OP LI @		18	2977			54
423	12	150		DC	@.MC@		3	2980			54
424	12	160	DA2ST	EQU	*&1			2981			
425	12	170	DA21	DCW	@IOAREAS .OP LI @		18	2998			55
426	12	180	DA22	DC	@ , LI @		9	3007			55
427	12	190		DC	@.MC@		3	3010			55
428	12	200	RNMST	EQU	*&1			3011			
429	12	210	RNM	DCW	@IOAREAS .OP LI @		18	3028			56
430	12	220		DC	@.MC@		3	3031			56
431	12	230	WKARST	EQU	*&1			3032			
432	12	240	WKNM	DCW	@WORKAREA .OP L @		18	3049			56
433	12	250	LCDAT	DC	@.MC@		3	3052			57
434	13	010	CDATE	DCW	#5		5	3057			57
435	13	020		DC	@|@		1	3058			57
436	13	030	DGST	EQU	*&1			3059			
437	13	040	DIAG	DCW	@*** @		6	3064			57
438	13	050	GETFIL	SBR	GTFLEX&3		4	3065	H A08		57
439	13	060		MLC	3798,250		7	3069	M G98 250		57
440	13	070		MLC	@202@,X3		7	3076	M F81 099		58
441	13	080	RTALT	MLNS	445,RT&3		7	3083	D 445 ?97		58
442	13	090		B	IORW		4	3090	B 343		58
443	13	100	RT	RTW	5,200		8	3094	L %U5 200 R		58
444	13	110		DCW	EOJ		3	3104	T52		58
445	13	120	GTFLEX	B	0		4	3105	B 000		58
446	13	130	PLACES	SBR	X2		4	3109	H 094		58
447	13	140		SBR	PLCSEX&3,3&X2		7	3113	H A44 0!3		59

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
448	13	150		MLC	2&X2,X2		7	3120	M 0!2 094		59
449	13	160	PLCAA	MLC	2&X2,PLCGT		7	3127	M 0!2 A62		59
450	13	170		B	PLACE		4	3134	B D64		59
451	13	180		DCW	PLCGT		3	3140	A62		59
452	13	190	PLCSEX	BW	0,3&X2		8	3141	V 000 0!3 1		59
453	13	200		SBR	X2,3&X2		7	3149	H 094 0!3		60
454	13	210		B	PLCAA		4	3156	B A27		60
455	13	220	PLCGT	DCW	#3		3	3162			60
456	13	230		DA	1X300			3163	3462		60
457	13	240	PLCA		1			3163		SBFLD	
458	13	250	PLCB		3			3165		SBFLD	
459	14	010	PLCMAX	EQU	*			3462			
460	14	020		DC	@} @		1	3463			61
461	14	030	PLACE	SBR	X1	SUBROUTINE	4	3464	H 089		61
462	14	040		SBR	PLC2&3,3&X1	PLACE ON TAPE 4	7	3468	H E38 0!3		61
463	14	050		MLC	2&X1,PLC1&3		7	3475	M 0!2 D85		61
464	14	060	PLC1	MLC	0,PLCSY		7	3482	M 000 F18		61
465	14	070	PLC1A	MLC	PLCSY,PLCB	PLACE SYMBOL	7	3489	M F18 A65		62
466	14	080		C	PLCSY,@.EB@	LOOK FOR .EB	7	3496	C F18 F84		62
467	14	090		BE	PLC3		5	3503	B E39 S		62
468	14	100		C	PLC1A&6,&PLCMAX	LOOK FOR FULL BUFFER	7	3508	C D95 F87		62
469	14	110		BE	PLC3		5	3515	B E39 S		62
470	14	120		MA	@003@,PLC1A&6					MACRO	
471				SW	PLC1A&6-2		4	3520	, D93	GEN	62
472				A	@003@,PLC1A&6		7	3524	A F90 D95	GEN	63
473				CW	PLC1A&6-2		4	3531	) D93	GEN	63
474	14	130	PLC2	B	0		4	3535	B 000		63
475	14	140	PLC3	SW	PLC5&1		4	3539	, F15		63
476	14	150		B	IORW		4	3543	B 343		63
477	14	160		RT	4,PLC5	LOOK FOR END OF TAPE	8	3547	M %U4 F14 R		63
478	14	170		DCW	PLC4		3	3557	E62		63
479	14	180		B	PLC3		4	3558	B E39		64
480	14	190	PLC4	BSP	4		5	3562	U %U4 B		64
481	14	200		SW	PLCMAX&1		4	3567	, D63		64
482	14	210		B	IORW		4	3571	B 343		64
483	14	220		WT	4,PLCA	WRITE BUFFER	8	3575	M %U4 A63 W		64
484	14	230		DCW	*&1		3	3585	E86		64
485	14	240		WTM	4	END TAPE	5	3586	U %U4 M		64
486	14	250		BSP	4		5	3591	U %U4 B		65
487	15	010		MLC	&PLCB,PLC1A&6		7	3596	M F93 D95		65
488	15	020		ZA	@0@,PLCMAX		7	3603	? F94 D62		65
489	15	030		B	PLC2		4	3610	B E35		65
490	15	040	PLC5	EQU	*&1			3614			
491	15	050		DCW	@ } @		2	3615			65
492	15	060	PLCSY	DCW	#3		3	3618			65
493	15	070		LTORG					3619		
				DCW	@.DT@		3	3621		LIT	65
					@1@		1	3622		LIT	66
					@4@		1	3623		LIT	66
					@001@		3	3626		LIT	66

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
					@.@		1	3627		LIT	66
		226			<EMP		3	3630	R27	ADCON	66
		231			&FIVER-5		3	3633	R38	ADCON	66
		255			&LCDAT		3	3636	?52	ADCON	66
					@999@		3	3639		LIT	67
					@E0B@		3	3642		LIT	67
					@E0C@		3	3645		LIT	67
					@E04@		3	3648		LIT	67
					@E0E@		3	3651		LIT	67
					@E0F@		3	3654		LIT	67
					@E0G@		3	3657		LIT	67
					@E0H@		3	3660		LIT	68
					@E0I@		3	3663		LIT	68
					@E1?@		3	3666		LIT	68
					@E1A@		3	3669		LIT	68
					@E1B@		3	3672		LIT	68
					@E1C@		3	3675		LIT	68
					@E1D@		3	3678		LIT	68
					@202@		3	3681		LIT	69
					@.EB@		3	3684		LIT	69
		468			&PLCMAX		3	3687	D62	ADCON	69
					@003@		3	3690		LIT	69
		487			&PLCB		3	3693	A65	ADCON	69
					@0@		1	3694		LIT	69
494	15	071	DIOCS	DCW	#1		1	3695			69
495	15	072		DC	#49		49	3744			71
496	15	073	DIOGM	DC	@}@		1	3745			71
497	15	080		ORG	3798				3798		
498	15	090		DCW	@}@		1	3798			72
499	15	100		END	START				/ T29 080		73


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CLEAR STORAGE 1      ,008015,019026,030,034041,045,053,0570571026      1
CLEAR STORAGE 2      L068112,102106,113/101099/I99,027A070028)027B0010270B0261,001/001113I0      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	010	000	JOB	1401 COBOL - F01						
102	1	020		CTL	631 11						
103	1	030		ORG	1300				1300		
104	1	040	SUPER	EQU	351			0351			
105	1	050	GETX	EQU	335			0335			
106	1	060	PUTX	EQU	363			0363			
107	1	070	X1	EQU	89			0089			
108	1	080	BEGIN	B	GETSX	4		1300	B ?41		4
109	1	090		C	SX,@*01@	7		1304	C R27 C48		4
110	1	100		BU	BEGIN	5		1311	B T00 /		4
111	1	110		B	PUTSX	4		1316	B ?59		4
112	1	120	START	B	GETSX	4		1320	B ?41		4
113	1	130	STRTO	C	SX,VNOTE	7		1324	C R27 R78		4
114	1	140		BU	START0	5		1331	B T51 /		4
115	1	150		B	PUTSX	4		1336	B ?59		5
116	1	160		B	GTPTIL	4		1340	B ?74		5
117	1	170		DCW	VNOTE	3		1346	R78		5
118	1	180		B	START2	4		1347	B U74		5
119	1	190	START0	C	SX,VAC	7		1351	C R27 R81		5
120	1	200		BU	START1	5		1358	B T78 /		5
121	1	210		B	PUTSX	4		1363	B ?59		5
122	1	220		B	GTPTIL	4		1367	B ?74		6
123	1	230		DCW	VAC	3		1373	R81		6
124	1	240		B	START2	4		1374	B U74		6
125	1	250	START1	C	SX,VIF	7		1378	C R27 R84		6
126	2	010		BE	IF	5		1385	B V34 S		6
127	2	020		C	SX,VLPARN	7		1390	C R27 R63		6
128	2	030		BE	SBSC	5		1397	B O12 S		6
129	2	040		C	SX,VOPEN	7		1402	C R27 R57		7
130	2	050		BE	OPEN	5		1409	B O47 S		7
131	2	060		C	SX,VCLOSE	7		1414	C R27 R60		7
132	2	070		BE	CLOSE	5		1421	B P19 S		7
133	2	080		C	SX,VCOMP	7		1426	C R27 R66		7
134	2	090		BE	COMP	5		1433	B N25 S		7
135	2	100		C	SX,VWRITE	7		1438	C R27 R75		8
136	2	110		BE	WRITE	5		1445	B P91 S		8
137	2	120		C	SX,VUNTIL	7		1450	C R27 R87		8
138	2	130		BE	UNTIL	5		1457	B U89 S		8
139	2	140		C	SX,VAND	7		1462	C R27 R90		8
140	2	150		BE	START	5		1469	B T20 S		8
141	2	160	START2	B	PUTSX	4		1474	B ?59		9
142	2	170		MLC	SX,LAST	7		1478	M R27 R54		9
143	2	180		B	START	4		1485	B T20		9
144	2	190	UNTIL	B	GETSX	4		1489	B ?41		9
145	2	200		C	SX,VFIRST	7		1493	C R27 ?37		9
146	2	210		BE	UNTIL1	5		1500	B V23 S		9
147	2	220		B	PUTX	4		1505	B 363		9

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	2	230		DCW	VIFOP		3	1511	R93		10
149	2	240		B	PUTX		4	1512	B 363		10
150	2	250		DCW	VUNTIL		3	1518	R87		10
151	3	010		B	IF3		4	1519	B V49		10
152	3	020	UNTIL1	B	PUTX		4	1523	B 363		10
153	3	030		DCW	VXTL		3	1529	?40		10
154	3	040		B	START2		4	1530	B U74		10
155	3	050	IF	B	PUTX	IF ROUTINE	4	1534	B 363		11
156	3	060		DCW	VIFOP		3	1540	R93		11
157	3	070	IF1	B	PUTSX		4	1541	B ?59		11
158	3	080	IF2	B	GETSX		4	1545	B ?41		11
159	3	090	IF3	C	SX-2,@?@	NAME TEST	7	1549	C R25 C49		11
160	3	100		BL	NAME		5	1556	B !71 T		11
161	3	110		BCE	RELAT,SX,#	RELATIONAL TESTS	8	1561	B !41 R27 #		11
162	3	120		C	SX-1,@\$2@		7	1569	C R26 C51		12
163	3	130		BE	RELAT		5	1576	B !41 S		12
164	3	140		C	SX,VGE		7	1581	C R27 R96		12
165	3	150		BE	RELAT		5	1588	B !41 S		12
166	3	160		C	SX,VLE		7	1593	C R27 R99		12
167	3	170		BE	RELAT		5	1600	B !41 S		12
168	3	180		C	SX,VNOT	NOT TEST	7	1605	C R27 ?02		13
169	3	190		BE	NOT		5	1612	B Y64 S		13
170	3	200		C	SX-1,@\$3@	LOGICAL TEST	7	1617	C R26 C53		13
171	3	210		BE	LOGIC		5	1624	B X55 S		13
172	3	220		C	SX-1,@\$1@		7	1629	C R26 C55		13
173	3	230		BE	CLSGN		5	1636	B X07 S		13
174	3	240		C	SX,VSW		7	1641	C R27 ?05		14
175	3	250		BE	SWITCH		5	1648	B Y38 S		14
176	4	010		BCE	LEFTP,SX,%	LEFT-PAREN TEST	8	1653	B Y20 R27 %		14
177	4	020		BCE	RIGHTP,SX,)	RIGHT-PAREN TEST	8	1661	B X70 R27)		14
178	4	030		BCE	IF4,SX-2,	REFERENCE-SYMBOL TEST	8	1669	B W93 R25		14
179	4	040		C	SX,VBSC		7	1677	C R27 R45		15
180	4	050		BE	IF4		5	1684	B W93 S		15
181	4	060		B	EOIF		4	1689	B X26		15
182	4	070	IF4	B	ADSL		4	1693	B A42		15
183	4	080		DCW	WORKST		3	1699	C81		15
184	4	090			SX		3	1702	R27		15
185	4	100		B	IF2		4	1703	B V45		15
186	4	110	CLSGN	B	PUTX		4	1707	B 363		16
187	4	120		DCW	VPS		3	1713	?15		16
188	4	130		B	PUTXST		4	1714	B M94		16
189	4	140		B	PUTSX		4	1718	B ?59		16
190	4	150		B	IF2		4	1722	B V45		16
191	4	160	EOIF	B	PURGE	END OF CONDITIONAL EXPRESSION	4	1726	B J15		16
192	4	170		B	PUTX		4	1730	B 363		16
193	4	180		DCW	VEX		3	1736	?18		17
194	4	190		B	PUTX		4	1737	B 363		17
195	4	200		DCW	VKV		3	1743	?08		17
196	4	210		MLC	@0@,RLTSW		7	1744	M C56 ?22		17
197	4	220		B	STRTO		4	1751	B T24		17

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
198	4	230	LOGIC	B	PURGE		4	1755	B J15		17
199	4	240		B	PUTX		4	1759	B 363		17
200	4	250		DCW	VEX		3	1765	?18		18
201	5	010		B	IF1		4	1766	B V41		18
202	5	020	RIGHTP	BCE	IF4,LPARN,0		8	1770	B W93 ?09 0		18
203	5	030		S	&1,PRNCNT		7	1778	S C57 ?12		18
204	5	040	RGT0	BWZ	RGT2,PRNCNT,K		8	1785	V Y04 ?12 K		18
205	5	050	RGT1	MLZS	@ @,PRNCNT		7	1793	Y C58 ?12		18
206	5	060		B	IF4		4	1800	B W93		19
207	5	070	RGT2	C	PRNCNT,@00!@		7	1804	C ?12 C61		19
208	5	080		BE	RGT1		5	1811	B X93 S		19
209	5	090		B	IF4		4	1816	B W93		19
210	5	100	LEFTP	MLC	@1@,LPARN		7	1820	M C62 ?09		19
211	5	110		A	&1,PRNCNT		7	1827	A C57 ?12		19
212	5	120		B	RGT0		4	1834	B X85		19
213	5	130	SWITCH	B	PUTX		4	1838	B 363		20
214	5	140		DCW	VPS		3	1844	?15		20
215	5	150		B	GETSX		4	1845	B ?41		20
216	5	160		B	PUTSX		4	1849	B ?59		20
217	5	170		B	PUTX		4	1853	B 363		20
218	5	180		DCW	VSW		3	1859	?05		20
219	5	190		B	IF2		4	1860	B V45		20
220	5	200	NOT	B	GETSX		4	1864	B ?41		21
221	5	210		C	WORKST,NULL		7	1868	C C81 C84		21
222	5	220		BU	NOT2		5	1875	B Z42 /		21
223	5	230		BCE	NOT1,SX,#		8	1880	B Z24 R27 #		21
224	5	240		C	SX-1,@\$2@		7	1888	C R26 C51		21
225	5	250		BE	NOT1		5	1895	B Z24 S		21
226	6	010		C	SX,VGE		7	1900	C R27 R96		22
227	6	020		BE	NOT1		5	1907	B Z24 S		22
228	6	030		C	SX,VLE		7	1912	C R27 R99		22
229	6	040		BU	NOT5		5	1919	B !30 /		22
230	6	050	NOT1	B	PUTX		4	1924	B 363		22
231	6	060		DCW	VRL		3	1930	?21		22
232	6	070		B	PUTX		4	1931	B 363		22
233	6	080		DCW	VNOT		3	1937	?02		23
234	6	090		B	RELAT1		4	1938	B !60		23
235	6	100	NOT2	C	SX,VZERO		7	1942	C R27 C45		23
236	6	110		BU	NOT3		5	1949	B Z78 /		23
237	6	120		B	ADSL		4	1954	B A42		23
238	6	130		DCW	WORKST		3	1960	C81		23
239	6	140			VNOT		3	1963	?02		23
240	6	150		B	ADSL		4	1964	B A42		24
241	6	160		DCW	WORKST		3	1970	C81		24
242	6	170			VEQU		3	1973	R48		24
243	6	180		B	IF4		4	1974	B W93		24
244	6	190	NOT3	C	SX-1,@\$1@		7	1978	C R26 C55		24
245	6	200		BU	NOT4		5	1985	B !16 /		24
246	6	210		B	PUTX		4	1990	B 363		24
247	6	220		DCW	VPS		3	1996	?15		25

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
248	6	230		B	PUTXST		4	1997	B M94		25
249	6	240		B	PUTX		4	2001	B 363		25
250	6	250		DCW	VNOT		3	2007	?02		25
251	7	010		B	PUTSX		4	2008	B ?59		25
252	7	020		B	IF2		4	2012	B V45		25
253	7	030	NOT4	B	ADSL		4	2016	B A42		25
254	7	040		DCW	WORKST		3	2022	C81		26
255	7	050			VNOT		3	2025	?02		26
256	7	060		B	IF3		4	2026	B V49		26
257	7	070	NOT5	B	PUTX		4	2030	B 363		26
258	7	080		DCW	VNOT		3	2036	?02		26
259	7	090		B	IF3		4	2037	B V49		26
260	7	100	RELAT	C	WORKST, NULL		7	2041	C C81 C84		26
261	7	110		BU	IF4		5	2048	B W93 /		27
262	7	120		B	PUTX		4	2053	B 363		27
263	7	130		DCW	VRL		3	2059	?21		27
264	7	140	RELAT1	MLC	@1@, RLTSW		7	2060	M C62 ?22		27
265	7	150		B	IF1		4	2067	B V41		27
266	7	160	NAME	MLC	SX, SYM		7	2071	M R27 ?25		27
267	7	170		B	GETSX		4	2078	B ?41		27
268	7	180		BCE	NAME2, SX, %		8	2082	B J04 R27 %		28
269	7	190	NAME1	B	ADSL		4	2090	B A42		28
270	7	200		DCW	WORKST		3	2096	C81		28
271	7	210			SYM		3	2099	?25		28
272	7	220		B	IF3		4	2100	B V49		28
273	7	230	NAME2	MLC	VSB, SX		7	2104	M ?28 R27		28
274	7	240		B	NAME1		4	2111	B !90		28
275	7	250	PURGE	SBR	PEXIT&3		4	2115	H M56		29
276	8	010		C	WORKST, NULL		7	2119	C C81 C84		29
277	8	020		BE	PURGEA		5	2126	B M32 S		29
278	8	030		BCE	PRG1A, LPARN, 0		8	2131	B M20 ?09 0		29
279	8	040		C	PRNCNT, NULL		7	2139	C ?12 C84		29
280	8	050		BE	PURGE1		5	2146	B J86 S		29
281	8	060	PRG00	BCE	PRG001, FIRST, %		8	2151	B J71 C90 %		30
282	8	061		C	FIRST, VNOT		7	2159	C C90 ?02		30
283	8	070		BU	PURGE1		5	2166	B J86 /		30
284	8	080	PRG001	B	PUTX		4	2171	B 363		30
285	8	090		DCW	VLPARN		3	2177	R63		30
286	8	100		B	DROP		4	2178	B M57		30
287	8	101		B	PRG00		4	2182	B J51		30
288	8	110	PURGE1	BCE	PURGE3, RLTSW, 0		8	2186	B K16 ?22 0		31
289	8	120		MLC	@0@, RLTSW		7	2194	M C56 ?22		31
290	8	130		B	PUTX		4	2201	B 363		31
291	8	140		DCW	VCO		3	2207	?31		31
292	8	150		B	PUTXST		4	2208	B M94		31
293	8	160	PURGE2	B	PURGEA		4	2212	B M32		31
294	8	170	PURGE3	B	PUTX		4	2216	B 363		31
295	8	180		DCW	VCS		3	2222	?34		32
296	8	190	PURGE4	C	WORKST, NULL		7	2223	C C81 C84		32
297	8	200		BE	PURGE2		5	2230	B K12 S		32

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
298	8	210	PURGEB	NOP	PURGEC		4	2235	N K62		32
299	8	220		C	FIRST,VZERO		7	2239	C C90	C45	32
300	8	230		BE	PURGE8		5	2246	B M05	S	32
301	8	240		MLC	@B@,PURGEB		7	2251	M C63	K35	32
302	8	250		B	PURGED		4	2258	B K92		33
303	9	010	PURGEC	C	FIRST,VZERO		7	2262	C C90	C45	33
304	9	020		BU	PURGED		5	2269	B K92	/	33
305	9	030		B	PUTX		4	2274	B 363		33
306	9	040		DCW	VRL		3	2280	?21		33
307	9	050		B	PUTX		4	2281	B 363		33
308	9	060		DCW	VEQU		3	2287	R48		33
309	9	070		B	PURGEF		4	2288	B L98		34
310	9	080	PURGED	C	FIRST,VNOT		7	2292	C C90	?02	34
311	9	090		BE	PURGE5		5	2299	B L48	S	34
312	9	100		BCE	PURGE5,FIRST,#		8	2304	B L48	C90 #	34
313	9	110		C	FIRST-1,@\$2@		7	2312	C C89	C51	34
314	9	120		BE	PURGE5		5	2319	B L48	S	34
315	9	130		C	FIRST,VGE		7	2324	C C90	R96	35
316	9	140		BE	PURGE5		5	2331	B L48	S	35
317	9	150		C	FIRST,VLE		7	2336	C C90	R99	35
318	9	160		BU	PURGE8		5	2343	B M05	/	35
319	9	170	PURGE5	B	PUTX		4	2348	B 363		35
320	9	180		DCW	VRL		3	2354	?21		35
321	9	190	PURGE6	B	PUTX		4	2355	B 363		35
322	9	200		DCW	FIRST		3	2361	C90		36
323	9	210		C	FIRST,VNOT		7	2362	C C90	?02	36
324	9	220		BU	PURGE7		5	2369	B L82	/	36
325	9	230		B	DROP		4	2374	B M57		36
326	9	240		B	PURGE6		4	2378	B L55		36
327	9	250	PURGE7	B	DROP		4	2382	B M57		36
328	10	010		C	WORKST,NULL		7	2386	C C81	C84	36
329	10	020		BE	PURGE2		5	2393	B K12	S	37
330	10	030	PURGEF	B	PUTX		4	2398	B 363		37
331	10	040		DCW	VCO		3	2404	?31		37
332	10	050	PURGE8	B	PUTX		4	2405	B 363		37
333	10	060		DCW	FIRST		3	2411	C90		37
334	10	070		B	DROP		4	2412	B M57		37
335	10	080		B	PURGE4		4	2416	B K23		37
336	10	090	PRG1A	BCE	PURGE8,FIRST,)		8	2420	B M05	C90)	38
337	10	100		B	PURGE1		4	2428	B J86		38
338	10	110	PURGEA	MLC	@0@,LPARN		7	2432	M C56	?09	38
339	10	120		MLC	@N@,PURGEB		7	2439	M C64	K35	38
340	10	130		MLC	NULL,PRNCNT		7	2446	M C84	?12	38
341	10	140	PEXIT	B	*		4	2453	B M56		38
342	10	150	DROP	SBR	DEXIT&3		4	2457	H M93		39
343	10	160		MRCM	FIRST&1,FIRST-2		7	2461	P C91	C88	39
344	10	170		MLC	@ @		4	2468	M C58		39
345	10	180		SBR	ENDST		4	2472	H C78		39
346	10	190		S	&3,WORKST		7	2476	S C65	C81	39
347	10	200		MLZS	@ @,WORKST		7	2483	Y C58	C81	39

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
348	10	210	DEXIT	B	*		4	2490	B M93		39
349	10	220	PUTXST	SBR	PSTEX&3		4	2494	H N24		40
350	10	230	PST01	BCE	PSTEX,FIRST-2,|		8	2498	B N21 C88 |		40
351	10	240		B	PUTX		4	2506	B 363		40
352	10	250		DCW	FIRST		3	2512	C90		40
353	11	010		B	DROP		4	2513	B M57		40
354	11	020		B	PST01		4	2517	B M98		40
355	11	030	PSTEX	B	*		4	2521	B N24		40
356	11	040	COMP	B	PUTSX		4	2525	B ?59		41
357	11	050		B	GETSX		4	2529	B ?41		41
358	11	060		C	SX,VRNDD		7	2533	C R27 O11		41
359	11	070		BE	CRNDD		5	2540	B N91 S		41
360	11	080		C	SX,VEQU		7	2545	C R27 R48		41
361	11	090		BE	COMP1		5	2552	B N80 S		41
362	11	100		BCE	CSUB,SX,%		8	2557	B N69 R27 %		42
363	11	110		B	COMP		4	2565	B N25		42
364	11	120	CSUB	MLC	VSBSC,SX		7	2569	M R45 R27		42
365	11	130		B	COMP		4	2576	B N25		42
366	11	140	COMP1	MLC	VASGN,SX		7	2580	M R51 R27		42
367	11	150		B	START2		4	2587	B U74		42
368	11	160	CRNDD	B	GETSX		4	2591	B ?41		42
369	11	170		MLC	VAR,SX		7	2595	M O08 R27		43
370	11	180		B	START2		4	2602	B U74		43
371	11	190	VAR	DCW	@*10@		3	2608			43
372	11	200	VRNDD		@*10@		3	2611			43
373	11	210	SBSC	C	LAST-2,@A@	LEFT-PAREN & SUBSCRIPTING	7	2612	C R52 C66		43
374	11	220		BH	START2		5	2619	B U74 U		43
375	11	230		C	LAST-2,@R@		7	2624	C R52 C67		43
376	11	240		BL	START2		5	2631	B U74 T		44
377	11	250		B	PUTX		4	2636	B 363		44
378	12	010		DCW	VSBSC		3	2642	R45		44
379	12	020		B	START		4	2643	B T20		44
380	12	030	OPEN	B	PUTSX	OPEN	4	2647	B ?59		44
381	12	040		B	GETSX		4	2651	B ?41		44
382	12	050	OPEN1	B	GETSX		4	2655	B ?41		44
383	12	060		C	SX-2,@A@		7	2659	C R25 C66		45
384	12	070		BH	OPEN2		5	2666	B O91 U		45
385	12	080		C	SX-2,@R@		7	2671	C R25 C67		45
386	12	090		BL	OPEN2		5	2678	B O91 T		45
387	12	100		B	PUTSX		4	2683	B ?59		45
388	12	110		B	OPEN1		4	2687	B O55		45
389	12	120	OPEN2	C	SX,VINPUT		7	2691	C R27 R30		45
390	12	130		BE	OPEN1		5	2698	B O55 S		46
391	12	140		C	SX,VOUTPT		7	2703	C R27 R33		46
392	12	150		BE	OPEN1		5	2710	B O55 S		46
393	12	160		B	STRTO		4	2715	B T24		46
394	12	170	CLOSE	B	PUTSX	CLOSE	4	2719	B ?59		46
395	12	180	CLOSE1	B	GETSX		4	2723	B ?41		46
396	12	190		C	SX-2,@A@		7	2727	C R25 C66		46
397	12	200		BH	CLOSE2		5	2734	B P51 U		47

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
398	12	210		C	SX-2,@S@		7	2739	C R25 C68		47
399	12	220		BH	CLOSE		5	2746	B P19 U		47
400	12	230	CLOSE2	C	SX,VNO		7	2751	C R27 R36		47
401	12	240		BE	CLOSE1		5	2758	B P23 S		47
402	12	250		C	SX,VLOCK		7	2763	C R27 R39		47
403	13	010		BE	CLOSE1		5	2770	B P23 S		48
404	13	020		C	SX,VRWND		7	2775	C R27 R42		48
405	13	030		BE	CLOSE1		5	2782	B P23 S		48
406	13	040		B	STRT0		4	2787	B T24		48
407	13	050	WRITE	B	GETX		4	2791	B 335		48
408	13	060		DCW	RCDNM		3	2797	R69		48
409	13	070			EOJ		3	2800	R14		48
410	13	080		B	GETSX		4	2801	B ?41		49
411	13	090		C	SX,VFROM		7	2805	C R27 R72		49
412	13	100		BU	WRITE2		5	2812	B Q66 /		49
413	13	110		B	GETSX		4	2817	B ?41		49
414	13	120		B	PUTX		4	2821	B 363		49
415	13	130		DCW	VMOVE	MOVE	3	2827	R10		49
416	13	140	WRITE0	B	PUTSX	FIRST SYM OF AREA	4	2828	B ?59		49
417	13	150		B	GETSX		4	2832	B ?41		50
418	13	160		BCE	WRITE4,SX,%		8	2836	B Q48 R27 %		50
419	13	170		B	WRITE1		4	2844	B Q59		50
420	13	180	WRITE4	MLC	VSBSC,SX		7	2848	M R45 R27		50
421	13	190		B	WRITE3		4	2855	B Q84		50
422	13	200	WRITE1	B	PUTX		4	2859	B 363		50
423	13	210		DCW	RCDNM	TO RECORD-NAME	3	2865	R69		50
424	13	220	WRITE2	B	PUTX		4	2866	B 363		51
425	13	230		DCW	VWRITE	WRITE	3	2872	R75		51
426	13	240		B	PUTX		4	2873	B 363		51
427	13	250		DCW	RCDNM	RECORD-NAME	3	2879	R69		51
428	14	010		B	STRT0		4	2880	B T24		51
429	14	020	WRITE3	C	SX,VRP		7	2884	C R27 R13		51
430	14	030		BE	WRITE0		5	2891	B Q28 S		51
431	14	040		B	PUTSX		4	2896	B ?59		52
432	14	050		B	GETSX		4	2900	B ?41		52
433	14	060		B	WRITE3		4	2904	B Q84		52
434	14	070	VMOVE	DCW	@)15@		3	2910			52
435	14	080	VRP	DCW	@)@		3	2913			52
436	14	090	EOJ	B	PUTSX		4	2914	B ?59		52
437	14	100		B	SUPER		4	2918	B 351		52
438	14	110		DCW	@F02@		3	2924			53
439	14	120	SX	DCW	#3		3	2927			53
440	14	130	VINPUT		@*20@		3	2930			53
441	14	140	VOUTPT		@*15@		3	2933			53
442	14	150	VNO		@*33@		3	2936			53
443	14	160	VLOCK	DCW	@*26@		3	2939			53
444	14	170	VRWND		@*13@		3	2942			53
445	14	180	VSBSC		@.SB@		3	2945			54
446	14	190	VEQU		@ #@		3	2948			54
447	14	200	VASGN	DCW	@*16@		3	2951			54

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
448	14	210	LAST		#3		3	2954			54
449	14	220	VOPEN		@)14@		3	2957			54
450	14	230	VCLOSE		@)09@		3	2960			54
451	14	240	VLPARN		@ %@		3	2963			54
452	14	250	VCOMP		@)05@		3	2966			55
453	15	010	RCDNM		#3		3	2969			55
454	15	020	VFROM		@*28@		3	2972			55
455	15	030	VWRITE		@)08@		3	2975			55
456	15	040	VNOTE		@*24@		3	2978			55
457	15	050	VAC	DCW	@#DC@		3	2981			55
458	15	060	VIF		@)19@		3	2984			55
459	15	070	VUNTIL		@*18@		3	2987			56
460	15	080	VAND		@\$32@		3	2990			56
461	15	090	VIFOP		@)IF@		3	2993			56
462	15	100	VGE		@.GE@		3	2996			56
463	15	110	VLE		@.LE@		3	2999			56
464	15	120	VNOT		@\$30@		3	3002			56
465	15	130	VSW		@.SW@		3	3005			56
466	15	140	VKV		@.KV@		3	3008			57
467	15	150	LPARN		@0@		1	3009			57
468	15	160	PRNCNT		@000@		3	3012			57
469	15	170	VPS		@.PS@		3	3015			57
470	15	180	VEX		@.EX@		3	3018			57
471	15	190	VRL		@.RL@		3	3021			57
472	15	200	RLTSW		@0@		1	3022			57
473	15	210	SYM		#3		3	3025			58
474	15	220	VSX		@.SB@		3	3028			58
475	15	230	VCO		@.CO@		3	3031			58
476	15	240	VCS		@.CS@		3	3034			58
477	15	250	VFIRST		@*38@		3	3037			58
478	16	010	VXTL		@/XT@		3	3040			58
479	16	020	GETSX	SBR	GTSEX&3	GETSX	4	3041	H ?58		58
480	16	030		B	GETX		4	3045	B 335		59
481	16	040		DCW	&SX		3	3051	R27		59
482	16	050			&EOJ		3	3054	R14		59
483	16	060	GTSEX	B	*		4	3055	B ?58		59
484	16	070	PUTSX	SBR	PTSEX&3	PUTSX	4	3059	H ?73		59
485	16	080		B	PUTX		4	3063	B 363		59
486	16	090		DCW	&SX		3	3069	R27		59
487	16	100	PTSEX	B	*		4	3070	B ?73		60
488	16	110	GTPTIL	SBR	X1	GTPTIL	4	3074	H 089		60
489	16	120		MLC	@P@,GTPSW		7	3078	M C69 A41		60
490	16	130		MLC	X1,GTLSV		7	3085	M 089 A40		60
491	16	140		MLC	2&X1,GTLO3&3		7	3092	M 0|2 A06		60
492	16	150	GTL02	B	GETSX		4	3099	B ?41		60
493	16	160	GTL03	C	*,SX		7	3103	C A09 R27		61
494	16	170		BE	GTL04		5	3110	B A27 S		61
495	16	180		BCE	PUTSX,GTPSW,P		8	3115	B ?59 A41 P		61
496	16	190		B	GTL02		4	3123	B ?99		61
497	16	200	GTL04	MLC	GTLSV,X1		7	3127	M A40 089		61

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
498	16	210		B	3&X1		4	3134	B 0|3		61
499	16	220	GTLSV	DCW	#3		3	3140			61
500	16	230	GTPSW		#1		1	3141			62
501	16	240	ADSL	SBR	X1		4	3142	H 089		62
502	16	250		SBR	ADSL5&3,6&X1	FIX EXIT	7	3146	H B65 0|6		62
503	17	010		MLC	2&X1,ADSL1	STRING 1	7	3153	M 0|2 A87		62
504	17	020		MLC	ADSL1,ADSL4&6	STRING1	7	3160	M A87 B47		62
505	17	030		MLC	5&X1,ADSL3&3	SYMBOL	7	3167	M 0|5 B33		62
506	17	040		A	@003@,ADSL1		7	3174	A C72 A87		63
507	17	050		B	LCST	LOCATE FIRST OF NEXT STRING	4	3181	B B66		63
508	17	060	ADSL1	DCW	#3		3	3187			63
509	17	070			LOCTN		3	3190	C42		63
510	17	080		MLC	ENDST,X1	SET OPENER	7	3191	M C78 089		63
511	17	090		SBR	ADSL2&3,0&X1		7	3198	H B26 0|0		63
512	17	100		SBR	ADSL2&6,3&X1		7	3205	H B29 0|3		63
513	17	110		MLC	LOCTN,X1		7	3212	M C42 089		64
514	17	120		SW	0&X1		4	3219	, 0|0		64
515	17	130	ADSL2	MLC	0,0	OPEN STRING AREA	7	3223	M 000 000		64
516	17	140	ADSL3	MLC	0,2&X1		7	3230	M 000 0|2		64
517	17	150		CW	0&X1		4	3237	) 0|0		64
518	17	160	ADSL4	A	@003@,0	INCREMENT NORM	7	3241	A C72 000		64
519	17	170		MLC	ENDST,X1		7	3248	M C78 089		65
520	17	180		SBR	ENDST,3&X1		7	3255	H C78 0|3		65
521	17	190	ADSL5	B	0	EXIT	4	3262	B 000		65
522	17	200	*		LOCATION GIVEN IS LEFT	END CHARACTER					
523	17	210	LCST	SBR	X1		4	3266	H 089		65
524	17	220		MLC	2&X1,*&4	SET ADDER	7	3270	M 0|2 B80		65
525	17	230		MLC	0,LOCTN		7	3277	M 000 C42		65
526	17	240		SAR	LCST2&3		4	3284	Q C28		66
527	17	250		MLC	BGNST,LOCTN	INITIALIZE COUNTER	7	3288	M C87 C42		66
528	18	010	LCST1	C	LCST2&3,&BGNLC	TEST FOR END	7	3295	C C28 C75		66
529	18	020		BU	LCST2		5	3302	B C25 /		66
530	18	030		MLC	5&X1,*&7		7	3307	M 0|5 C20		66
531	18	040		MLC	LOCTN,*		7	3314	M C42 C20		66
532	18	050		B	6&X1		4	3321	B 0|6		67
533	18	060	LCST2	A	0,LOCTN	ADDER	7	3325	A 000 C42		67
534	18	070		SAR	LCST2&3	DECREMENT ADDER	4	3332	Q C28		67
535	18	080		B	LCST1		4	3336	B B95		67
536	18	090	LOCTN	DCW	#3	LOCATION OF STRING	3	3342			67
537	18	100	VZERO	DCW	@A0Q@		3	3345			67
538	18	110		LTORG					3346		
				DCW	@*01@		3	3348		LIT	67
					@?@		1	3349		LIT	68
					@\$2@		2	3351		LIT	68
					@\$3@		2	3353		LIT	68
					@\$1@		2	3355		LIT	68
					@0@		1	3356		LIT	68
					&1		1	3357		LIT	68
					@ @		1	3358		LIT	68
					@00!@		3	3361		LIT	69

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
					@1@		1	3362		LIT	69
					@B@		1	3363		LIT	69
					@N@		1	3364		LIT	69
					&3		1	3365		LIT	69
					@A@		1	3366		LIT	69
					@R@		1	3367		LIT	69
					@S@		1	3368		LIT	70
					@P@		1	3369		LIT	70
					@003@		3	3372		LIT	70
					&BGNLC		3	3375	C78	ADCON	70
539	18	120	ENDST	DCW	RM		3	3378	C88		70
540	18	130	BGNLC	EQU	*			3378			
541	18	140	WORKST	DCW	@000@		3	3381			70
542	18	150	NULL		@000@		3	3384			70
543	18	160	BGNST	DCW	RM		3	3387	C88		71
544	18	170	RM	DC	@|@		1	3388			71
545	18	180	FIRST	DC	#2		2	3390			71
546	18	190		ORG	3798				3798		
547	18	200		DCW	@}@		1	3798			72
548	18	210		END	START				/ T20 080		73

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CLEAR STORAGE 1      ,008015,019026,030,034041,045,053,0570571026      1
CLEAR STORAGE 2      L068112,102106,113/101099/I99,027A070028)027B0010270B0261,001/001113I0      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	010	000	JOB	1401 COBOL - F02						
102	1	020		CTL	631 11						
103	1	030		ORG	1300				1300		
104	1	040	SUPER	EQU	351			0351			
105	1	050	GETX	EQU	335			0335			
106	1	060	PUTX	EQU	363			0363			
107	1	070	X1	EQU	89			0089			
108	1	080	X2	EQU	94			0094			
109	1	090	START	B	GTPTIL	4		1300	B L87		4
110	1	100		DCW	VPROC	3		1306	X70		4
111	1	110	START1	B	PUTSX	4		1307	B L72	GENERAL CONTROL	4
112	1	120	START2	B	GETSX	4		1311	B L54		4
113	1	130	START3	C	SX,VIFOP	7		1315	C X73 X76		4
114	1	140		BE	IF	5		1322	B T89 S		4
115	1	150		C	SX,VCOMP	7		1327	C X73 Z07		4
116	1	160		BE	COMP	5		1334	B Y08 S		5
117	1	170		C	SX,VNOTE	7		1339	C X73 X98		5
118	1	180		BU	START6	5		1346	B T73 /		5
119	1	190	START5	MLC	SX,TEST	7		1351	M X73 Y04		5
120	1	200		B	PUTSX	4		1358	B L72		5
121	1	210		B	GTPTIL	4		1362	B L87		5
122	1	220		DCW	TEST	3		1368	Y04		5
123	1	230		B	START1	4		1369	B T07		6
124	1	240	START6	C	SX,VAC	7		1373	C X73 Y01		6
125	1	250		BE	START5	5		1380	B T51 S		6
126	2	010		B	START1	4		1385	B T07		6
127	2	020	IF	B	GETSX	4		1389	B L54		6
128	2	030	IF0	B	PUTSX	4		1393	B L72		6
129	2	040	IF1	B	GETSX	4		1397	B L54		6
130	2	050		C	SX,VPS	7		1401	C X73 X79		7
131	2	060		BU	IF4	5		1408	B U24 /		7
132	2	070	IF3	B	GTPTIL	4		1413	B L87		7
133	2	080		DCW	VEX	3		1419	X82		7
134	2	090		B	IF1	4		1420	B T97		7
135	2	100	IF4	C	SX,VRL	7		1424	C X73 X85		7
136	2	110		BU	IF5	5		1431	B U90 /		7
137	2	120		B	PUTXST	4		1436	B Z11		8
138	2	130		DCW	SBJST	3		1442	M81		8
139	2	140	IF4A	B	GETSX	4		1443	B L54		8
140	2	150		C	SX,VCO	7		1447	C X73 X88		8
141	2	160		BE	IF3	5		1454	B U13 S		8
142	2	170		C	SX,VEX	7		1459	C X73 X82		8
143	2	180		BU	IF4B	5		1466	B U82 /		8
144	2	190		B	PUTXST	4		1471	B Z11		9
145	2	200		DCW	OBJST	3		1477	M75		9
146	2	210		B	IF1	4		1478	B T97		9
147	2	220	IF4B	B	PUTSX	4		1482	B L72		9

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	2	230		B	IF4A		4	1486	B U43		9
149	2	240	IF5	C	SX,VCS		7	1490	C X73 X91		9
150	2	250		BU	IF13		5	1497	B X41 /		9
151	3	010	IF6	B	GETSX		4	1502	B L54		10
152	3	020		C	SX,VEX		7	1506	C X73 X82		10
153	3	030		BU	IF7		5	1513	B V50 /		10
154	3	040		B	PUTXST		4	1518	B Z11		10
155	3	050		DCW	SBJST		3	1524	M81		10
156	3	060		B	PUTXST		4	1525	B Z11		10
157	3	070		DCW	RLTST		3	1531	M78		10
158	3	080		B	PUTXST		4	1532	B Z11		11
159	3	090		DCW	WORKST		3	1538	M84		11
160	3	100		B	FREE		4	1539	B !55		11
161	3	110		DCW	WORKST		3	1545	M84		11
162	3	120		B	IF1		4	1546	B T97		11
163	3	130	IF7	C	SX,VRL		7	1550	C X73 X85		11
164	3	140		BU	IF12		5	1557	B X27 /		11
165	3	150		B	FREE		4	1562	B !55		12
166	3	160		DCW	SBJST		3	1568	M81		12
167	3	170		MLC	WORKST,SBJST		7	1569	M M84 M81		12
168	3	180		MLC	NULL,WORKST		7	1576	M M87 M84		12
169	3	190		B	FREE		4	1583	B !55		12
170	3	200		DCW	RLTST		3	1589	M78		12
171	3	210	IF8	B	GETSX		4	1590	B L54		12
172	3	220		C	SX,VCO		7	1594	C X73 X88		13
173	3	230		BU	IF10		5	1601	B W90 /		13
174	3	240		B	FREE		4	1606	B !55		13
175	3	250		DCW	OBJST		3	1612	M75		13
176	4	010	IF9	B	GETSX		4	1613	B L54		13
177	4	020		C	SX,VEX		7	1617	C X73 X82		13
178	4	030		BU	IF9B		5	1624	B W76 /		13
179	4	040		B	PUTXST		4	1629	B Z11		14
180	4	050		DCW	SBJST		3	1635	M81		14
181	4	060		B	PUTXST		4	1636	B Z11		14
182	4	070		DCW	RLTST		3	1642	M78		14
183	4	080		BCE	IF9A,LDLPO,0		8	1643	B W65 X92 0		14
184	4	090		MLC	@0@,LDLPO		7	1651	M M61 X92		14
185	4	100		B	PUTX		4	1658	B 363		14
186	4	110		DCW	VLPARN		3	1664	Y07		15
187	4	120	IF9A	B	PUTXST		4	1665	B Z11		15
188	4	130		DCW	OBJST		3	1671	M75		15
189	4	140		B	IF1		4	1672	B T97		15
190	4	150	IF9B	B	ADSL		4	1676	B J60		15
191	4	160		DCW	OBJST		3	1682	M75		15
192	4	170			SX		3	1685	X73		15
193	4	180		B	IF9		4	1686	B W13		16
194	4	190	IF10	C	SX,VLPARN		7	1690	C X73 Y07		16
195	4	200		BU	IF11		5	1697	B X13 /		16
196	4	210		MLC	@1@,LDLPO		7	1702	M M62 X92		16
197	4	220		B	IF8		4	1709	B V90		16

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
198	4	230	IF11	B	ADSL		4	1713	B J60		16
199	4	240		DCW	RLTST		3	1719	M78		16
200	4	250			SX		3	1722	X73		17
201	5	010		B	IF8		4	1723	B V90		17
202	5	020	IF12	B	ADSL		4	1727	B J60		17
203	5	030		DCW	WORKST		3	1733	M84		17
204	5	040			SX		3	1736	X73		17
205	5	050		B	IF6		4	1737	B V02		17
206	5	060	IF13	C	SX,VKV		7	1741	C X73 X95		17
207	5	070		BE	START2		5	1748	B T11 S		18
208	5	080		B	IF0		4	1753	B T93		18
209	5	090	EOJ	B	PUTSX		4	1757	B L72		18
210	5	100		B	SUPER		4	1761	B 351		18
211	5	110		DCW	@F03@		3	1767			18
212	5	120	VPROC	DCW	@*01@		3	1770			18
213	5	130			SX		3	1773			18
214	5	140	VIFOP		@)IF@		3	1776			19
215	5	150	VPS		@.PS@		3	1779			19
216	5	160	VEX		@.EX@		3	1782			19
217	5	170	VRL		@.RL@		3	1785			19
218	5	180	VCO		@.CO@		3	1788			19
219	5	190	VCS		@.CS@		3	1791			19
220	5	200	LDLPO		@0@		1	1792			19
221	5	210	VKV		@.KV@		3	1795			20
222	5	220	VNOTE	DCW	@*24@		3	1798			20
223	5	230	VAC	DCW	@#DC@		3	1801			20
224	5	240	TEST		#3		3	1804			20
225	5	250	VLPARN		@ %@		3	1807			20
226	6	010	COMP	B	PUTSX		4	1808	B L72		20
227	6	020		MLC	SX, LAST		7	1812	M X73 Z10		20
228	6	030	COMP1	B	GETSX		4	1819	B L54		21
229	6	040		BCE	START3, SX-2,)		8	1823	B T15 X71)		21
230	6	050		BCE	COMP2, SX, &		8	1831	B Y51 X73 &		21
231	6	060		BCE	COMP2, SX, -		8	1839	B Y51 X73 -		21
232	6	070		B	COMP		4	1847	B Y08		21
233	6	080	COMP2	BCE	COMP, LAST,)		8	1851	B Y08 Z10)		22
234	6	090		BWZ	COMP3, LAST-1, 2		8	1859	V Y71 Z09 2		22
235	6	100		B	COMP4		4	1867	B Y83		22
236	6	110	COMP3	C	LAST-2, @?@		7	1871	C Z08 M63		22
237	6	120		BL	COMP		5	1878	B Y08 T		22
238	6	130	COMP4	BCE	COMP1, SX, &		8	1883	B Y19 X73 &		23
239	6	140		MLC	VUM, SX		7	1891	M Z04 X73		23
240	6	150		B	COMP		4	1898	B Y08		23
241	6	160	VUM	DCW	@.UM@		3	1904			23
242	6	170	VCOMP		@)05@		3	1907			23
243	6	180	LAST		#3		3	1910			23
244	6	190	PUTXST	SBR	X1		4	1911	H 089		23
245	6	200		SBR	PTXSX&3, 3&X1		7	1915	H !51 0|3		24
246	6	210		MLC	2&X1, PTXS01&6		7	1922	M 0|2 Z35		24
247	6	220	PTXS01	C	NULL, *		7	1929	C M87 Z35		24

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
248	6	230		BE	PTXSX	5		1936	B !48 S		24
249	6	240		MLC	2&X1,PTXST	7		1941	M 0|2 Z61		24
250	6	250		MLC	2&X1,PTXS03&3	7		1948	M 0|2 !28		25
251	7	010		B	LCST	4		1955	B K77		25
252	7	020	PTXST	DCW	*	3		1961	Z61		25
253	7	030			LOCTN	3		1964	L53		25
254	7	040		MLC	LOCTN,*&14	7		1965	M L53 Z85		25
255	7	050		MLC	LOCTN,*&4	7		1972	M L53 Z82		25
256	7	060		MLNS	*,*	7		1979	D Z85 Z85		25
257	7	070		SBR	LOCTN	4		1986	H L53		26
258	7	080		MLC	@003@,X2	7		1990	M M66 094		26
259	7	090		MLC	LOCTN,PTXS02&3	7		1997	M L53 !14		26
260	7	100		MLZS	@!@,PTXS02&2	7		2004	Y M67 !13		26
261	7	110	PTXS02	MLC	*,PTXSGT	7		2011	M !17 !54		26
262	7	120		B	PUTX	4		2018	B 363		26
263	7	130		DCW	PTXSGT	3		2024	!54		26
264	7	140	PTXS03	C	*,X2	7		2025	C !31 094		27
265	7	150		BE	PTXSX	5		2032	B !48 S		27
266	7	160		A	&3,X2	7		2037	A M68 094		27
267	7	170		B	PTXS02	4		2044	B !11		27
268	7	180	PTXSX	B	*	4		2048	B !51		27
269	7	190	PTXSGT	DCW	#3	3		2054			27
270	7	200	FREE	SBR	X1	4		2055	H 089		27
271	7	210		SBR	FREEX&3,3&X1	7		2059	H J59 0|3		28
272	7	220		MLC	2&X1,FREEST	7		2066	M 0|2 !98		28
273	7	230		MLC	2&X1,X2	7		2073	M 0|2 094		28
274	7	240		C	0&X2,NULL	7		2080	C 0!0 M87		28
275	7	250		BE	FREEX	5		2087	B J56 S		28
276	8	010		B	LCST	4		2092	B K77		28
277	8	020	FREEST	DCW	*	3		2098	!98		29
278	8	030			LOCTN	3		2101	L53		29
279	8	040		MLC	LOCTN,FRE03&6	7		2102	M L53 J29		29
280	8	050		A	0&X2,LOCTN	7		2109	A 0!0 L53		29
281	8	060		MLC	LOCTN,FRE03&3	7		2116	M L53 J26		29
282	8	070	FRE03	MRCM	*,*	7		2123	P J29 J29		29
283	8	080		SBR	FRE04&3	4		2130	H J41		29
284	8	090		SBR	FRE04&6	4		2134	H J44		30
285	8	100	FRE04	MLNS	*,*	7		2138	D J44 J44		30
286	8	110		SBR	ENDST	4		2145	H M57		30
287	8	120		MLC	NULL,0&X2	7		2149	M M87 0!0		30
288	8	130	FREEX	B	*	4		2156	B J59		30
289	8	140	ADSL	SBR	X1	4		2160	H 089		30
290	8	150		SBR	ADSL5&3,6&X1	7		2164	H K76 0|6		30
291	8	160		MLC	2&X1,ADSL1	7		2171	M 0|2 K05		31
292	8	170		MLC	ADSL1,ADSL4&6	7		2178	M K05 K65		31
293	8	180		MLC	5&X1,ADSL3&3	7		2185	M 0|5 K51		31
294	8	190		A	@003@,ADSL1	7		2192	A M66 K05		31
295	8	200		B	LCST	4		2199	B K77		31
296	8	210	ADSL1	DCW	#3	3		2205			31
297	8	220			LOCTN	3		2208	L53		31

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FIX EXIT
STRING 1
STRING1
SYMBOL
LOCATE FIRST OF NEXT STRING

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SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
298	8	230		MLC	ENDST,X1		7	2209	M M57 089		32
299	8	240		SBR	ADSL2&3,0&X1		7	2216	H K44 0|0		32
300	8	250		SBR	ADSL2&6,3&X1		7	2223	H K47 0|3		32
301	9	010		MLC	LOCTN,X1		7	2230	M L53 089		32
302	9	020		SW	0&X1		4	2237	, 0|0		32
303	9	030	ADSL2	MLC	0,0		7	2241	M 000 000		32
304	9	040	ADSL3	MLC	0,2&X1		7	2248	M 000 0|2		33
305	9	050		CW	0&X1		4	2255	) 0|0		33
306	9	060	ADSL4	A	@003@,0		7	2259	A M66 000		33
307	9	070		A	@003@,ENDST		7	2266	A M66 M57		33
308	9	080	ADSL5	B	0		4	2273	B 000		33
309	9	090	*		LOCATION GIVEN IS LEFT				END CHARACTER		
310	9	100	LCST	SBR	X1		4	2277	H 089		33
311	9	110		MLC	2&X1,*&4		7	2281	M 0|2 K91		34
312	9	120		MLC	0,LOCTN		7	2288	M 000 L53		34
313	9	130		SAR	LCST2&3		4	2295	Q L39		34
314	9	140		MLC	BGNST,LOCTN		7	2299	M M60 L53		34
315	9	150	LCST1	C	LCST2&3,&BGNLC		7	2306	C L39 M71		34
316	9	160		BU	LCST2		5	2313	B L36 /		34
317	9	170		MLC	5&X1,*&7		7	2318	M 0|5 L31		35
318	9	180		MLC	LOCTN,*		7	2325	M L53 L31		35
319	9	190		B	6&X1		4	2332	B 0|6		35
320	9	200	LCST2	A	0,LOCTN		7	2336	A 000 L53		35
321	9	210		SAR	LCST2&3		4	2343	Q L39		35
322	9	220		B	LCST1		4	2347	B L06		35
323	9	230	LOCTN	DCW	#3		3	2353			35
324	9	240	GETSX	SBR	GTSEX&3		4	2354	H L71		36
325	9	250		B	GETX		4	2358	B 335		36
326	10	010		DCW	&SX		3	2364	X73		36
327	10	020			&EOJ		3	2367	X57		36
328	10	030	GTSEX	B	*		4	2368	B L71		36
329	10	040	PUTSX	SBR	PTSEX&3		4	2372	H L86		36
330	10	050		B	PUTX		4	2376	B 363		36
331	10	060		DCW	&SX		3	2382	X73		37
332	10	070	PTSEX	B	*		4	2383	B L86		37
333	10	080	GTPTIL	SBR	X1		4	2387	H 089		37
334	10	090		MLC	@P@,GTPSW		7	2391	M M72 M54		37
335	10	100		MLC	X1,GTL5V		7	2398	M 089 M53		37
336	10	110		MLC	2&X1,GTL03&3		7	2405	M 0|2 M19		37
337	10	120	GTL02	B	GETSX		4	2412	B L54		37
338	10	130	GTL03	C	*,SX		7	2416	C M22 X73		38
339	10	140		BE	GTL04		5	2423	B M40 S		38
340	10	150		BCE	PUTSX,GTPSW,P		8	2428	B L72 M54 P		38
341	10	160		B	GTL02		4	2436	B M12		38
342	10	170	GTL04	MLC	GTL5V,X1		7	2440	M M53 089		38
343	10	180		B	3&X1		4	2447	B 0|3		38
344	10	190	GTL5V	DCW	#3		3	2453			38
345	10	200	GTPSW		#1		1	2454			39
346	10	210	ENDST	DCW	RM		3	2457	M88		39
347	10	220	BGNST	DCW	RM		3	2460	M88		39

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
348	10	230		LTORG					2461		
				DCW	@0@		1	2461		LIT	39
					@1@		1	2462		LIT	39
					@?@		1	2463		LIT	39
					@003@		3	2466		LIT	39
					@!@		1	2467		LIT	40
					&3		1	2468		LIT	40
	315				&BGNLC		3	2471	M72	ADCON	40
					@P@		1	2472		LIT	40
349	10	240	BGNLC	EQU	*			2472			
350	10	250	OBJST	DCW	@000@		3	2475			40
351	11	010	RLTST		@000@		3	2478			40
352	11	020	SBJST		@000@		3	2481			40
353	11	030	WORKST		@000@		3	2484			41
354	11	040	NULL		@000@		3	2487			41
355	11	050	RM	DC	@|@		1	2488			41
356	11	060		ORG	3798				3798		
357	11	070		DCW	@}@		1	3798			42
358	11	080		END	START				/ T00 080		43

CLEAR STORAGE 1 ,008015,019026,030,034041,045,053,0570571026 1
 CLEAR STORAGE 2 L068112,102106,113/101099/I99,027A070028)027B0010270B0261,001/001113I0 2
 BOOTSTRAP ,008015,022029,036040,047054,061068,072/061039 ,0010011040 3

1401 COBOL - F03 PAGE 1

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
101	1	010	000	JOB	1401 COBOL - F03						
102	1	020		CTL	631 11						
103	1	030		ORG	1300				1300		
104	1	040	SUPER	EQU	351			0351			
105	1	050	GETX	EQU	335			0335			
106	1	060	PUTX	EQU	363			0363			
107	1	070	X1	EQU	89			0089			
108	1	080	X2	EQU	94			0094			
109	1	090	X3	EQU	99			0099			
110	1	100	RDRFIL	EQU	195			0195			
111	1	110	START	B	GTPTIL	4	1300	B ?59			4
112	1	120		DCW	VPROC	3	1306	K15			4
113	1	130	START1	B	PUTSX	4	1307	B ?44			4
114	1	140	START2	B	GETSX	4	1311	B ?26			4
115	1	150	START3	C	SX,VIF	7	1315	C K18 Z75			4
116	1	160		BE	IF	5	1322	B Y81 S			4
117	1	170		C	SX,VUNTIL	7	1327	C K18 Z78			4
118	1	180		BE	IF	5	1334	B Y81 S			5
119	1	190		C	SX,VNOTE	7	1339	C K18 K21			5
120	1	200		BU	START6	5	1346	B T73 /			5
121	1	210	START5	MLC	SX,TEST	7	1351	M K18 K27			5
122	1	220		B	PUTSX	4	1358	B ?44			5
123	1	230		B	GTPTIL	4	1362	B ?59			5
124	1	240		DCW	TEST	3	1368	K27			5
125	1	250		B	START1	4	1369	B T07			6
126	2	010	START6	C	SX,VAC	7	1373	C K18 K24			6
127	2	020		BE	START5	5	1380	B T51 S			6
128	2	030		C	SX,VREAD	7	1385	C K18 J64			6
129	2	040		BE	READ	5	1392	B U20 S			6
130	2	050		C	SX,VPRFM	7	1397	C K18 J67			6
131	2	060		BU	START1	5	1404	B T07 /			7
132	2	070		MLC	@1@,PRFMSW	7	1409	M A33 J61			7
133	2	080		B	START1	4	1416	B T07			7
134	2	090	READ	B	PUTSX	4	1420	B ?44			7
135	2	100		B	GETX	4	1424	B 335			7
136	2	110		DCW	FILNM	3	1430	J70			7
137	2	120			EOJ	3	1433	Z79			7
138	2	130		B	GNLBL	4	1434	B K34			8
139	2	140		DCW	GL1	3	1440	J73			8
140	2	150		B	FOS	4	1441	B O76			8
141	2	160		DCW	RDFNST	3	1447	A61			8
142	2	170			FILNM	3	1450	J70			8
143	2	180			FNPOS	3	1453	J82			8
144	2	190		C	FNPOS, NULL	7	1454	C J82 A64			8
145	2	200		BU	READ2	5	1461	B V44 /			9
146	2	210		B	GNLBL	4	1466	B K34			9
147	2	220		DCW	GL2	3	1472	J76			9

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	2	230		B	GNLBL		4	1473	B K34		9
149	2	240		DCW	GL3		3	1479	J79		9
150	2	250		MLC	NULL,ENDYET		7	1480	M A64 J85		9
151	3	010		B	ADSL		4	1487	B Q32		9
152	3	020		DCW	RDFNST		3	1493	A61		10
153	3	030			FILNM		3	1496	J70		10
154	3	040		B	ADSL		4	1497	B Q32		10
155	3	050		DCW	RDFNST		3	1503	A61		10
156	3	060			GL2		3	1506	J76		10
157	3	070		B	ADSL		4	1507	B Q32		10
158	3	080		DCW	RDFNST		3	1513	A61		10
159	3	090		DCW	GL3		3	1516	J79		11
160	3	100		B	ADSL		4	1517	B Q32		11
161	3	110		DCW	RDFNST		3	1523	A61		11
162	3	120			ENDYET		3	1526	J85		11
163	3	130		B	FOS		4	1527	B O76		11
164	3	140		DCW	RDFNST		3	1533	A61		11
165	3	150		DCW	FILNM		3	1536	J70		11
166	3	160			FNPOS		3	1539	J82		12
167	3	170		B	READ3		4	1540	B W11		12
168	3	180	READ2	MLC	FNPOS,GT1		7	1544	M J82 J88		12
169	3	190		A	&1,GT1		7	1551	A A34 J88		12
170	3	200		B	GTNS		4	1558	B N07		12
171	3	210		DCW	RDFNST		3	1564	A61		12
172	3	220			GT1		3	1567	J88		12
173	3	230			GL2		3	1570	J76		13
174	3	240		A	&1,GT1		7	1571	A A34 J88		13
175	3	250		B	GTNS		4	1578	B N07		13
176	4	010		DCW	RDFNST		3	1584	A61		13
177	4	020			GT1		3	1587	J88		13
178	4	030			GL3		3	1590	J79		13
179	4	040		A	&1,GT1		7	1591	A A34 J88		13
180	4	050		B	GTNS		4	1598	B N07		14
181	4	060		DCW	RDFNST		3	1604	A61		14
182	4	070			GT1		3	1607	J88		14
183	4	080			ENDYET		3	1610	J85		14
184	4	090	READ3	B	PUTX		4	1611	B 363		14
185	4	100		DCW	FILNM		3	1617	J70		14
186	4	110		B	PUTX		4	1618	B 363		14
187	4	120		DCW	GL1		3	1624	J73		15
188	4	130	READ4	B	GETSX		4	1625	B ?26		15
189	4	140	READ4A	C	SX,VRECD		7	1629	C K18 J91		15
190	4	150		BE	READ4		5	1636	B W25 S		15
191	4	160		C	RDRFIL,FILNM		7	1641	C 195 J70		15
192	4	170		BU	READ5		5	1648	B W67 /		15
193	4	180		B	PUTX		4	1653	B 363		15
194	4	190		DCW	VGMMV		3	1659	J94		16
195	4	200		B	PUTX		4	1660	B 363		16
196	4	210		DCW	FILNM		3	1666	J70		16
197	4	220	READ5	C	SX,VINTO		7	1667	C K18 J97		16

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
198	4	230		BU	READ6		5	1674	B X54 /		16
199	4	240		B	GETX		4	1679	B 335		16
200	4	250		DCW	AREA		3	1685	K12		16
201	5	010			EOJ		3	1688	Z79		17
202	5	020		B	PUTX		4	1689	B 363		17
203	5	030		DCW	VMOVE		3	1695	K00		17
204	5	040		B	PUTX		4	1696	B 363		17
205	5	050		DCW	FILNM		3	1702	J70		17
206	5	060		B	PUTX		4	1703	B 363		17
207	5	070		DCW	AREA		3	1709	K12		17
208	5	080	READ5B	B	GETSX		4	1710	B ?26		18
209	5	090		C	SX, VSBSC		7	1714	C K18 K30		18
210	5	100		BU	READ6		5	1721	B X54 /		18
211	5	110	READ5A	B	PUTSX		4	1726	B ?44		18
212	5	120		C	SX, VRP		7	1730	C K18 K33		18
213	5	130		BE	READ5B		5	1737	B X10 S		18
214	5	140		B	GETSX		4	1742	B ?26		18
215	5	150		B	READ5A		4	1746	B X26		19
216	5	160		B	READ4		4	1750	B W25		19
217	5	170	READ6	C	SX, VEND		7	1754	C K18 K09		19
218	5	180		BU	READ8		5	1761	B Y23 /		19
219	5	190		C	ENDYET, NULL		7	1766	C J85 A64		19
220	5	200		BU	READ7		5	1773	B Y09 /		19
221	5	210		MLC	FNPOS, GT1		7	1778	M J82 J88		19
222	5	220		A	&3, GT1		7	1785	A A35 J88		20
223	5	230		B	RPNSP		4	1792	B L97		20
224	5	240		DCW	RDFNST		3	1798	A61		20
225	5	250			GT1		3	1801	J88		20
226	6	010			V1		3	1804	K06		20
227	6	020		B	READ8		4	1805	B Y23		20
228	6	030	READ7	B	GNLBL		4	1809	B K34		20
229	6	040		DCW	GL2		3	1815	J76		21
230	6	050		B	GNLBL		4	1816	B K34		21
231	6	060		DCW	GL3		3	1822	J79		21
232	6	070	READ8	B	PUTX		4	1823	B 363		21
233	6	080		DCW	VRLINK		3	1829	K03		21
234	6	090		B	PUTX		4	1830	B 363		21
235	6	100		DCW	GL1		3	1836	J73		21
236	6	110		B	PUTX		4	1837	B 363		22
237	6	120		DCW	GL2		3	1843	J76		22
238	6	130		B	PUTX		4	1844	B 363		22
239	6	140		DCW	GL3		3	1850	J79		22
240	6	150		C	SX, VEND		7	1851	C K18 K09		22
241	6	160		BU	START1		5	1858	B T07 /		22
242	6	170		B	PUTX		4	1863	B 363		22
243	6	180		DCW	GL2		3	1869	J76		23
244	6	190		B	PUTX		4	1870	B 363		23
245	6	200		DCW	GL3		3	1876	J79		23
246	6	210		B	START1		4	1877	B T07		23
247	6	220	IF	B	PUTSX		4	1881	B ?44		23

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
248	6	230		MLC	SX, LAST	7		1885	M K18 Z72		23
249	6	240		B	GETSX	4		1892	B ?26		23
250	6	250		BCE	START3, SX-2,)	8		1896	B T15 K16)		24
251	7	010		BCE	IF1, SX, &	8		1904	B Z24 K18 &		24
252	7	020		BCE	IF1, SX, -	8		1912	B Z24 K18 -		24
253	7	030		B	IF	4		1920	B Y81		24
254	7	040	IF1	BCE	IF, LAST,)	8		1924	B Y81 Z72)		24
255	7	050		BWZ	IF2, LAST-1, 2	8		1932	V Z44 Z71 2		25
256	7	060		B	IF	4		1940	B Y81		25
257	7	070	IF2	C	LAST-2, @?@	7		1944	C Z70 A36		25
258	7	080		BL	IF	5		1951	B Y81 T		25
259	7	090		MLC	VUM, SX	7		1956	M Z69 K18		25
260	7	100		B	IF	4		1963	B Y81		25
261	7	110	VUM	DCW	@.UM@	3		1969			25
262	7	120	LAST		#3	3		1972			26
263	7	130	VIF		@)19@	3		1975			26
264	7	140	VUNTIL		@*18@	3		1978			26
265	7	150	EOJ	C	RDFNST, NULL	7		1979	C A61 A64		26
266	7	160		BE	EOJ5	5		1986	B !54 S		26
267	7	170		B	LCST	4		1991	B R49		26
268	7	180		DCW	RDFNST	3		1997	A61		26
269	7	190			X2	3		2000	094		27
270	7	200		MLC	NULL, GT1	7		2001	M A64 J88		27
271	7	210	EOJ1	A	&12, GT1	7		2008	A A38 J88		27
272	7	220		C	11&X2, NULL	7		2015	C 0J1 A64		27
273	7	230	EOJ2	BE	RDDG	5		2022	B !80 S		27
274	7	240	EOJ3	C	RDFNST, GT1	7		2027	C A61 J88		27
275	7	250		BE	EOJ4	5		2034	B !50 S		28
276	8	010		A	&12, X2	7		2039	A A38 094		28
277	8	020		B	EOJ1	4		2046	B !08		28
278	8	030	EOJ4	NOP	DG3	4		2050	N J35		28
279	8	040	EOJ5	B	PUTSX	4		2054	B ?44		28
280	8	050		BCE	EOJ6, PRFMSW, 0	8		2058	B !73 J61 0		28
281	8	060		B	SUPER	4		2066	B 351		28
282	8	070		DCW	@F04@	3		2072			29
283	8	080	EOJ6	B	SUPER	4		2073	B 351		29
284	8	090		DCW	@G01@	3		2079			29
285	8	100	RDDG	B	PUTX	4		2080	B 363		29
286	8	110	RDDGSY	DCW	FST	3		2086	J48		29
287	8	120		C	RDDGSY, &ENDED	7		2087	C !86 A41		29
288	8	130		BE	RDDG01	5		2094	B J10 S		29
289	8	140		A	&3, RDDGSY	7		2099	A A35 !86		30
290	8	150		B	RDDG	4		2106	B !80		30
291	8	160	RDDG01	MLC	&DG2, EOJ2&3	7		2110	M A44 !25		30
292	8	170		MLC	@B@, EOJ4	7		2117	M A45 !50		30
293	8	180	DG2	B	PUTX	4		2124	B 363		30
294	8	190		DCW	@0!2@	3		2130			30
295	8	200		B	EOJ3	4		2131	B !27		30
296	8	210	DG3	B	PUTX	4		2135	B 363		31
297	8	220		DCW	VNOTE	3		2141	K21		31

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
298	8	230		B	EOJ5		4	2142	B !54		31
299	8	240	FST	DCW	@#DC@		3	2148			31
300	8	250	ENDED	DC	@***FOA#DC*24@		12	2160			31
301	9	010	PRFMSW	DCW	@0@		1	2161			31
302	9	020	VREAD		@)13@		3	2164			31
303	9	030	VPRFM		@)03@		3	2167			31
304	9	040	FILNM		#3		3	2170			32
305	9	050	GL1		#3		3	2173			32
306	9	060	GL2		#3		3	2176			32
307	9	070	GL3		#3		3	2179			32
308	9	080	FNPOS		#3		3	2182			32
309	9	090	ENDYET		#3		3	2185			32
310	9	100	GT1		#3		3	2188			32
311	9	110	VRECD		@/11@		3	2191			33
312	9	120	VGMMV		@*36@		3	2194			33
313	9	130	VINTO		@*27@		3	2197			33
314	9	140	VMOVE		@)15@		3	2200			33
315	9	150	VRLINK	DCW	@.RK@		3	2203			33
316	9	160	V1	DCW	@001@		3	2206			33
317	9	170	VEND	DCW	@)17@		3	2209			33
318	9	180	AREA	DCW	#3		3	2212			34
319	9	190	VPROC	DCW	@*01@		3	2215			34
320	9	200	SX		#3		3	2218			34
321	9	210	VNOTE		@*24@		3	2221			34
322	9	220	VAC		@#DC@		3	2224			34
323	9	230	TEST		#3		3	2227			34
324	9	240	VSBSC	DCW	@.SB@		3	2230			34
325	9	250	VRP	DCW	@)@		3	2233			35
326	10	010	GNLBL	SBR	X1		4	2234	H 089		35
327	10	020		MLC	2&X1,GNLBMV&6	MOVE-IN ADDR. OF ANSWER	7	2238	M 0|2 K84		35
328	10	030		MLC	X3,GNLBSV	SAVE REGISTERS	7	2245	M 099 L90		35
329	10	040		MLC			1	2252	M		35
330	10	050		MLC			1	2253	M		35
331	10	060		MLC	GNLPTR,X3	MOVE-IN POINTERS	7	2254	M S36 099		35
332	10	070		MLC			1	2261	M		36
333	10	080		MLC			1	2262	M		36
334	10	090		A	&1,X3	BUMP UNITS POINTER	7	2263	A A34 099		36
335	10	100		BCE	GNL01,0&X3,|	UNITS OVERFLOW	8	2270	B L15 0?0 |		36
336	10	110	GNLBMV	MLC	0&X3,*	MOVE-OUT ANSWER	7	2278	M 0?0 K84		36
337	10	120		MLC	0&X2		4	2285	M 0!0		36
338	10	130		MLC	0&X1		4	2289	M 0|0		36
339	10	140		MLC	X3,GNLPTR		7	2293	M 099 S36		37
340	10	150		MLC			1	2300	M		37
341	10	160		MLC			1	2301	M		37
342	10	170		MLC	GNLBSV,X3	RESTORE REGISTERS	7	2302	M L90 099		37
343	10	180		MLC			1	2309	M		37
344	10	190		MLC			1	2310	M		37
345	10	200		B	3&X1	EXIT	4	2311	B 0|3		37
346	10	210	GNL01	MLC	GNLZE,X3	REINIT. UNITS POINTER	7	2315	M L96 099		38
347	10	220		A	&1,X2	BUMP TENS POINTER	7	2322	A A34 094		38

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
348	10	230		BCE	GNL02,0&X2,		8	2329	B L41 0|0		38
349	10	240		B	GNLBMV		4	2337	B K78		38
350	10	250	GNL02	MLC	GNLA,X2		7	2341	M L93 094		38
351	11	010		A	&1,X1		7	2348	A A34 089		39
352	11	020		BCE	GNL03,0&X1,		8	2355	B L67 0|0		39
353	11	030		B	GNLBMV		4	2363	B K78		39
354	11	040	GNL03	MLC	GNLA,X1		7	2367	M L93 089		39
355	11	050		B	GNLBMV		4	2374	B K78		39
356	11	060	GNLBSV	DCW	#13		13	2390			40
357	11	070	GNLA		@/60@		3	2393			40
358	11	080	GNLZE		@S00@		3	2396			40
359	11	090	GNLPTR	EQU	1236			1236			
360	11	100	RPNSP	SBR	X1		4	2397	H 089		40
361	11	110		SBR	RPNEX&3,9&X1		7	2401	H N03 0|9		40
362	11	120		MLC	8&X1,RPNSYM&3		7	2408	M 0|8 M96		40
363	11	130		MLC	5&X1,RPNPTR		7	2415	M 0|5 M57		41
364	11	140		MLC	2&X1,X1		7	2422	M 0|2 089		41
365	11	150		C	0&X1,NULL		7	2429	C 0|0 A64		41
366	11	160		BE	RPNEX	NO STRING	5	2436	B N00 S		41
367	11	170		MLC	X1,RPNST		7	2441	M 089 M54		41
368	11	180		B	GTNS	USE GTNS TO SET UP ADDRESS	4	2448	B N07		41
369	11	190	RPNST	DCW	*		3	2454	M54		42
370	11	200	RPNPTR	DCW	*		3	2457	M57		42
371	11	210		DCW	RPNGT		3	2460	N06		42
372	11	220		MLC	LOCTN,X1		7	2461	M ?25 089		42
373	11	230		MLZS	0&X1,0&X1		7	2468	Y 0|0 0|0		42
374	11	240		SBR	X1		4	2475	H 089		42
375	11	250		MLC	GTNNTH,RPNSYM&6		7	2479	M 075 M99		42
376	12	010		MLZS	RPNSP&9,RPNSYM&5		7	2486	Y M06 M98		43
377	12	020	RPNSYM	MLC	*,*		7	2493	M M99 M99		43
378	12	030	RPNEX	B	*		4	2500	B N03		43
379	12	040	RPNGT	DCW	#3		3	2506			43
380	12	050	*		THE ABOVE ROUTINE REQUIRES GTNS AND LCST.						
381	12	060	GTNS	SBR	X1		4	2507	H 089		43
382	12	070		SBR	GTNEX&3,9&X1		7	2511	H 054 0|9		43
383	12	080		MLC	8&X1,GTNANS&6		7	2518	M 0|8 050		43
384	12	090		MLC	5&X1,GTNNTH		7	2525	M 0|5 075		44
385	12	100		MLC	2&X1,X1		7	2532	M 0|2 089		44
386	12	110		C	0&X1,NULL		7	2539	C 0|0 A64		44
387	12	120		BE	GTNNFD	NO STRING	5	2546	B 055 S		44
388	12	130		MLC	GTNNTH,*&4		7	2551	M 075 N61		44
389	12	140		MLC	*,GTNST	POINTER	7	2558	M N64 008		45
390	12	150		MLC	GTNST,GTNNTH		7	2565	M 008 075		45
391	12	160		A	GTNNTH		4	2572	A 075		45
392	12	170		A	GTNST,GTNNTH	CHARACTER-COUNT POINTER	7	2576	A 008 075		45
393	12	180		C	GTNNTH,0&X1		7	2583	C 075 0|0		45
394	12	190		BL	GTNNFD	SYMBOL BEYOND STRING	5	2590	B 055 T		45
395	12	200		MLC	X1,GTNST		7	2595	M 089 008		46
396	12	210		B	LCST		4	2602	B R49		46
397	12	220	GTNST	DCW	*		3	2608	O08		46

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
398	12	230		DCW	LOCTN		3	2611	?25		46
399	12	240		MLC	LOCTN,X1		7	2612	M ?25 089		46
400	12	250		MLZS	0&X1,0&X1		7	2619	Y 0|0 0|0		46
401	13	010		SBR	X1		4	2626	H 089		46
402	13	020		MLC	GTNNTH,GTNANS&3		7	2630	M 075 047		47
403	13	030		MLZS	GTNS&9,GTNANS&2		7	2637	Y N16 046		47
404	13	040	GTNANS	MLC	*,*		7	2644	M 050 050		47
405	13	050	GTNEX	B	*		4	2651	B 054		47
406	13	060	GTNNFD	MLC	NULL,X1		7	2655	M A64 089		47
407	13	070		MLC	NULL,GTNNTH		7	2662	M A64 075		47
408	13	080		B	GTNANS		4	2669	B 044		48
409	13	090	GTNNTH	DCW	#3		3	2675			48
410	13	100	FOS	SBR	X1		4	2676	H 089		48
411	13	110		SBR	FOSEX&3,9&X1		7	2680	H Q17 0|9		48
412	13	120		MLC	8&X1,FOSFND&6		7	2687	M 0|8 Q13		48
413	13	130		MLC	5&X1,FOSTES&6		7	2694	M 0|5 P83		48
414	13	140		MLC	2&X1,X1		7	2701	M 0|2 089		48
415	13	150		C	0&X1,NULL		7	2708	C 0|0 A64		49
416	13	160		BE	FOSNFD	NO STRING	5	2715	B Q18 S		49
417	13	170		MLC	X1,FOSST		7	2720	M 089 P33		49
418	13	180		B	LCST		4	2727	B R49		49
419	13	190	FOSST	DCW	*		3	2733	P33		49
420	13	200		DCW	FOSTES&3		3	2736	P80		49
421	13	210		MLZS	FOS&9,FOSTES&2		7	2737	Y 085 P79		49
422	13	220		MLC	@001@,FOSCNT		7	2744	M A48 Q31		50
423	13	230		MLC	@002@,X1		7	2751	M A51 089		50
424	13	240		MLC	FOSST,*&7		7	2758	M P33 P71		50
425	13	250	FOSTST	C	X1,*		7	2765	C 089 P71		50
426	14	010		BL	FOSNFD	STRING HAS BEEN SEARCHED	5	2772	B Q18 T		50
427	14	020	FOSTES	C	*,*		7	2777	C P83 P83		51
428	14	030		BE	FOSFND		5	2784	B Q07 S		51
429	14	040		A	&1,FOSCNT		7	2789	A A34 Q31		51
430	14	050		A	&3,X1		7	2796	A A35 089		51
431	14	060		B	FOSTST		4	2803	B P65		51
432	14	070	FOSFND	MLC	FOSCNT,*		7	2807	M Q31 Q13		51
433	14	080	FOSEX	B	*	EXIT	4	2814	B Q17		52
434	14	090	FOSNFD	MLC	NULL,FOSCNT		7	2818	M A64 Q31		52
435	14	100		B	FOSFND		4	2825	B Q07		52
436	14	110	FOSCNT	DCW	#3		3	2831			52
437	14	120	ADSL	SBR	X1		4	2832	H 089		52
438	14	130		SBR	ADSL5&3,6&X1	FIX EXIT	7	2836	H R48 0|6		52
439	14	140		MLC	2&X1,ADSL1	STRING 1	7	2843	M 0|2 Q77		52
440	14	150		MLC	ADSL1,ADSL4&6	STRING1	7	2850	M Q77 R37		53
441	14	160		MLC	5&X1,ADSL3&3	SYMBOL	7	2857	M 0|5 R23		53
442	14	170		A	@003@,ADSL1		7	2864	A A54 Q77		53
443	14	180		B	LCST	LOCATE FIRST OF NEXT STRING	4	2871	B R49		53
444	14	190	ADSL1	DCW	#3		3	2877			53
445	14	200			LOCTN		3	2880	?25		53
446	14	210		MLC	ENDST,X1	SET OPENER	7	2881	M A29 089		53
447	14	220		SBR	ADSL2&3,0&X1		7	2888	H R16 0|0		54

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
448	14	230		SBR	ADSL2&6,3&X1	7		2895	H R19 0|3		54
449	14	240		MLC	LOCTN,X1	7		2902	M ?25 089		54
450	14	250		SW	0&X1	4		2909	, 0|0		54
451	15	010	ADSL2	MLC	0,0	7		2913	M 000 000		54
452	15	020	ADSL3	MLC	0,2&X1	7		2920	M 000 0|2		54
453	15	030		CW	0&X1	4		2927	) 0|0		55
454	15	040	ADSL4	A	@003@,0	7		2931	A A54 000		55
455	15	050		A	@003@,ENDST	7		2938	A A54 A29		55
456	15	060	ADSL5	B	0	4		2945	B 000		55
457	15	070	*		LOCATION GIVEN IS LEFT END CHARACTER						
458	15	080	LCST	SBR	X1	4		2949	H 089		55
459	15	090		MLC	2&X1,*&4	7		2953	M 0|2 R63		55
460	15	100		MLC	0,LOCTN	7		2960	M 000 ?25		56
461	15	110		SAR	LCST2&3	4		2967	Q ?11		56
462	15	120		MLC	BGNST,LOCTN	7		2971	M A32 ?25		56
463	15	130	LCST1	C	LCST2&3,&BGNLC	7		2978	C ?11 A57		56
464	15	140		BU	LCST2	5		2985	B ?08 /		56
465	15	150		MLC	5&X1,*&7	7		2990	M 0|5 ?03		56
466	15	160		MLC	LOCTN,*	7		2997	M ?25 ?03		57
467	15	170		B	6&X1	4		3004	B 0|6		57
468	15	180	LCST2	A	0,LOCTN	7		3008	A 000 ?25		57
469	15	190		SAR	LCST2&3	4		3015	Q ?11		57
470	15	200		B	LCST1	4		3019	B R78		57
471	15	210	LOCTN	DCW	#3	3		3025			57
472	15	220	GETSX	SBR	GTSEX&3	4		3026	H ?43		57
473	15	230		B	GETX	4		3030	B 335		58
474	15	240		DCW	&SX	3		3036	K18		58
475	15	250			&EOJ	3		3039	Z79		58
476	16	010	GTSEX	B	*	4		3040	B ?43		58
477	16	020	PUTSX	SBR	PTSEX&3	4		3044	H ?58		58
478	16	030		B	PUTX	4		3048	B 363		58
479	16	040		DCW	&SX	3		3054	K18		58
480	16	050	PTSEX	B	*	4		3055	B ?58		59
481	16	060	GTPTIL	SBR	X1	4		3059	H 089		59
482	16	070		MLC	@P@,GTPSW	7		3063	M A58 A26		59
483	16	080		MLC	X1,GTLSV	7		3070	M 089 A25		59
484	16	090		MLC	2&X1,GTL03&3	7		3077	M 0|2 ?91		59
485	16	100	GTL02	B	GETSX	4		3084	B ?26		59
486	16	110	GTL03	C	*,SX	7		3088	C ?94 K18		60
487	16	120		BE	GTL04	5		3095	B A12 S		60
488	16	130		BCE	PUTSX,GTPSW,P	8		3100	B ?44 A26 P		60
489	16	140		B	GTL02	4		3108	B ?84		60
490	16	150	GTL04	MLC	GTLSV,X1	7		3112	M A25 089		60
491	16	160		B	3&X1	4		3119	B 0|3		60
492	16	170	GTLSV	DCW	#3	3		3125			60
493	16	180	GTPSW		#1	1		3126			61
494	16	190	ENDST	DCW	RM	3		3129	A65		61
495	16	200	BGNST	DCW	RM	3		3132	A65		61
496	16	210		LTORG					3133		
				DCW	@1@	1		3133		LIT	61

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
					&1		1	3134		LIT	61
					&3		1	3135		LIT	61
					@?@		1	3136		LIT	61
					&12		2	3138		LIT	62
		287			&ENDED		3	3141	J60	ADCON	62
		291			&DG2		3	3144	J24	ADCON	62
					@B@		1	3145		LIT	62
					@001@		3	3148		LIT	62
					@002@		3	3151		LIT	62
					@003@		3	3154		LIT	62
		463			&BGNLC		3	3157	A58	ADCON	63
					@P@		1	3158		LIT	63
					*			3158			
497	16	220	BGNLC	EQU							
498	16	230	RDFNST	DCW	@000@		3	3161			63
499	16	240	NULL		@000@		3	3164			63
500	16	250	RM	DC	@|@		1	3165			63
501	17	010		ORG	3798				3798		
502	17	020		DCW	@}@		1	3798			64
503	17	030		END	START				/ T00 080		65

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CLEAR STORAGE 1      ,008015,019026,030,034041,045,053,0570571026      1
CLEAR STORAGE 2      L068112,102106,113/101099/I99,027A070028)027B0010270B0261,001/001113I0      2
BOOTSTRAP            ,008015,022029,036040,047054,061068,072/061039      ,0010011040      3

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1401 COBOL - F04 PAGE 1

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
101	1	010	000	JOB	1401 COBOL - F04						
102	1	020		CTL	631 11						
103	1	030		ORG	1300				1300		
104	1	040	GETX	EQU	335			0335			
105	1	050	PUTX	EQU	363			0363			
106	1	060	SUPER	EQU	351			0351			
107	1	070	X1	EQU	89			0089			
108	1	080	X2	EQU	94			0094			
109	1	090	X3	EQU	99			0099			
110	1	100	START	CS	0	4		1300	/ 000		4
111	1	110		SBR	X3	4		1304	H 099		4
112	1	120		BCE	ST16,X3,I	8		1308	B T43 099 I		4
113	1	130		BCE	ST12,X3,R	8		1316	B T54 099 R		4
114	1	140		BCE	ST8,X3,Z	8		1324	B T65 099 Z		4
115	1	150		MLC	&GM,X3	7		1332	M Z07 099		4
116	1	160		B	STARTA	4		1339	B T72		5
117	1	170	ST16	SBR	X3,15396	7		1343	H 099 C9F		5
118	1	180		B	STARTA	4		1350	B T72		5
119	1	190	ST12	SBR	X3,11396	7		1354	H 099 C9O		5
120	1	200		B	STARTA	4		1361	B T72		5
121	1	210	ST8	SBR	X3,7636	7		1365	H 099 F3W		5
122	1	220	STARTA	MLC	X3,1289	7		1372	M 099 S89		6
123	1	230	START1	B	GETSX	4		1379	B Y04		6
124	1	240	START2	C	SX,VLBL	7		1383	C W22 W40		6
125	1	250		BE	LABEL	5		1390	B U15 S		6
126	2	010		C	SX,VPFRM	7		1395	C W22 W19		6
127	2	020		BE	PRFRM	5		1402	B U26 S		6
128	2	030	START3	B	PUTSX	4		1407	B Y22		6
129	2	040		B	START1	4		1411	B T79		7
130	2	050	LABEL	A	&1,LBLCNT	7		1415	A Z08 W16		7
131	2	060		B	START3	4		1422	B U07		7
132	2	070	PRFRM	B	PUTSX	4		1426	B Y22		7
133	2	080		B	GETX	4		1430	B 335		7
134	2	090		DCW	FIRST	3		1436	W25		7
135	2	100			EOJ	3		1439	V69		7
136	2	110		B	PUTX	4		1440	B 363		8
137	2	120		DCW	FIRST	3		1446	W25		8
138	2	130		MLC	NULL, LASTN	7		1447	M W31 W28		8
139	2	140		B	GETSX	4		1454	B Y04		8
140	2	150		C	SX,VTHRU	7		1458	C W22 W34		8
141	2	160		BU	PERF1	5		1465	B U88 /		8
142	2	170		B	PUTSX	4		1470	B Y22		8
143	2	180		B	GETX	4		1474	B 335		9
144	2	190		DCW	LASTN	3		1480	W28		9
145	2	200			EOJ	3		1483	V69		9
146	2	210		B	GETSX	4		1484	B Y04		9
147	2	220	PERF1	C	LASTN, NULL	7		1488	C W28 W31		9

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	2	230		BU	PERF2		5	1495	B V14 /		9
149	2	240		MLC	FIRST, LASTN		7	1500	M W25 W28		9
150	2	250		B	PUTX		4	1507	B 363		10
151	3	010		DCW	VTHRU		3	1513	W34		10
152	3	020	PERF2	B	GNLBL		4	1514	B W41		10
153	3	030		DCW	PFLBL		3	1520	W37		10
154	3	040		B	PUTX		4	1521	B 363		10
155	3	050		DCW	PFLBL		3	1527	W37		10
156	3	060		B	GNLBL		4	1528	B W41		10
157	3	070		DCW	PFLBL2		3	1534	V48		11
158	3	080		B	PUTX		4	1535	B 363		11
159	3	090		DCW	PFLBL2		3	1541	V48		11
160	3	100		B	BUILD	PFLBL & LASTN	4	1542	B V80		11
161	3	110	PFLBL2	DCW	#3		3	1548			11
162	3	120	PERF3	C	SX, VPFRM		7	1549	C W22 W19		11
163	3	130		BE	PRFRM		5	1556	B U26 S		11
164	3	140		B	PUTSX		4	1561	B Y22		12
165	3	150		B	START1		4	1565	B T79		12
166	3	160	EOJ	B	PUTSX		4	1569	B Y22		12
167	3	170		B	SUPER		4	1573	B 351		12
168	3	180		DCW	@F05@		3	1579			12
169	3	190	BUILD	MLCWA	LASTN, 0&X3		7	1580	L W28 0?0		12
170	3	200		MLCWA	LBLCNT		4	1587	L W16		12
171	3	210		MLCWA	PFLBL		4	1591	L W37		13
172	3	220		MLCWA	PFLBL2		4	1595	L V48		13
173	3	230		SBR	X3		4	1599	H 099		13
174	3	240		MLC	@|@, 0&X3		7	1603	M Z09 0?0		13
175	3	250		B	PERF3		4	1610	B V49		13
176	4	010	LBLCNT	DCW	@001@		3	1616			13
177	4	020	VPFRM	DCW	@)03@		3	1619			13
178	4	030	SX		#3		3	1622			14
179	4	040	FIRST		#3		3	1625			14
180	4	050	LASTN		#3		3	1628			14
181	4	060	NULL		@000@		3	1631			14
182	4	070	VTHRU		@*08@		3	1634			14
183	4	080	PFLBL		#3		3	1637			14
184	4	090	VLBL	DCW	@.LB@		3	1640			14
185	4	100	GNLBL	SBR	X1		4	1641	H 089		15
186	4	110		MLC	2&X1, GNLMV&6	MOVE-IN ADDR. OF ANSWER	7	1645	M 0|2 W91		15
187	4	120		MLC	X3, GNLSV	SAVE REGISTERS	7	1652	M 099 X97		15
188	4	130		MLC			1	1659	M		15
189	4	140		MLC			1	1660	M		15
190	4	150		MLC	GNLPTR, X3	MOVE-IN POINTERS	7	1661	M S36 099		15
191	4	160		MLC			1	1668	M		15
192	4	170		MLC			1	1669	M		16
193	4	180		A	&1, X3	BUMP UNITS POINTER	7	1670	A Z08 099		16
194	4	190		BCE	GNL01, 0&X3, |	UNITS OVERFLOW	8	1677	B X22 0?0 |		16
195	4	200	GNLBMV	MLC	0&X3, *	MOVE-OUT ANSWER	7	1685	M 0?0 W91		16
196	4	210		MLC	0&X2		4	1692	M 0!0		16
197	4	220		MLC	0&X1		4	1696	M 0|0		16

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
198	4	230		MLC	X3 ,GNLPTR		7	1700	M 099 S36		16
199	4	240		MLC			1	1707	M		17
200	4	250		MLC			1	1708	M		17
201	5	010		MLC	GNLBSV,X3	RESTORE	7	1709	M X97 099		17
202	5	020		MLC			1	1716	M		17
203	5	030		MLC			1	1717	M		17
204	5	040		B	3&X1	EXIT	4	1718	B 0|3		17
205	5	050	GNL01	MLC	GNLZE,X3	REINIT. UNITS POINTER	7	1722	M Y03 099		17
206	5	060		A	&1,X2	BUMP TENS POINTER	7	1729	A Z08 094		18
207	5	070		BCE	GNL02,0&X2,	TENS OVERFLOW	8	1736	B X48 0|0		18
208	5	080		B	GNLBMV		4	1744	B W85		18
209	5	090	GNL02	MLC	GNLA,X2	REINIT. TENS POINTER	7	1748	M Y00 094		18
210	5	100		A	&1,X1	BUMP HUNDREDS POINTER	7	1755	A Z08 089		18
211	5	110		BCE	GNL03,0&X1,	HUNDREDS OVERFLOW	8	1762	B X74 0|0		19
212	5	120		B	GNLBMV		4	1770	B W85		19
213	5	130	GNL03	MLC	GNLA,X1	REINIT. HUNDREDS POINTER	7	1774	M Y00 089		19
214	5	140		B	GNLBMV		4	1781	B W85		19
215	5	150	GNLBSV	DCW	#13		13	1797			19
216	5	160	GNLA		@/60@		3	1800			19
217	5	170	GNLZE		@S00@		3	1803			20
218	5	180	GNLPTR	EQU	1236			1236			
219	5	190	GETSX	SBR	GTSEX&3	GETSX	4	1804	H Y21		20
220	5	200		B	GETX		4	1808	B 335		20
221	5	210		DCW	&SX		3	1814	W22		20
222	5	220			&EOJ		3	1817	V69		20
223	5	230	GTSEX	B	*		4	1818	B Y21		20
224	5	240	PUTSX	SBR	PTSEX&3	PUTSX	4	1822	H Y36		20
225	5	250		B	PUTX		4	1826	B 363		21
226	6	010		DCW	&SX		3	1832	W22		21
227	6	020	PTSEX	B	*		4	1833	B Y36		21
228	6	030	GTPTIL	SBR	X1	GTPTIL	4	1837	H 089		21
229	6	040		MLC	@P@,GTPSW		7	1841	M Z10 Z04		21
230	6	050		MLC	X1,GTLSV		7	1848	M 089 Z03		21
231	6	060		MLC	2&X1,GTL03&3		7	1855	M 0|2 Y69		21
232	6	070	GTL02	B	GETSX		4	1862	B Y04		22
233	6	080	GTL03	C	*,SX		7	1866	C Y72 W22		22
234	6	090		BE	GTL04		5	1873	B Y90 S		22
235	6	100		BCE	PUTSX,GTPSW,P		8	1878	B Y22 Z04 P		22
236	6	110		B	GTL02		4	1886	B Y62		22
237	6	120	GTL04	MLC	GTLSV,X1		7	1890	M Z03 089		22
238	6	130		B	3&X1		4	1897	B 0|3		22
239	6	140	GTLSV	DCW	#3		3	1903			23
240	6	150	GTPSW		#1		1	1904			23
241	6	160		LTORG					1905		
		115		DCW	&GM		3	1907	G98	ADCON	23
					&1		1	1908		LIT	23
					@|@		1	1909		LIT	23
					@P@		1	1910		LIT	23
242	6	170		ORG	3798				3798		
243	6	180	GM	DCW	@}@		1	3798			24

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
244	6	190		END	START				/ T00 080		25

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CLEAR STORAGE 1 ,008015,019026,030,034041,045,053,0570571026 1
CLEAR STORAGE 2 L068112,102106,113/101099/I99,027A070028)027B0010270B0261,001/001113I0 2
BOOTSTRAP ,008015,022029,036040,047054,061068,072/061039 ,0010011040 3

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1401 COBOL - F05 PAGE 1

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
101	1	010	000	JOB	1401 COBOL - F05						
102	1	020		CTL	631 11						
103	1	030		ORG	1300	5			1300		
104	1	040	GETX	EQU	335	5		0335			
105	1	050	PUTX	EQU	363			0363			
106	1	060	SUPER	EQU	351	5		0351			
107	1	070	X1	EQU	89	5		0089			
108	1	080	X2	EQU	94	5		0094			
109	1	090	X3	EQU	99	5		0099			
110	1	100	START	B	GTPTIL	5	4	1300	B O10		4
111	1	110		DCW	VLABEL	5	3	1306	L59		4
112	1	120	LABEL	B	GETX	5	4	1307	B 335		4
113	1	130		DCW	NAME	5	3	1313	Z09		4
114	1	140			EOJ	5	3	1316	X35		4
115	1	150		A	&1,LBLCNT	5	7	1317	A O96 K17		4
116	1	160		B	GETSX	5	4	1324	B N77		4
117	1	170		C	SX,VSECT	5	7	1328	C L62 L68		5
118	1	180		BU	LBL1	5	5	1335	B T51 /		5
119	1	190		MLC	@1@,SECT	5	7	1340	M O97 L69		5
120	1	200		B	GETSX	5	4	1347	B N77		5
121	1	210	LBL1	B	GETSX	5	4	1351	B N77		5
122	1	220		C	SX,VEXIT	5	7	1355	C L62 Z05		5
123	1	230		BU	LBL1D	5	5	1362	B U23 /		5
124	1	240		MLC	@1@,EXITSW	5	7	1367	M O97 Z06		6
125	1	250		B	PUTX	5	4	1374	B 363		6
126	2	010		DCW	VLABEL	5	3	1380	L59		6
127	2	020		B	PUTX	5	4	1381	B 363		6
128	2	030		DCW	NAME	5	3	1387	Z09		6
129	2	040		B	PUTX	5	4	1388	B 363		6
130	2	050		DCW	VPRD	5	3	1394	Z12		6
131	2	060		B	PUTSX	5	4	1395	B N95		7
132	2	070		B	GETSX	5	4	1399	B N77		7
133	2	080		B	PUTSX	5	4	1403	B N95		7
134	2	090		B	GETSX	5	4	1407	B N77		7
135	2	100		BCE	LBL3,SECT,1	5	8	1411	B U74 L69 1		7
136	2	110		B	LBL1B	5	4	1419	B U38		7
137	2	120	LBL1D	MLC	NAME,PNM	5	7	1423	M Z09 L65		7
138	2	130		BCE	LBL3,SECT,1	5	8	1430	B U74 L69 1		8
139	2	140	LBL1B	C	PRLBL,NULL	5	7	1438	C O80 O89		8
140	2	150		BU	LBL2	5	5	1445	B U66 /		8
141	2	160	LBL1A	B	LBLC	5	4	1450	B V92		8
142	2	170		B	LBLD	5	4	1454	B W37		8
143	2	180		B	LBLB	5	4	1458	B W49		8
144	2	190		B	PROC1	5	4	1462	B Y46		8
145	2	200	LBL2	B	LBLA	5	4	1466	B V54		9
146	2	210		B	LBL1A	5	4	1470	B U50		9
147	2	220	*		THEN LBL1A WORK	5					

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	2	230	LBL3	C	SRLBL, NULL		5	7	1474	C 086 089	9
149	2	240		BU	LBL5		5	5	1481	B V22 /	9
150	2	250		C	PRLBL, NULL		5	7	1486	C 080 089	9
151	3	010		BU	LBL4		5	5	1493	B V14 /	9
152	3	020	LBL3A	B	LBLC	NOTHING PENDING	5	4	1498	B V92	9
153	3	030		B	LBLD	LABEL-PN-BUILD & ASSIGN	5	4	1502	B W37	10
154	3	040		B	LBLF	SECTION STRING IF APROPOS.	5	4	1506	B W64	10
155	3	050		B	PROC1		5	4	1510	B Y46	10
156	3	060	LBL4	B	LBLA	NO SECTION, BUT YES PARAGRAPH	5	4	1514	B V54	10
157	3	070		B	LBL3A		5	4	1518	B U98	10
158	3	080	LBL5	C	PRLBL, NULL		5	7	1522	C 080 089	10
159	3	090		BU	LBL6		5	5	1529	B V42 /	10
160	3	100		B	LBLB	YES SECTION BUT NO PARAGRAPH	5	4	1534	B V73	11
161	3	110		B	LBL3A		5	4	1538	B U98	11
162	3	120	LBL6	B	LBLA	YES SECTION AND YES PARAGRAPH	5	4	1542	B V54	11
163	3	130		B	LBLB		5	4	1546	B V73	11
164	3	140		B	LBL3A		5	4	1550	B U98	11
165	3	150	LBLA	SBR	X3	LOOP THROUGH PARAGRAPH STRING	5	4	1554	H 099	11
166	3	160	LBLA1	B	RMPR	PUTTING RETURN OPERATORS	5	4	1558	B K41	11
167	3	170		MLC	@1@, RETURN	AND LABELS	5	7	1562	M 097 L70	12
168	3	180		B	LBLH1		5	4	1569	B W86	12
169	3	190	LBLB	SBR	X3		5	4	1573	H 099	12
170	3	200	LBLB1	B	RMSR	SAME AS ABOVE, BUT ON THE SECTION	5	4	1577	B K26	12
171	3	210		MLC	@0@, RETURN	STRING	5	7	1581	M 098 L70	12
172	3	220		B	LBLH1		5	4	1588	B W86	12
173	3	230	LBLC	SBR	X3		5	4	1592	H 099	12
174	3	240		BCE	PROC1, EXITSW, 1		5	8	1596	B Y46 Z06 1	13
175	3	250		B	LBLC2		5	4	1604	B W12	13
176	4	010	LBLC1	SBR	X3	PUT THE LABEL OPERATOR AND THE	5	4	1608	H 099	13
177	4	020	LBLC2	B	PUTX	PROCEDURE NAME	5	4	1612	B 363	13
178	4	030		DCW	VLBL		5	3	1618	L59	13
179	4	040		B	PUTX		5	4	1619	B 363	13
180	4	050		DCW	PNM		5	3	1625	L65	13
181	4	060		B	PUTX		5	4	1626	B 363	14
182	4	070		DCW	VPRD		5	3	1632	Z12	14
183	4	080		B	0&X3		5	4	1633	B 0?0	14
184	4	090	LBLD	SBR	X3	CONVERT TABLE TO STRING	5	4	1637	H 099	14
185	4	100		B	TBTOST		5	4	1641	B Z13	14
186	4	110	LBLD1A	B	0&X3		5	4	1645	B 0?0	14
187	4	120	LBLD	SBR	X3	ASSIGN STRING AS PARAGRAPH-	5	4	1649	H 099	14
188	4	130		MLC	ST, PRLBL	STRING	5	7	1653	M 083 080	15
189	4	140		B	LBLG		5	4	1660	B W75	15
190	4	150	LBLF	SBR	X3	ASSIGN STRING AS SECTION-STRING	5	4	1664	H 099	15
191	4	160		MLC	ST, SRLBL		5	7	1668	M 083 086	15
192	4	170	LBLG	MLC	NULL, ST		5	7	1675	M 089 083	15
193	4	180		B	0&X3		5	4	1682	B 0?0	15
194	4	190	LBLH1	C	ZZ, NULL		5	7	1686	C L73 089	16
195	4	200		BE	0&X3		5	5	1693	B 0?0 S	16
196	4	210		B	PUTX		5	4	1698	B 363	16
197	4	220		DCW	VRTRN		5	3	1704	L76	16

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
198	4	230		B	PUTX	5	4	1705	B 363		16
199	4	240		DCW	ZZ	5	3	1711	L73		16
200	4	250		B	RMSP	5	4	1712	B K18		16
201	5	010		B	PUTX	5	4	1716	B 363		17
202	5	020		DCW	ZZ	5	3	1722	L73		17
203	5	030		BCE	LBLA1,RETURN,1	5	8	1723	B V58 L70	1	17
204	5	040		B	LBLB1	5	4	1731	B V77		17
205	5	050	EOJ	C	SRLBL,NULL	5	7	1735	C O86 O89		17
206	5	060		BE	EOJ1	5	5	1742	B X63 S		17
207	5	070		C	PRLBL,NULL	5	7	1747	C O80 O89		17
208	5	080		BU	LBLA	5	5	1754	B V54 /		18
209	5	090		B	EOJA	5	4	1759	B X83		18
210	5	100	EOJ1	C	PRLBL,NULL	5	7	1763	C O80 O89		18
211	5	110		BE	EOJC	5	5	1770	B Y35 S		18
212	5	120		B	LBLA	5	4	1775	B V54		18
213	5	130		B	EOJB	5	4	1779	B Y24		18
214	5	140	EOJA	B	RMSR	5	4	1783	B K26		18
215	5	150		C	ZZ,NULL	5	7	1787	C L73 O89		19
216	5	160		BE	EOJC	5	5	1794	B Y35 S		19
217	5	170		B	PUTX	5	4	1799	B 363		19
218	5	180		DCW	VRTRN	5	3	1805	L76		19
219	5	190		B	PUTX	5	4	1806	B 363		19
220	5	200		DCW	ZZ	5	3	1812	L73		19
221	5	210		B	RMSP	5	4	1813	B K18		19
222	5	220		B	PUTX	5	4	1817	B 363		20
223	5	230		DCW	ZZ	5	3	1823	L73		20
224	5	240	EOJB	B	PUTX	5	4	1824	B 363		20
225	5	250		DCW	VPRD	5	3	1830	Z12		20
226	6	010		B	EOJA	5	4	1831	B X83		20
227	6	020	EOJC	B	PUTSX	5	4	1835	B N95		20
228	6	030		B	SUPER	5	4	1839	B 351		20
229	6	040		DCW	@G01@	5	3	1845			21
230	6	050	PROC1	MLC	@0@,SECT	5	7	1846	M O98 L69		21
231	6	060		BCE	PROC2,EXITSW,0	5	8	1853	B Y83 Z06	0	21
232	6	070		MLC	@0@,EXITSW	5	7	1861	M O98 Z06		21
233	6	080		MLC	NAME,PNM	5	7	1868	M Z09 L65		21
234	6	090		B	LBLD	5	4	1875	B W37		21
235	6	100		B	LBLB	5	4	1879	B W49		22
236	6	110	PROC2	C	SX,VLABEL	5	7	1883	C L62 L59		22
237	6	120		BE	LABEL	5	5	1890	B T07 S		22
238	6	130		B	PUTSX	5	4	1895	B N95		22
239	6	140		B	START	5	4	1899	B T00		22
240	6	150	VEXIT	DCW	@)16@	5	3	1905			22
241	6	160	EXITSW		@0@	5	1	1906			22
242	6	170	NAME		#3	5	3	1909			23
243	6	180	VPRD		@.PD@	5	3	1912			23
244	6	190	TBTOST	MLC	NULL,TEST	5	7	1913	M O89 K08		23
245	6	200		MLC	NULL,SAVE	5	7	1920	M O89 K11		23
246	6	210		MLC	LBLCNT,TBGT	5	7	1927	M K17 K14		23
247	6	220	TBT01	MLC	1289,X2	5	7	1934	M S89 094		23

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
248	6	230		SBR	TEST,12&X2		7	1941	H K08 0J2		24
249	6	240	TBT02	BCE	TBT11,0&X2,|		8	1948	B J92 0!0 |		24
250	6	250		C	0&X2		4	1956	C 0!0		24
251	7	010		SAR	X2		4	1960	Q 094		24
252	7	020		C	TBGT,0&X2		7	1964	C K14 0!0		24
253	7	030		SBR	X2		4	1971	H 094		24
254	7	040		BH	TBT03		5	1975	B Z93 U		24
255	7	050		C	0&X2		4	1980	C 0!0		25
256	7	060		C			1	1984	C		25
257	7	070		SAR	X2		4	1985	Q 094		25
258	7	080		B	TBT02		4	1989	B Z48		25
259	7	090	TBT03	SBR	X2,6&X2		7	1993	H 094 0!6		25
260	7	100		SBR	NEWRH,12&X2		7	2000	H K05 0J2		25
261	7	110		C	X2,TEST		7	2007	C 094 K08		25
262	7	120		BE	TBT08		5	2014	B J13 S		26
263	7	130	TBT04	SBR	X2,12&X2		7	2019	H 094 0J2		26
264	7	140		C	X2,TEST		7	2026	C 094 K08		26
265	7	150		BE	TBT08		5	2033	B J13 S		26
266	7	160		C	0&X2,PNM		7	2038	C 0!0 L65		26
267	7	170		BU	TBT04		5	2045	B !19 /		26
268	7	180		C	0&X2		4	2050	C 0!0		27
269	7	190		C			1	2054	C		27
270	7	200		SAR	X2		4	2055	Q 094		27
271	7	210	TBT05	MLC	0&X2,SYM		7	2059	M 0!0 L79		27
272	7	220		SAR	X2		4	2066	Q 094		27
273	7	230		B	ADSL		4	2070	B L83		27
274	7	240		DCW	ST		3	2076	O83		27
275	7	250		DCW	SYM		3	2079	L79		28
276	8	010	TBT06	NOP	TBT07		4	2080	N !95		28
277	8	020		MLC	@B@,TBT06		7	2084	M 099 !80		28
278	8	030		B	TBT05		4	2091	B !59		28
279	8	040	TBT07	MLC	@N@,TBT06		7	2095	M P00 !80		28
280	8	050		SBR	X2,12&X2		7	2102	H 094 0J2		28
281	8	060		B	TBT04		4	2109	B !19		28
282	8	070	TBT08	NOP	TBT10		4	2113	N J81		29
283	8	080		MLC	@B@,TBT08		7	2117	M 099 J13		29
284	8	090		MLC	NEWRH,TEST		7	2124	M K05 K08		29
285	8	100		MLC	NEWRH,X2		7	2131	M K05 094		29
286	8	110		BW	TBT09,4&X2		8	2138	V J58 0!4 1		29
287	8	120		C	4&X2		4	2146	C 0!4		29
288	8	130		SAR	X2		4	2150	Q 094		30
289	8	140		B	TBT09A		4	2154	B J69		30
290	8	150	TBT09	C	0&X2		4	2158	C 0!0		30
291	8	160		C			1	2162	C		30
292	8	170		C			1	2163	C		30
293	8	180		C			1	2164	C		30
294	8	190		SAR	X2		4	2165	Q 094		30
295	8	200	TBT09A	BCE	TBT04,0&X2,|		8	2169	B !19 0!0 |		31
296	8	210		B	TBT09		4	2177	B J58		31
297	8	220	TBT10	MLC	@N@,TBT08		7	2181	M P00 J13		31

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
298	8	230		B	LBLD1A		4	2188	B W45		31
299	8	240	TBT11	MLC	@B@,TBT08		7	2192	M 099 J13		31
300	8	250		B	TBT04		4	2199	B !19		31
301	9	010	NEWRH	DCW	#3		3	2205			31
302	9	020	TEST	DCW	#3	5	3	2208			32
303	9	030	SAVE	DCW	#3	5	3	2211			32
304	9	040	TBGT	DCW	#3	5	3	2214			32
305	9	050	LBLCNT	DCW	@001@	5	3	2217			32
306	9	060	RMSP	SBR	EXIT&3	5	4	2218	H L45		32
307	9	070		B	RM01	5	4	2222	B K52		32
308	9	080	RMSR	SBR	EXIT&3	5	4	2226	H L45		32
309	9	090		MLC	&SRLBL, RMST	5	7	2230	M P03 K77		33
310	9	100		B	RM01	5	4	2237	B K52		33
311	9	110	RMPR	SBR	EXIT&3	5	4	2241	H L45		33
312	9	120		MLC	&PRLBL, RMST	5	7	2245	M P06 K77		33
313	9	130	RM01	MLC	RMST, *&4	5	7	2252	M K77 K62		33
314	9	140		C	*, NULL	5	7	2259	C K65 O89		33
315	9	150		BE	RMNTFD	5	5	2266	B L46 S	NO STRING	34
316	9	160		B	LCST	5	4	2271	B N00		34
317	9	170	RMST	DCW	*	5	3	2277	K77		34
318	9	180			LOCTN	5	3	2280	N76		34
319	9	190		MLC	LOCTN, X1	5	7	2281	M N76 089		34
320	9	200		MLC	2&X1, Z	5	7	2288	M 0|2 L73		34
321	9	210		MRCM	3&X1, 0&X1	5	7	2295	P 0|3 0|0		34
322	9	220		SBR	RM02&3	5	4	2302	H L13		35
323	9	230		SBR	RM02&6	5	4	2306	H L16		35
324	9	240	RM02	MLNS	*, *	5	7	2310	D L16 L16		35
325	9	250		SBR	ENDST	5	4	2317	H 092		35
326	10	010		MLC	RMST, X1	5	7	2321	M K77 089		35
327	10	020		S	&3, 0&X1	5	7	2328	S P07 0|0		35
328	10	030		MLZS	@ @, 0&X1	5	7	2335	Y P08 0|0		36
329	10	040	EXIT	B	*	5	4	2342	B L45		36
330	10	050	RMNTFD	MLC	NULL, Z	5	7	2346	M 089 L73		36
331	10	060		B	EXIT	5	4	2353	B L42		36
332	10	070	VLABEL	DCW	@.LB@	5	3	2359			36
333	10	080	SX		#3	5	3	2362			36
334	10	090	PNM		#3	5	3	2365			36
335	10	100	VSECT		@*09@	5	3	2368			37
336	10	110	SECT		@0@	5	1	2369			37
337	10	120	RETURN		@0@	5	1	2370			37
338	10	130	VLBL	EQU	VLABEL	5		2359			
339	10	140	ZZ	DCW	@000@	5	3	2373			37
340	10	150	VRTRN		@.RT@	5	3	2376			37
341	10	160	SYM		#3	5	3	2379			37
342	10	170	TBARG	DCW	@G98@	5	3	2382			37
343	10	180	ADSL	SBR	X1	5	4	2383	H 089		38
344	10	190		SBR	ADSL5&3, 6&X1	5	7	2387	H M99 0|6		38
345	10	200		MLC	2&X1, ADSL1	5	7	2394	M 0|2 M28		38
346	10	210		MLC	ADSL1, ADSL4&6	5	7	2401	M M28 M88		38
347	10	220		MLC	5&X1, ADSL3&3	5	7	2408	M 0|5 M74		38

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
348	10	230		A	@003@,ADSL1	5	7	2415	A P11 M28		38
349	10	240		B	LCST	5	4	2422	B N00		39
350	10	250	ADSL1	DCW	#3	5	3	2428			39
351	11	010			LOCTN	5	3	2431	N76		39
352	11	020		MLC	ENDST,X1	5	7	2432	M O92 O89		39
353	11	030		SBR	ADSL2&3,0&X1	5	7	2439	H M67 0|0		39
354	11	040		SBR	ADSL2&6,3&X1	5	7	2446	H M70 0|3		39
355	11	050		MLC	LOCTN,X1	5	7	2453	M N76 O89		39
356	11	060		SW	0&X1	5	4	2460	, 0|0		40
357	11	070	ADSL2	MLC	0,0	5	7	2464	M 000 000		40
358	11	080	ADSL3	MLC	0,2&X1	5	7	2471	M 000 0|2		40
359	11	090		CW	0&X1	5	4	2478	) 0|0		40
360	11	100	ADSL4	A	@003@,0	5	7	2482	A P11 000		40
361	11	110		A	@003@,ENDST	5	7	2489	A P11 O92		40
362	11	120	ADSL5	B	0	5	4	2496	B 000		41
363	11	130	*		LOCATION GIVEN IS LEFT END CHARACTER	5					
364	11	140	LCST	SBR	X1	5	4	2500	H 089		41
365	11	150		MLC	2&X1,*&4	5	7	2504	M 0|2 N14		41
366	11	160		MLC	0,LOCTN	5	7	2511	M 000 N76		41
367	11	170		SAR	LCST2&3	5	4	2518	Q N62		41
368	11	180		MLC	BGNST,LOCTN	5	7	2522	M O95 N76		41
369	11	190	LCST1	C	LCST2&3,&BGNLC	5	7	2529	C N62 P14		42
370	11	200		BU	LCST2	5	5	2536	B N59 /		42
371	11	210		MLC	5&X1,*&7	5	7	2541	M 0|5 N54		42
372	11	220		MLC	LOCTN,*	5	7	2548	M N76 N54		42
373	11	230		B	6&X1	5	4	2555	B 0|6		42
374	11	240	LCST2	A	0,LOCTN	5	7	2559	A 000 N76		42
375	11	250		SAR	LCST2&3	5	4	2566	Q N62		43
376	12	010		B	LCST1	5	4	2570	B N29		43
377	12	020	LOCTN	DCW	#3	5	3	2576			43
378	12	030	GETSX	SBR	GTSEX&3	5	4	2577	H N94		43
379	12	040		B	GETX	5	4	2581	B 335		43
380	12	050		DCW	&SX	5	3	2587	L62		43
381	12	060			&EOJ	5	3	2590	X35		43
382	12	070	GTSEX	B	*	5	4	2591	B N94		44
383	12	080	PUTSX	SBR	PTSEX&3	5	4	2595	H O09		44
384	12	090		B	PUTX	5	4	2599	B 363		44
385	12	100		DCW	&SX	5	3	2605	L62		44
386	12	110	PTSEX	B	*	5	4	2606	B O09		44
387	12	120	GTPTIL	SBR	X1	5	4	2610	H 089		44
388	12	130		MLC	@P@,GTPSW	5	7	2614	M P15 O77		44
389	12	140		MLC	X1,GTL5V	5	7	2621	M 089 O76		45
390	12	150		MLC	2&X1,GTL03&3	5	7	2628	M 0|2 O42		45
391	12	160	GTL02	B	GETSX	5	4	2635	B N77		45
392	12	170	GTL03	C	*,SX	5	7	2639	C O45 L62		45
393	12	180		BE	GTL04	5	5	2646	B O63 S		45
394	12	190		BCE	PUTSX,GTPSW,P	5	8	2651	B N95 O77 P		45
395	12	200		B	GTL02	5	4	2659	B O35		46
396	12	210	GTL04	MLC	GTL5V,X1	5	7	2663	M O76 O89		46
397	12	220		B	3&X1	5	4	2670	B 0|3		46

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
398	12	230	GTL SV	DCW	#3	5	3	2676			46
399	12	240	GTP SW		#1	5	1	2677			46
400	12	250	BGN LC	EQU	*	5		2677			
401	13	010	PRL BL	DCW	@000@	5	3	2680			46
402	13	020	ST	DCW	@000@	5	3	2683			46
403	13	030	SRL BL	DCW	@000@	5	3	2686			47
404	13	040	NULL	DCW	@000@	5	3	2689			47
405	13	050	END ST	DCW	RM	5	3	2692	P16		47
406	13	060	BGN ST	DCW	RM	5	3	2695	P16		47
407	13	070		LTORG		5			2696		
				DCW	&1		1	2696		LIT	47
					@1@		1	2697		LIT	47
					@0@		1	2698		LIT	47
					@B@		1	2699		LIT	48
					@N@		1	2700		LIT	48
		309			&SRLBL		3	2703	O86	ADCON	48
		312			&PRLBL		3	2706	O80	ADCON	48
					&3		1	2707		LIT	48
					@ @		1	2708		LIT	48
					@003@		3	2711		LIT	48
		369			&BGNLC		3	2714	O77	ADCON	49
					@P@		1	2715		LIT	49
408	13	080	RM	DC	@ @	5	1	2716			49
409	13	090		DCW	@}@	5	1	2717			49
410	13	100		END	START	5			/ T00 080		50

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CLEAR STORAGE 1      ,008015,019026,030,034041,045,053,0570571026      1
CLEAR STORAGE 2      L068112,102106,113/101099/I99,027A070028)027B0010270B0261,001/001113I0      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	010	000	JOB	1401 COBOL - G01						
102	1	020		CTL	631 11						
103	1	030	X1	EQU	89			0089			
104	1	040	X2	EQU	94			0094			
105	1	050	X3	EQU	99			0099			
106	1	060	SUPER	EQU	351			0351			
107	1	070	PUTX	EQU	363			0363			
108	1	080	GETX	EQU	335			0335			
109	1	090	DUMP	EQU	359			0359			
110	1	100	SZSW	EQU	1126			1126			
111	1	110		ORG	1300				1300		
112	1	120	CURNT	DCW	#3	3		1302			4
113	1	130	SBNM	DCW	@A0?@	3		1305			4
114	1	140	GTSAVE	DCW	@A0@	2		1307			4
115	1	150	HICORE	DCW	@G92@	3		1310			4
116	1	160		BCE	INIT,SZSW,4	8		1311	B T57 /26	4	4
117	1	170		MLC	@F3S@,HICORE	7		1319	M F58 T10		4
118	1	180		SW	3801	4		1326	, H01		4
119	1	190		MLC	@F3S@,X1	7		1330	M F58 089		5
120	1	200	CLEAR	CS	0&X1	4		1337	/ 0|0		5
121	1	210		SBR	X1	4		1341	H 089		5
122	1	220		BWZ	CLEAR,3801,1	8		1345	V T37 H01 1		5
123	1	230		CW	3799	4		1353	) G99		5
124	1	240	INIT	B	GTSYM	4		1357	B J20		5
125	1	250		C	CURNT,SPROC	7		1361	C T02 E56		5
126	2	010		BU	INIT	5		1368	B T57 /		6
127	2	020		B	PASS	4		1373	B U56		6
128	2	030	TEST1	MLC	@0@,SWRT	7		1377	M F59 E09		6
129	2	040		C	CURNT,SADD	7		1384	C T02 F10		6
130	2	050		BE	ADDRTN	5		1391	B W52 S		6
131	2	060		C	CURNT,SSUB	7		1396	C T02 E92		6
132	2	070		BE	ADDRTN	5		1403	B W52 S		7
133	2	080		C	CURNT,SDIV	7		1408	C T02 F04		7
134	2	090		BE	DVDRTN	5		1415	B Z60 S		7
135	2	100		C	CURNT,SMLT	7		1420	C T02 E95		7
136	2	110		BE	MLTRTN	5		1427	B Z71 S		7
137	2	120		C	CURNT,SMOV	7		1432	C T02 F07		7
138	2	130		BE	MOVRTN	5		1439	B V75 S		8
139	2	140		C	CURNT,SPRF	7		1444	C T02 E98		8
140	2	150		BE	PRFRTN	5		1451	B P70 S		8
141	2	160	PASS	B	PUTX	4		1456	B 363		8
142	2	170		DCW	CURNT	3		1462	T02		8
143	2	180	GTEST	B	GTSYM	4		1463	B J20		8
144	2	190	TEST2	BCE	TEST1,CURNT-2,)	8		1467	B T77 T00)		8
145	2	200		C	CURNT,RLNK	7		1475	C T02 E05		9
146	2	210		BE	RLKRTN	5		1482	B M91 S		9
147	2	220		BCE	PASS,SWRT,0	8		1487	B U56 E09 0		9

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	2	230		C	CURNT,SAFT		7	1495	C T02 E49		9
149	2	240		BU	PASS		5	1502	B U56 /		9
150	2	250		BCE	AFTER,SWRT,1		8	1507	B ?63 E09 1		10
151	3	010		B	AFTERX		4	1515	B B07		10
152	3	020	TEST	C	GTSAVE,GT		7	1519	C T07 E52		10
153	3	030		BH	TEST3		5	1526	B V64 U		10
154	3	040	TEST4	MLC	@A0@,GT		7	1531	M F61 E52		10
155	3	050	TEST5	BCE	TEST2,SUBSW,0		8	1538	B U67 F45 0		10
156	3	060		B	PUTX		4	1546	B 363		11
157	3	070		DCW	SE		3	1552	F48		11
158	3	080		MLC	@0@,SUBSW		7	1553	M F59 F45		11
159	3	090		B	TEST2		4	1560	B U67		11
160	3	100	TEST3	MLC	GT,GTSAVE		7	1564	M E52 T07		11
161	3	110		B	TEST4		4	1571	B V31		11
162	3	120	MOVRTN	MLC	SMOV,OUTOP		7	1575	M F07 E80		11
163	3	130		B	GTSYM		4	1582	B J20		12
164	3	140		B	NMTST		4	1586	B J38		12
165	3	150		DCW	TEST2		3	1592	U67		12
166	3	160		MLC	NAME,PAR2		7	1593	M E59 E86		12
167	3	170		MLC	NAME		4	1600	M E59		12
168	3	180		B	NMTST		4	1604	B J38		12
169	3	190		DCW	MOV02		3	1610	W44		12
170	3	200		MLC	NAME,PAR1		7	1611	M E59 E83		13
171	3	210		B	OUTMC2		4	1618	B M32		13
172	3	220	MOV01	B	NMTST		4	1622	B J38		13
173	3	230		DCW	TEST5		3	1628	V38		13
174	3	240		MLC	NAME,PAR1		7	1629	M E59 E83		13
175	3	250		B	OUTMC2		4	1636	B M32		13
176	4	010		B	MOV01		4	1640	B W22		13
177	4	020	MOV02	B	OUTMC2		4	1644	B M32		14
178	4	030		B	TEST5		4	1648	B V38		14
179	4	040	ADDRTN	MLC	@ &@,OUTOP		7	1652	M F64 E80		14
180	4	050	ADDRT1	B	GTSYM		4	1659	B J20		14
181	4	060		B	NMTST		4	1663	B J38		14
182	4	070		DCW	TEST		3	1669	V19		14
183	4	080	ADDRT2	MLC	NAME,PAR1		7	1670	M E59 E83		14
184	4	090	ADD01	B	NMTST		4	1677	B J38		15
185	4	100		DCW	ENDCHK		3	1683	X29		15
186	4	110		MLC	NAME,PAR2		7	1684	M E59 E86		15
187	4	120		MLC	NAME,SAVE		7	1691	M E59 F34		15
188	4	130		A	&1,GT		7	1698	A F65 E52		15
189	4	140		MLC	GT,PAR3		7	1705	M E52 E89		15
190	4	150		MLC			1	1712	M		15
191	4	160		B	OUTMC3		4	1713	B M47		16
192	4	170		MLC	GT,PAR1		7	1717	M E52 E83		16
193	4	180		MLC			1	1724	M		16
194	4	190		B	ADD01		4	1725	B W77		16
195	4	200	ENDCHK	C	CURNT,SFRM		7	1729	C T02 F13		16
196	4	210		BE	ENDCH1		5	1736	B Y98 S		16
197	4	220	GIVCHK	MLC	SGIV,OUTOP		7	1741	M F25 E80		16

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
198	4	230		C	CURNT,SRND		7	1748	C T02 F22		17
199	4	240		BU	GIVCH1		5	1755	B X75 /		17
200	4	250	GIVCH5	MLC	SRND,OUTOP		7	1760	M F22 E80		17
201	5	010		B	GTSYM		4	1767	B J20		17
202	5	020		B	GIVCH2		4	1771	B X87		17
203	5	030	GIVCH1	C	CURNT,SGIV		7	1775	C T02 F25		17
204	5	040		BE	GIVCH4		5	1782	B Y64 S		17
205	5	050	GIVCH2	MLC	SAVE,PAR1		7	1787	M F34 E83		18
206	5	060		MLC	PAR3,PAR2		7	1794	M E89 E86		18
207	5	070		C	CURNT,SSZE		7	1801	C T02 F37		18
208	5	080		BU	GIVCH3		5	1808	B Y56 /		18
209	5	090		B	PUTX		4	1813	B 363		18
210	5	100		DCW	SCOMP		3	1819	F01		18
211	5	110		B	PUTX		4	1820	B 363		18
212	5	120		DCW	PAR1		3	1826	E83		19
213	5	130		B	PUTX		4	1827	B 363		19
214	5	140		DCW	OUTOP		3	1833	E80		19
215	5	150		B	PUTX		4	1834	B 363		19
216	5	160		DCW	PAR2		3	1840	E86		19
217	5	170		B	PUTX		4	1841	B 363		19
218	5	180		DCW	SSZE		3	1847	F37		19
219	5	190		B	GTSYM		4	1848	B J20		20
220	5	200		B	TEST		4	1852	B V19		20
221	5	210	GIVCH3	B	OUTMC2		4	1856	B M32		20
222	5	220		B	TEST		4	1860	B V19		20
223	5	230	GIVCH4	B	GTSYM		4	1864	B J20		20
224	5	240		B	NMTST		4	1868	B J38		20
225	5	250		DCW	*&1		3	1874	Y75		20
226	6	010		MLC	NAME,SAVE		7	1875	M E59 F34		21
227	6	020		C	CURNT,SRND		7	1882	C T02 F22		21
228	6	030		BE	GIVCH5		5	1889	B X60 S		21
229	6	040		B	GIVCH2		4	1894	B X87		21
230	6	050	ENDCH1	B	GTSYM		4	1898	B J20		21
231	6	060		MLC	PAR1,PAR2		7	1902	M E83 E86		21
232	6	070		MLC	@ -@,OUTOP		7	1909	M F68 E80		22
233	6	080		B	NMTST		4	1916	B J38		22
234	6	090		DCW	ENDCH2		3	1922	Z37		22
235	6	100		MLC	NAME,PAR1		7	1923	M E59 E83		22
236	6	110		MLC	NAME,SAVE		7	1930	M E59 F34		22
237	6	120	ENDCH2	A	&1,GT		7	1937	A F65 E52		22
238	6	130		MLC	GT,PAR3		7	1944	M E52 E89		23
239	6	140		MLC			1	1951	M		23
240	6	150		B	OUTMC3		4	1952	B M47		23
241	6	160		B	GIVCHK		4	1956	B X41		23
242	6	170	DVDRTN	MLC	@ /@,OUTOP		7	1960	M F71 E80		23
243	6	180		B	MLTRT1		4	1967	B Z78		23
244	6	190	MLTRTN	MLC	@ *@,OUTOP		7	1971	M F74 E80		23
245	6	200	MLTRT1	B	GTSYM		4	1978	B J20		24
246	6	210		B	NMTST		4	1982	B J38		24
247	6	220		DCW	MLTRT5		3	1988	!98		24

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
248	6	230		MLC	NAME, PAR2		7	1989	M E59 E86		24
249	6	240	MLTRT4	C	CURNT, SBY		7	1996	C T02 F19		24
250	6	250		BE	MLTRT2		5	2003	B !20 S		24
251	7	010		C	CURNT, SINTO		7	2008	C T02 F16		24
252	7	020		BU	MLTRT3		5	2015	B !24 /		25
253	7	030	MLTRT2	B	GTSYM		4	2020	B J20		25
254	7	040	MLTRT3	B	NMTST		4	2024	B J38		25
255	7	050		DCW	MLTRT6		3	2030	J09		25
256	7	060		MLC	NAME, PAR1		7	2031	M E59 E83		25
257	7	070	MLTRT7	MLC	PAR1, SAVE		7	2038	M E83 F34		25
258	7	080		A	&1, GT		7	2045	A F65 E52		25
259	7	090		MLC	GT, PAR3		7	2052	M E52 E89		26
260	7	100		MLC			1	2059	M		26
261	7	110		C	CURNT, SGIV		7	2060	C T02 F25		26
262	7	120		BU	MLTRT8		5	2067	B !90 /		26
263	7	130		B	GTSYM		4	2072	B J20		26
264	7	140		B	NMTST		4	2076	B J38		26
265	7	150		DCW	*&1		3	2082	!83		26
266	7	160		MLC	NAME, SAVE		7	2083	M E59 F34		27
267	7	170	MLTRT8	B	OUTMC3		4	2090	B M47		27
268	7	180		B	GIVCHK		4	2094	B X41		27
269	7	190	MLTRT5	MLC	@XXX@, PAR2		7	2098	M F77 E86		27
270	7	200		B	MLTRT4		4	2105	B Z96		27
271	7	210	MLTRT6	MLC	@XXX@, PAR1		7	2109	M F77 E83		27
272	7	220		B	MLTRT7		4	2116	B !38		27
273	7	230	GTSYM	SBR	GT01&3		4	2120	H J37		28
274	7	240		B	GETX		4	2124	B 335		28
275	7	250		DCW	CURNT		3	2130	T02		28
276	8	010		DCW	EOJ		3	2133	L20		28
277	8	020	GT01	B	*		4	2134	B J37		28
278	8	030	NMTST	SBR	X3		4	2138	H 099		28
279	8	040		MLC	2&X3, NMFEXT&3		7	2142	M 0?2 J72		28
280	8	050		C	CURNT-2, @A@		7	2149	C T00 F78		29
281	8	060		BH	NMFEXT		5	2156	B J69 U		29
282	8	070		B	NAMRTN		4	2161	B J73		29
283	8	080		B	3&X3		4	2165	B 0?3		29
284	8	090	NMFEXT	B	*		4	2169	B J72		29
285	8	100	NAMRTN	SBR	NAMR01&3		4	2173	H L19		29
286	8	110		MLC	CURNT, NAME		7	2177	M T02 E59		29
287	8	120		B	GTSYM		4	2184	B J20		30
288	8	130		C	CURNT, SBOP		7	2188	C T02 E62		30
289	8	140		BU	NAMR01		5	2195	B L16 /		30
290	8	150		MLC	@1@, SUBSW		7	2200	M F79 F45		30
291	8	160		A	&1, SBNM		7	2207	A F65 T05		30
292	8	170		C	SBNM, @?@		7	2214	C T05 F80		30
293	8	180		BU	NAMR02		5	2221	B K33 /		31
294	8	190		MLC	@A@, SBNM		7	2226	M F78 T05		31
295	8	200	NAMR02	MLC	NAME, CURNT		7	2233	M E59 T02		31
296	8	210		B	PUTX		4	2240	B 363		31
297	8	220		DCW	LOC		3	2246	E65		31

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
298	8	230		B	PUTX		4	2247	B 363		31
299	8	240		DCW	SBOP		3	2253	E62		31
300	8	250		B	PUTX		4	2254	B 363		32
301	9	010		DCW	OP		3	2260	E68		32
302	9	020	NAMR03	B	PUTX		4	2261	B 363		32
303	9	030		DCW	CURNT		3	2267	T02		32
304	9	040		B	GTSYM		4	2268	B J20		32
305	9	050		C	CURNT ,RPRN		7	2272	C T02	E74	32
306	9	060		BU	NAMR03		5	2279	B K61	/	32
307	9	070		B	PUTX		4	2284	B 363		33
308	9	080		DCW	SBNM		3	2290	T05		33
309	9	090		B	PUTX		4	2291	B 363		33
310	9	100		DCW	NAME		3	2297	E59		33
311	9	110		MLC	SBNM ,NAME		7	2298	M T05	E59	33
312	9	120		B	PUTX		4	2305	B 363		33
313	9	130		DCW	MACSEP		3	2311	E71		33
314	9	140		B	GTSYM		4	2312	B J20		34
315	9	150	NAMR01	B	*		4	2316	B L19		34
316	9	160	EOJ	B	PUTX		4	2320	B 363		34
317	9	170		DCW	EOP		3	2326	F43		34
318	9	180		B	SUPER		4	2327	B 351		34
319	9	190		DCW	@G02@		3	2333			34
320	9	200	OUTMAC	SBR	OUTM01&3		4	2334	H L97		34
321	9	210		B	OUTLOC		4	2338	B M62		35
322	9	220		BCE	OUTSEP ,PRSW ,0		8	2342	B L87	F44 0	35
323	9	230		B	PUTX		4	2350	B 363		35
324	9	240		DCW	PAR1		3	2356	E83		35
325	9	250		BCE	OUTSEP ,PRSW ,1		8	2357	B L87	F44 1	35
326	10	010		B	PUTX		4	2365	B 363		35
327	10	020		DCW	PAR2		3	2371	E86		35
328	10	030		BCE	OUTSEP ,PRSW ,2		8	2372	B L87	F44 2	36
329	10	040		B	PUTX		4	2380	B 363		36
330	10	050		DCW	PAR3		3	2386	E89		36
331	10	060	OUTSEP	B	PUTX		4	2387	B 363		36
332	10	070		DCW	MACSEP		3	2393	E71		36
333	10	080	OUTM01	B	*		4	2394	B L97		36
334	10	090	OUTMC0	SBR	OUTMXX&3		4	2398	H M16		36
335	10	100		MLC	@0@ ,PRSW		7	2402	M F59	F44	37
336	10	110	OUTM11	B	OUTMAC		4	2409	B L34		37
337	10	120	OUTMXX	B	*		4	2413	B M16		37
338	10	130	OUTMC1	SBR	OUTMXX&3		4	2417	H M16		37
339	10	140		MLC	@1@ ,PRSW		7	2421	M F79	F44	37
340	10	150		B	OUTM11		4	2428	B M09		37
341	10	160	OUTMC2	SBR	OUTMXX&3		4	2432	H M16		37
342	10	170		MLC	@2@ ,PRSW		7	2436	M F81	F44	38
343	10	180		B	OUTM11		4	2443	B M09		38
344	10	190	OUTMC3	SBR	OUTMXX&3		4	2447	H M16		38
345	10	200		MLC	@3@ ,PRSW		7	2451	M F82	F44	38
346	10	210		B	OUTM11		4	2458	B M09		38
347	10	220	OUTLOC	SBR	OUTL01&3		4	2462	H M90		38

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
348	10	230		B	PUTX		4	2466	B 363		38
349	10	240		DCW	LOC		3	2472	E65		39
350	10	250		B	PUTX		4	2473	B 363		39
351	11	010		DCW	OUTOP		3	2479	E80		39
352	11	020		B	PUTX		4	2480	B 363		39
353	11	030		DCW	OP		3	2486	E68		39
354	11	040	OUTL01	B	*		4	2487	B M90		39
355	11	050	RLKRTN	MLC	CURNT,OUTOP		7	2491	M T02 E80		39
356	11	060		B	OUTLOC		4	2498	B M62		40
357	11	070		B	GTSYM		4	2502	B J20		40
358	11	080		MLC	CURNT,LST1		7	2506	M T02 E40		40
359	11	090		B	PUTX		4	2513	B 363		40
360	11	100		DCW	CURNT		3	2519	T02		40
361	11	110		B	GTSYM		4	2520	B J20		40
362	11	120		MLC	CURNT,LST2		7	2524	M T02 E37		40
363	11	130		B	GNLAB		4	2531	B D24		41
364	11	140		DCW	LST4		3	2537	E31		41
365	11	150		B	GNLAB		4	2538	B D24		41
366	11	160		DCW	LST5		3	2544	E28		41
367	11	170		B	GTSYM		4	2545	B J20		41
368	11	180		B	PUTX		4	2549	B 363		41
369	11	190		DCW	CURNT		3	2555	T02		41
370	11	200		MLC	CURNT,LST3		7	2556	M T02 E34		42
371	11	210		B	PUTX		4	2563	B 363		42
372	11	220		DCW	LST4		3	2569	E31		42
373	11	230		B	PUTX		4	2570	B 363		42
374	11	240		DCW	LST5		3	2576	E28		42
375	11	250		B	PUTX		4	2577	B 363		42
376	12	010		DCW	MACSEP		3	2583	E71		42
377	12	020		B	GTSYM		4	2584	B J20		43
378	12	030		C	CURNT-2,@A@		7	2588	C T00 F78		43
379	12	040		BH	RLKRT1		5	2595	B O81 U		43
380	12	050		C	CURNT,LST2		7	2600	C T02 E37		43
381	12	060		BU	RLKRT1		5	2607	B O81 /		43
382	12	070		MLC	@.LB@,OUTOP		7	2612	M F85 E80		43
383	12	080		MLC	LST2,PAR1		7	2619	M E37 E83		44
384	12	090		B	OUTMC1		4	2626	B M17		44
385	12	100		B	PUTX		4	2630	B 363		44
386	12	110		DCW	RLNK		3	2636	E05		44
387	12	120		B	PUTX		4	2637	B 363		44
388	12	130		DCW	LST4		3	2643	E31		44
389	12	140	RLKRT4	B	PUTX		4	2644	B 363		44
390	12	150		DCW	LST5		3	2650	E28		45
391	12	160		BCE	RLKRT3,ELSW,1		8	2651	B O63 F52 1		45
392	12	170		B	GTEST		4	2659	B U63		45
393	12	180	RLKRT3	MLC	@0@,ELSW		7	2663	M F59 F52		45
394	12	190		B	PUTX		4	2670	B 363		45
395	12	200		DCW	SEND		3	2676	F51		45
396	12	210		B	GTEST		4	2677	B U63		45
397	12	220	RLKRT1	C	CURNT,SELSE		7	2681	C T02 F55		46

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
398	12	230		BU	RLKRT2		5	2688	B P00 /		46
399	12	240		MLC	@1@,ELSW		7	2693	M F79 F52		46
400	12	250	RLKRT2	MLC	@)20@,OUTOP		7	2700	M F88 E80		46
401	13	010		MLC	LST2,PAR1		7	2707	M E37 E83		46
402	13	020		B	OUTMC1		4	2714	B M17		46
403	13	030		MLC	@.LB@,OUTOP		7	2718	M F85 E80		47
404	13	040		MLC	LST4,PAR1		7	2725	M E31 E83		47
405	13	050		B	OUTMC1		4	2732	B M17		47
406	13	060		BCE	RLKRT5,ELSW,0		8	2736	B P55 F52 0		47
407	13	070		B	PUTX		4	2744	B 363		47
408	13	080		DCW	RLNK		3	2750	E05		47
409	13	090		B	RLKRT4		4	2751	B O44		47
410	13	100	RLKRT5	MLC	LST5,PAR1		7	2755	M E28 E83		48
411	13	110		B	OUTMC1		4	2762	B M17		48
412	13	120		B	TEST2		4	2766	B U67		48
413	13	130	PRFRTN	MLC	CURNT,OUTOP		7	2770	M T02 E80		48
414	13	140		B	GTSYM		4	2777	B J20		48
415	13	150		MLC	CURNT,LST1		7	2781	M T02 E40		48
416	13	160		B	GTSYM		4	2788	B J20		48
417	13	170		B	GTSYM		4	2792	B J20		49
418	13	180		MLC	CURNT,LST2		7	2796	M T02 E37		49
419	13	190		B	OUTLOC		4	2803	B M62		49
420	13	200		B	PUTX		4	2807	B 363		49
421	13	210		DCW	LST2		3	2813	E37		49
422	13	220		B	PUTX		4	2814	B 363		49
423	13	230		DCW	MACSEP		3	2820	E71		49
424	13	240		B	GTSYM		4	2821	B J20		50
425	13	250		MLC	CURNT,LST3		7	2825	M T02 E34		50
426	14	010		B	GTSYM		4	2832	B J20		50
427	14	020		B	NMTST		4	2836	B J38		50
428	14	030		DCW	PRFCHK		3	2842	Q99		50
429	14	040		C	CURNT,@ *@		7	2843	C T02 F74		50
430	14	050		BU	PRFCK1		5	2850	B R23 /		50
431	14	060		MLC	@.PB@,OUTOP		7	2855	M F91 E80		51
432	14	070		B	OUTLOC		4	2862	B M62		51
433	14	080		B	GTSYM		4	2866	B J20		51
434	14	090		B	PUTX		4	2870	B 363		51
435	14	100		DCW	NAME		3	2876	E59		51
436	14	110	PRFCK2	MLC	@|@,LST3-3		7	2877	M F92 E31		51
437	14	120		B	OTPRLT		4	2884	B C72		51
438	14	130		MLC	@ @,LST3-3		7	2888	M F93 E31		52
439	14	140		B	TEST5		4	2895	B V38		52
440	14	150	PRFCHK	C	CURNT,SUNTL		7	2899	C T02 E43		52
441	14	160		BE	PRFUNT		5	2906	B R38 S		52
442	14	170		C	CURNT,SVARY		7	2911	C T02 E46		52
443	14	180		BE	PRFVAR		5	2918	B R71 S		52
444	14	190	PRFCK1	MLC	@.PA@,OUTOP		7	2923	M F96 E80		53
445	14	200		B	OUTLOC		4	2930	B M62		53
446	14	210		B	PRFCK2		4	2934	B Q77		53
447	14	220	PRFUNT	MLC	@.LB@,OUTOP		7	2938	M F85 E80		53

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
448	14	230		MLC	LST3,PAR1		7	2945	M E34 E83		53
449	14	240		B	OUTMC1		4	2952	B M17		53
450	14	250		MLC	@.PC@,LST10		7	2956	M F99 E13		54
451	15	010		B	OUTLST		4	2963	B C53		54
452	15	020		B	PASS		4	2967	B U56		54
453	15	030	PRFVAR	B	GTSYM		4	2971	B J20		54
454	15	040		B	OUTMOV		4	2975	B B33		54
455	15	050		MLC	@.IM@,OUTOP		7	2979	M G02 E80		54
456	15	060		B	GNLAB		4	2986	B D24		54
457	15	070		DCW	LST6		3	2992	E25		55
458	15	080		B	GNLAB		4	2993	B D24		55
459	15	090		DCW	LST5		3	2999	E28		55
460	15	100		MLC	LST5,PAR2		7	3000	M E28 E86		55
461	15	110		MLC			1	3007	M		55
462	15	120		B	OUTMC2		4	3008	B M32		55
463	15	130		B	OUTAUG		4	3012	B B95		55
464	15	140		MLC	@.LB@,OUTOP		7	3016	M F85 E80		56
465	15	150		B	GNLAB		4	3023	B D24		56
466	15	160		DCW	LST4		3	3029	E31		56
467	15	170		MLC	LST4,PAR1		7	3030	M E31 E83		56
468	15	180		B	OUTMC1		4	3037	B M17		56
469	15	190		MLC	@1@,SWRT		7	3041	M F79 E09		56
470	15	200		MLC	@.PE@,LST10		7	3048	M G05 E13		56
471	15	210		B	OUTLST		4	3055	B C53		57
472	15	220		B	PASS		4	3059	B U56		57
473	15	230	AFTER	B	PUTX		4	3063	B 363		57
474	15	240		DCW	P1OP		3	3069	F28		57
475	15	250		B	GNLAB		4	3070	B D24		57
476	16	010		DCW	LST8		3	3076	E19		57
477	16	020	AFT1	B	GNLAB		4	3077	B D24		57
478	16	030		DCW	LST9		3	3083	E16		58
479	16	040		B	GNLAB		4	3084	B D24		58
480	16	050		DCW	LST7		3	3090	E22		58
481	16	060		B	OTPRLT		4	3091	B C72		58
482	16	070		B	GTSYM		4	3095	B J20		58
483	16	080		B	OUTMOV		4	3099	B B33		58
484	16	090		MLC	@.P3@,OUTOP		7	3103	M G08 E80		58
485	16	100		B	OUTLOC		4	3110	B M62		59
486	16	110		B	PUTX		4	3114	B 363		59
487	16	120		DCW	LST6		3	3120	E25		59
488	16	130		B	GNLAB		4	3121	B D24		59
489	16	140		DCW	LST6		3	3127	E25		59
490	16	150		B	PUTX		4	3128	B 363		59
491	16	160		DCW	LST6		3	3134	E25		59
492	16	170		B	PUTX		4	3135	B 363		60
493	16	180		DCW	LST7		3	3141	E22		60
494	16	190		B	GNLAB		4	3142	B D24		60
495	16	200		DCW	LST7		3	3148	E22		60
496	16	210		B	PUTX		4	3149	B 363		60
497	16	220		DCW	LST7		3	3155	E22		60

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
498	16	230		B	PUTX		4	3156	B 363		60
499	16	240		DCW	MACSEP		3	3162	E71		61
500	16	250		B	OUTAUG		4	3163	B B95		61
501	17	010		MLC	@.LB@,OUTOP		7	3167	M F85 E80		61
502	17	020		MLC	LST9,PAR1		7	3174	M E16 E83		61
503	17	030		B	OUTMC1		4	3181	B M17		61
504	17	040		MLC	@2@,SWRT		7	3185	M F81 E09		61
505	17	050		MLC	@.PF@,LST10		7	3192	M G11 E13		61
506	17	060		B	OUTLST		4	3199	B C53		62
507	17	070		B	PASS		4	3203	B U56		62
508	17	080	AFTERX	B	PUTX		4	3207	B 363		62
509	17	090		DCW	P2OP		3	3213	F31		62
510	17	100		B	PUTX		4	3214	B 363		62
511	17	110		DCW	LST5		3	3220	E28		62
512	17	120		MLC	LST6,LST5		7	3221	M E25 E28		62
513	17	130		MLC			1	3228	M		63
514	17	140		B	AFT1		4	3229	B ?77		63
515	17	150	OUTMOV	SBR	OUTMV1&3		4	3233	H B94		63
516	17	160		B	NMTST		4	3237	B J38		63
517	17	170		DCW	OUTMV2		3	3243	B58		63
518	17	180		MLC	NAME,SAVE		7	3244	M E59 F34		63
519	17	190		MLC	NAME,PAR1		7	3251	M E59 E83		63
520	17	200	OUTMV2	B	GTSYM		4	3258	B J20		64
521	17	210		B	NMTST		4	3262	B J38		64
522	17	220		DCW	OUTMV1		3	3268	B91		64
523	17	230		MLC	NAME,PAR2		7	3269	M E59 E86		64
524	17	240		MLC	@)15@,OUTOP		7	3276	M G14 E80		64
525	17	250		B	OUTMC2		4	3283	B M32		64
526	18	010		B	GTSYM		4	3287	B J20		64
527	18	020	OUTMV1	B	*		4	3291	B B94		65
528	18	030	OUTAUG	SBR	OUTAG1&3		4	3295	H C52		65
529	18	040		B	NMTST		4	3299	B J38		65
530	18	050		DCW	*&1		3	3305	C06		65
531	18	060		MLC	NAME,PAR1		7	3306	M E59 E83		65
532	18	070		MLC	SAVE,PAR2		7	3313	M F34 E86		65
533	18	080		MLC	@)98@,OUTOP		7	3320	M G17 E80		65
534	18	090		B	OUTMC2		4	3327	B M32		66
535	18	100		MLC	SAVE,PAR1		7	3331	M F34 E83		66
536	18	110		MLC	@.ME@,OUTOP		7	3338	M G20 E80		66
537	18	120		B	OUTMC1		4	3345	B M17		66
538	18	130	OUTAG1	B	*		4	3349	B C52		66
539	18	140	OUTLST	SBR	OUTLT1&3		4	3353	H C71		66
540	18	150		B	PUTX		4	3357	B 363		66
541	18	160		DCW	LTOP		3	3363	E08		67
542	18	170		B	OTPRLT		4	3364	B C72		67
543	18	180	OUTLT1	B	*		4	3368	B C71		67
544	18	190	OTPRLT	SBR	OTPR01&3		4	3372	H D23		67
545	18	200		MLC	&LST1,X3		7	3376	M G23 099		67
546	18	210	OTPR02	MLC	0&X3,OUTSYM		7	3383	M 0?0 E77		67
547	18	220		SAR	X3		4	3390	Q 099		67

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
548	18	230		B	PUTX		4	3394	B 363		68
549	18	240		DCW	OUTSYM		3	3400	E77		68
550	18	250		BCE	OTPR03,0&X3,|		8	3401	B D13 0?0 |		68
551	19	010		B	OTPR02		4	3409	B C83		68
552	19	020	OTPR03	B	PUTX		4	3413	B 363		68
553	19	030		DCW	MACSEP		3	3419	E71		68
554	19	040	OTPR01	B	*		4	3420	B D23		68
555	19	050	GNLAB	SBR	X1		4	3424	H 089		69
556	19	060		MLC	2&X1,GNLAB1&6		7	3428	M 0|2 D84		69
557	19	070		BAV	*&1		5	3435	B D40 Z		69
558	19	080		A	&1,GNNM		7	3440	A F65 E02		69
559	19	090		BAV	GNLAB2		5	3447	B D89 Z		69
560	19	100		C	GNNM-1,@0@		7	3452	C E01 F59		69
561	19	110		BU	GNLAB3		5	3459	B D71 /		70
562	19	120		MLC	@J@,GNNM-1		7	3464	M G24 E01		70
563	19	130	GNLAB3	MZ	@!@,GNNM-1		7	3471	Y G25 E01		70
564	19	140	GNLAB1	MLC	GNNM,*		7	3478	M E02 D84		70
565	19	150		B	3&X1		4	3485	B 0|3		70
566	19	160	GNLAB2	MLC	@SJ0@,GNNM		7	3489	M G28 E02		70
567	19	170		B	GNLAB1		4	3496	B D78		71
568	19	180	GNNM	DCW	@JJ0@		3	3502			71
569	19	190	RLNK	DCW	@.RK@		3	3505			71
570	19	200	LTOP	DCW	@.LT@		3	3508			71
571	19	210	SWRT	DCW	@0@		1	3509			71
572	19	220		DC	@|@		1	3510			71
573	19	230	LST10	DCW	#3		3	3513			71
574	19	240	LST9	DCW	#3		3	3516			71
575	19	250	LST8	DCW	#3		3	3519			72
576	20	010	LST7	DCW	#3		3	3522			72
577	20	020	LST6	DCW	#3		3	3525			72
578	20	030	LST5	DCW	#3		3	3528			72
579	20	040	LST4	DCW	#3		3	3531			72
580	20	050	LST3	DCW	#3		3	3534			72
581	20	060	LST2	DCW	#3		3	3537			72
582	20	070	LST1	DCW	#3		3	3540			73
583	20	080	SUNTL	DCW	@*18@		3	3543			73
584	20	090	SVARY	DCW	@*07@		3	3546			73
585	20	100	SAFT	DCW	@*22@		3	3549			73
586	20	110		DCW	@Z@		1	3550			73
587	20	120	GT	DCW	@A0@		2	3552			73
588	20	130	GTSW	DCW	@0@		1	3553			73
589	20	140	SPROC	DCW	@*01@		3	3556			74
590	20	150	NAME	DCW	#3		3	3559			74
591	20	160	SBOP	DCW	@.SB@		3	3562			74
592	20	170	LOC	DCW	@.LC@		3	3565			74
593	20	180	OP	DCW	@.OP@		3	3568			74
594	20	190	MACSEP	DCW	@.MC@		3	3571			74
595	20	200	RPRN	DCW	@)@		3	3574			74
596	20	210	OUTSYM	DCW	#3		3	3577			75
597	20	220	OUTOP	DCW	#3		3	3580			75

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
598	20	230	PAR1	DCW	#3		3	3583			75
599	20	240	PAR2	DCW	#3		3	3586			75
600	20	250	PAR3	DCW	#3		3	3589			75
601	21	010	SSUB	DCW	@)01@		3	3592			75
602	21	020	SMLT	DCW	@)02@		3	3595			75
603	21	030	SPRF	DCW	@)03@		3	3598			76
604	21	040	SCOMP	DCW	@)05@		3	3601			76
605	21	050	SDIV	DCW	@)06@		3	3604			76
606	21	060	SMOV	DCW	@)15@		3	3607			76
607	21	070	SADD	DCW	@)18@		3	3610			76
608	21	080	SFRM	DCW	@*28@		3	3613			76
609	21	090	SINTO	DCW	@*27@		3	3616			76
610	21	100	SBY	DCW	@*35@		3	3619			77
611	21	110	SRND	DCW	@*10@		3	3622			77
612	21	120	SGIV	DCW	@*16@		3	3625			77
613	21	130	P1OP	DCW	@.P1@		3	3628			77
614	21	140	P2OP	DCW	@.P2@		3	3631			77
615	21	150	SAVE	DCW	#3		3	3634			77
616	21	160	SSZE	DCW	@/10@		3	3637			77
617	21	170	GTADR	DCW	#3		3	3640			78
618	21	180	EOP	DCW	@.EP@		3	3643			78
619	21	190	PRSW	DCW	@0@		1	3644			78
620	21	200	SUBSW	DCW	@0@		1	3645			78
621	21	210	SE	DCW	@.SE@		3	3648			78
622	21	220	SEND	DCW	@.EN@		3	3651			78
623	21	230	ELSW	DCW	@0@		1	3652			78
624	21	240	SELSE	DCW	@*02@		3	3655			79
625	21	250		LTORG					3656		
				DCW	@F3S@		3	3658		LIT	79
					@0@		1	3659		LIT	79
					@A0@		2	3661		LIT	79
					@ &@		3	3664		LIT	79
					&1		1	3665		LIT	79
					@ -@		3	3668		LIT	79
					@ /@		3	3671		LIT	80
					@ *@		3	3674		LIT	80
					@XXX@		3	3677		LIT	80
					@A@		1	3678		LIT	80
					@1@		1	3679		LIT	80
					@?@		1	3680		LIT	80
					@2@		1	3681		LIT	80
					@3@		1	3682		LIT	81
					@.LB@		3	3685		LIT	81
					@)20@		3	3688		LIT	81
					@.PB@		3	3691		LIT	81
					@|@		1	3692		LIT	81
					@ @		1	3693		LIT	81
					@.PA@		3	3696		LIT	81
					@.PC@		3	3699		LIT	82
					@.IM@		3	3702		LIT	82

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
					@.PE@		3	3705		LIT	82
					@.P3@		3	3708		LIT	82
					@.PF@		3	3711		LIT	82
					@)15@		3	3714		LIT	82
					@)98@		3	3717		LIT	82
					@.ME@		3	3720		LIT	83
	545				&LST1		3	3723	E40	ADCON	83
					@J@		1	3724		LIT	83
					@!@		1	3725		LIT	83
					@SJ0@		3	3728		LIT	83
626	22	010		DCW	@}@		1	3729			83
627	22	020		END	INIT				/ T57 080		84

CLEAR STORAGE 1 ,008015,019026,030,034041,045,053,0570571026 1
 CLEAR STORAGE 2 L068112,102106,113/101099/I99,027A070028)027B0010270B0261,001/001113I0 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	010	000	JOB	1401 COBOL - G02						
102	1	020		CTL	631 11						
103	1	030	X1	EQU	89			0089			
104	1	040	X2	EQU	94			0094			
105	1	050	X3	EQU	99			0099			
106	1	060	GETX	EQU	335			0335			
107	1	070	PUTX	EQU	363			0363			
108	1	080	SUPER	EQU	351			0351			
109	1	090	CURNT	EQU	1302			1302			
110	1	100	SBNM	EQU	1305			1305			
111	1	110	GTSAVE	EQU	1307			1307			
112	1	120	HIADR	EQU	1310			1310			
113	1	130		ORG	1311				1311		
114	1	140		MLC	HIADR,SBSVAD	7		1311	M T10 J83		4
115	1	150	INIT	B	GTSYM	4		1318	B !79		4
116	1	160		BCE	SCANXT,SCSW,0	8		1322	B W50 K51 0		4
117	1	170	NMTST	C	CURNT-2,@A@	7		1330	C T00 E72		4
118	1	180		BH	ENTER	5		1337	B T86 U		4
119	1	190		MLC	CURNT,NAME	7		1342	M T02 J16		4
120	1	200		B	GTSYM	4		1349	B !79		5
121	1	210		C	CURNT,SBOP	7		1353	C T02 J77		5
122	1	220		BE	ENSBSV	5		1360	B Y20 S		5
123	1	230		MLC	ENDADR,X3	7		1365	M J80 099		5
124	1	240		MCM	NAME-2,F&X3	7		1372	P J14 FC4		5
125	1	250		A	&3,ENDADR	7		1379	A E73 J80		5
126	2	010	ENTER	MLC	ENDADR,X3	7		1386	M J80 099		6
127	2	020		MLC	CURNT,F&2&X3	7		1393	M T02 FC6		6
128	2	030		A	&3,ENDADR	7		1400	A E73 J80		6
129	2	040		MLC	@|@,F&3&X3	7		1407	M E74 FC7		6
130	2	050	SCAN	BCE	LFPLCK,LFTSW,1	8		1414	B V53 K53 1		6
131	2	060	RTCHK	MLC	PR,X3	7		1422	M K09 099		7
132	2	070		BCE	INIT,F-2&X3,|	8		1429	B T18 FC2 |		7
133	2	080		C	F-2&X3,@A@	7		1437	C FC2 E72		7
134	2	090		BH	RTLKP	5		1444	B U60 U		7
135	2	100	RTENT	A	&3,PR	7		1449	A E73 K09		7
136	2	110		B	RTCHK	4		1456	B U22		7
137	2	120	RTLKP	B	LKNAME	4		1460	B M07		8
138	2	130		DCW	RTNTFD	3		1466	V35		8
139	2	140		MLC	0&X1,CDR	7		1467	M 0|0 K06		8
140	2	150		MLC		1		1474	M		8
141	2	160		MLC	RRV,DIFF	7		1475	M K03 K55		8
142	2	170		S	LLV,DIFF	7		1482	S J88 K55		8
143	2	180		BWZ	SWCODE,DIFF,K	8		1489	V V08 K55 K		8
144	2	190	FORCE	MLC	CDL,X2	7		1497	M J93 094		9
145	2	200		B	0&X2	4		1504	B 0!0		9
146	2	210	SWCODE	MLC	PR,PL	7		1508	M K09 J96		9
147	2	220		MLC		1		1515	M		9

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	2	230		MLC			1	1516	M		9
149	2	240		MLC	@1@,LFTSW		7	1517	M E75	K53	9
150	2	250		A	&3,PR		7	1524	A E73	K09	9
151	3	010		B	FORCHK		4	1531	B W34		10
152	3	020	RTNTFD	MLC	@.KV@,F&X3		7	1535	M E78	FC4	10
153	3	030		B	RTLKP		4	1542	B U60		10
154	3	040	OTKVOP	B	PUTX		4	1546	B 363		10
155	3	050		DCW	KVOP		3	1552	K84		10
156	3	060	LFPLCK	MLC	@1@,LFTSW		7	1553	M E75	K53	10
157	3	070		MLC	PL,X3		7	1560	M J96	099	10
158	3	080		BCE	INIT,F-2&X3,|		8	1567	B T18	FC2 |	11
159	3	090		C	F-2&X3,@A@		7	1575	C FC2	E72	11
160	3	100		BH	LFLKP		5	1582	B V98	U	11
161	3	110		A	&3,PL		7	1587	A E73	J96	11
162	3	120		B	LFPLCK		4	1594	B V53		11
163	3	130	LFLKP	B	LKNAME		4	1598	B M07		11
164	3	140		DCW	LFNTFD		3	1604	W05		11
165	3	150	LFNTFD	MLC	PL,PR		7	1605	M J96	K09	12
166	3	160		A	&3,PR		7	1612	A E73	K09	12
167	3	170		MLC	0&X1,CDL		7	1619	M 0|0	J93	12
168	3	180		MLC			1	1626	M		12
169	3	190		MLC	@0@,LFTSW		7	1627	M E79	K53	12
170	3	200	FORCHK	C	F&X3,@.KV@		7	1634	C FC4	E78	12
171	3	210		BE	FORCE		5	1641	B U97	S	13
172	3	220		B	RTCHK		4	1646	B U22		13
173	3	230	SCANXT	C	CURNT-2,@A@		7	1650	C T00	E72	13
174	3	240		BH	SCXT1		5	1657	B W73	U	13
175	3	250	SCXT7	B	PUTX		4	1662	B 363		13
176	4	010		DCW	CURNT		3	1668	T02		13
177	4	020		B	INIT		4	1669	B T18		13
178	4	030	SCXT1	C	CURNT,SCMP		7	1673	C T02	K37	14
179	4	040		BE	SCXT3		5	1680	B X16	S	14
180	4	050		C	CURNT,SUNTL		7	1685	C T02	K40	14
181	4	060		BE	SCXT3		5	1692	B X16	S	14
182	4	070	SCXT4	C	CURNT,SIF		7	1697	C T02	K43	14
183	4	080		BU	SCXT5		5	1704	B X27	/	14
184	4	090		MLC	@1@,SCSW1		7	1709	M E75	K52	15
185	4	100	SCXT3	MLC	@1@,SCSW		7	1716	M E75	K51	15
186	4	110		B	ENTER		4	1723	B T86		15
187	4	120	SCXT5	BCE	SCXT6,SCSW1,0		8	1727	B X39	K52 0	15
188	4	130		B	SCXT7		4	1735	B W62		15
189	4	140	SCXT6	C	CURNT,NOTE		7	1739	C T02	J26	15
190	4	150		BE	SCXT8		5	1746	B X63	S	16
191	4	160		C	CURNT,DCOP		7	1751	C T02	J29	16
192	4	170		BU	SCXT9		5	1758	B X97	/	16
193	4	180	SCXT8	MLC	CURNT,SYM		7	1763	M T02	J20	16
194	4	190	SCXT10	B	PUTX		4	1770	B 363		16
195	4	200		DCW	CURNT		3	1776	T02		16
196	4	210		B	GTSYM		4	1777	B !79		16
197	4	220		C	CURNT,SYM		7	1781	C T02	J20	17

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
198	4	230		BU	SCXT10		5	1788	B X70 /		17
199	4	240		B	SCXT7		4	1793	B W62		17
200	4	250	SCXT9	C	CURNT,LOC		7	1797	C T02 J74		17
201	5	010		BU	SCXT7		5	1804	B W62 /		17
202	5	020		MLC	MACSEP,SYM		7	1809	M K58 J20		17
203	5	030		B	SCXT10		4	1816	B X70		17
204	5	040	ENSBSV	A	&1,SBNM		7	1820	A E80 T05		18
205	5	050		C	SBNM,@?@		7	1827	C T05 E81		18
206	5	060		BU	ENTSB2		5	1834	B Y46 /		18
207	5	070		MLC	@A@,SBNM		7	1839	M E72 T05		18
208	5	080	ENTSB2	MLC	SBNM,FSUB		7	1846	M T05 K76		18
209	5	090		MLC	NAME		4	1853	M J16		18
210	5	100		SBR	MVFSUB&6		4	1857	H Y71		19
211	5	110	ENTSB1	B	GTSYM		4	1861	B !79		19
212	5	120	MVFSUB	MLC	CURNT,*		7	1865	M T02 Y71		19
213	5	130		SBR	MVFSUB&6		4	1872	H Y71		19
214	5	140		C	CURNT,RPRN		7	1876	C T02 K46		19
215	5	150		BU	ENTSB1		5	1883	B Y61 /		19
216	5	160		MLC	SBSVAD,X1		7	1888	M J83 089		19
217	5	170		LCA	FSUB,0&X1		7	1895	L K76 0|0		20
218	5	180		SBR	SBSVAD		4	1902	H J83		20
219	5	190		SBR	X1		4	1906	H 089		20
220	5	200		MLC	@|@,0&X1		7	1910	M E74 0|0		20
221	5	210		MLC	SBNM,CURNT		7	1917	M T05 T02		20
222	5	220		B	NMTST		4	1924	B T30		20
223	5	230	SUBOUT	B	PUTX		4	1928	B 363		20
224	5	240		DCW	LOC		3	1934	J74		21
225	5	250		B	PUTX		4	1935	B 363		21
226	6	010		DCW	SBOP		3	1941	J77		21
227	6	020		B	PUTX		4	1942	B 363		21
228	6	030		DCW	OP		3	1948	J68		21
229	6	040		MLC	@1@,SUBSW		7	1949	M E75 K81		21
230	6	050		MLC	X2,SAVE2		7	1956	M 094 J38		21
231	6	060		MLC	0&X2,SBNAME		7	1963	M 0!0 J41		22
232	6	070		SAR	X2		4	1970	Q 094		22
233	6	080		MLC	0&X2,TBNAME		7	1974	M 0!0 J44		22
234	6	090	SUBOT1	MLC	0&X2,SYM		7	1981	M 0!0 J20		22
235	6	100		SAR	X2		4	1988	Q 094		22
236	6	110		C	SYM,RPRN		7	1992	C J20 K46		22
237	6	120		BE	SUBOT2		5	1999	B !15 S		23
238	6	130		B	PUTX		4	2004	B 363		23
239	6	140		DCW	SYM		3	2010	J20		23
240	6	150		B	SUBOT1		4	2011	B Z81		23
241	6	160	SUBOT2	B	PUTX		4	2015	B 363		23
242	6	170		DCW	SBNAME		3	2021	J41		23
243	6	180		B	PUTX		4	2022	B 363		23
244	6	190		DCW	TBNAME		3	2028	J44		24
245	6	200		B	PUTX		4	2029	B 363		24
246	6	210		DCW	MACSEP		3	2035	K58		24
247	6	220		MLC	SAVE2,X2		7	2036	M J38 094		24

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
248	6	230		MLC	SBSVAD,X1		7	2043	M J83 089		24
249	6	240		MLC	18&X1,0&X2		7	2050	M 0/8 0!0		24
250	6	250		CW	1&X1		4	2057	) 0|1		24
251	7	010		MLC	@|@,18&X1		7	2061	M E74 0/8		25
252	7	020		A	&18,SBSVAD		7	2068	A E83 J83		25
253	7	030		B	PPEXT		4	2075	B 011		25
254	7	040	GTSYM	SBR	GT01&3		4	2079	H !96		25
255	7	050		B	GETX		4	2083	B 335		25
256	7	060		DCW	CURNT		3	2089	T02		25
257	7	070		DCW	EOJ		3	2092	!97		25
258	7	080	GT01	B	*		4	2093	B !96		26
259	7	090	EOJ	B	PUTX		4	2097	B 363		26
260	7	100		DCW	EOP		3	2103	J13		26
261	7	110		B	SUPER		4	2104	B 351		26
262	7	120		DCW	@G03@		3	2110			26
263	7	130	EOP	DCW	@.EP@		3	2113			26
264	7	140	NAME	DCW	#3		3	2116			26
265	7	150		DCW	@|@		1	2117			27
266	7	160	SYM	DCW	#3		3	2120			27
267	7	170	OUTSYM	DCW	#3		3	2123			27
268	7	180	NOTE	DCW	@*24@		3	2126			27
269	7	190	DCOP	DCW	@#DC@		3	2129			27
270	7	200	OUTOP	DCW	#3		3	2132			27
271	7	210	SAVE1	DCW	#3		3	2135			27
272	7	220	SAVE2	DCW	#3		3	2138			28
273	7	230	SBNAME	DCW	#3		3	2141			28
274	7	240	TBNAME	DCW	#3		3	2144			28
275	7	250	PARNM	DCW	#3		3	2147			28
276	8	010	PAR	DCW	#18		18	2165			28
277	8	020	OP	DCW	@.OP@		3	2168			28
278	8	030	OUTOP1	DCW	#3		3	2171			28
279	8	040	LOC	DCW	@.LC@		3	2174			29
280	8	050	SBOP	DCW	@.SB@		3	2177			29
281	8	060	ENDADR	DCW	@001@		3	2180			29
282	8	070	SBSVAD	DCW	@G92@		3	2183			29
283	8	080	RVOPL	DCW	#3		3	2186			29
284	8	090	LLV	DCW	#2		2	2188			29
285	8	100	LRV	DC	#2		2	2190			29
286	8	110	CDL	DC	#3		3	2193			29
287	8	120	PL	DCW	@003@		3	2196			29
288	8	130	RVOPR	DCW	#3		3	2199			30
289	8	140	RLV	DCW	#2		2	2201			30
290	8	150	RRV	DC	#2		2	2203			30
291	8	160	CDR	DC	#3		3	2206			30
292	8	170	PR	DCW	#3		3	2209			30
293	8	180	ZERO	DCW	@A0Q@		3	2212			30
294	8	190		DCW	@Z@		1	2213			30
295	8	200	GT	DCW	@A0@		2	2215			30
296	8	210	TBADR	DCW	&KVTAB		3	2218	?58		30
297	8	220	PRADR	DCW	&PAR		3	2221	J65		31

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
298	8	230	GNNM	DCW	@JA0@		3	2224			31
299	8	240		DCW	#3		3	2227			31
300	8	250		DC	@2020@		4	2231			31
301	9	010	CDVCLS	DC	CDCLS		3	2234	?99		31
302	9	020	SCMP	DCW	@)05@		3	2237			31
303	9	030	SUNTL	DCW	@*18@		3	2240			31
304	9	040	SIF	DCW	@)19@		3	2243			31
305	9	050	RPRN	DCW	@)@		3	2246			31
306	9	060	SOR	DCW	@\$31@		3	2249			32
307	9	070	XSW	DCW	@0@		1	2250			32
308	9	080	SCSW	DC	@0@		1	2251			32
309	9	090	SCSW1	DC	@0@		1	2252			32
310	9	100	LFTSW	DCW	@1@		1	2253			32
311	9	110	DIFF	DCW	#2		2	2255			32
312	9	120	MACSEP	DCW	@.MC@		3	2258			32
313	9	130	FSUB	DCW	#18		18	2276			32
314	9	140	SEOP	DCW	@.SE@		3	2279			32
315	9	150	RELSW	DCW	@0@		1	2280			33
316	9	160	SUBSW	DC	@0@		1	2281			33
317	9	170	KVOP	DCW	@.KV@		3	2284			33
318	9	180	KVSW	DCW	@0@		1	2285			33
319	9	190	GNLB	B	GNLAB		4	2286	B C25		33
320	9	200		DCW	PARNM		3	2292	J47		33
321	9	210	GNLB3	B	PUTPAR		4	2293	B N37		33
322	9	220		DCW	PARNM		3	2299	J47		33
323	9	230		B	OUTMAC		4	2300	B P27		34
324	9	240		MLC	PARNM,F&3&X3		7	2304	M J47 FC7		34
325	9	250		BCE	GNLB1,CLSSW,B		8	2311	B L44 ?84 B		34
326	10	010		MCM	F&10&X3,F&4&X3		7	2319	P FD4 FC8		34
327	10	020	GNLB5	S	&6,ENDADR		7	2326	S E84 J80		34
328	10	030	GNLB2	MZ	@ @,ENDADR		7	2333	Y E85 J80		35
329	10	040		B	LFPLCK		4	2340	B V53		35
330	10	050	GNLB1	MCM	F&7&X3,F&4&X3		7	2344	P FD1 FC8		35
331	10	060		MLC	@N@,CLSSW		7	2351	M E86 ?84		35
332	10	070	GNLB4	S	&3,ENDADR		7	2358	S E73 J80		35
333	10	080		B	GNLB2		4	2365	B L33		35
334	10	090	GNGT	A	&1,GT		7	2369	A E80 K15		36
335	10	100		MLC	GT,PARNM		7	2376	M K15 J47		36
336	10	110		MLC			1	2383	M		36
337	10	120		C	GT,GTSAVE		7	2384	C K15 T07		36
338	10	130		BH	GNLB3		5	2391	B K93 U		36
339	10	140		MLC	GT,GTSAVE		7	2396	M K15 T07		36
340	10	150		B	GNLB3		4	2403	B K93		36
341	10	160	LKNAME	SBR	X2		4	2407	H 094		37
342	10	170		MLC	2&X2,LKFEXT&3		7	2411	M 0!2 N36		37
343	10	180		MLC	F&X3,CDVCLS-7		7	2418	M FC4 K27		37
344	10	190		C	F-1&X3,@\$1@		7	2425	C FC3 E88		37
345	10	200		BU	LK01		5	2432	B M48 /		37
346	10	210		MLC	@%1@,CDVCLS-8		7	2437	M E90 K26		37
347	10	220		B	LK02		4	2444	B M67		38

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
348	10	230	LK01	C	F-1&X3,@%1@	7		2448	C FC3 E90		38
349	10	240		BU	LK05	5		2455	B M78 /		38
350	10	250		MLC	@\$1@,CDVCLS-8	7		2460	M E88 K26		38
351	11	010	LK02	MLC	&CDVCLS,X1	7		2467	M E93 089		38
352	11	020		B	LK10	4		2474	B N29		38
353	11	030	LK05	MLC	TBADR,X1	7		2478	M K18 089		39
354	11	040	LK04	BCE	LKFEXT,0&X1,|	8		2485	B N33 0|0]		39
355	11	050		C	F&X3,0&X1	7		2493	C FC4 0|0		39
356	11	060		BE	LK09	5		2500	B N18 S		39
357	11	070		C	0&X1	4		2505	C 0|0		39
358	11	080		C		1		2509	C		39
359	11	090		SAR	X1	4		2510	Q 089		39
360	11	100		B	LK04	4		2514	B M85		40
361	11	110	LK09	C	@ @,0&X1	7		2518	C E96 0|0		40
362	11	120		SBR	X1	4		2525	H 089		40
363	11	130	LK10	B	3&X2	4		2529	B 0!3		40
364	11	140	LKFEXT	B	*	4		2533	B N36		40
365	11	150	PUTPAR	SBR	X1	4		2537	H 089		40
366	11	160		MLC	2&X1,PPAR1&3	7		2541	M 0|2 N58		40
367	11	170		MLC	X1,SAVE1	7		2548	M 089 J35		41
368	11	180	PPAR1	MLC	*,PARNM	7		2555	M N61 J47		41
369	11	190		MLC	PRADR,X1	7		2562	M K21 089		41
370	11	200		MLC	PARNM,0&X1	7		2569	M J47 0|0		41
371	11	210		SBR	X1	4		2576	H 089		41
372	11	220		SBR	PRADR	4		2580	H K21		41
373	11	230		MLC	@|@,0&X1	7		2584	M E74 0|0		42
374	11	240		C	PARNM-2,@A@	7		2591	C J45 E72		42
375	11	250		BH	PPEXT	5		2598	B 011 U		42
376	12	010		BWZ	SUBCHK,PARNM,B	8		2603	V 022 J47 B		42
377	12	020	PPEXT	MLC	SAVE1,X1	7		2611	M J35 089		42
378	12	030		B	3&X1	4		2618	B 0|3		42
379	12	040	SUBCHK	MLC	HIADR,X2	7		2622	M T10 094		43
380	12	050	SUBCK1	BCE	PPEXT,0&X2,|	8		2629	B 011 0!0 |		43
381	12	060		C	0&X2,PARNM	7		2637	C 0!0 J47		43
382	12	070		BE	SUBOUT	5		2644	B Z28 S		43
383	12	080		C	0&X2	4		2649	C 0!0		43
384	12	090		SAR	X2	4		2653	Q 094		43
385	12	100		B	SUBCK1	4		2657	B 029		43
386	12	110	OUTPAR	SBR	OUTPR1&3	4		2661	H P26		44
387	12	120		MLC	&PAR,X2	7		2665	M E99 094		44
388	12	130	OUTPR3	BCE	OUTPR2,0&X2,|	8		2672	B P02 0!0 |		44
389	12	140		MLC	0&X2,OUTSYM	7		2680	M 0!0 J23		44
390	12	150		SAR	X2	4		2687	Q 094		44
391	12	160		B	PUTX	4		2691	B 363		44
392	12	170		DCW	OUTSYM	3		2697	J23		44
393	12	180		B	OUTPR3	4		2698	B 072		45
394	12	190	OUTPR2	B	PUTX	4		2702	B 363		45
395	12	200		DCW	MACSEP	3		2708	K58		45
396	12	210		MLC	&PAR,PRADR	7		2709	M F02 K21		45
397	12	220		MLC	@|@,PAR	7		2716	M E74 J65		45

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
398	12	230	OUTPR1	B	*		4	2723	B P26		45
399	12	240	OUTMAC	SBR	OUTPR1&3		4	2727	H P26		45
400	12	250		MLC	&LOC,X2		7	2731	M F05 094		46
401	13	010		B	OUTPR3		4	2738	B O72		46
402	13	020	PLMN6	SBR	PLM6X&3		4	2742	H P70		46
403	13	030		S	&6,PL		7	2746	S E84 J96		46
404	13	040	PLMN3E	MZ	@ @,PL		7	2753	Y E85 J96		46
405	13	050		MLC	PL,X3		7	2760	M J96 099		46
406	13	060	PLM6X	B	*		4	2767	B P70		47
407	13	070	PLMN3	SBR	PLM6X&3		4	2771	H P70		47
408	13	080		S	&3,PL		7	2775	S E73 J96		47
409	13	090		B	PLMN3E		4	2782	B P53		47
410	13	100		DCW	@]@		1	2786			47
411	13	110		DCW	@0056@		4	2790			47
412	13	120		DC	CDOUT		3	2793	D33		47
413	13	130		DCW	@/10@		3	2796			47
414	13	140		DCW	@0254@		4	2800			48
415	13	150		DC	CDOUT		3	2803	D33		48
416	13	160		DCW	@)@		3	2806			48
417	13	170		DCW	@5402@		4	2810			48
418	13	180		DC	CDLPRN		3	2813	B22		48
419	13	190		DCW	@ %@		3	2816			48
420	13	200		DCW	@1010@		4	2820			48
421	13	210		DC	CDARH		3	2823	?59		48
422	13	220		DCW	@ *@		3	2826			48
423	13	230		DCW	@1212@		4	2830			48
424	13	240		DC	CDARH		3	2833	?59		49
425	13	250		DCW	@ -@		3	2836			49
426	14	010		DCW	@1212@		4	2840			49
427	14	020		DC	CDARH		3	2843	?59		49
428	14	030		DCW	@ &@		3	2846			49
429	14	040		DCW	@1010@		4	2850			49
430	14	050		DC	CDARH		3	2853	?59		50
431	14	060		DCW	@ /@		3	2856			50
432	14	070		DCW	@0706@		4	2860			50
433	14	080		DC	CDARH		3	2863	?59		50
434	14	090		DCW	@ **@		3	2866			50
435	14	100		DCW	@1442@		4	2870			50
436	14	110		DC	CDASGN		3	2873	D26		51
437	14	120		DCW	@*10@		3	2876			51
438	14	130		DCW	@1442@		4	2880			51
439	14	140		DC	CDASGN		3	2883	D26		51
440	14	150		DCW	@*16@		3	2886			51
441	14	160		DCW	@0505@		4	2890			51
442	14	170		DC	CDUM		3	2893	A57		52
443	14	180		DCW	@.UM@		3	2896			52
444	14	190		DCW	@5050@		4	2900			52
445	14	200		DC	CDOUT		3	2903	D33		52
446	14	210		DCW	@*18@		3	2906			52
447	14	220		DCW	@0050@		4	2910			52

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
448	14	230		DC	CDANOR		3	2913	D08		53
449	14	240		DCW	@)19@		3	2916			53
450	14	250		DCW	@.LE@		3	2919			53
451	15	010		DC	@2020@		4	2923			53
452	15	020		DC	CDRL		3	2926	A06		53
453	15	030		DCW	@\$20@		3	2929			53
454	15	040		DCW	@2020@		4	2933			53
455	15	050		DC	CDRL		3	2936	A06		54
456	15	060		DCW	@.LE@		3	2939			54
457	15	070		DCW	@.SW@		3	2942			54
458	15	080		DC	@2020@		4	2946			54
459	15	090		DC	CDCLS		3	2949	?99		54
460	15	100		DCW	@%SW@		3	2952			54
461	15	110		DCW	@2020@		4	2956			54
462	15	120		DC	CDCLS		3	2959	?99		55
463	15	130		DCW	@.SW@		3	2962			55
464	15	140		DCW	@.GE@		3	2965			55
465	15	150		DC	@2020@		4	2969			55
466	15	160		DC	CDRL		3	2972	A06		55
467	15	170		DCW	@\$21@		3	2975			55
468	15	180		DCW	@2020@		4	2979			55
469	15	190		DC	CDRL		3	2982	A06		56
470	15	200		DCW	@.GE@		3	2985			56
471	15	210		DCW	@ #@		3	2988			56
472	15	220		DC	@2020@		4	2992			56
473	15	230		DC	CDRL		3	2995	A06		56
474	15	240		DCW	@.NE@		3	2998			56
475	15	250		DCW	@2020@		4	3002			56
476	16	010		DC	CDRL		3	3005	A06		57
477	16	020		DCW	@ #@		3	3008			57
478	16	030		DCW	@0056@		4	3012			57
479	16	040		DC	CDKV		3	3015	D01		57
480	16	050		DCW	@.KV@		3	3018			57
481	16	060		DCW	@5050@		4	3022			57
482	16	070		DC	CDOUT		3	3025	D33		58
483	16	080		DCW	@)05@		3	3028			58
484	16	090		DCW	@1918@		4	3032			58
485	16	100		DC	CDNOT		3	3035	A93		58
486	16	110		DCW	@\$30@		3	3038			58
487	16	120		DCW	@0050@		4	3042			58
488	16	130		DC	CDANOR		3	3045	D08		59
489	16	140		DCW	@\$32@		3	3048			59
490	16	150		DCW	@0050@		4	3052			59
491	16	160		DC	CDANOR		3	3055	D08		59
492	16	170	KVTAB	DCW	@\$31@		3	3058			59
493	16	180	CDARH	MLC	&GNGT, LNKOT1&3		7	3059	M F08	?98	59
494	16	190	CDARH1	B	PLMN6		4	3066	B P42		60
495	16	200		MLC	F&6&X3, OUTOP1		7	3070	M FD0	J71	60
496	16	210		B	PUTPAR		4	3077	B N37		60
497	16	220		DCW	F&3&X3		3	3083	FC7		60

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
498	16	230	CLSSW	NOP	LNKOT1		4	3084	N ?95		60
499	16	240		B	PUTPAR		4	3088	B N37		60
500	16	250		DCW	F&9&X3		3	3094	FD3		60
501	17	010	LNKOT1	B	*		4	3095	B ?98		61
502	17	020	CDCLS	MLC	@B@,CLSSW		7	3099	M F09 ?84		61
503	17	030	CDRL	MLC	PR,X3		7	3106	M K09 099		61
504	17	040		MLC	@A0@,GT		7	3113	M F11 K15		61
505	17	050		C	F&X3,SOR		7	3120	C FC4 K49		61
506	17	060		BE	CDREL1		5	3127	B A46 S		61
507	17	070		MLC	PL,X3		7	3132	M J96 099		62
508	17	080		MLC	RVOPL,F&X3		7	3139	M J86 FC4		62
509	17	090	CDREL1	MLC	&GNLB,LNKOT1&3		7	3146	M F14 ?98		62
510	17	100		B	CDARH1		4	3153	B ?66		62
511	17	110	CDUM	B	PLMN3		4	3157	B P71		62
512	17	120		MLC	@ -@,OUTOP1		7	3161	M F17 J71		62
513	17	130		B	PUTPAR		4	3168	B N37		63
514	17	140		DCW	ZERO		3	3174	K12		63
515	17	150		B	PUTPAR		4	3175	B N37		63
516	17	160		DCW	F&6&X3		3	3181	FD0		63
517	17	170		MLC	@B@,CLSSW		7	3182	M F09 ?84		63
518	17	180		B	GNGT		4	3189	B L69		63
519	17	190	CDNOT	MLC	PR,X3		7	3193	M K09 099		63
520	17	200		MLC	RVOPR,F&X3		7	3200	M J99 FC4		64
521	17	210		B	PLMN3		4	3207	B P71		64
522	17	220		MCM	F&4&X3,F&1&X3		7	3211	P FC8 FC5		64
523	17	230		B	GNLB4		4	3218	B L58		64
524	17	240	CDLPRN	MLC	PL,X3		7	3222	M J96 099		64
525	17	250		BWZ	CDLP01,F&2&X3,2		8	3229	V B49 FC6 2		64
526	18	010		C	F&1&X3,@Z@		7	3237	C FC5 F18		65
527	18	020		BU	CDOUT		5	3244	B D33 /		65
528	18	030	CDLP01	B	PLMN3		4	3249	B P71		65
529	18	040		MCM	F&10&X3,F&7&X3		7	3253	P FD4 FD1		65
530	18	050		MCM	F&4&X3,F&1&X3		7	3260	P FC8 FC5		65
531	18	060		B	GNLB5		4	3267	B L26		65
532	18	070	CDKV1	MLC	@0@,KVSU		7	3271	M E79 K85		66
533	18	080		MLC	@00@,SCSW1		7	3278	M F20 K52		66
534	18	090		MLC	@1@,LFTSW		7	3285	M E75 K53		66
535	18	100		MLC	@001@,ENDADR		7	3292	M F23 J80		66
536	18	110		BCE	SCANXT,SUBSW,0		8	3299	B W50 K81 0		66
537	18	120		MLC	@0@,SUBSW		7	3307	M E79 K81		67
538	18	130		B	PUTX		4	3314	B 363		67
539	18	140		DCW	SEOP		3	3320	K79		67
540	18	150		B	SCANXT		4	3321	B W50		67
541	18	160	GNLAB	SBR	X1		4	3325	H 089		67
542	18	170		MLC	2&X1,GNLAB1&6		7	3329	M 0|2 C85		67
543	18	180		BAV	*&1		5	3336	B C41 Z		67
544	18	190		A	&1,GNNM		7	3341	A E80 K24		68
545	18	200		BAV	GNLAB2		5	3348	B C90 Z		68
546	18	210		C	GNNM-1,@0@		7	3353	C K23 E79		68
547	18	220		BU	GNLAB3		5	3360	B C72 /		68

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
548	18	230		MLC	@A@,GNNM-1		7	3365	M E72 K23		68
549	18	240	GNLAB3	MZ	@&@,GNNM-1		7	3372	Y F24 K23		68
550	18	250	GNLAB1	MLC	GNNM,*		7	3379	M K24 C85		69
551	19	010		B	3&X1		4	3386	B 0|3		69
552	19	020	GNLAB2	MLC	@SA1@,GNNM		7	3390	M F27 K24		69
553	19	030		B	GNLAB1		4	3397	B C79		69
554	19	040	CDKV	MLC	@1@,KVSU		7	3401	M E75 K85		69
555	19	050	CDANOR	MLC	PL,PR		7	3408	M J96 K09		69
556	19	060		A	&3,PR		7	3415	A E73 K09		70
557	19	070		B	CDOU		4	3422	B D33		70
558	19	080	CDASGN	MLC	@A0@,GT		7	3426	M F11 K15		70
559	19	090	CDOU	MLC	@003@,PL		7	3433	M F30 J96		70
560	19	100		MLC	PL,X3		7	3440	M J96 099		70
561	19	110		C	F&X3,SCMP		7	3447	C FC4 K37		70
562	19	120		BU	CDOU1		5	3454	B D87 /		71
563	19	130		B	PUTPAR		4	3459	B N37		71
564	19	140		DCW	F&3&X3		3	3465	FC7		71
565	19	150		B	PUTPAR		4	3466	B N37		71
566	19	160		DCW	F&9&X3		3	3472	FD3		71
567	19	170		MLC	&PAR,PRADR		7	3473	M F33 K21		71
568	19	180		MLC	@|@,PAR		7	3480	M E74 J65		71
569	19	190	CDOU1	C	X3,PR		7	3487	C 099 K09		72
570	19	200		BE	CDOU2		5	3494	B E24 S		72
571	19	210		MLC	F&X3,SYM		7	3499	M FC4 J20		72
572	19	220		B	PUTX		4	3506	B 363		72
573	19	230		DCW	SYM		3	3512	J20		72
574	19	240		A	&3,X3		7	3513	A E73 099		72
575	19	250		B	CDOU1		4	3520	B D87		72
576	20	010	CDOU2	MCM	F-2&X3,F&1		7	3524	P FC2 F35		73
577	20	020		BCE	CDKV1,KVSU,1		8	3531	B B71 K85 1		73
578	20	030		S	PR,ENDADR		7	3539	S K09 J80		73
579	20	040		A	&3,ENDADR		7	3546	A E73 J80		73
580	20	050		MZ	@ @,ENDADR		7	3553	Y E85 J80		73
581	20	060		BCE	OTKVOP,F&1,)		8	3560	B V46 F35)		74
582	20	070		B	LFPLCK		4	3568	B V53		74
583	20	080		LTOG					3572		
				DCW	@A@		1	3572		LIT	74
					&3		1	3573		LIT	74
					@|@		1	3574		LIT	74
					@1@		1	3575		LIT	74
					@.KV@		3	3578		LIT	74
					@0@		1	3579		LIT	75
					&1		1	3580		LIT	75
					@?@		1	3581		LIT	75
					&18		2	3583		LIT	75
					&6		1	3584		LIT	75
					@ @		1	3585		LIT	75
					@N@		1	3586		LIT	75
					@\$1@		2	3588		LIT	76
					@%1@		2	3590		LIT	76

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
		351			&CDVCLS	3		3593	K34	ADCON	76
					@ @	3		3596		LIT	76
		387			&PAR	3		3599	J65	ADCON	76
		396			&PAR	3		3602	J65	ADCON	76
		400			&LOC	3		3605	J74	ADCON	76
		493			&GNGT	3		3608	L69	ADCON	77
					@B@	1		3609		LIT	77
					@A0@	2		3611		LIT	77
		509			&GNLB	3		3614	K86	ADCON	77
					@ -@	3		3617		LIT	77
					@Z@	1		3618		LIT	77
					@00@	2		3620		LIT	77
					@001@	3		3623		LIT	78
					@&@	1		3624		LIT	78
					@SA1@	3		3627		LIT	78
					@003@	3		3630		LIT	78
		567			&PAR	3		3633	J65	ADCON	78
584	20	090	F	DC	@ @	1		3634			78
585	20	100		DC	@ @	1		3635			78
586	20	110		DCW	@}@	1		3636			78
587	20	120		END	INIT				/ T18 080		79

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CLEAR STORAGE 1 ,008015,019026,030,034041,045,053,0570571026 1
CLEAR STORAGE 2 L068112,102106,113/101099/I99,027A070028)027B0010270B0261,001/001113I0 2
BOOTSTRAP ,008015,022029,036040,047054,061068,072/061039 ,0010011040 3

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1401 COBOL - G03 PAGE 1

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
101	1	010	000	JOB	1401 COBOL - G03						
102	1	020		CTL	631 11						
103	1	030	X1	EQU	89			0089			
104	1	040	X2	EQU	94			0094			
105	1	050	X3	EQU	99			0099			
106	1	060	GETX	EQU	335			0335			
107	1	070	PUTX	EQU	363			0363			
108	1	080	SUPER	EQU	351			0351			
109	1	090	CURNT	EQU	1302			1302			
110	1	100	SBNM	EQU	1305			1305			
111	1	110	GTSAVE	EQU	1307			1307			
112	1	120		ORG	1310				1310		
113	1	130	INIT	B	GTSYM	4		1310	B Y26		4
114	1	140		C	CURNT,LOC	7		1314	C T02 D92		4
115	1	150		BU	INIT1	5		1321	B T37 /		4
116	1	160		MLC	MACSEP,SYM	7		1326	M E29 D56		4
117	1	170		B	SCXT10	4		1333	B X99		4
118	1	180	INIT1	BCE	SCANXT,SCSW,0	8		1337	B W42 E23 0		4
119	1	190	ENTER	MLC	ENDADR,X3	7		1345	M D95 099		5
120	1	200		MLC	CURNT,F&2&X3	7		1352	M T02 EH7		5
121	1	210		A	&3,ENDADR	7		1359	A E30 D95		5
122	1	220		MLC	@|@,F&3&X3	7		1366	M E31 EH8		5
123	1	230	SCAN	BCE	LFPLCK,LFTSW,1	8		1373	B V10 E24 1		5
124	1	240	RTCHK	MLC	PR,X3	7		1381	M E15 099		6
125	1	250		BCE	INIT,F-2&X3,|	8		1388	B T10 EH3 |		6
126	2	010		C	F-2&X3,@A@	7		1396	C EH3 E32		6
127	2	020		BH	RTLKP	5		1403	B U19 U		6
128	2	030	RTENT	A	&3,PR	7		1408	A E30 E15		6
129	2	040		B	RTCHK	4		1415	B T81		6
130	2	050	RTLKP	B	LKNAME	4		1419	B Y61		7
131	2	060		DCW	RTNTFD	3		1425	U99		7
132	2	070		MLC	0&X1,CDR	7		1426	M 0|0 E12		7
133	2	080		MLC	RRV,DIFF	7		1433	M E09 E26		7
134	2	090		S	LLV,DIFF	7		1440	S D97 E26		7
135	2	100		BWZ	SWCODE,DIFF,K	8		1447	V U73 E26 K		7
136	2	110	FORCE	MLC	CDL,X2	7		1455	M E02 094		8
137	2	120		MLC	F&X3,SYR	7		1462	M EH5 D47		8
138	2	130		B	0&X2	4		1469	B 0!0		8
139	2	140	SWCODE	MLC	PR,PL	7		1473	M E15 E05		8
140	2	150		MLC		1		1480	M		8
141	2	160		MLC	@1@,LFTSW	7		1481	M E33 E24		8
142	2	170		A	&3,PR	7		1488	A E30 E15		9
143	2	180		B	FORCHK	4		1495	B W02		9
144	2	190	RTNTFD	MLC	SYEE,F&X3	7		1499	M ?44 EH5		9
145	2	200		B	RTLKP	4		1506	B U19		9
146	2	210	LFPLCK	MLC	@1@,LFTSW	7		1510	M E33 E24		9
147	2	220		MLC	PL,X3	7		1517	M E05 099		9

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	2	230		C	PL, NULL		7	1524	C E05 D39		10
149	2	240		BE	LFPLK1		5	1531	B V56 S		10
150	2	250		BCE	INIT, F-2&X3, |		8	1536	B T10 EH3 |		10
151	3	010		C	F-2&X3, @A@		7	1544	C EH3 E32		10
152	3	020		BH	LFLKP		5	1551	B V67 U		10
153	3	030	LFPLK1	A	&3, PL		7	1556	A E30 E05		10
154	3	040		B	LFPLCK		4	1563	B V10		11
155	3	050	LFLKP	B	LKNAME		4	1567	B Y61		11
156	3	060		DCW	LFNTFD		3	1573	V74		11
157	3	070	LFNTFD	MLC	PL, PR		7	1574	M E05 E15		11
158	3	080		A	&3, PR		7	1581	A E30 E15		11
159	3	090		MLC	0&X1, CDL		7	1588	M 0|0 E02		11
160	3	100		MLC	@0@, LFTSW		7	1595	M E34 E24		11
161	3	110	FORCHK	C	F&X3, SPRD		7	1602	C EH5 B14		12
162	3	120		BE	FORCE		5	1609	B U55 S		12
163	3	130		C	F&X3, KVOP		7	1614	C EH5 B34		12
164	3	140		BE	FORCE		5	1621	B U55 S		12
165	3	150		C	F&X3, SYEE		7	1626	C EH5 ?44		12
166	3	160		BE	FORCE		5	1633	B U55 S		12
167	3	170		B	RTCHK		4	1638	B T81		13
168	3	180	SCANXT	C	CURNT-2, @A@		7	1642	C T00 E32		13
169	3	190		BH	SCXT1		5	1649	B W65 U		13
170	3	200	SCXT7	B	PUTX		4	1654	B 363		13
171	3	210		DCW	CURNT		3	1660	T02		13
172	3	220		B	INIT		4	1661	B T10		13
173	3	230	SCXT1	C	CURNT, SCMP		7	1665	C T02 A74		13
174	3	240		BE	SCXT3		5	1672	B X13 S		14
175	3	250		C	CURNT, SRLK		7	1677	C T02 A24		14
176	4	010		BE	SCXT3		5	1684	B X13 S		14
177	4	020		C	CURNT, SUNTL		7	1689	C T02 A34		14
178	4	030		BE	SCXT3		5	1696	B X13 S		14
179	4	040		C	CURNT, SIF		7	1701	C T02 A04		14
180	4	050		BU	SCXT5		5	1708	B X24 /		15
181	4	060	SCXT3	MLC	@1@, SCSW		7	1713	M E33 E23		15
182	4	070		B	ENTER		4	1720	B T45		15
183	4	080	SCXT5	BCE	SCXT6, SCSW1, 0		8	1724	B X68 E22 0		15
184	4	090		C	CURNT, SPRD		7	1732	C T02 B14		15
185	4	100		BE	ENTER		5	1739	B T45 S		15
186	4	110		C	CURNT, SNEXT		7	1744	C T02 B04		16
187	4	120		BE	ENTER		5	1751	B T45 S		16
188	4	130		C	CURNT, SELSE		7	1756	C T02 B24		16
189	4	140		BE	ENTER		5	1763	B T45 S		16
190	4	150	SCXT6	C	CURNT, NOTE		7	1768	C T02 D62		16
191	4	160		BE	SCXT8		5	1775	B X92 S		16
192	4	170		C	CURNT, DCOP		7	1780	C T02 D50		17
193	4	180		BU	SCXT7		5	1787	B W54 /		17
194	4	190	SCXT8	MLC	CURNT, SYM		7	1792	M T02 D56		17
195	4	200	SCXT10	B	PUTX		4	1799	B 363		17
196	4	210		DCW	CURNT		3	1805	T02		17
197	4	220		B	GTSYM		4	1806	B Y26		17

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
198	4	230		C	CURNT,SYM		7	1810	C T02 D56		17
199	4	240		BU	SCXT10		5	1817	B X99 /		18
200	4	250		B	SCXT7		4	1822	B W54		18
201	5	010	GTSYM	SBR	GT01&3		4	1826	H Y43		18
202	5	020		B	GETX		4	1830	B 335		18
203	5	030		DCW	CURNT		3	1836	T02		18
204	5	040		DCW	EOJ		3	1839	Y44		18
205	5	050	GT01	B	*		4	1840	B Y43		18
206	5	060	EOJ	B	PUTX		4	1844	B 363		19
207	5	070		DCW	EOP		3	1850	Y60		19
208	5	080		B	SUPER		4	1851	B 351		19
209	5	090		DCW	@G04@		3	1857			19
210	5	100	EOP	DCW	@.EP@		3	1860			19
211	5	110	LKNAME	SBR	X2		4	1861	H 094		19
212	5	120		MLC	2&X2,LKFEXT&3		7	1865	M 0!2 Z30		19
213	5	130		MLC	TBADR,X1		7	1872	M E18 089		20
214	5	140	LK04	BCE	LKFEXT,0&X1,]		8	1879	B Z27 0|0]		20
215	5	150		C	F&X3,0&X1		7	1887	C EH5 0|0		20
216	5	160		BE	LK09		5	1894	B Z12 S		20
217	5	170		C	0&X1		4	1899	C 0|0		20
218	5	180		C			1	1903	C		20
219	5	190		SAR	X1		4	1904	Q 089		20
220	5	200		B	LK04		4	1908	B Y79		21
221	5	210	LK09	C	@ @,0&X1		7	1912	C E37 0|0		21
222	5	220		SBR	X1		4	1919	H 089		21
223	5	230	LK10	B	3&X2		4	1923	B 0!3		21
224	5	240	LKFEXT	B	*		4	1927	B Z30		21
225	5	250	PUTPAR	SBR	X1		4	1931	H 089		21
226	6	010		MLC	2&X1,PPAR1&3		7	1935	M 0|2 Z52		21
227	6	020		MLC	X1,SAVE1		7	1942	M 089 D53		22
228	6	030	PPAR1	MLC	*,PARNM		7	1949	M Z55 D65		22
229	6	040		MLC	PRADR,X1		7	1956	M E21 089		22
230	6	050		MLC	PARNM,0&X1		7	1963	M D65 0|0		22
231	6	060		SBR	X1		4	1970	H 089		22
232	6	070		SBR	PRADR		4	1974	H E21		22
233	6	080		MLC	@|@,0&X1		7	1978	M E31 0|0		23
234	6	090	PPEXT	MLC	SAVE1,X1		7	1985	M D53 089		23
235	6	100		B	3&X1		4	1992	B 0|3		23
236	6	110	OUTMAC	SBR	OUTPR1&3		4	1996	H !75		23
237	6	120		MLC	X2,SAVE1		7	2000	M 094 D53		23
238	6	130		MLC	&LOC,X2		7	2007	M E40 094		23
239	6	140	OUTPR3	BCE	OUTPR2,0&X2,|		8	2014	B !44 0!0 |		24
240	6	150		MLC	0&X2,OUTSYM		7	2022	M 0!0 D59		24
241	6	160		SAR	X2		4	2029	Q 094		24
242	6	170		B	PUTX		4	2033	B 363		24
243	6	180		DCW	OUTSYM		3	2039	D59		24
244	6	190		B	OUTPR3		4	2040	B !14		24
245	6	200	OUTPR2	B	PUTX		4	2044	B 363		24
246	6	210		DCW	MACSEP		3	2050	E29		25
247	6	220		MLC	&PAR,PRADR		7	2051	M E43 E21		25

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
248	6	230		MLC	@|@,PAR		7	2058	M E31 D83		25
249	6	240		MLC	SAVE1,X2		7	2065	M D53 094		25
250	6	250	OUTPR1	B	*		4	2072	B !75		25
251	7	010	PLMN6	SBR	PLM6X&3		4	2076	H J04		25
252	7	020		S	&6,PL		7	2080	S E44 E05		25
253	7	030	PLMN3E	MZ	@ @,PL		7	2087	Y E45 E05		26
254	7	040		MLC	PL,X3		7	2094	M E05 099		26
255	7	050	PLM6X	B	*		4	2101	B J04		26
256	7	060	PLMN3	SBR	PLM6X&3		4	2105	H J04		26
257	7	070		S	&3,PL		7	2109	S E30 E05		26
258	7	080		B	PLMN3E		4	2116	B !87		26
259	7	090	CDEND	S	&12,PL		7	2120	S E47 E05		27
260	7	100		MZ	@ @,PL		7	2127	Y E45 E05		27
261	7	110		MLC	PL,X3		7	2134	M E05 099		27
262	7	120		MLC	F&12&X3,OUTOP1		7	2141	M EI7 D89		27
263	7	130		B	PUTPAR		4	2148	B Z31		27
264	7	140		DCW	F&9&X3		3	2154	EI4		27
265	7	150		B	OUTMAC		4	2155	B Z96		27
266	7	160		C	SYR,SELSE		7	2159	C D47 B24		28
267	7	170		BU	CDEND1		5	2166	B K24 /		28
268	7	180		B	OUTLB		4	2171	B B69		28
269	7	190		DCW	F&3&X3		3	2177	EH8		28
270	7	200		MLC	F&6&X3,SYM		7	2178	M EI1 D56		28
271	7	210		MLC	SYM,F&3&X3		7	2185	M D56 EH8		28
272	7	220		MLC	@.EN@,F&6&X3		7	2192	M E50 EI1		29
273	7	230		MCM	F&16&X3,F&7&X3		7	2199	P F?1 EI2		29
274	7	240	CDENDX	S	&9,ENDADR		7	2206	S E51 D95		29
275	7	250		MZ	@ @,ENDADR		7	2213	Y E45 D95		29
276	8	010		B	LFPLCK		4	2220	B V10		29
277	8	020	CDEND1	B	OUTLB		4	2224	B B69		29
278	8	030		DCW	F&3&X3		3	2230	EH8		29
279	8	040		B	OUTLB		4	2231	B B69		30
280	8	050		DCW	F&6&X3		3	2237	EI1		30
281	8	060	CDENX2	MCM	F&13&X3,F&1&X3		7	2238	P EI8 EH6		30
282	8	070		S	&12,ENDADR		7	2245	S E47 D95		30
283	8	080		MZ	@ @,ENDADR		7	2252	Y E45 D95		30
284	8	090		B	LFPLCK		4	2259	B V10		30
285	8	100	CDEN	B	PLMN6		4	2263	B !76		30
286	8	110		B	OUTLB		4	2267	B B69		31
287	8	120		DCW	F&3&X3		3	2273	EH8		31
288	8	130	CDRLKX	MCM	F&7&X3,F&1&X3		7	2274	P EI2 EH6		31
289	8	140	CDRLKY	S	&6,ENDADR		7	2281	S E44 D95		31
290	8	150		MZ	@ @,ENDADR		7	2288	Y E45 D95		31
291	8	160		B	LFPLCK		4	2295	B V10		31
292	8	170	CDRLKZ	MCM	F&10&X3,F&1&X3		7	2299	P EI5 EH6		31
293	8	180		B	CDENDX		4	2306	B K06		32
294	8	190	CDSIZE	MLC	PL,X3		7	2310	M E05 099		32
295	8	200		C	F-7&X3,@*1@		7	2317	C EG8 E53		32
296	8	210		BU	CDRMN		5	2324	B P22 /		32
297	8	220		B	LBLINK		4	2329	B B35		32

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
298	8	230		S	&12,PL		7	2333	S E47 E05		32
299	8	240		MZ	@ @,PL		7	2340	Y E45 E05		33
300	8	250		MLC	PL,X3		7	2347	M E05 099		33
301	9	010		MLC	F&12&X3,OUTOP1		7	2354	M EI7 D89		33
302	9	020		B	PUTPAR		4	2361	B Z31		33
303	9	030		DCW	F&3&X3		3	2367	EH8		33
304	9	040		B	PUTPAR		4	2368	B Z31		33
305	9	050		DCW	F&9&X3		3	2374	EI4		33
306	9	060		B	GNLAB		4	2375	B C50		34
307	9	070		DCW	F&12&X3		3	2381	EI7		34
308	9	080		B	PUTPAR		4	2382	B Z31		34
309	9	090		DCW	F&12&X3		3	2388	EI7		34
310	9	100		B	OUTMAC		4	2389	B Z96		34
311	9	110		B	OUTASG		4	2393	B C17		34
312	9	120		B	PUTPAR		4	2397	B Z31		34
313	9	130		DCW	F&12&X3		3	2403	EI7		35
314	9	140		B	GNLAB		4	2404	B C50		35
315	9	150		DCW	F&12&X3		3	2410	EI7		35
316	9	160		B	PUTPAR		4	2411	B Z31		35
317	9	170		DCW	F&12&X3		3	2417	EI7		35
318	9	180		MLC	@.IM@,OUTOP1		7	2418	M E56 D89		35
319	9	190		B	OUTMAC		4	2425	B Z96		35
320	9	200		MLC	F&12&X3,SYM		7	2429	M EI7 D56		36
321	9	210		MLC	SYM,F&3&X3		7	2436	M D56 EH8		36
322	9	220		MLC	@.IM@,F&6&X3		7	2443	M E56 EI1		36
323	9	230		MCM	F&13&X3,F&7&X3		7	2450	P EI8 EI2		36
324	9	240		B	CDRLKY		4	2457	B K81		36
325	9	250	CDASGN	B	PLMN6		4	2461	B !76		36
326	10	010		B	OUTASG		4	2465	B C17		37
327	10	020		B	CDRLKZ		4	2469	B K99		37
328	10	030	CDNEXT	C	LBPRD,NULL		7	2473	C D42 D39		37
329	10	040		BE	CDRMN		5	2480	B P22 S		37
330	10	050		MLC	@1@,ELSW		7	2485	M E33 D44		37
331	10	060		B	OUTGO		4	2492	B C02		37
332	10	070		DCW	LBPRD		3	2498	D42		37
333	10	080		B	CDRMN		4	2499	B P22		38
334	10	090	CDIF	MLC	PL,X3		7	2503	M E05 099		38
335	10	100		MLC	F&3&X3,SYM		7	2510	M EH8 D56		38
336	10	110		MLC	SYM,F&X3		7	2517	M D56 EH5		38
337	10	120		MLC	@.IM@,F&3&X3		7	2524	M E56 EH8		38
338	10	130		B	LBLINK		4	2531	B B35		38
339	10	140		B	LFPLCK		4	2535	B V10		39
340	10	150	CDIMP	C	SYR,SPRD		7	2539	C D47 B14		39
341	10	160		BU	CDIMP1		5	2546	B N66 /		39
342	10	170	CDIMP2	B	PLMN6		4	2551	B !76		39
343	10	180		B	OUTLB		4	2555	B B69		39
344	10	190		DCW	F&3&X3		3	2561	EH8		39
345	10	200		B	CDRLKX		4	2562	B K74		39
346	10	210	CDIMP1	C	SYR,SELSE		7	2566	C D47 B24		40
347	10	220		BU	CDIMP2		5	2573	B N51 /		40

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
348	10	230		MLC	@1@,ELSW		7	2578	M E33 D44		40
349	10	240		B	PLMN6		4	2585	B !76		40
350	10	250		B	PUTPAR		4	2589	B Z31		40
351	11	010		DCW	F&3&X3		3	2595	EH8		40
352	11	020		MLC	@.IM@,OUTOP1		7	2596	M E56 D89		40
353	11	030		B	PUTPAR		4	2603	B Z31		41
354	11	040		DCW	LBPRD		3	2609	D42		41
355	11	050		B	OUTMAC		4	2610	B Z96		41
356	11	060		B	CDRLKZ		4	2614	B K99		41
357	11	070	CDPRD	BCE	CDPRD1,ELSW,0		8	2618	B O59 D44 0		41
358	11	080		MLC	@0@,ELSW		7	2626	M E34 D44		41
359	11	090		C	LBPRD,NULL		7	2633	C D42 D39		41
360	11	100		BE	CDPRD1		5	2640	B O59 S		42
361	11	110		B	OUTLB		4	2645	B B69		42
362	11	120		DCW	LBPRD		3	2651	D42		42
363	11	130		MLC	NULL, LBPRD		7	2652	M D39 D42		42
364	11	140	CDPRD1	MLC	@0@,SCSW1		7	2659	M E34 E22		42
365	11	150	CDPRD3	MLC	@001@,ENDADR		7	2666	M E59 D95		42
366	11	160		MLC	@|@,F&1		7	2673	M E31 E86		43
367	11	170	CDPRD4	MLC	@003@,PL		7	2680	M E62 E05		43
368	11	180	CDPRD2	MLC	@01@,LFTSW		7	2687	M E64 E24		43
369	11	190		B	LFPLCK		4	2694	B V10		43
370	11	200	CDKV	B	RMNSY		4	2698	B P30		43
371	11	210		C	PL,NULL		7	2702	C E05 D39		43
372	11	220		BE	CDPRD3		5	2709	B O66 S		44
373	11	230		B	CDPRD2		4	2714	B O87		44
374	11	240	CDRLNK	B	LBLINK		4	2718	B B35		44
375	11	250	CDRMN	B	RMNSY		4	2722	B P30		44
376	12	010		B	LFPLCK		4	2726	B V10		44
377	12	020	RMNSY	SBR	RMN01&3		4	2730	H P62		44
378	12	030		B	PLMN3		4	2734	B J05		44
379	12	040		MCM	F&4&X3,F&1&X3		7	2738	P EH9 EH6		45
380	12	050		S	&3,ENDADR		7	2745	S E30 D95		45
381	12	060		MZ	@ @,ENDADR		7	2752	Y E45 D95		45
382	12	070	RMN01	B	*		4	2759	B P62		45
383	12	080	CDOR	B	PLMN6		4	2763	B !76		45
384	12	090		C	SYR,SOR		7	2767	C D47 ?64		45
385	12	100		BE	CDAND1		5	2774	B Q06 S		46
386	12	110	CDOR1	B	OUTLB		4	2779	B B69		46
387	12	120		DCW	F&3&X3		3	2785	EH8		46
388	12	130		B	CDRLKX		4	2786	B K74		46
389	12	140	CDAND	B	PLMN6		4	2790	B !76		46
390	12	150		C	SYR,SOR		7	2794	C D47 ?64		46
391	12	160		BE	CDOR1		5	2801	B P79 S		46
392	12	170	CDAND1	B	PUTPAR		4	2806	B Z31		47
393	12	180		DCW	F&3&X3		3	2812	EH8		47
394	12	190		B	PUTPAR		4	2813	B Z31		47
395	12	200		DCW	F&9&X3		3	2819	EI4		47
396	12	210		MLC	@.EQ@,OUTOP1		7	2820	M E67 D89		47
397	12	220		B	OUTMAC		4	2827	B Z96		47

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
398	12	230		B	CDRLKX		4	2831	B K74		47
399	12	240	CDLPRN	B	PLMN3		4	2835	B J05		48
400	12	250		MLC	@0@,NOTSW		7	2839	M E34 D43		48
401	13	010		C	F&X3,NOT		7	2846	C EH5 ?74		48
402	13	020		BU	CDLPR1		5	2853	B Q90 /		48
403	13	030		B	PLMN3		4	2858	B J05		48
404	13	040		MCM	F&4&X3,F&1&X3		7	2862	P EH9 EH6		48
405	13	050		S	&3,ENDADR		7	2869	S E30 D95		49
406	13	060		MZ	@ @,ENDADR		7	2876	Y E45 D95		49
407	13	070		MLC	@1@,NOTSW		7	2883	M E33 D43		49
408	13	080	CDLPR1	B	GTSYM		4	2890	B Y26		49
409	13	090		MLC	CURNT,F&12&X3		7	2894	M T02 EI7		49
410	13	100		A	&3,ENDADR		7	2901	A E30 D95		49
411	13	110		MLC	@|@,F&13&X3		7	2908	M E31 EI8		50
412	13	120		C	F&12&X3,SOR		7	2915	C EI7 ?64		50
413	13	130		BU	CDLPR2		5	2922	B R53 /		50
414	13	140		BCE	CDLPR4,NOTSW,0		8	2927	B R61 D43 0		50
415	13	150	CDLPR3	MCM	F&10&X3,F&7&X3		7	2935	P EI5 EI2		50
416	13	160		MCM	F&4&X3,F&1&X3		7	2942	P EH9 EH6		51
417	13	170		B	CDRLKY		4	2949	B K81		51
418	13	180	CDLPR2	BCE	CDLPR3,NOTSW,0		8	2953	B R35 D43 0		51
419	13	190	CDLPR4	MLC	@.IM@,OUTOP1		7	2961	M E56 D89		51
420	13	200		B	PUTPAR		4	2968	B Z31		51
421	13	210		DCW	F&6&X3		3	2974	EI1		51
422	13	220		B	GNLAB		4	2975	B C50		51
423	13	230		DCW	F&6&X3		3	2981	EI1		52
424	13	240		B	PUTPAR		4	2982	B Z31		52
425	13	250		DCW	F&6&X3		3	2988	EI1		52
426	14	010		B	OUTMAC		4	2989	B Z96		52
427	14	020		B	CDLPR3		4	2993	B R35		52
428	14	030	CDUNTL	B	PLMN3		4	2997	B J05		52
429	14	040		B	PUTX		4	3001	B 363		52
430	14	050		DCW	F&3&X3		3	3007	EH8		53
431	14	060		B	PUTX		4	3008	B 363		53
432	14	070		DCW	F&6&X3		3	3014	EI1		53
433	14	080		B	CDRLKX		4	3015	B K74		53
434	14	090	CDEE	B	RMNSY		4	3019	B P30		53
435	14	100		MLC	@01@,LFTSW		7	3023	M E64 E24		53
436	14	110		B	SCANXT		4	3030	B W42		53
437	14	120		DCW	@]@		1	3034			54
438	14	130		DCW	@0056@		4	3038			54
439	14	140		DC	CDEE		3	3041	?19		54
440	14	150	SYEE	DCW	@.EE@		3	3044			54
441	14	160		DCW	@5251@		4	3048			54
442	14	170		DC	CDAND		3	3051	P90		54
443	14	180	SAND	DCW	@\$32@		3	3054			54
444	14	190		DCW	@5252@		4	3058			54
445	14	200		DC	CDOR		3	3061	P63		54
446	14	210	SOR	DCW	@\$31@		3	3064			54
447	14	220		DCW	@1918@		4	3068			55

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
448	14	230		DC	CDRMN		3	3071	P22		55
449	14	240	NOT	DCW	@\$30@		3	3074			55
450	14	250		DCW	@5500@		4	3078			55
451	15	010		DC	CDLPRN		3	3081	Q35		55
452	15	020		DCW	@ %@		3	3084			55
453	15	030		DCW	@0055@		4	3088			55
454	15	040		DC	CDRMN		3	3091	P22		55
455	15	050		DCW	@)@		3	3094			55
456	15	060		DCW	@5656@		4	3098			55
457	15	070		DC	CDIF		3	3101	N03		56
458	15	080	SIF	DCW	@)19@		3	3104			56
459	15	090		DCW	@5800@		4	3108			56
460	15	100		DC	CDIMP		3	3111	N39		56
461	15	110		DCW	@.IM@		3	3114			56
462	15	120		DCW	@0056@		4	3118			56
463	15	130		DC	CDRLNK		3	3121	P18		57
464	15	140	SRLK	DCW	@.RK@		3	3124			57
465	15	150		DCW	@5656@		4	3128			57
466	15	160		DC	CDUNTLL		3	3131	R97		57
467	15	170	SUNTLL	DCW	@*18@		3	3134			57
468	15	180		DCW	@0015@		4	3138			57
469	15	190		DC	CDSIZE		3	3141	L10		58
470	15	200		DCW	@/10@		3	3144			58
471	15	210		DCW	@2056@		4	3148			58
472	15	220		DC	CDASGN		3	3151	M61		58
473	15	230		DCW	@*10@		3	3154			58
474	15	240		DCW	@2056@		4	3158			58
475	15	250		DC	CDASGN		3	3161	M61		59
476	16	010		DCW	@*16@		3	3164			59
477	16	020		DCW	@0056@		4	3168			59
478	16	030		DC	CDRMN		3	3171	P22		59
479	16	040	SCMP	DCW	@)05@		3	3174			59
480	16	050		DCW	@5800@		4	3178			59
481	16	060		DC	CDEND		3	3181	J20		60
482	16	070	SEND	DCW	@)17@		3	3184			60
483	16	080		DCW	@5800@		4	3188			60
484	16	090		DC	CDEN		3	3191	K63		60
485	16	100		DCW	@.EN@		3	3194			60
486	16	110		DCW	@0056@		4	3198			60
487	16	120		DC	CDNEXT		3	3201	M73		61
488	16	130	SNEXT	DCW	@*25@		3	3204			61
489	16	140		DCW	@0060@		4	3208			61
490	16	150		DC	CDPRD		3	3211	O18		61
491	16	160	SPRD	DCW	@.PD@		3	3214			61
492	16	170		DCW	@0060@		4	3218			61
493	16	180		DC	CDRMN		3	3221	P22		62
494	16	190	SELSE	DCW	@*02@		3	3224			62
495	16	200		DCW	@0056@		4	3228			62
496	16	210		DC	CDKV		3	3231	O98		62
497	16	220	KVOP	DCW	@.KV@		3	3234			62

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
498	16	230	KVTAB	EQU	KVOP			3234			
499	16	240	LBLINK	SBR	LBLNK1&3	4		3235	H B68		62
500	16	250		MLC	@1@,SCSW1	7		3239	M E33 E22		63
501	17	010		C	LBPRD,NULL	7		3246	C D42 D39		63
502	17	020		BU	LBLNK1	5		3253	B B65 /		63
503	17	030		B	GNLAB	4		3258	B C50		63
504	17	040		DCW	LBPRD	3		3264	D42		63
505	17	050	LBLNK1	B	*	4		3265	B B68		63
506	17	060	OUTLB	SBR	X2	4		3269	H 094		63
507	17	070		MLC	@.LB@,OUTOP1	7		3273	M E70 D89		64
508	17	080	OUTGLB	MLC	2&X2,OUTPPR	7		3280	M 0|2 B93		64
509	17	090		B	PUTPAR	4		3287	B Z31		64
510	17	100	OUTPPR	DCW	#3	3		3293			64
511	17	110		B	OUTMAC	4		3294	B Z96		64
512	17	120		B	3&X2	4		3298	B 0|3		64
513	17	130	OUTGO	SBR	X2	4		3302	H 094		64
514	17	140		MLC	@)20@,OUTOP1	7		3306	M E73 D89		65
515	17	150		B	OUTGLB	4		3313	B B80		65
516	17	160	OUTASG	SBR	OUTAS1&3	4		3317	H C49		65
517	17	170		MLC	F&6&X3,OUTOP1	7		3321	M EI1 D89		65
518	17	180		B	PUTPAR	4		3328	B Z31		65
519	17	190		DCW	F&3&X3	3		3334	EH8		65
520	17	200		B	PUTPAR	4		3335	B Z31		65
521	17	210		DCW	F&9&X3	3		3341	EI4		66
522	17	220		B	OUTMAC	4		3342	B Z96		66
523	17	230	OUTAS1	B	*	4		3346	B C49		66
524	17	240	GNLAB	SBR	X1	4		3350	H 089		66
525	17	250		MLC	2&X1,GNLAB1&6	7		3354	M 0|2 D18		66
526	18	010		BAV	*&1	5		3361	B C66 Z		66
527	18	020		A	&1,GNNM	7		3366	A E74 D36		66
528	18	030		BAV	GNLAB2	5		3373	B D23 Z		67
529	18	040		BCE	GNLAB4,GNNM-1,0	8		3378	B C98 D35 0		67
530	18	050		BCE	GNLAB4,GNNM-1,1	8		3386	B C98 D35 1		67
531	18	060		B	GNLAB3	4		3394	B D05		67
532	18	070	GNLAB4	MLC	@S@,GNNM-1	7		3398	M E75 D35		67
533	18	080	GNLAB3	MZ	@S@,GNNM-1	7		3405	Y E75 D35		67
534	18	090	GNLAB1	MLC	GNNM,*	7		3412	M D36 D18		68
535	18	100		B	3&X1	4		3419	B 0|3		68
536	18	110	GNLAB2	MLC	@SS1@,GNNM	7		3423	M E78 D36		68
537	18	120		B	GNLAB1	4		3430	B D12		68
538	18	130	GNNM	DCW	@JS0@	3		3436			68
539	18	140	NULL	DCW	@000@	3		3439			68
540	18	150	LBPRD	DCW	@000@	3		3442			68
541	18	160	NOTSW	DCW	@0@	1		3443			69
542	18	170	ELSW	DCW	@0@	1		3444			69
543	18	180	SYR	DCW	#3	3		3447			69
544	18	190	DCOP	DCW	@#DC@	3		3450			69
545	18	200	SAVE1	DCW	#3	3		3453			69
546	18	210	SYM	DCW	#3	3		3456			69
547	18	220	OUTSYM	DCW	#3	3		3459			69

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
548	18	230	NOTE	DCW	@*24@		3	3462			70
549	18	240	PARNM	DCW	#3		3	3465			70
550	18	250	PAR	DCW	#18		18	3483			70
551	19	010	OP	DCW	@.OP@		3	3486			70
552	19	020	OUTOP1	DCW	#3		3	3489			70
553	19	030	LOC	DCW	#.LC@		3	3492			70
554	19	040	ENDADR	DCW	@001@		3	3495			70
555	19	050	LLV	DCW	#2		2	3497			71
556	19	060	LRV	DC	#2		2	3499			71
557	19	070	CDL	DC	#3		3	3502			71
558	19	080	PL	DCW	@003@		3	3505			71
559	19	090	RLV	DCW	#2		2	3507			71
560	19	100	RRV	DC	#2		2	3509			71
561	19	110	CDR	DC	#3		3	3512			71
562	19	120	PR	DCW	#3		3	3515			71
563	19	130	TBADR	DCW	&KVTAB		3	3518	B34		71
564	19	140	PRADR	DCW	&PAR		3	3521	D83		71
565	19	150	SCSW1	DC	@0@		1	3522			71
566	19	160	SCSW	DCW	@0@		1	3523			71
567	19	170	LFTSW	DC	@1@		1	3524			72
568	19	180	DIFF	DCW	#2		2	3526			72
569	19	190	MACSEP	DCW	@.MC@		3	3529			72
570	19	200		LTORG					3530		
				DCW	&3		1	3530		LIT	72
					@|@		1	3531		LIT	72
					@A@		1	3532		LIT	73
					@1@		1	3533		LIT	73
					@0@		1	3534		LIT	73
					@ @		3	3537		LIT	73
	238				&LOC		3	3540	D92	ADCON	73
	247				&PAR		3	3543	D83	ADCON	73
					&6		1	3544		LIT	73
					@ @		1	3545		LIT	74
					&12		2	3547		LIT	74
					@.EN@		3	3550		LIT	74
					&9		1	3551		LIT	74
					@*1@		2	3553		LIT	74
					@.IM@		3	3556		LIT	74
					@001@		3	3559		LIT	74
					@003@		3	3562		LIT	75
					@01@		2	3564		LIT	75
					@.EQ@		3	3567		LIT	75
					@.LB@		3	3570		LIT	75
					@)20@		3	3573		LIT	75
					&1		1	3574		LIT	75
					@S@		1	3575		LIT	75
					@SS1@		3	3578		LIT	76
571	19	210		DC	@NNNNNN@		6	3584			76
572	19	220	F	DC	@ @		1	3585			76
573	19	230		DC	@|@		1	3586			76

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
574	19	240		DCW	@}@						76
575	19	250		END	INIT				/ T10 080		77

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CLEAR STORAGE 1      ,008015,019026,030,034041,045,053,0570571026      1
CLEAR STORAGE 2      L068112,102106,113/101099/I99,027A070028)027B0010270B0261,001/001113I0      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	010	000	JOB	1401 COBOL - G04						
102	1	020		CTL	631 11						
103	1	030	X1	EQU	89			0089			
104	1	040	X2	EQU	94			0094			
105	1	050	X3	EQU	99			0099			
106	1	060	SUPER	EQU	351			0351			
107	1	070	PUTX	EQU	363			0363			
108	1	080	GETX	EQU	335			0335			
109	1	090	DUMP	EQU	359			0359			
110	1	100	SBDPSV	EQU	998			0998			
111	1	110	CURNT	EQU	1302			1302			
112	1	120	SBNM	EQU	1305			1305			
113	1	130	GTSAVE	EQU	1307			1307			
114	1	140		ORG	1310				1310		
115	1	150	START	B	GTSYM	4		1310	B Q02		4
116	1	160		C	CURNT ,SPROC	7		1314	C T02 C97		4
117	1	170		BU	START	5		1321	B T10 /		4
118	1	180	PTEST	B	PUTX	4		1326	B 363		4
119	1	190		DCW	CURNT	3		1332	T02		4
120	1	200	INIT	B	GTSYM	4		1333	B Q02		4
121	1	210	TEST	MLC	@0@,DPYSW	7		1337	M D72 D08		4
122	1	220		BCE	TEST1 ,SUBSW,0	8		1344	B T66 D37 0		5
123	1	230		B	PUTX	4		1352	B 363		5
124	1	240		DCW	SE	3		1358	D17		5
125	1	250		MLC	@0@,SUBSW	7		1359	M D72 D37		5
126	2	010	TEST1	C	CURNT ,NOTE	7		1366	C T02 D71		5
127	2	020		BE	INIT2	5		1373	B T90 S		5
128	2	030		C	CURNT ,DCOP	7		1378	C T02 D03		6
129	2	040		BU	INIT3	5		1385	B U24 /		6
130	2	050	INIT2	MLC	CURNT ,SYM	7		1390	M T02 D23		6
131	2	060	INIT1	B	PUTX	4		1397	B 363		6
132	2	070		DCW	CURNT	3		1403	T02		6
133	2	080		B	GTSYM	4		1404	B Q02		6
134	2	090		C	CURNT ,SYM	7		1408	C T02 D23		6
135	2	100		BU	INIT1	5		1415	B T97 /		7
136	2	110		B	PTEST	4		1420	B T26		7
137	2	120	INIT3	C	CURNT ,LOC	7		1424	C T02 D29		7
138	2	130		BU	LKTBLE	5		1431	B U47 /		7
139	2	140		MLC	MACSEP ,SYM	7		1436	M D35 D23		7
140	2	150		B	INIT1	4		1443	B T97		7
141	2	160	LKTBLE	MLC	&TAB ,X2	7		1447	M D75 094		7
142	2	170	LKTBL1	C	0&X2 ,CURNT	7		1454	C 0!0 T02		8
143	2	180		BE	LKTBL2	5		1461	B U86 S		8
144	2	190		C	0&X2	4		1466	C 0!0		8
145	2	200		SAR	X2	4		1470	Q 094		8
146	2	210		BCE	INIT,0&X2,]	8		1474	B T33 0!0]		8
147	2	220		B	LKTBL1	4		1482	B U54		8

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	2	230	LKTBL2	C	@ @,0&X2		7	1486	C D78 0!0		8
149	2	240		SBR	X2		4	1493	H 094		9
150	2	250		MLC	0&X2,X2		7	1497	M 0!0 094		9
151	3	010		B	0&X2		4	1504	B 0!0		9
152	3	020	STOP	MLC	CURNT,OUTOP		7	1508	M T02 C28		9
153	3	030		B	GTSYM		4	1515	B Q02		9
154	3	040		C	CURNT,SRUN		7	1519	C T02 C76		9
155	3	050		BU	STP1		5	1526	B V46 /		9
156	3	060	GOSP	MLC	CURNT,OUTOP		7	1531	M T02 C28		10
157	3	070		B	OUTMC0		4	1538	B ?42		10
158	3	080		B	INIT		4	1542	B T33		10
159	3	090	STP1	MLC	CURNT,PAR1		7	1546	M T02 C31		10
160	3	100		B	OUTMC1		4	1553	B ?61		10
161	3	110		B	INIT		4	1557	B T33		10
162	3	120	LBL5	MLC	CURNT,OUTOP		7	1561	M T02 C28		10
163	3	130		B	GTSYM		4	1568	B Q02		11
164	3	140		B	STP1		4	1572	B V46		11
165	3	150	GO	B	ENTPAR		4	1576	B Q20		11
166	3	160		C	CURNT,SDPND		7	1580	C T02 D65		11
167	3	170		BE	DPND		5	1587	B W11 S		11
168	3	180		MLC	@) 20@,OUTOP		7	1592	M D81 C28		11
169	3	190		B	OUTLOC		4	1599	B A70		11
170	3	200		B	OUTPAR		4	1603	B Q82		12
171	3	210		B	TEST		4	1607	B T37		12
172	3	220	DPND	MLC	CURNT,OUTOP		7	1611	M T02 C28		12
173	3	230		B	ACDPY1		4	1618	B X45		12
174	3	240	DISPLY	MLC	@1@,DPYSW		7	1622	M D82 D08		12
175	3	250	ACCEPT	MLC	CURNT,OUTOP		7	1629	M T02 C28		12
176	4	010		B	ENTPAR		4	1636	B Q20		12
177	4	020		MLC	NULL,NAME		7	1640	M C88 D68		13
178	4	030		C	CURNT,SFRM		7	1647	C T02 C79		13
179	4	040		BE	ACDPY1		5	1654	B X45 S		13
180	4	050		C	CURNT,SUPON		7	1659	C T02 C82		13
181	4	060		BE	ACDPY1		5	1666	B X45 S		13
182	4	070	ACDPY2	B	OUTLOC		4	1671	B A70		13
183	4	080		B	PUTX		4	1675	B 363		13
184	4	090		DCW	CNT		3	1681	C94		14
185	4	100		B	PUTX		4	1682	B 363		14
186	4	110		DCW	NAME		3	1688	D68		14
187	4	120		B	PUTX		4	1689	B 363		14
188	4	130		DCW	SVN		3	1695	C91		14
189	4	140		B	OUTPAR		4	1696	B Q82		14
190	4	150		BCE	TEST,DPYSW1,0		8	1700	B T37 D07 0		14
191	4	160		MLC	@0@,DPYSW1		7	1708	M D72 D07		15
192	4	170		C	SBNM,SBPSPV		7	1715	C T05 998		15
193	4	180		BH	ACDPY3		5	1722	B X34 U		15
194	4	190		MLC	SBNM,SBPSPV		7	1727	M T05 998		15
195	4	200	ACDPY3	MLC	SAVE,SBNM		7	1734	M D14 T05		15
196	4	210		B	TEST		4	1741	B T37		15
197	4	220	ACDPY1	B	GTSYM		4	1745	B Q02		16

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
198	4	230		B	NMTST		4	1749	B N84		16
199	4	240		DCW	*&1		3	1755	X56		16
200	4	250		B	ACDPY2		4	1756	B W71		16
201	5	010	ALTER	B	GTSYM		4	1760	B Q02		16
202	5	020	ALTER1	MLC	CURNT,PAR1		7	1764	M T02	C31	16
203	5	030		B	GTSYM		4	1771	B Q02		16
204	5	040		C	CURNT,SPRCD		7	1775	C T02	D00	17
205	5	050		BU	TEST		5	1782	B T37	/	17
206	5	060		MLC	CURNT,OUTOP		7	1787	M T02	C28	17
207	5	070		B	GTSYM		4	1794	B Q02		17
208	5	080		MLC	CURNT,PAR2		7	1798	M T02	C34	17
209	5	090		B	OUTMC2		4	1805	B ?76		17
210	5	100		B	GTSYM		4	1809	B Q02		17
211	5	110		C	CURNT-2,@A@		7	1813	C T00	D83	18
212	5	120		BH	TEST		5	1820	B T37	U	18
213	5	130		B	ALTER1		4	1825	B X64		18
214	5	140	CLOPEN	MLC	CURNT,OUTOP		7	1829	M T02	C28	18
215	5	150	CLS01	B	GTSYM		4	1836	B Q02		18
216	5	160		C	CURNT-2,@A@		7	1840	C T00	D83	18
217	5	170		BH	TEST		5	1847	B T37	U	18
218	5	180		MLC	CURNT,PAR1		7	1852	M T02	C31	19
219	5	190		B	OUTMC1		4	1859	B ?61		19
220	5	200		B	CLS01		4	1863	B Y36		19
221	5	210	READ	MLC	CURNT,OUTOP		7	1867	M T02	C28	19
222	5	220		B	GTSYM		4	1874	B Q02		19
223	5	230		MLC	CURNT,PAR1		7	1878	M T02	C31	19
224	5	240		B	GTSYM		4	1885	B Q02		19
225	5	250		MLC	CURNT,PAR2		7	1889	M T02	C34	20
226	6	010		B	OUTMC2		4	1896	B ?76		20
227	6	020		B	INIT		4	1900	B T33		20
228	6	030	UNTIL	B	GTSYM		4	1904	B Q02		20
229	6	040		MLC	CURNT,GLF		7	1908	M T02	D20	20
230	6	050		B	GTSYM		4	1915	B Q02		20
231	6	060		C	CURNT,@.P1@		7	1919	C T02	D86	20
232	6	070		BE	P1RTN		5	1926	B J71	S	21
233	6	080		C	CURNT,@.P2@		7	1931	C T02	D89	21
234	6	090		BE	P2RTN		5	1938	B L01	S	21
235	6	100		MLC	LST10,OUTOP		7	1943	M C46	C28	21
236	6	110		B	OUTLOC		4	1950	B A70		21
237	6	120		B	PUTX		4	1954	B 363		21
238	6	130		DCW	GLF		3	1960	D20		21
239	6	140		C	OUTOP,@.PC@		7	1961	C C28	D92	22
240	6	150		BE	UNTL01		5	1968	B Z96	S	22
241	6	160		C	OUTOP,@.PE@		7	1973	C C28	D95	22
242	6	170		BE	UNTL02		5	1980	B !07	S	22
243	6	180		B	OUTLST		4	1985	B R72		22
244	6	190		DCW	@008@		3	1991			22
245	6	200		B	TEST		4	1992	B T37		22
246	6	210	UNTL01	B	OUTLST		4	1996	B R72		23
247	6	220		DCW	@003@		3	2002			23

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
248	6	230		B	TEST		4	2003	B T37		23
249	6	240	UNTL02	B	OUTLST		4	2007	B R72		23
250	6	250		DCW	@006@		3	2013			23
251	7	010		B	TEST		4	2014	B T37		23
252	7	020	WRITE	MLC	@0@, WRSW		7	2018	M D72	D36	23
253	7	030		MLC	CURNT, OUTOP		7	2025	M T02	C28	24
254	7	040		B	GTSYM		4	2032	B Q02		24
255	7	050		MLC	CURNT, PAR1		7	2036	M T02	C31	24
256	7	060		B	GTSYM		4	2043	B Q02		24
257	7	070		C	CURNT, SFRM		7	2047	C T02	C79	24
258	7	080		BU	WRT04		5	2054	B !88	/	24
259	7	090		MLC	@1@, WRSW		7	2059	M D82	D36	25
260	7	100		B	GTSYM		4	2066	B Q02		25
261	7	110		MLC	@.WF@, OUTOP		7	2070	M D98	C28	25
262	7	120		MLC	CURNT, PAR2		7	2077	M T02	C34	25
263	7	130		B	GTSYM		4	2084	B Q02		25
264	7	140	WRT04	C	CURNT, SAFT		7	2088	C T02	D40	25
265	7	150		BE	WRT02		5	2095	B J24	S	26
266	7	160	WRT03	BCE	WRT01, WRSW, 1		8	2100	B J16	D36 1	26
267	7	170		B	OUTMC1		4	2108	B ?61		26
268	7	180		B	TEST		4	2112	B T37		26
269	7	190	WRT01	B	OUTMC2		4	2116	B ?76		26
270	7	200		B	TEST		4	2120	B T37		26
271	7	210	WRT02	B	PUTX		4	2124	B 363		26
272	7	220		DCW	LOC		3	2130	D29		27
273	7	230		B	PUTX		4	2131	B 363		27
274	7	240		DCW	CURNT		3	2137	T02		27
275	7	250		B	PUTX		4	2138	B 363		27
276	8	010		DCW	OP		3	2144	D32		27
277	8	020		B	GTSYM		4	2145	B Q02		27
278	8	030		B	PUTX		4	2149	B 363		27
279	8	040		DCW	CURNT		3	2155	T02		28
280	8	050		B	PUTX		4	2156	B 363		28
281	8	060		DCW	MACSEP		3	2162	D35		28
282	8	070		B	GTSYM		4	2163	B Q02		28
283	8	080		B	WRT03		4	2167	B J00		28
284	8	090	P1RTN	MLC	CURNT, OUTOP		7	2171	M T02	C28	28
285	8	100		B	OUTLOC		4	2178	B A70		28
286	8	110		B	GTSYM		4	2182	B Q02		29
287	8	120		B	GTSYM		4	2186	B Q02		29
288	8	130		B	GTSYM		4	2190	B Q02		29
289	8	140		B	GTSYM		4	2194	B Q02		29
290	8	150		B	GTSYM		4	2198	B Q02		29
291	8	160		MLC	CURNT, PAR4		7	2202	M T02	C40	29
292	8	170		B	GTSYM		4	2209	B Q02		29
293	8	180		B	GTSYM		4	2213	B Q02		30
294	8	190		MLC	CURNT, PAR5		7	2217	M T02	C43	30
295	8	200		B	GTSYM		4	2224	B Q02		30
296	8	210		MLC	CURNT, PAR1		7	2228	M T02	C31	30
297	8	220	P1RT2	B	GTSYM		4	2235	B Q02		30

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
298	8	230		MLC	CURNT,PAR3		7	2239	M T02	C37	30
299	8	240		B	PUTX		4	2246	B 363		30
300	8	250		DCW	PAR1		3	2252	C31		31
301	9	010		B	PUTX		4	2253	B 363		31
302	9	020		DCW	GLF		3	2259	D20		31
303	9	030		B	PUTX		4	2260	B 363		31
304	9	040		DCW	PAR3		3	2266	C37		31
305	9	050		B	PUTX		4	2267	B 363		31
306	9	060		DCW	PAR4		3	2273	C40		31
307	9	070		B	PUTX		4	2274	B 363		32
308	9	080		DCW	PAR5		3	2280	C43		32
309	9	090	P1RT1	B	GTSYM		4	2281	B Q02		32
310	9	100		C	CURNT,MACSEP		7	2285	C T02	D35	32
311	9	110		BU	P1RT1		5	2292	B K81	/	32
312	9	120		B	PTEST		4	2297	B T26		32
313	9	130	P2RTN	MLC	CURNT,OUTOP		7	2301	M T02	C28	32
314	9	140		B	OUTLOC		4	2308	B A70		33
315	9	150		B	GTSYM		4	2312	B Q02		33
316	9	160		MLC	CURNT,PAR1		7	2316	M T02	C31	33
317	9	170		B	GTSYM		4	2323	B Q02		33
318	9	180		B	GTSYM		4	2327	B Q02		33
319	9	190		B	GTSYM		4	2331	B Q02		33
320	9	200		B	GTSYM		4	2335	B Q02		33
321	9	210		B	GTSYM		4	2339	B Q02		34
322	9	220		MLC	CURNT,PAR4		7	2343	M T02	C40	34
323	9	230		B	GTSYM		4	2350	B Q02		34
324	9	240		B	GTSYM		4	2354	B Q02		34
325	9	250		MLC	CURNT,PAR5		7	2358	M T02	C43	34
326	10	010		B	GTSYM		4	2365	B Q02		34
327	10	020		B	P1RT2		4	2369	B K35		34
328	10	030	EXAMNE	MLC	CURNT,OUTOP		7	2373	M T02	C28	35
329	10	040		B	GTSYM		4	2380	B Q02		35
330	10	050		B	NMTST		4	2384	B N84		35
331	10	060		DCW	*&1		3	2390	L91		35
332	10	070		B	OUTLOC		4	2391	B A70		35
333	10	080		B	PUTX		4	2395	B 363		35
334	10	090		DCW	NAME		3	2401	D68		35
335	10	100		B	PUTX		4	2402	B 363		36
336	10	110		DCW	CURNT		3	2408	T02		36
337	10	120		B	GTSYM		4	2409	B Q02		36
338	10	130		B	PUTX		4	2413	B 363		36
339	10	140		DCW	CURNT		3	2419	T02		36
340	10	150		B	GTSYM		4	2420	B Q02		36
341	10	160		C	CURNT,SFRST		7	2424	C T02	D43	36
342	10	170		BU	EXAM1		5	2431	B M40	/	37
343	10	180		B	GTSYM		4	2436	B Q02		37
344	10	190	EXAM1	B	PUTX		4	2440	B 363		37
345	10	200		DCW	CURNT		3	2446	T02		37
346	10	210		B	GTSYM		4	2447	B Q02		37
347	10	220		C	CURNT,SRPL		7	2451	C T02	D46	37

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
348	10	230		BE	EXAM3		5	2458	B M97 S		37
349	10	240	EXAM2	C	CURNT, SBY		7	2463	C T02 D49		38
350	10	250		BU	EXAM4		5	2470	B N05 /		38
351	11	010		B	GTSYM		4	2475	B Q02		38
352	11	020		B	PUTX		4	2479	B 363		38
353	11	030		DCW	CURNT		3	2485	T02		38
354	11	040	EXAM5	B	PUTX		4	2486	B 363		38
355	11	050		DCW	MACSEP		3	2492	D35		38
356	11	060		B	TEST		4	2493	B T37		39
357	11	070	EXAM3	B	GTSYM		4	2497	B Q02		39
358	11	080		B	EXAM2		4	2501	B M63		39
359	11	090	EXAM4	B	PUTX		4	2505	B 363		39
360	11	100		DCW	NULL		3	2511	C88		39
361	11	110		B	EXAM5		4	2512	B M86		39
362	11	120	EOJ	C	GTSAVE, @A0@		7	2516	C T07 E00		39
363	11	130		BE	EOJ1		5	2523	B N70 S		40
364	11	140		B	PUTX		4	2528	B 363		40
365	11	150		DCW	DCOP		3	2534	D03		40
366	11	160		B	PUTX		4	2535	B 363		40
367	11	170		DCW	ZAOP		3	2541	D06		40
368	11	180		MLC	GTSAVE, OUTSYM		7	2542	M T07 D26		40
369	11	190		MLC	@Z@, OUTSYM-2		7	2549	M E01 D24		40
370	11	200		B	PUTX		4	2556	B 363		41
371	11	210		DCW	OUTSYM		3	2562	D26		41
372	11	220		B	PUTX		4	2563	B 363		41
373	11	230		DCW	DCOP		3	2569	D03		41
374	11	240	EOJ1	B	PUTX		4	2570	B 363		41
375	11	250		DCW	EOP		3	2576	D62		41
376	12	010		B	SUPER		4	2577	B 351		41
377	12	020		DCW	@G05@		3	2583			42
378	12	030	NMTST	SBR	X3		4	2584	H 099		42
379	12	040		MLC	2&X3, NMFEXT&3		7	2588	M 0?2 018		42
380	12	050		C	CURNT-2, @A@		7	2595	C T00 D83		42
381	12	060		BH	NMFEXT		5	2602	B 015 U		42
382	12	070		B	NAMRTN		4	2607	B 019		42
383	12	080		B	3&X3		4	2611	B 0?3		42
384	12	090	NMFEXT	B	*		4	2615	B 018		43
385	12	100	NAMRTN	SBR	NAMR01&3		4	2619	H Q01		43
386	12	110		MLC	CURNT, NAME		7	2623	M T02 D68		43
387	12	120		B	GTSYM		4	2630	B Q02		43
388	12	130		C	CURNT, SBOP		7	2634	C T02 D56		43
389	12	140		BU	NAMR01		5	2641	B P98 /		43
390	12	150		BCE	NAMR04, DPYSW, 0		8	2646	B 082 D08 0		43
391	12	160		B	PUTX		4	2654	B 363		44
392	12	170		DCW	DPSBOP		3	2660	C85		44
393	12	180		MLC	@10@, DPYSW		7	2661	M E03 D08		44
394	12	190		MLC	SBNM, SAVE		7	2668	M T05 D14		44
395	12	200		MLC	SBDPY, SBNM		7	2675	M D11 T05		44
396	12	210	NAMR04	MLC	@1@, SUBSW		7	2682	M D82 D37		44
397	12	220		A	&1, SBNM		7	2689	A E04 T05		45

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
398	12	230		C	SBNM,@?@		7	2696	C T05 E05		45
399	12	240		BU	NAMR02		5	2703	B P15 /		45
400	12	250		MLC	@A@,SBNM		7	2708	M D83 T05		45
401	13	010	NAMR02	MLC	NAME,CURNT		7	2715	M D68 T02		45
402	13	020		B	PUTX		4	2722	B 363		45
403	13	030		DCW	LOC		3	2728	D29		46
404	13	040		B	PUTX		4	2729	B 363		46
405	13	050		DCW	SBOP		3	2735	D56		46
406	13	060		B	PUTX		4	2736	B 363		46
407	13	070		DCW	OP		3	2742	D32		46
408	13	080	NAMR03	B	PUTX		4	2743	B 363		46
409	13	090		DCW	CURNT		3	2749	T02		46
410	13	100		B	GTSYM		4	2750	B Q02		47
411	13	110		C	CURNT,RPRN		7	2754	C T02 D59		47
412	13	120		BU	NAMR03		5	2761	B P43 /		47
413	13	130		B	PUTX		4	2766	B 363		47
414	13	140		DCW	SBNM		3	2772	T05		47
415	13	150		B	PUTX		4	2773	B 363		47
416	13	160		DCW	NAME		3	2779	D68		47
417	13	170		MLC	SBNM,NAME		7	2780	M T05 D68		48
418	13	180		B	PUTX		4	2787	B 363		48
419	13	190		DCW	MACSEP		3	2793	D35		48
420	13	200		B	GTSYM		4	2794	B Q02		48
421	13	210	NAMR01	B	*		4	2798	B Q01		48
422	13	220	GTSYM	SBR	GT01&3		4	2802	H Q19		48
423	13	230		B	GETX		4	2806	B 335		48
424	13	240		DCW	CURNT		3	2812	T02		49
425	13	250		DCW	EOJ		3	2815	N16		49
426	14	010	GT01	B	*		4	2816	B Q19		49
427	14	020	ENTPAR	SBR	ENTP01&3		4	2820	H Q81		49
428	14	030		MLC	@G92@,X2		7	2824	M E08 094		49
429	14	040		MLC	@000@,CNT		7	2831	M E11 C94		49
430	14	050		B	GTSYM		4	2838	B Q02		49
431	14	060	ENTP02	B	NMTST		4	2842	B N84		50
432	14	070		DCW	ENTPEX		3	2848	Q71		50
433	14	080		LCA	NAME,0&X2		7	2849	L D68 0!0		50
434	14	090		SBR	X2		4	2856	H 094		50
435	14	100		A	&1,CNT		7	2860	A E04 C94		50
436	14	110		B	ENTP02		4	2867	B Q42		50
437	14	120	ENTPEX	MLC	@|@,0&X2		7	2871	M E12 0!0		50
438	14	130	ENTP01	B	*		4	2878	B Q81		51
439	14	140	OUTPAR	SBR	OUTP01&3		4	2882	H R33		51
440	14	150		MLC	@G92@,X2		7	2886	M E08 094		51
441	14	160	OUTP02	BCE	OUTPEX,0&X2,|		8	2893	B R23 0!0 |		51
442	14	170		MLC	0&X2,OUTSYM		7	2901	M 0!0 D26		51
443	14	180		SAR	X2		4	2908	Q 094		51
444	14	190		B	PUTX		4	2912	B 363		51
445	14	200		DCW	OUTSYM		3	2918	D26		52
446	14	210		B	OUTP02		4	2919	B Q93		52
447	14	220	OUTPEX	B	PUTX		4	2923	B 363		52

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
448	14	230		DCW	MACSEP		3	2929	D35		52
449	14	240	OUTP01	B	*		4	2930	B R33		52
450	14	250	ENTLST	MLC	&LST1,X2		7	2934	M E15 094		52
451	15	010	ENTLST1	B	GTSYM		4	2941	B Q02		52
452	15	020		C	CURNT,MACSEP		7	2945	C T02 D35		53
453	15	030		BE	INIT		5	2952	B T33 S		53
454	15	040		MLC	CURNT,0&X2		7	2957	M T02 0!0		53
455	15	050		SBR	X2		4	2964	H 094		53
456	15	060		B	ENTLST1		4	2968	B R41		53
457	15	070	OUTLST	SBR	X3		4	2972	H 099		53
458	15	080		MLC	@000@,OTCNT		7	2976	M E11 D52		53
459	15	090		MLC	&LST1,X2		7	2983	M E18 094		54
460	15	100	OUTL1	C	2&X3,OTCNT		7	2990	C 0?2 D52		54
461	15	110		BE	OUTL2		5	2997	B ?31 S		54
462	15	120		MLC	0&X2,OUTSYM		7	3002	M 0!0 D26		54
463	15	130		SAR	X2		4	3009	Q 094		54
464	15	140		B	PUTX		4	3013	B 363		54
465	15	150		DCW	OUTSYM		3	3019	D26		54
466	15	160		A	&1,OTCNT		7	3020	A E04 D52		55
467	15	170		B	OUTL1		4	3027	B R90		55
468	15	180	OUTL2	B	PUTX		4	3031	B 363		55
469	15	190		DCW	MACSEP		3	3037	D35		55
470	15	200		B	3&X3		4	3038	B 0?3		55
471	15	210	OUTMC0	SBR	OUTMXX&3		4	3042	H ?60		55
472	15	220		MLC	@0@,PRSW		7	3046	M D72 D53		55
473	15	230	OUTM11	B	OUTMAC		4	3053	B A06		56
474	15	240	OUTMXX	B	*		4	3057	B ?60		56
475	15	250	OUTMC1	SBR	OUTMXX&3		4	3061	H ?60		56
476	16	010		MLC	@1@,PRSW		7	3065	M D82 D53		56
477	16	020		B	OUTM11		4	3072	B ?53		56
478	16	030	OUTMC2	SBR	OUTMXX&3		4	3076	H ?60		56
479	16	040		MLC	@2@,PRSW		7	3080	M E19 D53		56
480	16	050		B	OUTM11		4	3087	B ?53		57
481	16	060	OUTMC3	SBR	OUTMXX&3		4	3091	H ?60		57
482	16	070		MLC	@3@,PRSW		7	3095	M E20 D53		57
483	16	080		B	OUTM11		4	3102	B ?53		57
484	16	090	OUTMAC	SBR	OUTM01&3		4	3106	H A69		57
485	16	100		B	OUTLOC		4	3110	B A70		57
486	16	110		BCE	OUTSEP,PRSW,0		8	3114	B A59 D53 0		57
487	16	120		B	PUTX		4	3122	B 363		58
488	16	130		DCW	PAR1		3	3128	C31		58
489	16	140		BCE	OUTSEP,PRSW,1		8	3129	B A59 D53 1		58
490	16	150		B	PUTX		4	3137	B 363		58
491	16	160		DCW	PAR2		3	3143	C34		58
492	16	170		BCE	OUTSEP,PRSW,2		8	3144	B A59 D53 2		58
493	16	180		B	PUTX		4	3152	B 363		58
494	16	190		DCW	PAR3		3	3158	C37		59
495	16	200	OUTSEP	B	PUTX		4	3159	B 363		59
496	16	210		DCW	MACSEP		3	3165	D35		59
497	16	220	OUTM01	B	*		4	3166	B A69		59

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
498	16	230	OUTLOC	SBR	OUTL01&3		4	3170	H A98		59
499	16	240		B	PUTX		4	3174	B 363		59
500	16	250		DCW	LOC		3	3180	D29		59
501	17	010		B	PUTX		4	3181	B 363		60
502	17	020		DCW	OUTOP		3	3187	C28		60
503	17	030		B	PUTX		4	3188	B 363		60
504	17	040		DCW	OP		3	3194	D32		60
505	17	050	OUTL01	B	*		4	3195	B A98		60
506	17	060		DCW	@]@		1	3199			60
507	17	070		DCW	PTEST		3	3202	T26		60
508	17	080		DC	@.DY@		3	3205			61
509	17	090		DCW	PTEST		3	3208	T26		61
510	17	100		DC	@.SE@		3	3211			61
511	17	110		DCW	GOSP		3	3214	V31		61
512	17	120		DC	@)99@	SPECIAL GO TO NO PARAMETER	3	3217			61
513	17	130		DCW	GOSP		3	3220	V31		61
514	17	140		DC	@.XF@	OVERLAY OPERATOR	3	3223			61
515	17	150		DCW	READ		3	3226	Y67		61
516	17	160		DC	@.RT@	RETURN OPERATOR	3	3229			62
517	17	170		DCW	ENTLST		3	3232	R34		62
518	17	180		DC	@.LT@	LIST OPERATOR	3	3235			62
519	17	190		DCW	EXAMNE		3	3238	L73		62
520	17	200		DC	@)30@	EXAMINE	3	3241			62
521	17	210		DCW	UNTIL		3	3244	Z04		62
522	17	220		DC	@*18@	UNTIL	3	3247			62
523	17	230		DCW	LBLB		3	3250	V61		62
524	17	240		DC	@*36@	MOVE GM	3	3253			63
525	17	250		DCW	LBLB		3	3256	V61		63
526	18	010		DC	@*17@	BEFORE	3	3259			63
527	18	020		DCW	LBLB		3	3262	V61		63
528	18	030		DC	@*22@	AFTER	3	3265			63
529	18	040		DCW	CLOPEN		3	3268	Y29		63
530	18	050		DC	@)14@	OPEN	3	3271			63
531	18	060		DCW	READ		3	3274	Y67		63
532	18	070		DC	@)13@	READ	3	3277			64
533	18	080		DCW	STOP		3	3280	V08		64
534	18	090		DC	@)11@	STOP	3	3283			64
535	18	100		DCW	ALTER		3	3286	X60		64
536	18	110		DC	@)10@	ALTER	3	3289			64
537	18	120		DCW	CLOPEN		3	3292	Y29		64
538	18	130		DC	@)09@	CLOSE	3	3295			64
539	18	140		DCW	WRITE		3	3298	!18		64
540	18	150		DC	@)08@	WRITE	3	3301			65
541	18	160		DCW	ACCEPT		3	3304	W29		65
542	18	170		DC	@)07@	ACCEPT	3	3307			65
543	18	180		DCW	DISPLY		3	3310	W22		65
544	18	190		DC	@)04@	DISPLAY	3	3313			65
545	18	200		DCW	GO		3	3316	V76		65
546	18	210		DC	@)20@	GO	3	3319			65
547	18	220		DCW	LBLB		3	3322	V61		65

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
548	18	230	TAB	DC	@.LB@		3	3325			66
549	18	240	OUTOP	DCW	#3		3	3328			66
550	18	250	PAR1	DCW	#3		3	3331			66
551	19	010	PAR2	DCW	#3		3	3334			66
552	19	020	PAR3	DCW	#3		3	3337			66
553	19	030	PAR4	DCW	#3		3	3340			67
554	19	040	PAR5	DCW	#3		3	3343			67
555	19	050	LST10	DCW	#3		3	3346			67
556	19	060		DCW	#24		24	3370			67
557	19	070	LST1	DCW	#3		3	3373			67
558	19	080	SRUN	DCW	@*30@		3	3376			67
559	19	090	SFRM	DCW	@*28@		3	3379			68
560	19	100	SUPON	DCW	@*23@		3	3382			68
561	19	110	DPSBOP	DCW	@.DY@		3	3385			68
562	19	120	NULL	DCW	@000@		3	3388			68
563	19	130	SVN	DCW	@.VN@		3	3391			68
564	19	140	CNT	DCW	@000@		3	3394			68
565	19	150	SPROC	DCW	@*01@		3	3397			68
566	19	160	SPRCD	DCW	@*11@		3	3400			69
567	19	170	DCOP	DCW	@#DC@		3	3403			69
568	19	180	ZAOP	DCW	@#ZA@		3	3406			69
569	19	190	DPYSW1	DCW	@0@		1	3407			69
570	19	200	DPYSW	DC	@0@		1	3408			69
571	19	210	SBDPY	DCW	@I0?@		3	3411			69
572	19	220	SAVE	DCW	#3		3	3414			69
573	19	230	SE	DCW	@.SE@		3	3417			69
574	19	240	GLF	DCW	#3		3	3420			70
575	19	250	SYM	DCW	#3		3	3423			70
576	20	010	OUTSYM	DCW	#3		3	3426			70
577	20	020	LOC	DCW	@.LC@		3	3429			70
578	20	030	OP	DCW	@.OP@		3	3432			70
579	20	040	MACSEP	DCW	@.MC@		3	3435			70
580	20	050	WRSW	DCW	@0@		1	3436			70
581	20	060	SUBSW	DCW	@0@		1	3437			71
582	20	070	SAFT	DCW	@*22@		3	3440			71
583	20	080	SFRST	DCW	@*38@		3	3443			71
584	20	090	SRPL	DCW	@*40@		3	3446			71
585	20	100	SBY	DCW	@*35@		3	3449			71
586	20	110	OTCNT	DCW	@000@		3	3452			71
587	20	120	PRSW	DCW	@0@		1	3453			71
588	20	130	SBOP	DCW	@.SB@		3	3456			72
589	20	140	RPRN	DCW	@)@		3	3459			72
590	20	150	EOP	DCW	@.EP@		3	3462			72
591	20	160	SDPND	DCW	@*03@		3	3465			72
592	20	170	NAME	DCW	#3		3	3468			72
593	20	180	NOTE	DCW	@*24@		3	3471			72
594	20	190		LTORG					3472		
				DCW	@0@		1	3472		LIT	72
	141				&TAB		3	3475	C25	ADCON	73
					@ @		3	3478		LIT	73

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
					@)20@	3		3481		LIT	73
					@1@	1		3482		LIT	73
					@A@	1		3483		LIT	73
					@.P1@	3		3486		LIT	73
					@.P2@	3		3489		LIT	73
					@.PC@	3		3492		LIT	74
					@.PE@	3		3495		LIT	74
					@.WF@	3		3498		LIT	74
					@A0@	2		3500		LIT	74
					@Z@	1		3501		LIT	74
					@10@	2		3503		LIT	74
					&1	1		3504		LIT	74
					@?@	1		3505		LIT	75
					@G92@	3		3508		LIT	75
					@000@	3		3511		LIT	75
					@|@	1		3512		LIT	75
	450				&LST1	3		3515	C73	ADCON	75
	459				&LST1	3		3518	C73	ADCON	75
					@2@	1		3519		LIT	75
					@3@	1		3520		LIT	76
595	20	200		DCW	@}@	1		3521			76
596	20	210		END	START				/ T10 080		77

CLEAR STORAGE 1 ,008015,019026,030,034041,045,053,0570571026 1
 CLEAR STORAGE 2 L068112,102106,113/101099/I99,027A070028)027B0010270B0261,001/001113I0 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	010	000	JOB	1401 COBOL - G05						
102	1	020		CTL	631 11						
103	1	030	X1	EQU	89			0089			
104	1	040	X2	EQU	94			0094			
105	1	050	X3	EQU	99			0099			
106	1	060	GETX	EQU	335			0335			
107	1	070	PUTX	EQU	363			0363			
108	1	080	SUPER	EQU	351			0351			
109	1	090		ORG	1300				1300		
110	1	100	START	MLC	&F,TABADR	7	1300	M ?08	A31		4
111	1	110	RTURN	B	INIT	4	1307	B T18			4
112	1	120	NTINT	B	PUTX	4	1311	B 363			4
113	1	130		DCW	SYM	3	1317	A34			4
114	1	140	INIT	B	GETX	4	1318	B 335			4
115	1	150		DCW	SYM	3	1324	A34			4
116	1	160		DCW	EOJ	3	1327	K96			4
117	1	170		C	SYM,LOC	7	1328	C A34	A40		5
118	1	180		BU	NTINT	5	1335	B T11	/		5
119	1	190		B	GETX	4	1340	B 335			5
120	1	200		DCW	SYMOP	3	1346	A37			5
121	1	210		DCW	EOJ	3	1349	K96			5
122	1	220		C	SYMOP,IMP	7	1350	C A37	A52		5
123	1	230		BE	IMRTTN	5	1357	B !06	S		5
124	1	240	INIT5	B	RELTST	4	1362	B V72			6
125	1	250		DCW	ARINT	3	1368	V54			6
126	2	010	INIT2	B	GETX	4	1369	B 335			6
127	2	020		DCW	SYM	3	1375	A34			6
128	2	030		DCW	EOJSET	3	1378	L10			6
129	2	040		C	SYM,LOC	7	1379	C A34	A40		6
130	2	050		BE	INIT1	5	1386	B U14	S		6
131	2	060		C	SYM,SEOP	7	1391	C A34	A58		7
132	2	070		BE	ENTSE	5	1398	B J88	S		7
133	2	080		MLC	&NTINT,RTURN&3	7	1403	M ?11	T10		7
134	2	090		B	OUTPUT	4	1410	B L17			7
135	2	100	INIT1	B	GETX	4	1414	B 335			7
136	2	110		DCW	SYMOP	3	1420	A37			7
137	2	120		DCW	EOJSET	3	1423	L10			7
138	2	130	INIT3	B	RELTST	4	1424	B V72			8
139	2	140		DCW	INIT4	3	1430	U35			8
140	2	150		B	INIT2	4	1431	B T69			8
141	2	160	INIT4	C	SYMOP,@ **@	7	1435	C A37	?14		8
142	2	170		BE	ENTMAC	5	1442	B J18	S		8
143	2	180		C	SYMOP-1,@ @	7	1447	C A36	?16		8
144	2	190		BE	ENTMAC	5	1454	B J18	S		8
145	2	200		C	SYMOP,@.SB@	7	1459	C A37	?19		9
146	2	210		BE	ENTMAC	5	1466	B J18	S		9
147	2	220		C	SYMOP,GO	7	1471	C A37	A55		9

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	2	230		BE	GORTN		5	1478	B Z18 S		9
149	2	240		C	SYMOP,IMP		7	1483	C A37 A52		9
150	2	250		BE	IMREL		5	1490	B Z40 S		9
151	3	010		C	SYMOP,@)97@		7	1495	C A37 ?22		10
152	3	020		BE	ENTMAC		5	1502	B J18 S		10
153	3	030		C	SYMOP,@)98@		7	1507	C A37 ?25		10
154	3	040		BE	ENTMAC		5	1514	B J18 S		10
155	3	050		C	SYMOP,LBOP		7	1519	C A37 A61		10
156	3	060		BE	LBRTN		5	1526	B X48 S		10
157	3	070		C	SYMOP,EQOP		7	1531	C A37 A64		11
158	3	080		BE	EQRTN		5	1538	B X21 S		11
159	3	090		MLC	&ARINT,RTURN&3		7	1543	M ?28 T10		11
160	3	100		B	OUTPUT		4	1550	B L17		11
161	3	110	ARINT	B	PUTX		4	1554	B 363		11
162	3	120		DCW	SYM		3	1560	A34		11
163	3	130		B	PUTX		4	1561	B 363		11
164	3	140		DCW	SYMOP		3	1567	A37		12
165	3	150		B	INIT		4	1568	B T18		12
166	3	160	RELTST	SBR	X3		4	1572	H 099		12
167	3	170		MLC	2&X3,RFLEXT&3		7	1576	M 0?2 W29		12
168	3	180		MLC	X3,SAVE		7	1583	M 099 A70		12
169	3	190		BCE	ENTREL,SYMOP-2,\$		8	1590	B W78 A35 \$		12
170	3	200		BCE	ENTREL,SYMOP-2,%		8	1598	B W78 A35 %		13
171	3	210		C	SYMOP,@ #@		7	1606	C A37 ?31		13
172	3	220		BE	ENTREL		5	1613	B W78 S		13
173	3	230		BCE	RELTS1,SYMOP-2,.		8	1618	B W30 A35 .		13
174	3	240	RFLEXT	B	*		4	1626	B W29		13
175	3	250	RELTS1	C	SYMOP,@LE@		7	1630	C A37 ?33		13
176	4	010		BE	ENTREL		5	1637	B W78 S		14
177	4	020		C	SYMOP,@SW@		7	1642	C A37 ?35		14
178	4	030		BE	ENTREL		5	1649	B W78 S		14
179	4	040		C	SYMOP,@NE@		7	1654	C A37 ?37		14
180	4	050		BE	ENTREL		5	1661	B W78 S		14
181	4	060		C	SYMOP,@GE@		7	1666	C A37 ?39		14
182	4	070		BU	RFLEXT		5	1673	B W26 /		15
183	4	080	ENTREL	MLC	SYMOP,LASTOP		7	1678	M A37 A67		15
184	4	090		MLC	&FREL,FADR		7	1685	M ?42 A73		15
185	4	100		B	ENTER		4	1692	B L28		15
186	4	110		B	ENTTAB		4	1696	B J40		15
187	4	120		DCW	FREL&1		3	1702	A75		15
188	4	130		MLC	TABADR,SVAD		7	1703	M A31 A28		15
189	4	140		MLC	SAVE,X3		7	1710	M A70 099		16
190	4	150		B	3&X3		4	1717	B 0?3		16
191	4	160	EQRTN	MLC	&FIMP,FADR		7	1721	M ?45 A73		16
192	4	170		B	ENTER		4	1728	B L28		16
193	4	180		MLC	FIMP&12,PAR2		7	1732	M B43 A96		16
194	4	190		MLC			1	1739	M		16
195	4	200		B	LKRPL		4	1740	B P17		16
196	4	210		B	INIT2		4	1744	B T69		17
197	4	220	LBRTN	MLC	&FLB,FADR		7	1748	M ?48 A73		17

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
198	4	230		B	ENTER		4	1755	B L28		17
199	4	240		B	GETOP		4	1759	B K11		17
200	4	250		DCW	LBGO3		3	1765	X78		17
201	5	010		C	SYMOP,GO		7	1766	C A37 A55		17
202	5	020		BE	LBGO1		5	1773	B Y08 S		17
203	5	030	LBGO3	B	ENTTAB		4	1778	B J40		18
204	5	040		DCW	FLB&1		3	1784	B57		18
205	5	050		C	SYMOP,IMP		7	1785	C A37 A52		18
206	5	060		BU	INIT3		5	1792	B U24 /		18
207	5	070		B	OUTP		4	1797	B M49		18
208	5	080		DCW	F		3	1803	B67		18
209	5	090		B	IMRTTN		4	1804	B !06		18
210	5	100	LBGO1	MLC	&FGO,FADR		7	1808	M ?51 A73		19
211	5	110		B	ENTER		4	1815	B L28		19
212	5	120		MLC	FGO&9,PAR2		7	1819	M B54 A96		19
213	5	130		MLC	FLB&9,PAR1		7	1826	M B65 A93		19
214	5	140		B	LKRPL		4	1833	B P17		19
215	5	150	LBGO2	B	REVREL		4	1837	B P91		19
216	5	160		B	GETOP		4	1841	B K11		19
217	5	170		DCW	GOOUT		3	1847	Y75		20
218	5	180		C	SYMOP,IMP		7	1848	C A37 A52		20
219	5	190		BU	GOOUT		5	1855	B Y75 /		20
220	5	200		MLC	&FIMP,FADR		7	1860	M ?54 A73		20
221	5	210		B	ENTER		4	1867	B L28		20
222	5	220		B	IMOUT		4	1871	B Y86		20
223	5	230	GOOUT	B	OUTP		4	1875	B M49		20
224	5	240		DCW	F		3	1881	B67		21
225	5	250		B	START		4	1882	B T00		21
226	6	010	IMOUT	MLC	LBOP,FIMP&3		7	1886	M A61 B34		21
227	6	020		MLC	@|@,FIMP&10		7	1893	M ?55 B41		21
228	6	030		B	OUTP		4	1900	B M49		21
229	6	040		DCW	F		3	1906	B67		21
230	6	050		B	OUTP		4	1907	B M49		21
231	6	060		DCW	FIMP		3	1913	B31		22
232	6	070		B	START		4	1914	B T00		22
233	6	080	GORTN	MLC	&FGO,FADR		7	1918	M ?58 A73		22
234	6	090		B	ENTER		4	1925	B L28		22
235	6	100		MLC	FGO&9,PAR2		7	1929	M B54 A96		22
236	6	110		B	LBGO2		4	1936	B Y37		22
237	6	120	IMREL	MLC	&FIMP,FADR		7	1940	M ?61 A73		22
238	6	130		B	ENTER		4	1947	B L28		23
239	6	140		MLC	FIMP&12,PAR2		7	1951	M B43 A96		23
240	6	150		B	REVREL		4	1958	B P91		23
241	6	160		MLC	LBOP,FIMP&3		7	1962	M A61 B34		23
242	6	170		MLC	@|@,FIMP&10		7	1969	M ?55 B41		23
243	6	180		B	ENTTAB		4	1976	B J40		23
244	6	190		DCW	FIMP&1		3	1982	B32		23
245	6	200		B	GETOP		4	1983	B K11		24
246	6	210		DCW	GOOUT		3	1989	Y75		24
247	6	220		C	SYMOP,IMP		7	1990	C A37 A52		24

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
248	6	230		BE	IMREL		5	1997	B Z40 S		24
249	6	240		B	INIT3		4	2002	B U24		24
250	6	250	IMRTTN	MLC	&FIMP,FADR		7	2006	M ?64 A73		24
251	7	010		B	ENTER		4	2013	B L28		24
252	7	020		B	GETOP		4	2017	B K11		25
253	7	030		DCW	IMOUT1		3	2023	!36		25
254	7	040		C	SYMOP,GO		7	2024	C A37 A55		25
255	7	050		BE	IMRTT1		5	2031	B !54 S		25
256	7	060	IMOUT1	B	OUTP		4	2036	B M49		25
257	7	070		DCW	FIMP		3	2042	B31		25
258	7	075		MLC	&F,TABADR		7	2043	M ?67 A31		25
259	7	080		B	INIT5		4	2050	B T62		26
260	7	090	IMRTT1	MLC	&FGO,FADR		7	2054	M ?70 A73		26
261	7	100		B	ENTER		4	2061	B L28		26
262	7	110		MLC	FGO&9,PAR1		7	2065	M B54 A93		26
263	7	120		MLC	FIMP&12,PAR2		7	2072	M B43 A96		26
264	7	130		MLC	EQOP,FIMP&3		7	2079	M A64 B34		26
265	7	140		MLC	PAR1,FIMP&12		7	2086	M A93 B43		27
266	7	150		MLC	PAR2,FGO&9		7	2093	M A96 B54		27
267	7	160		B	OUTP		4	2100	B M49		27
268	7	170		DCW	FGO		3	2106	B45		27
269	7	180		B	OUTP		4	2107	B M49		27
270	7	190		DCW	FIMP		3	2113	B31		27
271	7	200		B	START		4	2114	B T00		27
272	7	210	ENTMAC	MLC	&FARSB,FADR		7	2118	M ?73 A73		28
273	7	220		B	ENTER		4	2125	B L28		28
274	7	230		B	ENTTAB		4	2129	B J40		28
275	7	240		DCW	FARSB&1		3	2135	B06		28
276	7	250		B	INIT2		4	2136	B T69		28
277	8	010	ENTTAB	SBR	X3		4	2140	H 099		28
278	8	020		MLC	2&X3,TBPAR&3		7	2144	M 0?2 J65		28
279	8	030		MLC	TABADR,X1		7	2151	M A31 089		29
280	8	040		SW	1&X1		4	2158	, 0|1		29
281	8	050	TBPAR	MCM	*,1&X1		7	2162	P J68 0|1		29
282	8	060		SBR	X1		4	2169	H 089		29
283	8	070		C	@ @,0&X1		7	2173	C ?16 0|0		29
284	8	080		SBR	TABADR		4	2180	H A31		29
285	8	090		B	3&X3		4	2184	B 0?3		29
286	8	100	ENTSE	B	SETAB		4	2188	B J96		30
287	8	110		B	INIT2		4	2192	B T69		30
288	8	120	SETAB	SBR	SEXT&3		4	2196	H K10		30
289	8	130		B	ENTTAB		4	2200	B J40		30
290	8	140		DCW	FSE&1		3	2206	A98		30
291	8	150	SEXT	B	*		4	2207	B K10		30
292	8	160	GETOP	SBR	X2		4	2211	H 094		30
293	8	170		MLC	2&X2,GETFLS&3		7	2215	M 0!2 K95		31
294	8	180	GTOP2	B	GETX		4	2222	B 335		31
295	8	190		DCW	SYM		3	2228	A34		31
296	8	200		DCW	EOJSET		3	2231	L10		31
297	8	210		C	SYM,LOC		7	2232	C A34 A40		31

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
298	8	220		BU	GTOP1		5	2239	B K65 /		31
299	8	230		B	GETX		4	2244	B 335		31
300	8	240		DCW	SYMOP		3	2250	A37		32
301	8	250		DCW	EOJSET		3	2253	L10		32
302	9	010		MLC	&ARINT,RTURN&3		7	2254	M ?76 T10		32
303	9	020		B	3&X2		4	2261	B 0!3		32
304	9	030	GTOP1	C	SYM,SEOP		7	2265	C A34 A58		32
305	9	040		BU	GTFL1		5	2272	B K85 /		32
306	9	050		B	SETAB		4	2277	B J96		32
307	9	060		B	GTOP2		4	2281	B K22		33
308	9	070	GTFL1	MLC	&NTINT,RTURN&3		7	2285	M ?79 T10		33
309	9	080	GETFLS	B	3&X2		4	2292	B 0!3		33
310	9	090	EOJ	B	PUTX		4	2296	B 363		33
311	9	100		DCW	EOP		3	2302	A49		33
312	9	110		B	351		4	2303	B 351		33
313	9	120		DCW	@G06@		3	2309			33
314	9	130	EOJSET	MLC	&EOJ,RTURN&3		7	2310	M ?82 T10		34
315	9	140	OUTPUT	B	OUTP		4	2317	B M49		34
316	9	150		DCW	F		3	2323	B67		34
317	9	160		B	START		4	2324	B T00		34
318	9	170	ENTER	SBR	ENT01&3		4	2328	H M11		34
319	9	180		MLC	FADR,X2		7	2332	M A73 094		34
320	9	190		MLC	SYMOP,3&X2		7	2339	M A37 0!3		34
321	9	200		C	@ @,3&X2		7	2346	C ?85 0!3		35
322	9	210		SBR	X2		4	2353	H 094		35
323	9	220	ENT02	B	GETX		4	2357	B 335		35
324	9	230		DCW	ENTSYM		3	2363	A22		35
325	9	240		DCW	EOJSET		3	2366	L10		35
326	9	250		C	ENTSYM,MACSEP		7	2367	C A22 A46		35
327	10	010		BE	ENT03		5	2374	B L94 S		35
328	10	020		MLC	ENTSYM,6&X2		7	2379	M A22 0!6		36
329	10	030		SBR	X2		4	2386	H 094		36
330	10	040		B	ENT02		4	2390	B L57		36
331	10	050	ENT03	MLC	@|@,4&X2		7	2394	M ?55 0!4		36
332	10	060		MLC	&INIT,RTURN&3		7	2401	M ?88 T10		36
333	10	070	ENT01	B	*		4	2408	B M11		36
334	10	080		DCW	@]@		1	2412			36
335	10	090		DCW	@ #@		3	2415			37
336	10	100		DC	@.NE@		3	2418			37
337	10	110		DCW	@ #@		3	2421			37
338	10	120		DCW	@.SW@		3	2424			37
339	10	130		DC	@%SW@		3	2427			37
340	10	140		DCW	@.SW@		3	2430			37
341	10	150		DCW	@\$21@		3	2433			37
342	10	160		DC	@.GE@		3	2436			37
343	10	170		DCW	@\$21@		3	2439			37
344	10	180		DCW	@\$20@		3	2442			37
345	10	190		DC	@.LE@		3	2445			38
346	10	200	RVTAB	DCW	@\$20@		3	2448			38
347	10	210	OUTP	SBR	X3		4	2449	H 099		38

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
348	10	220		MLC	2&X3,X2		7	2453	M 0?2 094		38
349	10	230		C	@ @,0&X2		7	2460	C ?85 0!0		38
350	10	240		SBR	X2		4	2467	H 094		39
351	10	250		B	OUTP3		4	2471	B N64		39
352	11	010	OUTP1	MLC	6&X2,OUTSYM		7	2475	M 0!6 A19		39
353	11	020		SAR	X2		4	2482	Q 094		39
354	11	030		C	OUTSYM,@...@		7	2486	C A19 ?91		39
355	11	040		BE	OUTP1		5	2493	B M75 S		39
356	11	050		B	PUTX		4	2498	B 363		39
357	11	060		DCW	OUTSYM		3	2504	A19		40
358	11	070		C	OUTSYM,SEOP		7	2505	C A19 A58		40
359	11	080		BU	OUTP2		5	2512	B N33 /		40
360	11	090		BCE	OUTEX1,4&X2,|		8	2517	B 0!4 0!4 |		40
361	11	100		BCE	OUTP5,4&X2,1		8	2525	B N72 0!4 1		40
362	11	110	OUTP2	BCE	OUTEXT,4&X2,|		8	2533	B 007 0!4 |		40
363	11	120		BWZ	OUTMC,4&X2,1		8	2541	V N53 0!4 1		41
364	11	130		B	OUTP1		4	2549	B M75		41
365	11	140	OUTMC	CW	4&X2		4	2553	) 0!4		41
366	11	150	OUTP4	B	PUTX		4	2557	B 363		41
367	11	160		DCW	MACSEP		3	2563	A46		41
368	11	170	OUTP3	BCE	OUTP1,5&X2,.		8	2564	B M75 0!5 .		41
369	11	180	OUTP5	B	PUTX		4	2572	B 363		41
370	11	190		DCW	LOC		3	2578	A40		42
371	11	200		C	6&X2,@.LE@		7	2579	C 0!6 ?94		42
372	11	210		BE	LEOUT		5	2586	B 0!8 S		42
373	11	220		C	6&X2,@.GE@		7	2591	C 0!6 ?97		42
374	11	230		BE	GEOUT		5	2598	B 029 S		42
375	11	240		B	OUTP1		4	2603	B M75		42
376	11	250	OUTEXT	B	PUTX		4	2607	B 363		42
377	12	010		DCW	MACSEP		3	2613	A46		43
378	12	020	OUTEX1	B	3&X3		4	2614	B 0?3		43
379	12	030	LEOUT	MLC	@\$20@,OUTSYM		7	2618	M A00 A19		43
380	12	040		B	LGEOT		4	2625	B 036		43
381	12	050	GEOUT	MLC	@\$21@,OUTSYM		7	2629	M A03 A19		43
382	12	060	LGEOT	B	PUTX		4	2636	B 363		43
383	12	070		DCW	OUTSYM		3	2642	A19		43
384	12	080		B	PUTX		4	2643	B 363		44
385	12	090		DCW	OP		3	2649	A43		44
386	12	100		MLC	12&X2,OUTSYM		7	2650	M 0J2 A19		44
387	12	110		B	PUTX		4	2657	B 363		44
388	12	120		DCW	OUTSYM		3	2663	A19		44
389	12	130		MLC	15&X2,OUTSYM		7	2664	M 0J5 A19		44
390	12	140		B	PUTX		4	2671	B 363		44
391	12	150		DCW	OUTSYM		3	2677	A19		45
392	12	160		B	GNLAB		4	2678	B R43		45
393	12	170		DCW	OUTSYM		3	2684	A19		45
394	12	180		B	PUTX		4	2685	B 363		45
395	12	190		DCW	OUTSYM		3	2691	A19		45
396	12	200		MLC	OUTSYM,12&X2		7	2692	M A19 0J2		45
397	12	210		MLC	@...@,15&X2		7	2699	M ?91 0J5		45

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
398	12	220		MLC	IMP,6&X2		7	2706	M A52 016		46
399	12	230		B	OUTP4		4	2713	B N57		46
400	12	240	LKRPL	SBR	LK01&3		4	2717	H P90		46
401	12	250		MLC	TABADR,X1		7	2721	M A31 089		46
402	13	010	LK02	BCE	LK01,0&X1,]		8	2728	B P87 0|0]		46
403	13	020		C	0&X1,PAR1		7	2736	C 0|0 A93		46
404	13	030		BU	LK03		5	2743	B P75 /		47
405	13	040		C	0&X1		4	2748	C 0|0		47
406	13	050		SAR	X2		4	2752	Q 094		47
407	13	060		C	3&X2,LBOP		7	2756	C 013 A61		47
408	13	070		BE	LK03		5	2763	B P75 S		47
409	13	080		MLC	PAR2,0&X1		7	2768	M A96 0|0		47
410	13	090	LK03	C	0&X1		4	2775	C 0|0		47
411	13	100		SAR	X1		4	2779	Q 089		48
412	13	110		B	LK02		4	2783	B P28		48
413	13	120	LK01	B	*		4	2787	B P90		48
414	13	130	REVREL	SBR	REV01&3		4	2791	H Q38		48
415	13	140		MLC	SVAD,X1		7	2795	M A28 089		48
416	13	150		MLC	PAR2,0&X1		7	2802	M A96 0|0		48
417	13	160		C	0&X1		4	2809	C 0|0		48
418	13	170		SAR	X1		4	2813	Q 089		49
419	13	180		MLC	3&X1,RVNM		7	2817	M 0|3 A25		49
420	13	190		B	REVOPL		4	2824	B Q39		49
421	13	200		MLC	RVNM,3&X1		7	2828	M A25 0|3		49
422	13	210	REV01	B	*		4	2835	B Q38		49
423	13	220	REVOPL	SBR	RVOP1&3		4	2839	H R42		49
424	13	230		C	RVNM-1,@\$1@		7	2843	C A24 A05		49
425	13	240		BU	RVOP12		5	2850	B Q66 /		50
426	13	250		MLC	@%1@,RVNM-1		7	2855	M A07 A24		50
427	14	010		B	RVOP11		4	2862	B R39		50
428	14	020	RVOP12	C	RVNM-1,@%1@		7	2866	C A24 A07		50
429	14	030		BU	RVOP13		5	2873	B Q89 /		50
430	14	040		MLC	@\$1@,RVNM-1		7	2878	M A05 A24		50
431	14	050		B	RVOP11		4	2885	B R39		50
432	14	060	RVOP13	MLC	&RVTAB,X2		7	2889	M A10 094		51
433	14	070	RVOP14	BCE	RVOP11,0&X2,]		8	2896	B R39 010]		51
434	14	080		C	0&X2,RVNM		7	2904	C 010 A25		51
435	14	090		SAR	X2		4	2911	Q 094		51
436	14	100		BE	RVOP15		5	2915	B R32 S		51
437	14	110		C	1&X2		4	2920	C 011		51
438	14	120		SAR	X2		4	2924	Q 094		51
439	14	130		B	RVOP14		4	2928	B Q96		52
440	14	140	RVOP15	MLC	0&X2,RVNM		7	2932	M 010 A25		52
441	14	150	RVOP11	B	*		4	2939	B R42		52
442	14	160	GNLAB	SBR	X1		4	2943	H 089		52
443	14	170		MLC	2&X1,GNPAR&6		7	2947	M 0|2 ?01		52
444	14	180		A	&1,GNNM		7	2954	A A11 A16		52
445	14	190		BCE	GNLAB1,GNNM-1,0		8	2961	B R81 A15 0		53
446	14	200		C	GNNM-1,@1@		7	2969	C A15 A12		53
447	14	210		BU	GNLAB2		5	2976	B R88 /		53

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
448	14	220	GNLAB1	MLC	@S@,GNNM-1		7	2981	M A13 A15		53
449	14	230	GNLAB2	MZ	@S@,GNNM-1		7	2988	Y A13 A15		53
450	14	240	GNPAR	MLC	GNNM,*		7	2995	M A16 ?01		54
451	14	250		B	3&X1		4	3002	B 0|3		54
452	15	010		LTORG					3006		
		110		DCW	&F		3	3008	B67	ADCON	54
		133			&NTINT		3	3011	T11	ADCON	54
					@ **@		3	3014		LIT	54
					@ @		2	3016		LIT	54
					@.SB@		3	3019		LIT	54
					@)97@		3	3022		LIT	55
					@)98@		3	3025		LIT	55
		159			&ARINT		3	3028	V54	ADCON	55
					@ #@		3	3031		LIT	55
					@LE@		2	3033		LIT	55
					@SW@		2	3035		LIT	55
					@NE@		2	3037		LIT	55
					@GE@		2	3039		LIT	56
		184			&FREL		3	3042	A74	ADCON	56
		191			&FIMP		3	3045	B31	ADCON	56
		197			&FLB		3	3048	B56	ADCON	56
		210			&FGO		3	3051	B45	ADCON	56
		220			&FIMP		3	3054	B31	ADCON	56
					@|@		1	3055		LIT	56
		233			&FGO		3	3058	B45	ADCON	57
		237			&FIMP		3	3061	B31	ADCON	57
		250			&FIMP		3	3064	B31	ADCON	57
		258			&F		3	3067	B67	ADCON	57
		260			&FGO		3	3070	B45	ADCON	57
		272			&FARSB		3	3073	B05	ADCON	57
		302			&ARINT		3	3076	V54	ADCON	57
		308			&NTINT		3	3079	T11	ADCON	58
		314			&EOJ		3	3082	K96	ADCON	58
					@ @		3	3085		LIT	58
		332			&INIT		3	3088	T18	ADCON	58
					@...@		3	3091		LIT	58
					@.LE@		3	3094		LIT	58
					@.GE@		3	3097		LIT	58
					@\$20@		3	3100		LIT	59
					@\$21@		3	3103		LIT	59
					@\$1@		2	3105		LIT	59
					@%1@		2	3107		LIT	59
		432			&RVTAB		3	3110	M48	ADCON	59
					&1		1	3111		LIT	59
					@1@		1	3112		LIT	59
					@S@		1	3113		LIT	60
					@SS0@		3	3116			60
453	15	020	GNNM	DCW			3	3119			60
454	15	030	OUTSYM	DCW	#3		3	3122			60
455	15	040	ENTSYM	DCW	#3		3	3125			60
456	15	050	RVNM	DCW	#3		3	3125			60

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
457	15	060	SVAD	DCW	#3		3	3128			60
458	15	070	TABADR	DCW	#3		3	3131			60
459	15	080	SYM	DC	#3		3	3134			61
460	15	090	SYMOP	DCW	#3		3	3137			61
461	15	100	LOC	DCW	@.LC@		3	3140			61
462	15	110	OP	DCW	@.OP@		3	3143			61
463	15	120	MACSEP	DCW	@.MC@		3	3146			61
464	15	130	EOP	DCW	@.EP@		3	3149			62
465	15	140	IMP	DCW	@.IM@		3	3152			62
466	15	150	GO	DCW	@)20@		3	3155			62
467	15	160	SEOP	DCW	@.SE@		3	3158			62
468	15	170	LBOP	DCW	@.LB@		3	3161			62
469	15	180	EQOP	DCW	@.EQ@		3	3164			62
470	15	190	LASTOP	DCW	#3		3	3167			62
471	15	200	SAVE	DCW	#3		3	3170			63
472	15	210	FADR	DCW	#3		3	3173			63
473	15	220	FREL	DC	@ @		1	3174			63
474	15	230		DC	#16		16	3190			63
475	15	240	PAR1	DCW	#3		3	3193			63
476	15	250	PAR2	DCW	#3		3	3196			63
477	16	010	FSE	DC	@ @		1	3197			63
478	16	020		DC	@...SE@		6	3203			63
479	16	030		DC	@|@		1	3204			63
480	16	040	FARSB	DC	@ @		1	3205			63
481	16	050		DC	#25		25	3230			64
482	16	060	FIMP	DC	@ @		1	3231			64
483	16	070		DC	#13		13	3244			64
484	16	080	FGO	DC	@ @		1	3245			65
485	16	090		DC	#10		10	3255			65
486	16	100	FLB	DC	@ @		1	3256			65
487	16	110		DC	#10		10	3266			65
488	16	120	F	DC	@]@		1	3267			65
489	16	130		DCW	@}@	GROUP MARK	1	3268			65
490	16	140		END	START				/ T00 080		66

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CLEAR STORAGE 1      ,008015,019026,030,034041,045,053,0570571026      1
CLEAR STORAGE 2      L068112,102106,113/101099/I99,027A070028)027B0010270B0261,001/001113I0      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	010	000	JOB	1401 COBOL - G06						
102	1	020		CTL	631 11						
103	1	030	X1	EQU	89			0089			
104	1	040	X2	EQU	94			0094			
105	1	050	X3	EQU	99			0099			
106	1	060	GETX	EQU	335			0335			
107	1	070	PUTX	EQU	363			0363			
108	1	080	SUPER	EQU	351			0351			
109	1	090		ORG	1300				1300		
110	1	100	START	MLC	@0000@,ADDSW	7		1300	M A00	A93	4
111	1	110		MLC	&F,TABADR	7		1307	M A03	B08	4
112	1	120		MLC	@N@,ASBSW1	7		1314	M A04	K52	4
113	1	130		MLC	@N@,ASBSW2	7		1321	M A04	K72	4
114	1	140	RTURN	B	INIT	4		1328	B T39		4
115	1	150	NTINT	B	PUTX	4		1332	B 363		4
116	1	160		DCW	SYM	3		1338	B17		4
117	1	170	INIT	B	GETX	4		1339	B 335		5
118	1	180		DCW	SYM	3		1345	B17		5
119	1	190		DCW	EOJ	3		1348	?72		5
120	1	200		C	SYM,LOC	7		1349	C B17	B50	5
121	1	210		BU	NTINT	5		1356	B T32	/	5
122	1	220		B	GETX	4		1361	B 335		5
123	1	230		DCW	SYMOP	3		1367	B20		5
124	1	240		DCW	EOJ	3		1370	?72		6
125	1	250		B	ARHTST	4		1371	B U95		6
126	2	010		DCW	ARINT	3		1377	U44		6
127	2	020	INIT2	B	GETX	4		1378	B 335		6
128	2	030		DCW	SYM	3		1384	B17		6
129	2	040		DCW	EOJSET	3		1387	?86		6
130	2	050		C	SYM,LOC	7		1388	C B17	B50	6
131	2	060		BE	INIT1	5		1395	B U11	S	7
132	2	070		MLC	&NTINT,RTURN&3	7		1400	M A07	T31	7
133	2	080		B	OPTM	4		1407	B 001		7
134	2	090	INIT1	B	GETX	4		1411	B 335		7
135	2	100		DCW	SYMOP	3		1417	B20		7
136	2	110		DCW	EOJSET	3		1420	?86		7
137	2	120		C	SYMOP,SASGN	7		1421	C B20	A68	7
138	2	130		BE	INIT3	5		1428	B U62	S	8
139	2	140		B	ARHTST	4		1433	B U95		8
140	2	150		DCW	INIT4	3		1439	U84		8
141	2	160		B	INIT2	4		1440	B T78		8
142	2	170	ARINT	B	PUTX	4		1444	B 363		8
143	2	180		DCW	SYM	3		1450	B17		8
144	2	190		B	PUTX	4		1451	B 363		8
145	2	200		DCW	SYMOP	3		1457	B20		9
146	2	210		B	INIT	4		1458	B T39		9
147	2	220	INIT3	MLC	&INIT,RTURN&3	7		1462	M A10	T31	9

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	2	230		MLC	&FASG ,FADR	7		1469	M A13 B02		9
149	2	240		B	ENTER	4		1476	B W16		9
150	2	250		B	ASGN	4		1480	B J49		9
151	3	010	INIT4	MLC	&ARINT ,RTURN&3	7		1484	M A16 T31		9
152	3	020		B	OPTM	4		1491	B O01		10
153	3	030	ARHTST	SBR	X3	4		1495	H 099		10
154	3	040		MLC	2&X3 ,AFLEXT&3	7		1499	M 0?2 V96		10
155	3	050		MLC	X3 ,SAVE	7		1506	M 099 B38		10
156	3	060		C	SYMOP ,SBOP	7		1513	C B20 B29		10
157	3	070		BU	ARHT01	5		1520	B V47 /		10
158	3	080		MLC	&FSUB ,FADR	7		1525	M A19 B02		11
159	3	090	ARHT03	B	ENTER	4		1532	B W16		11
160	3	100	ATREXT	MLC	SAVE ,X3	7		1536	M B38 099		11
161	3	110		B	3&X3	4		1543	B 0?3		11
162	3	120	ARHT01	C	SYMOP ,PLUS	7		1547	C B20 B26		11
163	3	130		BU	ARHT04	5		1554	B V85 /		11
164	3	140		BCE	ARHT02 ,ARSW ,1	8		1559	B V74 A92 1		12
165	3	150		MLC	@1@ ,ADDSW	7		1567	M A20 A93		12
166	3	160	ARHT02	MLC	&FARH ,FADR	7		1574	M A23 B02		12
167	3	170		B	ARHT03	4		1581	B V32		12
168	3	180	ARHT04	BCE	ARHT05 ,SYMOP-2 ,	8		1585	B V97 B18		12
169	3	190	AFLEXT	B	*	4		1593	B V96		12
170	3	200	ARHT05	BCE	AFLEXT ,SYMOP ,#	8		1597	B V93 B20 #		13
171	3	210		MLC	@10@ ,ADDSW	7		1605	M A25 A93		13
172	3	220		B	ARHT02	4		1612	B V74		13
173	3	230	ENTER	SBR	ENT01&3	4		1616	H X44		13
174	3	240		MLC	FADR ,X2	7		1620	M B02 094		13
175	3	250		MLC	SYMOP ,3&X2	7		1627	M B20 0!3		13
176	4	010	ENT02	B	GETX	4		1634	B 335		14
177	4	020		DCW	ENTSYM	3		1640	A80		14
178	4	030		DCW	EOJSET	3		1643	?86		14
179	4	040		C	ENTSYM ,MACSEP	7		1644	C A80 B53		14
180	4	050		BE	ENT03	5		1651	B W71 S		14
181	4	060		MLC	ENTSYM ,6&X2	7		1656	M A80 0!6		14
182	4	070		SBR	X2	4		1663	H 094		14
183	4	080		B	ENT02	4		1667	B W34		15
184	4	090	ENT03	MLC	@|@ ,4&X2	7		1671	M A26 0!4		15
185	4	100		C	FADR ,&FSUB	7		1678	C B02 A29		15
186	4	110		BU	ENT04	5		1685	B X01 /		15
187	4	120		C	@ @ ,0&X2	7		1690	C A32 0!0		15
188	4	130		SBR	SBAD	4		1697	H B05		15
189	4	140	ENT04	MLC	FADR ,X2	7		1701	M B02 094		16
190	4	150		MLC	TABADR ,X3	7		1708	M B08 099		16
191	4	160		SW	1&X3	4		1715	, 0?1		16
192	4	170		MCM	1&X2 ,1&X3	7		1719	P 0!1 0?1		16
193	4	180		SBR	X3	4		1726	H 099		16
194	4	190		C	@ @ ,0&X3	7		1730	C A34 0?0		16
195	4	200		SBR	TABADR	4		1737	H B08		17
196	4	210	ENT01	B	*	4		1741	B X44		17
197	4	220	OUTP	SBR	X3	4		1745	H 099		17

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
198	4	230		MLC	2&X3,X2		7	1749	M 0?2 094		17
199	4	240	OUTP6	C	@ @,0&X2		7	1756	C A32 0!0		17
200	4	250		SBR	X2		4	1763	H 094		17
201	5	010	OUTP5	BCE	OUTP4,5&X2,.		8	1767	B X79 0!5 .		17
202	5	020		B	OUTP3		4	1775	B Y80		18
203	5	030	OUTP4	C	6&X2,@...@		7	1779	C 0!6 A37		18
204	5	040		SAR	X2		4	1786	Q 094		18
205	5	050		BE	OUTP4		5	1790	B X79 S		18
206	5	060		B	OUTP6		4	1795	B X56		18
207	5	070	OUTP1	MLC	6&X2,OUTSYM		7	1799	M 0!6 B23		18
208	5	080		SAR	X2		4	1806	Q 094		18
209	5	090		C	OUTSYM,@***@		7	1810	C B23 A40		19
210	5	100		BE	OUTP2		5	1817	B Y41 S		19
211	5	110		C	OUTSYM,@...@		7	1822	C B23 A37		19
212	5	120		BE	OUTP2		5	1829	B Y41 S		19
213	5	130		B	PUTX		4	1834	B 363		19
214	5	140		DCW	OUTSYM		3	1840	B23		19
215	5	150	OUTP2	BCE	OUTEXT,4&X2,|		8	1841	B Z07 0!4 |		19
216	5	160		BWZ	OUTMC,4&X2,1		8	1849	V Y61 0!4 1		20
217	5	170		B	OUTP1		4	1857	B X99		20
218	5	180	OUTMC	CW	4&X2		4	1861	) 0!4		20
219	5	190		BCE	OUTP1,5&X2,.		8	1865	B X99 0!5 .		20
220	5	200		B	PUTX		4	1873	B 363		20
221	5	210		DCW	MACSEP		3	1879	B53		20
222	5	220	OUTP3	B	PUTX		4	1880	B 363		20
223	5	230		DCW	LOC		3	1886	B50		21
224	5	240		CW	4&X2		4	1887	) 0!4		21
225	5	250		C	6&X2,AUGP1		7	1891	C 0!6 A99		21
226	6	010		BE	OUTAUG		5	1898	B Z18 S		21
227	6	020		B	OUTP1		4	1903	B X99		21
228	6	030	OUTEXT	B	PUTX		4	1907	B 363		21
229	6	040		DCW	MACSEP		3	1913	B53		21
230	6	050		B	3&X3		4	1914	B 0?3		22
231	6	060	OUTAUG	B	PUTX		4	1918	B 363		22
232	6	070		DCW	AUGOP		3	1924	B35		22
233	6	080		B	PUTX		4	1925	B 363		22
234	6	090		DCW	OP		3	1931	B56		22
235	6	100		MLC	12&X2,OUTSYM		7	1932	M 0J2 B23		22
236	6	110		B	PUTX		4	1939	B 363		22
237	6	120		DCW	OUTSYM		3	1945	B23		23
238	6	130		MLC	18&X2,OUTSYM		7	1946	M 0J8 B23		23
239	6	140		B	PUTX		4	1953	B 363		23
240	6	150		DCW	OUTSYM		3	1959	B23		23
241	6	160		B	PUTX		4	1960	B 363		23
242	6	170		DCW	MACSEP		3	1966	B53		23
243	6	180		MLC	@***@,12&X2		7	1967	M A40 0J2		23
244	6	190		MLC	AUGOP,6&X2		7	1974	M B35 0!6		24
245	6	200		B	OUTP3		4	1981	B Y80		24
246	6	210	SUBCHK	SBR	SUBEXT&3		4	1985	H J48		24
247	6	220		SBR	X3		4	1989	H 099		24

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
248	6	230		C	@ @,0&X3		7	1993	C A34 0?0		24
249	6	240		C			1	2000	C		24
250	6	250		SBR	X3		4	2001	H 099		24
251	7	010		MLC	0&X3, SBPRAD		7	2005	M 0?0 B11		25
252	7	020		MLC	SBPRAD, SUB01&3		7	2012	M B11 !22		25
253	7	030	SUB01	MLC	*, PRSBNM		7	2019	M !25 B14		25
254	7	040		C	PRSBNM, AGSBNM		7	2026	C B14 A71		25
255	7	050		BE	SUBEXT		5	2033	B J45 S		25
256	7	060		MLC	X1, X3		7	2038	M 089 099		26
257	7	070	SUB02	C	0&X3		4	2045	C 0?0		26
258	7	080		SAR	X3		4	2049	Q 099		26
259	7	090		C	3&X3, SBOP		7	2053	C 0?3 B29		26
260	7	100		BU	SUB02		5	2060	B !45 /		26
261	7	110		C	25&X3		4	2065	C 0B5		26
262	7	120		SAR	X3		4	2069	Q 099		26
263	7	130		C	@ @,0&X3		7	2073	C A46 0?0		27
264	7	140		SBR	X3		4	2080	H 099		27
265	7	150		C	3&X3, PRSBNM		7	2084	C 0?3 B14		27
266	7	160		BE	SUB04		5	2091	B J08 S		27
267	7	170		C	0&X3		4	2096	C 0?0		27
268	7	180		SAR	X3		4	2100	Q 099		27
269	7	190		B	SUB02		4	2104	B !45		27
270	7	200	SUB04	C	0&X3, 0&X2		7	2108	C 0?0 0!0		28
271	7	210		BU	SUBEXT		5	2115	B J45 /		28
272	7	220		MLC	@. @, 6&X3		7	2120	M A47 0?6		28
273	7	230		MLC	6&X3		4	2127	M 0?6		28
274	7	240		MLC	SBPRAD, SUB03&6		7	2131	M B11 J44		28
275	7	250	SUB03	MLC	AGSBNM, *		7	2138	M A71 J44		28
276	8	010	SUBEXT	B	*		4	2145	B J48		29
277	8	020	ASGN	MLC	FASG&9, PAR1		7	2149	M C15 B41		29
278	8	030		MLC	FASG&12, PAR2		7	2156	M C18 B44		29
279	8	040		BWZ	OUTPUT, PAR2-1, 2		8	2163	V ?46 B43 2		29
280	8	050		BWZ	ASGNSB, PAR1, B		8	2171	V M73 B41 B		29
281	8	060	ASGN1	MLC	TABADR, X1		7	2179	M B08 089		30
282	8	070		MLC	@000@, RSNMCT		7	2186	M A50 A89		30
283	8	080	ASGN2	BCE	ASGEXT, 0&X1,]		8	2193	B L78 0|0]		30
284	8	090		C	0&X1		4	2201	C 0|0		30
285	8	100		SAR	X1		4	2205	Q 089		30
286	8	110		C	0&X1, PAR2		7	2209	C 0|0 B44		30
287	8	120		BU	ASGN2		5	2216	B J93 /		31
288	8	130	ASGN3	BCE	ASGEND, 0&X1,]		8	2221	B L53 0|0]		31
289	8	140		C	0&X1		4	2229	C 0|0		31
290	8	150		SAR	X1		4	2233	Q 089		31
291	8	160		BCE	ASGN3, 1&X1, .		8	2237	B K21 0|1 .		31
292	8	170		A	&1, RSNMCT		7	2245	A A51 A89		31
293	8	180	ASBSW1	BWZ	SUBCHK, 9&X1, B		8	2252	V Z85 0|9 B		32
294	8	190		C	9&X1, PAR1		7	2260	C 0|9 B41		32
295	8	200		BE	ASGN5		5	2267	B L12 S		32
296	8	210	ASBSW2	BWZ	SUBCHK, 12&X1, B		8	2272	V Z85 0/2 B		32
297	8	220		C	12&X1, PAR1		7	2280	C 0/2 B41		32

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
298	8	230		BU	ASGN3	5		2287	B K21 /		33
299	8	240		BCE	ASGN5, 3&X1, &	8		2292	B L12 0|3 &		33
300	8	250		C	3&X1, MPY	7		2300	C 0|3 A77		33
301	9	010		BU	ASGN6	5		2307	B L19 /		33
302	9	020	ASGN5	A	&1, RSNMCT	7		2312	A A51 A89		33
303	9	030	ASGN6	BCE	ASGXT2, ADSW1, 1	8		2319	B L64 A90 1		34
304	9	040		BCE	ASGEXT, ADDSW, 0	8		2327	B L78 A93 0		34
305	9	050		MLC	@1@, ADSW1	7		2335	M A20 A90		34
306	9	060		MLC	RSNMCT, SAVCNT	7		2342	M A89 A74		34
307	9	070		B	ASGN3	4		2349	B K21		34
308	9	080	ASGEND	A	&1, RSNMCT	7		2353	A A51 A89		35
309	9	090		B	ASGEXT	4		2360	B L78		35
310	9	100	ASGXT2	MLC	SAVCNT, RSNMCT	7		2364	M A74 A89		35
311	9	110		MLC	@0@, ADDSW	7		2371	M A52 A93		35
312	9	120	ASGEXT	MLC	@0@, ADSW1	7		2378	M A52 A90		35
313	9	130	ASGXT1	MLC	TABADR, X1	7		2385	M B08 089		35
314	9	140	ASGEX1	C	0&X1	4		2392	C 0|0		36
315	9	150		SAR	X1	4		2396	Q 089		36
316	9	160		C	RSNMCT, @001@	7		2400	C A89 A55		36
317	9	170		BE	OPTENT	5		2407	B 008 S		36
318	9	180		C	3&X1, SASGN	7		2412	C 0|3 A68		36
319	9	190		BU	ASGEX1	5		2419	B L92 /		36
320	9	200		MLC	MEOP, 3&X1	7		2424	M B59 0|3		36
321	9	210		MLC	@***@, 12&X1	7		2431	M A40 0/2		37
322	9	220	ASGEX2	C	0&X1, PAR2	7		2438	C 0|0 B44		37
323	9	230		BE	ASGEX3	5		2445	B M62 S		37
324	9	240		C	0&X1	4		2450	C 0|0		37
325	9	250		SAR	X1	4		2454	Q 089		37
326	10	010		B	ASGEX2	4		2458	B M38		37
327	10	020	ASGEX3	MLC	PAR1, 0&X1	7		2462	M B41 0|0		37
328	10	030		B	OPTENT	4		2469	B 008		38
329	10	040	ASGNSB	MLC	@1@, SUBSW	7		2473	M A20 A91		38
330	10	050		MLC	TABADR, X1	7		2480	M B08 089		38
331	10	060	ASGNS1	BCE	ASGN1, 0&X1,]	8		2487	B J79 0|0]		38
332	10	070		C	0&X1	4		2495	C 0|0		38
333	10	080		SAR	X1	4		2499	Q 089		38
334	10	090		C	3&X1, SBOP	7		2503	C 0|3 B29		39
335	10	100		BU	ASGNS1	5		2510	B M87 /		39
336	10	110		C	25&X1	4		2515	C 0S5		39
337	10	120		SAR	X1	4		2519	Q 089		39
338	10	130		C	@ @, 0&X1	7		2523	C A61 0|0		39
339	10	140		SBR	X1	4		2530	H 089		39
340	10	150		C	3&X1, PAR1	7		2534	C 0|3 B41		39
341	10	160		BE	ASGNS2	5		2541	B N58 S		40
342	10	170		C	0&X1	4		2546	C 0|0		40
343	10	180		SAR	X1	4		2550	Q 089		40
344	10	190		B	ASGNS1	4		2554	B M87		40
345	10	200	ASGNS2	MLC	@. @, 6&X1	7		2558	M A47 0|6		40
346	10	210		MLC	6&X1	4		2565	M 0|6		40
347	10	220		MLC	@V@, ASBSW1	7		2569	M A62 K52		40

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
348	10	230		MLC	@V@,ASBSW2	7		2576	M A62 K72		41
349	10	240		MLC	PAR1,AGSBNM	7		2583	M B41 A71		41
350	10	250		MLC	SBAD,X2	7		2590	M B05 094		41
351	11	010		B	ASGN1	4		2597	B J79		41
352	11	020	OPTM	MLC	TABADR,X1	7		2601	M B08 089		41
353	11	030	OPTENT	MLC	@000@,OPNMCT	7		2608	M A50 A83		41
354	11	040	OPTAGN	BCE	OUTPUT,0&X1,]	8		2615	B ?46 0|0]		42
355	11	050		C	0&X1	4		2623	C 0|0		42
356	11	060		SAR	X1	4		2627	Q 089		42
357	11	070		BCE	OPTAGN,1&X1,.	8		2631	B O15 0|1 .		42
358	11	080		A	&1,OPNMCT	7		2639	A A51 A83		42
359	11	090		MLC	15&X1,PAR3	7		2646	M 0/5 B47		42
360	11	100		MLC		1		2653	M		42
361	11	110		MLC		1		2654	M		43
362	11	120		C	3&X1,PLUS	7		2655	C 0|3 B26		43
363	11	130		BE	OPTADD	5		2662	B P24 S		43
364	11	140		C	3&X1,MNS	7		2667	C 0|3 A96		43
365	11	150		BU	OPTAGN	5		2674	B O15 /		43
366	11	160	OPTSUB	C	PAR1,PAR3	7		2679	C B41 B47		43
367	11	170		BE	SBTRTN	5		2686	B P06 S		43
368	11	180		BWZ	OPTAGN,PAR1-1,2	8		2691	V O15 B40 2		44
369	11	190		B	LKUP	4		2699	B R13		44
370	11	200		DCW	PAR1	3		2705	B41		44
371	11	210	SBTRTN	MLC	SUBOP,3&X1	7		2706	M B32 0|3		44
372	11	220	SBT01	MLC	@***@,9&X1	7		2713	M A40 0|9		44
373	11	230		B	OPTAGN	4		2720	B O15		44
374	11	240	OPTADD	BWZ	OPTAD1,PAR2-1,2	8		2724	V P52 B43 2		45
375	11	250		C	PAR1,PAR3	7		2732	C B41 B47		45
376	12	010		BE	OPTAD4	5		2739	B Q02 S		45
377	12	020		B	SWITCH	4		2744	B ?16		45
378	12	030		B	OPTAD3	4		2748	B P80		45
379	12	040	OPTAD1	BWZ	OPTAD2,PAR1-1,2	8		2752	V Q62 B40 2		45
380	12	050		C	PAR2,PAR3	7		2760	C B44 B47		46
381	12	060		BU	OPTAD3	5		2767	B P80 /		46
382	12	070		B	SWITCH	4		2772	B ?16		46
383	12	080		B	OPTAD4	4		2776	B Q02		46
384	12	090	OPTAD3	B	LKUP	4		2780	B R13		46
385	12	100		DCW	PAR1	3		2786	B41		46
386	12	110		MLC	PAR3,9&X1	7		2787	M B47 0|9		46
387	12	120		BWZ	OPTAD5,PAR2-1,2	8		2794	V Q39 B43 2		47
388	12	130	OPTAD4	BCE	AUGRTN,ADDSW,0	8		2802	B Q51 A93 0		47
389	12	140		B	LKUP	4		2810	B R13		47
390	12	150		DCW	PAR2	3		2816	B44		47
391	12	160	SQLMAC	MLC	@.,15&X1	7		2817	M A47 0/5		47
392	12	170		MLC	15&X1	4		2824	M 0/5		47
393	12	180		MLC	@1@,ADSW1	7		2828	M A20 A90		48
394	12	190		B	OPTAGN	4		2835	B O15		48
395	12	200	OPTAD5	C	PAR2,PAR3	7		2839	C B44 B47		48
396	12	210		BE	SQLMAC	5		2846	B Q17 S		48
397	12	220	AUGRTN	MLC	AUGOP,3&X1	7		2851	M B35 0|3		48

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
398	12	230		B	SBT01		4	2858	B P13		48
399	12	240	OPTAD2	C	PAR1, PAR3		7	2862	C B41 B47		49
400	12	250		BE	AUGRTN		5	2869	B Q51 S		49
401	13	010		C	PAR2, PAR3		7	2874	C B44 B47		49
402	13	020		BE	OPTAD6		5	2881	B R05 S		49
403	13	030		BCE	OPTAGN, ADSW1, 0		8	2886	B O15 A90 0		49
404	13	040		MLC	AUGP1, 3&X1		7	2894	M A99 0|3		49
405	13	050		B	OPTAGN		4	2901	B O15		50
406	13	060	OPTAD6	B	SWITCH		4	2905	B ?16		50
407	13	070		B	AUGRTN		4	2909	B Q51		50
408	13	080	LKUP	SBR	X3		4	2913	H 099		50
409	13	090		MLC	OPNMCT, LKNMCT		7	2917	M A83 A86		50
410	13	100		MLC	2&X3, LKPAR&6		7	2924	M 0?2 R75		50
411	13	110		MLC	X1, X2		7	2931	M 089 094		50
412	13	120	LK02	BCE	OPTAGN, 0&X2,]		8	2938	B O15 0|0]		51
413	13	130		C	0&X2		4	2946	C 0|0		51
414	13	140		SAR	X2		4	2950	Q 094		51
415	13	150		BCE	LK02, 1&X2, .		8	2954	B R38 0|1 .		51
416	13	160		A	&1, LKNMCT		7	2962	A A51 A86		51
417	13	170	LKPAR	C	15&X2, *		7	2969	C 0J5 R75		51
418	13	180		BU	LK02		5	2976	B R38 /		52
419	13	190		BWZ	LK03, PAR3-1, B		8	2981	V ?05 B46 B		52
420	13	200		C	RSNMCT, LKNMCT		7	2989	C A89 A86		52
421	13	210		BL	LK03		5	2996	B ?05 T		52
422	13	220		B	OPTAGN		4	3001	B O15		52
423	13	230	LK03	MLC	PAR3, 15&X2		7	3005	M B47 0J5		52
424	13	240		B	3&X3		4	3012	B 0?3		53
425	13	250	SWITCH	SBR	SWTCH1&3		4	3016	H ?45		53
426	14	010		MLC	PAR1, 12&X1		7	3020	M B41 0/2		53
427	14	020		MLC	PAR2, 9&X1		7	3027	M B44 0|9		53
428	14	030		MLC	12&X1, PAR2		7	3034	M 0/2 B44		53
429	14	040		MLC			1	3041	M		53
430	14	050	SWTCH1	B	*		4	3042	B ?45		53
431	14	060	OUTPUT	BCE	OUTT01, SUBSW, 0		8	3046	B ?61 A91 0		54
432	14	070		B	OUTP		4	3054	B X45		54
433	14	080		DCW	FSUB		3	3060	B80		54
434	14	090	OUTT01	B	OUTP		4	3061	B X45		54
435	14	100		DCW	F		3	3067	C20		54
436	14	110		B	START		4	3068	B T00		54
437	14	120	EOJ	B	PUTX		4	3072	B 363		54
438	14	130		DCW	EOP		3	3078	B62		55
439	14	140		B	SUPER		4	3079	B 351		55
440	14	150		DCW	@H01@		3	3085			55
441	14	160	EOJSET	MLC	&EOJ, RTURN&3		7	3086	M A65 T31		55
442	14	170		B	OUTPUT		4	3093	B ?46		55
443	14	180		LTORG					3097		
				DCW	@0000@		4	3100		LIT	55
		111			&F		3	3103	C20	ADCON	55
					@N@		1	3104		LIT	56
		132			&NTINT		3	3107	T32	ADCON	56

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
		147			&INIT		3	3110	T39	ADCON	56
		148			&FASG		3	3113	C06	ADCON	56
		151			&ARINT		3	3116	U44	ADCON	56
		158			&FSUB		3	3119	B80	ADCON	56
					@1@		1	3120		LIT	56
		166			&FARH		3	3123	B63	ADCON	57
					@10@		2	3125		LIT	57
					@|@		1	3126		LIT	57
		185			&FSUB		3	3129	B80	ADCON	57
					@ @		3	3132		LIT	57
					@ @		2	3134		LIT	57
					@...@		3	3137		LIT	57
					@***@		3	3140		LIT	58
		263			@ @		6	3146		LIT	58
					@.@		1	3147		LIT	58
					@000@		3	3150		LIT	58
					&1		1	3151		LIT	58
					@0@		1	3152		LIT	58
					@001@		3	3155		LIT	58
		338			@ @		6	3161		LIT	59
					@V@		1	3162		LIT	59
		441			&EOJ		3	3165	?72	ADCON	59
444	14	190	SASGN	DCW	@*16@		3	3168			59
445	14	200	AGSBNM	DCW	#3		3	3171			59
446	14	210	SAVCNT	DCW	#3		3	3174			59
447	14	220	MPY	DCW	@ *@		3	3177			59
448	14	230	ENTSYM	DCW	#3		3	3180			60
449	14	240	OPNMCT	DCW	#3		3	3183			60
450	14	250	LKNMCT	DCW	#3		3	3186			60
451	15	010	RSNMCT	DCW	@999@		3	3189			60
452	15	020	ADSW1	DC	@0@		1	3190			60
453	15	030	SUBSW	DC	@0@		1	3191			60
454	15	040	ARSW	DC	@0@		1	3192			60
455	15	050	ADDSW	DC	@0@		1	3193			60
456	15	060	MNS	DCW	@ -@		3	3196			60
457	15	070	AUGP1	DCW	@ &&@		3	3199			60
458	15	080	FADR	DCW	#3		3	3202			60
459	15	090	SBAD	DCW	#3		3	3205			61
460	15	100	TABADR	DCW	F		3	3208	C20		61
461	15	110	SBPRAD	DCW	#3		3	3211			61
462	15	120	PRSBNM	DCW	#3		3	3214			61
463	15	130	SYM	DCW	#3		3	3217			61
464	15	140	SYMOP	DCW	#3		3	3220			61
465	15	150	OUTSYM	DCW	#3		3	3223			61
466	15	160	PLUS	DCW	@ &@		3	3226			62
467	15	170	SBOP	DCW	@.SB@		3	3229			62
468	15	180	SUBOP	DCW	@)97@		3	3232			62
469	15	190	AUGOP	DCW	@)98@		3	3235			62
470	15	200	SAVE	DCW	#3		3	3238			62
471	15	210	PAR1	DCW	#3		3	3241			62

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
472	15	220	PAR2	DCW	#3		3	3244			62
473	15	230	PAR3	DCW	#3		3	3247			63
474	15	240	LOC	DCW	@.LC@		3	3250			63
475	15	250	MACSEP	DCW	@.MC@		3	3253			63
476	16	010	OP	DCW	@.OP@		3	3256			63
477	16	020	MEOP	DCW	@.ME@		3	3259			63
478	16	030	EOP	DCW	@.EP@		3	3262			63
479	16	040	FARH	DC	@ @		1	3263			63
480	16	050		DCW	#16		16	3279			63
481	16	060	FSUB	DC	@ @		1	3280			64
482	16	070		DCW	#25		25	3305			64
483	16	080	FASG	DC	@ @		1	3306			64
484	16	090		DCW	#13		13	3319			65
485	16	100	F	DC	@]@		1	3320			65
486	16	110		DCW	@}@		1	3321			65
487	16	120		END	INIT				/ T39 080		66

CLEAR STORAGE 1 ,008015,019026,030,034041,045,053,0570571026 1
 CLEAR STORAGE 2 L068112,102106,113/101099/I99,027A070028)027B0010270B0261,001/001113I0 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	010	000	JOB	1401 COBOL - H01						
102	1	020		CTL	631 11						
103	1	030		ORG	1300				1300		
104	1	040	X1	EQU	89			0089			
105	1	050	X2	EQU	94			0094			
106	1	060	X3	EQU	99			0099			
107	1	070	GETX	EQU	335			0335			
108	1	080	SUPER	EQU	351			0351			
109	1	090	PUTX	EQU	363			0363			
110	1	100	IORW	EQU	343			0343			
111	1	110		RWD	4	5		1300	U %U4	R	4
112	1	120	START	B	GETSYM	4		1305	B K79		4
113	1	130		DCW	SX	3		1311	W34		4
114	1	140			EOTP	3		1314	U61		4
115	1	150		C	SX,VDS	7		1315	C W34	W37	4
116	1	160		BE	START1	5		1322	B T39	S	4
117	1	170		C	SX,VTE	7		1327	C W34	W40	4
118	1	180		BU	START	5		1334	B T05	/	5
119	1	190	START1	MLC	SX,TEST	7		1339	M W34	W43	5
120	1	200		MLC	VTE,SX	7		1346	M W40	W34	5
121	1	210		B	PUTSX	4		1353	B P29		5
122	1	220		B	GETSYM	4		1357	B K79		5
123	1	230		DCW	NAME	3		1363	W46		5
124	1	240			EOTP	3		1366	U61		5
125	1	250		B	PUTX	4		1367	B 363		6
126	2	010		DCW	NAME	3		1373	W46		6
127	2	020		B	GETSYM	4		1374	B K79		6
128	2	030		DCW	SIZE1	3		1380	W49		6
129	2	040			EOTP	3		1383	U61		6
130	2	050		B	PUTX	4		1384	B 363		6
131	2	060		DCW	SIZE1	3		1390	W49		6
132	2	070		B	GETSYM	4		1391	B K79		7
133	2	080		DCW	SIZE2	3		1397	W52		7
134	2	090			EOTP	3		1400	U61		7
135	2	100		B	PUTX	4		1401	B 363		7
136	2	110		DCW	SIZE2	3		1407	W52		7
137	2	120	START2	B	GETSYM	4		1408	B K79		7
138	2	130		DCW	SX	3		1414	W34		7
139	2	140			EOTP	3		1417	U61		8
140	2	150		C	SX,VSBSC	7		1418	C W34	W55	8
141	2	160		BE	SBSC	5		1425	B W75	S	8
142	2	170		C	SX,TEST	7		1430	C W34	W43	8
143	2	180		BE	START3	5		1437	B U50	S	8
144	2	190		B	PUTSX	4		1442	B P29		8
145	2	200		B	START2	4		1446	B U08		8
146	2	210	START3	B	PUTX	4		1450	B 363		9
147	2	220		DCW	VTE	3		1456	W40		9

DATA-DESCRIPTION FROM TAPE 4

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	2	230		B	START		4	1457	B T05		9
149	2	240	EOTP	B	GETSX		4	1461	B P11		9
150	2	250		C	SX,VPROC		7	1465	C W34 W58		9
151	3	010		BU	EOTP		5	1472	B U61 /		9
152	3	020		MLC	SLTBL,NEXTSL	INITIALIZE SL-TABLE	7	1477	M W61 W64		9
153	3	030	EOTP1	C	SX,VDC		7	1484	C W34 W67		10
154	3	040		BE	EOTP1A		5	1491	B V08 S		10
155	3	050		C	SX,VNOTE		7	1496	C W34 W70		10
156	3	060		BU	EOTP1B		5	1503	B V39 /		10
157	3	070	EOTP1A	MLC	SX,TEST		7	1508	M W34 W43		10
158	3	080	EOTPA	B	PUTSX		4	1515	B P29		10
159	3	090		B	GETSX		4	1519	B P11		10
160	3	100		C	SX,TEST		7	1523	C W34 W43		11
161	3	110		BU	EOTPA		5	1530	B V15 /		11
162	3	120		B	EOTP3		4	1535	B V97		11
163	3	130	EOTP1B	BCE	EOTP3,SBSMOD,0		8	1539	B V97 W71 0		11
164	3	140		C	SX,VSE		7	1547	C W34 W74		11
165	3	150		BU	EOTP2		5	1554	B V77 /		11
166	3	160		MLC	@0@,SBSMOD	TURN SUBSCRIPT MODE OFF	7	1559	M P44 W71		12
167	3	170		MLC	SLTBL,NEXTSL	REINITIALIZE SL TABLE	7	1566	M W61 W64		12
168	3	180		B	EOTP3		4	1573	B V97		12
169	3	190	EOTP2	C	SX-2,@A@		7	1577	C W32 P45		12
170	3	200		BH	EOTP3		5	1584	B V97 U		12
171	3	210	EOTP2A	BWZ	GTSLNM,SX,B	YES, SL	8	1589	V Z67 W34 B		12
172	3	220	EOTP3	B	PUTSX		4	1597	B P29		13
173	3	230	EOTP4	B	GETSX		4	1601	B P11		13
174	3	240		C	SX,VSBSC		7	1605	C W34 W55		13
175	3	250		BE	SBSMAC		5	1612	B X95 S		13
176	4	010		B	EOTP1		4	1617	B U84		13
177	4	020	EOJ	B	PUTSX		4	1621	B P29		13
178	4	030		B	SUPER		4	1625	B 351		13
179	4	040		DCW	@H02@		3	1631			14
180	4	050	SX	DCW	#3		3	1634			14
181	4	060	VDS		@.DS@		3	1637			14
182	4	070	VTE		@.TE@		3	1640			14
183	4	080	TEST		#3		3	1643			14
184	4	090	NAME		#3		3	1646			14
185	4	100	SIZE1		#3		3	1649			14
186	4	110	SIZE2		#3		3	1652			15
187	4	120	VSBS		@.SB@		3	1655			15
188	4	130	VPROC		@*01@		3	1658			15
189	4	140	SLTBL		#3		3	1661			15
190	4	150	NEXTSL		#3		3	1664			15
191	4	160	VDC		@#DC@		3	1667			15
192	4	170	VNOTE		@*24@		3	1670			15
193	4	180	SBSMOD		@0@		1	1671			16
194	4	190	VSE		@.SE@		3	1674			16
195	4	200	SBSC	MLC	NAMARG,X2		7	1675	M X91 094		16
196	4	210		SW	1&X2		4	1682	, 0!1		16
197	4	220	SBS01	B	GETSYM	BUILD NAME-TABLE	4	1686	B K79		16

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
198	4	230		DCW	SX		3	1692	W34		16
199	4	240			EOTP		3	1695	U61		16
200	4	250		A	&3,X2		7	1696	A P46	094	17
201	5	010		C	SX,VSBSC		7	1703	C W34	W55	17
202	5	020		BE	SBSFIN		5	1710	B X26	S	17
203	5	030		MLC	SX,0&X2	ENTER RELATED-NAMES	7	1715	M W34	0!0	17
204	5	040		B	SBS01		4	1722	B W86		17
205	5	050	SBSFIN	MLC	NAME,0&X2	ENTER DATA-NAME	7	1726	M W46	0!0	17
206	5	060		MLC	X2,NAMARG	UPDATE NAME-TABLE ARGUMENT	7	1733	M 094	X91	18
207	5	070		MLC	SIZEND,X3	BUILD SIZE-TABLE	7	1740	M X94	099	18
208	5	080		MLC	NAME,0&X3	ENTER NAME	7	1747	M W46	0?0	18
209	5	090		MLC	SIZE1	SIZE1	4	1754	M W49		18
210	5	100		MLC	SIZE2	SIZE2	4	1758	M W52		18
211	5	110		SBR	SIZEND	UPDATE E-O-SIZE-TABLE POINTER	4	1762	H X94		18
212	5	120		SBR	X3		4	1766	H 099		18
213	5	130		SW	1&X3		4	1770	, 0?1		19
214	5	140		MLC	@|@,0&X3	SIZE-TABLE STOPPER	7	1774	M P47	0?0	19
215	5	150		SBR	SLTBL	UPDATE FUTURE ARGUMENT FOR	4	1781	H W61		19
216	5	160		B	START2	SL-TABLE	4	1785	B U08		19
217	5	170	NAMARG	DCW	GM-1		3	1791	P81		19
218	5	180	SIZEND		@G98@		3	1794			19
219	5	190	SBSMAC	B	PUTSX	.SB	4	1795	B P29		19
220	5	200		B	GETSX		4	1799	B P11		20
221	5	210		B	PUTSX	.LC	4	1803	B P29		20
222	5	220		B	GETX		4	1807	B 335		20
223	5	230		DCW	NAME		3	1813	W46		20
224	5	240			EOJ		3	1816	W21		20
225	5	250		B	PUTX		4	1817	B 363		20
226	6	010		DCW	NAME	NAME	3	1823	W46		20
227	6	020		B	PUTSZS	SIZES	4	1824	B !28		21
228	6	030	SBSM01	B	GETSX		4	1828	B P11		21
229	6	040		B	PUTSX		4	1832	B P29		21
230	6	050		BWZ	SBSM02,SX,B	BRANCH WHEN SL	8	1836	V Y55	W34 B	21
231	6	060		B	PUTX		4	1844	B 363		21
232	6	070		DCW	VSD		3	1850	K25		21
233	6	080		B	SBSM01		4	1851	B Y28		21
234	6	090	SBSM02	MLC	NEXTSL,X2	BUILD SL-TABLE	7	1855	M W64	094	22
235	6	100		MLCWA	SX,0&X2	SL	7	1862	L W34	0!0	22
236	6	110		MLCWA	NAME	DATA-NAME	4	1869	L W46		22
237	6	120		MLCWA	@|@	STOPPER	4	1873	L P47		22
238	6	130		SBR	X2		4	1877	H 094		22
239	6	140		SBR	NEXTSL,1&X2	UPDATE POINTER	7	1881	H W64	0!1	22
240	6	150		MLC	@1@,SBSMOD	TURN SUBSCRIPT-MODE ON	7	1888	M P48	W71	23
241	6	160		B	GETSX		4	1895	B P11		23
242	6	170		B	GETSX		4	1899	B P11		23
243	6	180		B	PUTSX		4	1903	B P29		23
244	6	190	NMERSW	B	EOTP4		4	1907	B W01		23
245	6	200		MLC	@B@,NMERSW		7	1911	M P49	Z07	23
246	6	210		MLC	&MSG,NMERPT		7	1918	M P52	Z31	23
247	6	220	NMER01	B	PUTX		4	1925	B 363		24

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
248	6	230	NMERPT	DCW	*		3	1931	Z31		24
249	6	240		A	&3,NMERPT		7	1932	A P46 Z31		24
250	6	250		C	NMERPT,&MSGMX		7	1939	C Z31 P55		24
251	7	010		BU	NMER01		5	1946	B Z25 /		24
252	7	020		B	EOTP4		4	1951	B W01		24
253	7	030	MSG	DCW	@#DC@		3	1957			24
254	7	040	MSGEND	DC	@***H0A#DC@		9	1966			25
255	7	050	MSGMX	EQU	MSGEND&3			1969			
256	7	060	GTSLNM	MLC	SLTBL,X3		7	1967	M W61 099		25
257	7	070	GTSL01	BCE	SLNFD,0&X3,|		8	1974	B K26 0?0 |		25
258	7	080		C	0&X3,SX		7	1982	C 0?0 W34		25
259	7	090		SAR	X3		4	1989	Q 099		25
260	7	100		BE	SLFND		5	1993	B !13 S		26
261	7	110		MLC	0&X3,0&X3		7	1998	M 0?0 0?0		26
262	7	120		SBR	X3		4	2005	H 099		26
263	7	130		B	GTSL01		4	2009	B Z74		26
264	7	140	SLFND	B	PUTSX	SL	4	2013	B P29		26
265	7	150		MLC	0&X3,SX		7	2017	M 0?0 W34		26
266	7	160		B	EOTP3		4	2024	B V97		26
267	7	170	PUTSZS	MLC	NAMARG,X2		7	2028	M X91 094		27
268	7	180	PTSZ01	BCE	NAMNFD,0&X2,|	FIND NAME	8	2035	B J65 0!0 |		27
269	7	190		C	0&X2,NAME		7	2043	C 0!0 W46		27
270	7	200		SAR	X2		4	2050	Q 094		27
271	7	210		BE	NAMFND		5	2054	B !74 S		27
272	7	220		MLC	0&X2,0&X2		7	2059	M 0!0 0!0		27
273	7	230		SBR	X2		4	2066	H 094		28
274	7	240		B	PTSZ01		4	2070	B !35		28
275	7	250	NAMFND	BW	SIZFIN,1&X2		8	2074	V J87 0!1 1		28
276	8	010		MLC	0&X2,SIZNAM	CURRENT-RELATED-NAME	7	2082	M 0!0 K75		28
277	8	020		SAR	X2		4	2089	Q 094		28
278	8	030	SIZ00	MLC	SIZARG,X3		7	2093	M K78 099		28
279	8	040	SIZ01	BCE	SIZNFD,0&X3,|	FIND SIZES	8	2100	B K26 0?0 |		29
280	8	050		C	0&X3,SIZNAM		7	2108	C 0?0 K75		29
281	8	060		SAR	X3		4	2115	Q 099		29
282	8	070		BE	SIZFND		5	2119	B J35 S		29
283	8	080		MLC	0&X3,0&X3		7	2124	M 0?0 0?0		29
284	8	090		B	SIZ01		4	2131	B J00		29
285	8	100	SIZFND	MLC	0&X3,SX		7	2135	M 0?0 W34		30
286	8	110		SAR	X3		4	2142	Q 099		30
287	8	120		B	PUTSX	SIZE1	4	2146	B P29		30
288	8	130		MLC	0&X3,SX		7	2150	M 0?0 W34		30
289	8	140	SIZ02	B	PUTSX	SIZE2	4	2157	B P29		30
290	8	150	SWITCH	B	NAMFND		4	2161	B !74		30
291	8	160	NAMNFD	MLC	@000@,SX		7	2165	M P58 W34		30
292	8	170		B	PUTSX		4	2172	B P29		31
293	8	180		B	PUTSX		4	2176	B P29		31
294	8	190		MLC	@N@,NMERSW		7	2180	M P59 Z07		31
295	8	200	SIZFIN	B	PUTX		4	2187	B 363		31
296	8	210		DCW	VSD		3	2193	K25		31
297	8	220		MLC	&LBL,SWITCH&3		7	2194	M P62 J64		31

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
298	8	230		MLC	NAME, SIZNAM		7	2201	M W46 K75		31
299	8	240		B	SIZ00		4	2208	B !93		32
300	8	250	LBL	MLC	&NAMFND, SWITCH&3		7	2212	M P65 J64		32
301	9	010		B	SBSM01		4	2219	B Y28		32
302	9	020	VSD	DCW	\$.SD@		3	2225			32
303	9	030	SLNFD	CC	1		2	2226	F 1		32
304	9	040		CS	332		4	2228	/ 332		32
305	9	050		CS			1	2232	/		32
306	9	060		MLC	MSGG, 260		7	2233	M K72 260		33
307	9	070		W			1	2240	2		33
308	9	080		CC	1		2	2241	F 1		33
309	9	090		B	359		4	2243	B 359		33
310	9	100	MSGG	DCW	@SYSTEM FAILURE- PHASE H01.@		26	2272			34
311	9	110	SIZNFD	EQU	SLNFD			2226			
312	9	120	SIZNAM	DCW	#3		3	2275			34
313	9	130	SIZARG		@G98@		3	2278			34
314	9	140	GETSYM	SBR	X1		4	2279	H 089		34
315	9	150	GETT1	SBR	GET3&3, 6&X1		7	2283	H L60 0|6		35
316	9	160		MLC	2&X1, GET2&6		7	2290	M 0|2 L44		35
317	9	170		MLC	5&X1, GET7&3		7	2297	M 0|5 M06		35
318	9	180		C	GET1&3, &CMAX		7	2304	C L34 P68		35
319	9	190		BE	GET4		5	2311	B L61 S		35
320	9	200		MA	@003@, GET1&3					MACRO	
321				SW	GET1&3-2		4	2316	, L32	GEN	35
322				A	@003@, GET1&3		7	2320	A P71 L34	GEN	36
323				CW	GET1&3-2		4	2327	) L32	GEN	36
324	9	210	GET1	MLC	CMAX, C1		7	2331	M P09 M09		36
325	9	220	GET2	MLC	C1, *		7	2338	M M09 L44		36
326	9	230		C	C1, @.EB@		7	2345	C M09 P74		36
327	9	240		BE	GET4		5	2352	B L61 S		36
328	9	250	GET3	B	0		4	2357	B 000		37
329	10	010	GET4	SW	GETGM		4	2361	, P10		37
330	10	020		B	IORW		4	2365	B 343		37
331	10	030		RT	4, CIN1		8	2369	M %U4 M10 R		37
332	10	040		DCW	GET5		3	2379	L91		37
333	10	050		MLC	&CIN2, GET1&3		7	2380	M P77 L34		37
334	10	060		B	GET1		4	2387	B L31		37
335	10	070	GET5	RWD	4		5	2391	U %U4 R		38
336	10	080	GET6	MLC	&CMAX, GET1&3		7	2396	M P80 L34		38
337	10	090	GET7	B	0		4	2403	B 000		38
338	10	100	C1	DCW	#3		3	2409			38
339	10	110	CIN1	DA	1X300			2410	2709		38
340	10	120	CIN2		1, 3			2412		FIELD	38
341	10	130	CMAX		300			2709		SBFLD	
342	10	140	GETGM	DC	@}@		1	2710			39
343	10	150	GETSX	SBR	GTSEX&3	GETSX	4	2711	H P28		39
344	10	160		B	GETX		4	2715	B 335		39
345	10	170		DCW	&SX		3	2721	W34		39
346	10	180			&EOJ		3	2724	W21		39
347	10	190	GTSEX	B	*		4	2725	B P28		40

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
348	10	200	PUTSX	SBR	PTSEX&3		4	2729	H P43		40
349	10	210		B	PUTX		4	2733	B 363		40
350	10	220		DCW	&SX		3	2739	W34		40
351	10	230	PTSEX	B	*		4	2740	B P43		40
352	10	240		LTORG					2744		
				DCW	@0@		1	2744		LIT	40
					@A@		1	2745		LIT	40
					&3		1	2746		LIT	41
					@|@		1	2747		LIT	41
					@1@		1	2748		LIT	41
					@B@		1	2749		LIT	41
		246			&MSG		3	2752	Z57	ADCON	41
		250			&MSGMX		3	2755	Z69	ADCON	41
					@000@		3	2758		LIT	41
					@N@		1	2759		LIT	42
		297			&LBL		3	2762	K12	ADCON	42
		300			&NAMFND		3	2765	!74	ADCON	42
		318			&CMAX		3	2768	P09	ADCON	42
					@003@		3	2771		LIT	42
					@.EB@		3	2774		LIT	42
		333			&CIN2		3	2777	M12	ADCON	42
		336			&CMAX		3	2780	P09	ADCON	43
353	10	250		DCW	@ @		1	2781			43
354	11	010	GM		@}@		1	2782			43
355	11	020		END	START				/ T05 080		44

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CLEAR STORAGE 1      ,008015,019026,030,034041,045,053,0570571026      1
CLEAR STORAGE 2      L068112,102106,113/101099/I99,027A070028)027B0010270B0261,001/001113I0      2
BOOTSTRAP            ,008015,022029,036040,047054,061068,072/061039      ,0010011040      3

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1401 COBOL - H02 PAGE 1

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
101	1	010	000	JOB	1401 COBOL - H02						
102	1	020		CTL	631 11						
103	1	030		ORG	1300				1300		
104	1	040	SCRBKT	EQU	1126			1126			
105	1	050	X1	EQU	89			0089			
106	1	060	X2	EQU	94			0094			
107	1	070	X3	EQU	99			0099			
108	1	080	PUTX	EQU	363			0363			
109	1	090	GETX	EQU	335			0335			
110	1	100	SUPER	EQU	351			0351			
111	1	110	IORW	EQU	343			0343			
112	1	120	NEXTTE	DCW	#3		3	1302			4
113	1	130	SX	DCW	#3		3	1305			4
114	1	140	ITSW	DCW	@0@		1	1306			4
115	1	150	VTE	DCW	@.TE@		3	1309			4
116	1	160	TBARG	DCW	FGCON		3	1312	J80		4
117	1	170	VITOP	DCW	@.IT@		3	1315			4
118	1	180	FIRST	DCW	@1@		1	1316			4
119	1	190	VPROC	DCW	@*01@		3	1319			5
120	1	200	T2MAX	DCW	#3		3	1322			5
121	1	210	GETPHS	B	IORW		4	1323	B 343		5
122	1	220		RT	1, START		8	1327	M %U1 T57 R		5
123	1	230		DCW	*&1		3	1337	T38		5
124	1	240		CW	START&20		4	1338	) T77		5
125	1	250		B	IORW		4	1342	B 343		5
126	2	010		RTW	1, START		8	1346	L %U1 T57 R		6
127	2	020		DCW	*&1		3	1356	T57		6
128	2	030	GTPHGM	DCW	@}@		1	1357			6
129	2	040		ORG	GTPHGM				1357		

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
130	1	010		JOB	1401 COBOL - H03						
131	2	060	START	EQU	GTPHGM			1357			
132	2	070		BCE	STRT1,ITSW,0	8		1357	B T90 T06	0	7
133	2	080		MLC	@0@,ITSW	7		1365	M V15 T06		7
134	2	090		MLC	@0@,FIRST	7		1372	M V15 T16		7
135	2	100		MLC	FRTARG,TBARG	7		1379	M V02 T12		7
136	2	110		B	STRT2	4		1386	B U62		7
137	2	120	STRT1	BCE	STRT2,FIRST,0	8		1390	B U62 T16	0	8
138	2	130		BCE	STRT1A,SCRBKT,6	8		1398	B U33 /26	6	8
139	2	140		BCE	STRT1B,SCRBKT,2	8		1406	B U44 /26	2	8
140	2	150		BCE	STRT1C,SCRBKT,8	8		1414	B U55 /26	8	8
141	2	160		MLC	MAX4,T2MAX	7		1422	M V05 T22		8
142	2	170		B	STRT2	4		1429	B U62		9
143	2	180	STRT1A	MLC	MAX6,T2MAX	7		1433	M V14 T22		9
144	2	190		B	STRT2	4		1440	B U62		9
145	2	200	STRT1B	MLC	MAX2,T2MAX	7		1444	M V11 T22		9
146	2	210		B	STRT2	4		1451	B U62		9
147	2	220	STRT1C	MLC	MAX8,T2MAX	7		1455	M V08 T22		9
148	2	230	STRT2	MLC	T2MAX,NEXTTE	7		1462	M T22 T02		10
149	2	240		MLC	T2MAX,CLEAR&3	7		1469	M T22 U83		10
150	2	250		SW	GM&100	4		1476	, W16		10
151	3	010	CLEAR	CS	*	4		1480	/ U83		10
152	3	020		SBR	CLEAR&3	4		1484	H U83		10
153	3	030		BW	CLEAR,GM&100	8		1488	V U80 W16	1	10
154	3	040		B	GETPHS	4		1496	B T23		10
155	3	050	FRTARG	DCW	FGCON	3		1502	J80		11
156	3	060	MAX4	DCW	@G98@	3		1505			11
157	3	070	MAX8	DCW	@F3W@	3		1508			11
158	3	080	MAX2	DCW	@C9O@	3		1511			11
159	3	090	MAX6	DCW	@C9F@	3		1514			11
160	3	100		LTORG					1515		
				DCW	@0@	1		1515		LIT	11
161	3	110	GM	DCW	@}@	1		1516			11

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
162	1	010		JOB	1401 COBOL - H04						
163	3	130		ORG	START				1357		
164	3	140	STRT4	B	GETX						
165	3	150		DCW	SX	4		1357	B 335		12
166	3	160		DCW	*-2	3		1363	T05		12
167	3	170		C	SX,VPROC	3		1366	T64		12
168	3	180		BE	GETPHS	7		1367	C T05 T19		12
169	3	190		C	SX,VTE	5		1374	B T23 S		12
170	3	200		BU	STRT6	7		1379	C T05 T09		12
171	3	210		B	BLDTBL	5		1386	B U43 /		12
172	3	220	STRT4A	BCE	STRT4,ITSW,0	4		1391	B U74		13
173	3	230		B	PUTX	8		1395	B T57 T06 0		13
174	3	240		DCW	VITOP	4		1403	B 363		13
175	3	250	STRT5	B	PUTX	3		1409	T15		13
176	4	010		DCW	SX	4		1410	B 363		13
177	4	020		B	GETX	3		1416	T05		13
178	4	030		DCW	SX	4		1417	B 335		13
179	4	040		DCW	*-2	3		1423	T05		14
180	4	050		C	SX,VPROC	3		1426	U24		14
181	4	060		BE	GETPHS	7		1427	C T05 T19		14
182	4	070		B	STRT5	5		1434	B T23 S		14
183	4	080	STRT6	BCE	STRT6A,FIRST,1	4		1439	B U10		14
184	4	090		C	SX,VITOP	8		1443	B U63 T16 1		14
185	4	100		BE	STRT4	7		1451	C T05 T15		14
186	4	110	STRT6A	B	PUTX	5		1458	B T57 S		15
187	4	120		DCW	SX	4		1463	B 363		15
188	4	130		B	STRT4	3		1469	T05		15
189	4	140	BLDTBL	MLC	NEXTTE,X3	4		1470	B T57		15
190	4	150		C	0&X3,SAFEFD	7		1474	M T02 099		15
191	4	160		BU	BTOV	7		1481	C 0?0 W88		15
192	4	170		MLC	TBARG,X2	5		1488	B V78 /		15
193	4	180		B	GETX	7		1493	M T12 094		16
194	4	190		DCW	SX	4		1500	B 335		16
195	4	200		DCW	*-2	3		1506	T05		16
196	4	210		MLNS	7&X2,7&X2	3		1509	V07		16
197	4	220		SBR	TBARG	7		1510	D 0!7 0!7		16
198	4	230		MLCWA	SX	4		1517	H T12		16
199	4	240		MLCWA		4		1521	L T05		16
200	4	250	BT01	B	GETX	1		1525	L		17
201	5	010		DCW	SX	4		1526	B 335		17
202	5	020		DCW	*-2	3		1532	T05		17
203	5	030		C	SX,VTE	3		1535	V33		17
204	5	040		BE	BTFIN	7		1536	C T05 T09		17
205	5	050		MLCWA	SX,0&X3	5		1543	B V63 S		17
206	5	060		SBR	X3	7		1548	L T05 0?0		17
207	5	070		B	BT01	4		1555	H 099		18
208	5	080	BTFIN	MLCWA	@|@,0&X3	4		1559	B V26		18
209	5	090		SBR	NEXTTE	7		1563	L W89 0?0		18
210	5	100		B	STRT4A	4		1570	H T02		18
211	5	110	BTOV	MLC	@1@,ITSW	4		1574	B T95		18
						7		1578	M W90 T06		18

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
212	5	120		B	STRT4A		4	1585	B T95		18
213	5	130		DCW	#50		50	1638			20
214	5	140	SAFEFD	DC	#50		50	1688			22
215	5	150		LTORG					1689		
				DCW	@|@		1	1689		LIT	22
					@1@		1	1690		LIT	22
216	5	160		ORG	2150				2150		
					ADDR MUST BE TO RIGHT OF H05 GM						
217	5	170		DCW	@\$@		1	2150			23
218	5	180		DCW	TALLY		3	2153	!85		23
219	5	190		DCW	@A05@		3	2156			23
220	5	200		DCW	FGCONA		3	2159	J10		23
221	5	210		DCW	@A01@		3	2162			23
222	5	220		DCW	FGCONA		3	2165	J10		23
223	5	230		DCW	@A02@		3	2168			23
224	5	240		DCW	FGCONA		3	2171	J10		24
225	5	250		DCW	@A09@		3	2174			24
226	6	010		DCW	FGCONN		3	2177	J35		24
227	6	020	FGCON	DCW	@A08@		3	2180			24
228	6	030		DCW	@}@		1	2181			24

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
229	1	010		JOB	1401 COBOL - H05						
230	6	050		ORG	START				1357		
231	6	060		MLCWA	T2MAX,FGCON&3						
232	6	070		BCE	PROCD,ITSW,0	7		1357	L T22 J83		25
233	6	080		B	PUTSX	8		1364	B T76 T06 0		25
234	6	090	PROCD	BCE	PROCD1,FIRST,1	4		1372	B Z78		25
235	6	100		B	GTPTIL	8		1376	B U22 T16 1		25
236	6	110		DCW	VNTFND	4		1384	B Z93		25
237	6	120		B	GETSX	3		1390	Y31		25
238	6	130		C	SX,VSBSC	4		1391	B Z60		25
239	6	140		BU	PROCD2	7		1395	C T05 Y34		26
240	6	150		B	GETSX	5		1402	B V52 /		26
241	6	160		MLC	@1@,SBSW	4		1407	B Z60		26
242	6	170		B	PROCD2	7		1411	M J36 Y35		26
243	6	180	PROCD1	B	GETSX	4		1418	B V52		26
244	6	190		C	SX,VNOTE	4		1422	B Z60		26
245	6	200		BU	PROC1C	7		1426	C T05 Y38		26
246	6	210		B	PUTSX	5		1433	B U57 /		27
247	6	220		B	GTPTIL	4		1438	B Z78		27
248	6	230		DCW	VNOTE	4		1442	B Z93		27
249	6	240	PROC1H	B	PUTSX	3		1448	Y38		27
250	6	250		B	PROCD1	4		1449	B Z78		27
251	7	010	PROC1C	C	SX,VDC	4		1453	B U22		27
252	7	020		BU	PROC1D	7		1457	C T05 Z59		27
253	7	030		B	PUTSX	5		1464	B U84 /		28
254	7	040		B	GTPTIL	4		1469	B Z78		28
255	7	050		DCW	VDC	4		1473	B Z93		28
256	7	060		B	PROC1H	3		1479	Z59		28
257	7	070	PROC1D	BCE	PROCD5,SX-2,)	4		1480	B U49		28
258	7	080		BCE	PROCD5,SX-2,.	8		1484	B W27 T03)		28
259	7	090		C	SX-2,@S@	8		1492	B W27 T03 .		28
260	7	100		BH	PROC1B	7		1500	C T03 J37		29
261	7	110		C	SX-2,@Y@	5		1507	B V28 U		29
262	7	120		BL	PROC1B	7		1512	C T03 J38		29
263	7	130		B	PROCD2	5		1519	B V28 T		29
264	7	140	PROC1B	BWZ	PROC1A,SX-2,B	4		1524	B V52		29
265	7	150		B	PROCD5	8		1528	V V40 T03 B		29
266	7	160	PROC1A	BWZ	PROCD2,SX-1,2	4		1536	B W27		30
267	7	170		B	PROCD5	8		1540	V V52 T04 2		30
268	7	180	PROCD2	BWZ	PROCD6,SX,B	4		1548	B W27		30
269	7	190		MLZS	SX,SXSAVE	8		1552	V X41 T05 B		30
270	7	200		MLZS	@ @,SX	7		1560	Y T05 Y28		30
271	7	210		B	GTADDR	7		1567	Y J39 T05		30
272	7	220	PRC2A	C	ADDR,@000@	4		1574	B Y45		31
273	7	230		BU	PROCD3	7		1578	C Z13 J42		31
274	7	240		BCE	PROCD5,ITSW,0	5		1585	B W65 /		31
275	7	250		B	PUTX	8		1590	B W27 T06 0		31
276	8	010		DCW	VNTFND	4		1598	B 363		31
277	8	020		BCE	PROCD5,SBSW,0	3		1604	Y31		31
278	8	030		MLC	@0@,SBSW	8		1605	B W27 Y35 0		31
						7		1613	M J43 Y35		32

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
279	8	040		B	PUTX		4	1620	B 363		32
280	8	050		DCW	VSBSC		3	1626	Y34		32
281	8	060	PROCD5	B	PUTSX		4	1627	B Z78		32
282	8	070		C	SX,VSBSC		7	1631	C T05 Y34		32
283	8	080		BU	PROCD4		5	1638	B W99 /		32
284	8	090		MLC	@1@,SB2SW		7	1643	M J36 Y24		32
285	8	100		B	GTPTIL		4	1650	B Z93		33
286	8	110		DCW	VSD		3	1656	Y27		33
287	8	120		B	PUTSX		4	1657	B Z78		33
288	8	130		B	PROCD		4	1661	B T76		33
289	8	140	PROCD3	BCE	PRCD3A,SBSW,0		8	1665	B W84 Y35 0		33
290	8	150		MLC	@0@,SBSW		7	1673	M J43 Y35		33
291	8	160		B	PRCD3B		4	1680	B W95		33
292	8	170	PRCD3A	MLZS	SXSAVE,SX		7	1684	Y Y28 T05		34
293	8	180		B	PUTSX		4	1691	B Z78		34
294	8	190	PRCD3B	B	PTTBL		4	1695	B Z17		34
295	8	200	PROCD4	C	SX,VNOTE		7	1699	C T05 Y38		34
296	8	210		BE	PROCD7		5	1706	B X23 S		34
297	8	220		C	SX,VDC		7	1711	C T05 Z59		34
298	8	230		BU	PROCD		5	1718	B T76 /		34
299	8	240	PROCD7	MLC	SX,GT1		7	1723	M T05 Y44		35
300	8	250		B	GTPTIL		4	1730	B Z93		35
301	9	010		DCW	GT1		3	1736	Y44		35
302	9	020		B	PROCD5		4	1737	B W27		35
303	9	030	PROCD6	BCE	PROCD8,SB2SW,1		8	1741	B X60 Y24 1		35
304	9	040		MLC	@1@,SBSW		7	1749	M J36 Y35		35
305	9	050		B	PROCD5		4	1756	B W27		35
306	9	060	PROCD8	MLC	@0@,SB2SW		7	1760	M J43 Y24		36
307	9	070		B	PROCD5		4	1767	B W27		36
308	9	080	EOJ	B	PUTSX		4	1771	B Z78		36
309	9	090		BCE	EOJ1,ITSW,1		8	1775	B X90 T06 1		36
310	9	100		B	SUPER		4	1783	B 351		36
311	9	110		DCW	@I01@		3	1789			36
312	9	120	EOJ1	BSP	1		5	1790	U %U1 B		36
313	9	130		BSP	1		5	1795	U %U1 B		37
314	9	140		BSP	1		5	1800	U %U1 B		37
315	9	150		BSP	1		5	1805	U %U1 B		37
316	9	160		BSP	1		5	1810	U %U1 B		37
317	9	170		BSP	1		5	1815	U %U1 B		37
318	9	180		B	GETPHS		4	1820	B T23		37
319	9	190	SB2SW	DCW	@0@		1	1824			37
320	9	200	VSD	DCW	@.SD@		3	1827			38
321	9	210	SXSAVE	DCW	@0@		1	1828			38
322	9	220	VNTFND	DCW	@.NF@		3	1831			38
323	9	230	VSBSC	DCW	@.SB@		3	1834			38
324	9	240	SBSW	DCW	@0@		1	1835			38
325	9	250	VNOTE	DCW	@*24@		3	1838			38
326	10	010	MACSP	DCW	@.MC@		3	1841			38
327	10	020	GT1	DCW	#3		3	1844			39
328	10	030	GTADDR	MLC	TBARG,X2		7	1845	M T12 094		39

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
329	10	040	GTA01	BCE	GTANFD,0&X2,\$		8	1852	B Z00 0!0 \$		39
330	10	050		C	SX,0&X2		7	1860	C T05 0!0		39
331	10	060		BE	GTAFND		5	1867	B Y88 S		39
332	10	070		MLC	0&X2,0&X2		7	1872	M 0!0 0!0		39
333	10	080		MLC			1	1879	M		39
334	10	090		SBR	X2		4	1880	H 094		40
335	10	100		B	GTA01		4	1884	B Y52		40
336	10	110	GTAFND	MLC	0&X2,RGTFD		7	1888	M 0!0 Z16		40
337	10	120		MLC			1	1895	M		40
338	10	130		B	PRC2A		4	1896	B V78		40
339	10	140	GTANFD	MLC	@000@,ADDR		7	1900	M J42 Z13		40
340	10	150		B	PRC2A		4	1907	B V78		40
341	10	160	ADDR	DCW	#3		3	1913			41
342	10	170	RGTFD	DCW	#3		3	1916			41
343	10	180	PTTBL	MLC	ADDR,X2		7	1917	M Z13 094		41
344	10	190	PTT01	BCE	PROCD,0&X2,|		8	1924	B T76 0!0 |		41
345	10	200		MLC	0&X2,PTTPAR		7	1932	M 0!0 Z56		41
346	10	210		SAR	X2		4	1939	Q 094		41
347	10	220		B	PUTX		4	1943	B 363		41
348	10	230		DCW	PTTPAR		3	1949	Z56		42
349	10	240		B	PTT01		4	1950	B Z24		42
350	10	250	PTTPAR	DCW	#3		3	1956			42
351	11	010	VDC	DCW	@#DC@		3	1959			42
352	11	020	GETSX	SBR	GTSEX&3	GETSX	4	1960	H Z77		42
353	11	030		B	GETX		4	1964	B 335		42
354	11	040		DCW	&SX		3	1970	T05		42
355	11	050			&EOJ		3	1973	X71		43
356	11	060	GTSEX	B	*		4	1974	B Z77		43
357	11	070	PUTSX	SBR	PTSEX&3	PUTSX	4	1978	H Z92		43
358	11	080		B	PUTX		4	1982	B 363		43
359	11	090		DCW	&SX		3	1988	T05		43
360	11	100	PTSEX	B	*		4	1989	B Z92		43
361	11	110	GTPTIL	SBR	X1	GTPTIL	4	1993	H 089		43
362	11	120		MLC	@P@,GTPSW		7	1997	M J44 !60		44
363	11	130		MLC	X1,GTLSV		7	2004	M 089 !59		44
364	11	140		MLC	2&X1,GTLO3&3		7	2011	M 0!2 !25		44
365	11	150	GTL02	B	GETSX		4	2018	B Z60		44
366	11	160	GTL03	C	*,SX		7	2022	C !28 T05		44
367	11	170		BE	GTL04		5	2029	B !46 S		44
368	11	180		BCE	PUTSX,GTPSW,P		8	2034	B Z78 !60 P		45
369	11	190		B	GTL02		4	2042	B !18		45
370	11	200	GTL04	MLC	GTLSV,X1		7	2046	M !59 089		45
371	11	210		B	3&X1		4	2053	B 0!3		45
372	11	220	GTLSV	DCW	#3		3	2059			45
373	11	230	GTPSW		#1		1	2060			45
374	11	240		DCW	@|@		1	2061			45
375	11	250		DCW	@.KK@		3	2064			46
376	12	010		DCW	@ K@		3	2067			46
377	12	020		DCW	@ E@		3	2070			46
378	12	030		DCW	@001@		3	2073			46

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
379	12	040		DCW	@ 9@		3	2076			46
380	12	050		DCW	@000@		3	2079			46
381	12	060		DCW	@005@		3	2082			46
382	12	070	TALLY	DCW	@000@		3	2085			47
383	12	080		DCW	@|@		1	2086			47
384	12	090		DCW	@.KK@		3	2089			47
385	12	100		DCW	@ K@		3	2092			47
386	12	110		DCW	@ E@		3	2095			47
387	12	120		DCW	@001@		3	2098			47
388	12	130		DCW	@ X@		3	2101			47
389	12	140		DCW	@000@		3	2104			48
390	12	150		DCW	@001@		3	2107			48
391	12	160	FGCONA	DCW	@000@		3	2110			48
392	12	170		DCW	@|@		1	2111			48
393	12	180		DCW	@.KK@		3	2114			48
394	12	190		DCW	@ K@		3	2117			48
395	12	200		DCW	@ E@		3	2120			48
396	12	210		DCW	@001@		3	2123			49
397	12	220		DCW	@ 9@		3	2126			49
398	12	230		DCW	@000@		3	2129			49
399	12	240		DCW	@001@		3	2132			49
400	12	250	FGCONN	DCW	@000@		3	2135			49
401	13	010		LTORG	2136				2136		
				DCW	@1@		1	2136		LIT	49
					@S@		1	2137		LIT	49
					@Y@		1	2138		LIT	50
					@ @		1	2139		LIT	50
					@000@		3	2142		LIT	50
					@0@		1	2143		LIT	50
					@P@		1	2144		LIT	50
					@}@		1	2145			50
402	13	020		DCW							50
403	13	030		END	START				/ T57 080		51

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CLEAR STORAGE 1 ,008015,019026,030,034041,045,053,0570571026 1
CLEAR STORAGE 2 L068112,102106,113/101099/I99,027A070028)027B0010270B0261,001/001113I0 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	010	000	JOB	1401 COBOL - I01						
102	1	020		CTL	631 11						
103	1	030	X1	EQU	89			0089			
104	1	040	X2	EQU	94			0094			
105	1	050	X3	EQU	99			0099			
106	1	060	GETX	EQU	335			0335			
107	1	070	PUTX	EQU	363			0363			
108	1	080	SUPER	EQU	351			0351			
109	1	090		ORG	1300				1300		
110	1	100	GETT	MRCM	BLANKS, INPUT1	7	1300	P P61	P85		4
111	1	110		MRCM	BLANKS	4	1307	P P61			4
112	1	120		MRCM	BLANKS	4	1311	P P61			4
113	1	130		MRCM	BLANKS&9	4	1315	P P70			4
114	1	140		MLC	NULL, SW1	7	1319	M Q99	R00		4
115	1	150	GETTA	B	GETX	4	1326	B 335			4
116	1	160		DCW	&SY	3	1332	Q63			4
117	1	170			&EOJ	3	1335	X04			5
118	1	180		C	SY, @#DC@	7	1336	C Q63	C70		5
119	1	190		BU	GET2	5	1343	B T88	/		5
120	1	200	GET1	B	PUTX	4	1348	B 363			5
121	1	210		DCW	&SY	3	1354	Q63			5
122	1	220		B	GETX	4	1355	B 335			5
123	1	230		DCW	&SY	3	1361	Q63			5
124	1	240			&EOJ	3	1364	X04			6
125	1	250		C	SY, @#DC@	7	1365	C Q63	C70		6
126	2	010		BU	GET1	5	1372	B T48	/		6
127	2	020		B	PUTX	4	1377	B 363			6
128	2	030		DCW	&SY	3	1383	Q63			6
129	2	040		B	GETTA	4	1384	B T26			6
130	2	050	GET2	C	SY, VLOC	7	1388	C Q63	Q81		6
131	2	060		BE	GETTA1	5	1395	B U11	S		7
132	2	070		B	PUTX	4	1400	B 363			7
133	2	080		DCW	&SY	3	1406	Q63			7
134	2	090		B	GETTA	4	1407	B T26			7
135	2	100	GETTA1	B	GETX	4	1411	B 335			7
136	2	110		DCW	&OPR	3	1417	P84			7
137	2	120			&EOJ	3	1420	X04			7
138	2	130		MLC	&FIXTAB, X2	7	1421	M C73	094		8
139	2	140	LKPA	C	5&X2, OPR	7	1428	C 0!5	P84		8
140	2	150		BE	LKP3	5	1435	B U59	S		8
141	2	160		BCE	TABLKP, 0&X2, %	8	1440	B V68	0!0 %		8
142	2	170		A	&6, X2	7	1448	A C74	094		8
143	2	180		B	LKPA	4	1455	B U28			8
144	2	190	LKP3	MLC	2&X2, LAB	7	1459	M 0!2	Q66		9
145	2	200		B	GETX	4	1466	B 335			9
146	2	210		DCW	&SY	3	1472	Q63			9
147	2	220			&EOJ	3	1475	X04			9

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	2	230		B	READMC		4	1476	B Y24		9
149	2	240		B	OUTLOC		4	1480	B X73		9
150	2	250		C	OPR,@.PB@		7	1484	C P84 C77		9
151	3	010		BU	FIXRD2		5	1491	B V53 /		10
152	3	020		BCE	FIX,EDIT,K		8	1496	B V26 Q11 K		10
153	3	030		BCE	FIX,MASK,K		8	1504	B V26 Q17 K		10
154	3	040		B	PUTX		4	1512	B 363		10
155	3	050		DCW	&MESS19		3	1518	R35		10
156	3	060		MRCM	INPUT2,BLK-2		7	1519	P Q30 Q12		10
157	3	070	FIX	B	ONEWM		4	1526	B Y97		10
158	3	080		B	OUTLST		4	1530	B Y02		11
159	3	090		BCE	FIX1,SW1,0		8	1534	B V57 R00 0		11
160	3	100		B	PUTX		4	1542	B 363		11
161	3	110		DCW	&FF5		3	1548	R32		11
162	3	120		B	FIX1		4	1549	B V57		11
163	3	130	FIXRD2	B	OUTLST		4	1553	B Y02		11
164	3	140	FIX1	B	PUTT		4	1557	B X18		11
165	3	150		DCW	&INPUT1		3	1563	P85		12
166	3	160		B	OUT		4	1564	B Y86		12
167	3	170	TABLKP	MLC	&TABLE,X2		7	1568	M C80 094		12
168	3	180	LKPAA	C	5&X2,OPR		7	1575	C 0!5 P84		12
169	3	190		BE	LKP3A		5	1582	B W06 S		12
170	3	200		BCE	PASSOP,0&X2,%		8	1587	B W27 0!0 %		12
171	3	210		A	&6,X2		7	1595	A C74 094		13
172	3	220		B	LKPAA		4	1602	B V75		13
173	3	230	LKP3A	MLC	2&X2,GETTB&3		7	1606	M 0!2 W26		13
174	3	240		B	GETX		4	1613	B 335		13
175	3	250		DCW	&SY		3	1619	Q63		13
176	4	010			&EOJ		3	1622	X04		13
177	4	020	GETTB	B	*		4	1623	B W26		13
178	4	030	PASSOP	B	PUTX		4	1627	B 363		14
179	4	040		DCW	&VLOC		3	1633	Q81		14
180	4	050		B	PUTX		4	1634	B 363		14
181	4	060		DCW	&OPSYM		3	1640	Q93		14
182	4	070		BCE	*&5,OPR-2,,		8	1641	B W53 P82 ,		14
183	4	080		B	*&12		4	1649	B W64		14
184	4	090		MLC	&PASSMC,LOCBB&3		7	1653	M C83 Y01		14
185	4	100		B	OUTOP		4	1660	B X84		15
186	4	110		B	PUTX		4	1664	B 363		15
187	4	120		DCW	&OPR		3	1670	P84		15
188	4	130	PASSMC	B	GETX		4	1671	B 335		15
189	4	140		DCW	&SY		3	1677	Q63		15
190	4	150			&EOJ		3	1680	X04		15
191	4	160		B	PUTX		4	1681	B 363		15
192	4	170		DCW	&SY		3	1687	Q63		16
193	4	180		C	SY,MCSEP		7	1688	C Q63 Q90		16
194	4	190		BE	GETTA		5	1695	B T26 S		16
195	4	200		B	PASSMC		4	1700	B W71		16
196	4	210	EOJ	B	PUTX		4	1704	B 363		16
197	4	220		DCW	&VEOP		3	1710	Q87		16

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
198	4	230		B	SUPER		4	1711	B 351		16
199	4	240		DCW	@I02@		3	1717			17
200	4	250	PUTT	SBR	X2	PUT OUT A LIST	4	1718	H 094		17
201	5	010		MLC	2&X2,X3		7	1722	M 0!2 099		17
202	5	020	PUTT1	BCE	PUTTBB,0&X3,%		8	1729	B X62 0?0 %		17
203	5	030		MLC	2&X3,SY		7	1737	M 0?2 Q63		17
204	5	040		B	PUTX		4	1744	B 363		17
205	5	050		DCW	&SY		3	1750	Q63		17
206	5	060		A	@003@,X3		7	1751	A C86 099		18
207	5	070		B	PUTT1		4	1758	B X29		18
208	5	080	PUTTBB	A	@003@,X2		7	1762	A C86 094		18
209	5	090		B	0&X2		4	1769	B 0!0		18
210	5	100	OUTLOC	SBR	LOCBB&3	PUTOUT VOP, OPR, VLOC	4	1773	H Y01		18
211	5	110		B	PUTX		4	1777	B 363		18
212	5	120		DCW	&VLOC		3	1783	Q81		18
213	5	130	OUTOP	B	PUTX		4	1784	B 363		19
214	5	140		DCW	&OPR		3	1790	P84		19
215	5	150		B	PUTX		4	1791	B 363		19
216	5	160		DCW	&VOP		3	1797	Q84		19
217	5	170	LOCBB	B	*		4	1798	B Y01		19
218	5	180	OUTLST	SBR	OUTLB1&3	PUTOUT LIBRARY LIST	4	1802	H Y23		19
219	5	190		MLC	LAB, LBADDR		7	1806	M Q66 Y19		19
220	5	200		B	PUTT		4	1813	B X18		20
221	5	210	LBADDR	DCW	*		3	1819	Y19		20
222	5	220	OUTLB1	B	*		4	1820	B Y23		20
223	5	230	READMC	SBR	READBB&3	READ INTO INPUT AREA UNTIL MCSEP	4	1824	H Y85		20
224	5	240		MLC	&INPUT1,X2	AND	7	1828	M C89 094		20
225	5	250	READ1	B	GETX	PUTOUT @%@	4	1835	B 335		20
226	6	010		DCW	&SY		3	1841	Q63		20
227	6	020			&EOJ		3	1844	X04		21
228	6	030		C	SY,MCSEP		7	1845	C Q63 Q90		21
229	6	040		BE	READ2		5	1852	B Y75 S		21
230	6	050		MLC	SY,2&X2		7	1857	M Q63 0!2		21
231	6	060		A	@003@,X2		7	1864	A C86 094		21
232	6	070		B	READ1		4	1871	B Y35		21
233	6	080	READ2	MLC	PCT,0&X2		7	1875	M Q60 0!0		22
234	6	090	READBB	B	*		4	1882	B Y85		22
235	6	100	OUT	B	PUTX		4	1886	B 363		22
236	6	110		DCW	&MCSEP		3	1892	Q90		22
237	6	120		B	GETT		4	1893	B T00		22
238	6	130	ONEWM	SBR	WMKBB&3		4	1897	H Z30		22
239	6	140		C	WM1,NULL		7	1901	C Q02 Q99		22
240	6	150		BU	WMKBB		5	1908	B Z27 /		23
241	6	160		MLC	@2@,SW1		7	1913	M C90 R00		23
242	6	170		B	PUTX		4	1920	B 363		23
243	6	180		DCW	&AA2		3	1926	R20		23
244	6	190	WMKBB	B	*		4	1927	B Z30		23
245	6	200	BFAFT	B	READMC		4	1931	B Y24		23
246	6	210		BWZ	INTG,NM1-2,2		8	1935	V !29 P85 2		23
247	6	220		BCE	BFAFT1,SIZE1-5,.		8	1943	B Z66 P88 .		24

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
248	6	230		B	OUTLOC		4	1951	B X73		24
249	6	240		B	PUTX		4	1955	B 363		24
250	6	250		DCW	&MESS7		3	1961	R26		24
251	7	010		B	OUT		4	1962	B Y86		24
252	7	020	BFAFT1	BCE	ELMV,DEC1-1,E		8	1966	B !00 P95	E	24
253	7	030		BCE	TWMV,DEC1-1,T		8	1974	B !11 P95	T	24
254	7	040		MLN	DEC1,CHAR		7	1982	D P96	C12	25
255	7	050		MLZS	DEC1,CHAR		7	1989	Y P96	C12	25
256	7	060		B	CCPUT		4	1996	B !18		25
257	7	070	ELMV	MLC	@#@,CHAR		7	2000	M C91	C12	25
258	7	080		B	CCPUT		4	2007	B !18		25
259	7	090	TWMV	MLC	@@@,CHAR		7	2011	M C92	C12	25
260	7	100	CCPUT	B	PUTT		4	2018	B X18		26
261	7	110		DCW	&CCST		3	2024	B98		26
262	7	120		B	GETT		4	2025	B T00		26
263	7	130	INTG	C	NM1,NULL		7	2029	C P87	Q99	26
264	7	140		BE	GETT		5	2036	B T00	S	26
265	7	150	INTG1	C	@003@,NM1		7	2041	C C86	P87	26
266	7	160		BH	ITATE		5	2048	B !71	U	26
267	7	170		MLN	NM1,CHAR		7	2053	D P87	C12	27
268	7	180		MLZS	@J@,CHAR		7	2060	Y C93	C12	27
269	7	190		B	CCPUT		4	2067	B !18		27
270	7	200	ITATE	MLC	@L@,CHAR		7	2071	M C94	C12	27
271	7	210		B	PUTT		4	2078	B X18		27
272	7	220		DCW	&CCST		3	2084	B98		27
273	7	230		S	@3@,NM1		7	2085	S C95	P87	27
274	7	240		MLZS	@ @,NM1		7	2092	Y C96	P87	28
275	7	250		B	INTG1		4	2099	B !41		28
276	8	010	SWIT	B	READMC		4	2103	B Y24		28
277	8	020		MLC	BLKS-2,BSW		7	2107	M P61	R17	28
278	8	030		BCE	FALS,OPR-2,%		8	2114	B J34	P82 %	28
279	8	040		BCE	MOVT,DEC1-1,3		8	2122	B J42	P95 3	28
280	8	050		B	MOVF		4	2130	B J53		29
281	8	060	FALS	BCE	MOVF,DEC1-1,3		8	2134	B J53	P95 3	29
282	8	070	MOVT	MLC	@T@,BSW		7	2142	M C97	R17	29
283	8	080		B	*&8		4	2149	B J60		29
284	8	090	MOVF	MLC	@F@,BSW		7	2153	M C98	R17	29
285	8	100		BCE	MVBSS,SIZE1-1,		8	2160	B J95	P92	29
286	8	110		BCE	MVBC9,SIZE1,5		8	2168	B K06	P93 5	30
287	8	120		BCE	MVBPC,SIZE1,6		8	2176	B K17	P93 6	30
288	8	130		MLC	BCV,SWST		7	2184	M R16	C28	30
289	8	140		B	SWIT1		4	2191	B K24		30
290	8	150	MVBSS	MLC	BSS,SWST		7	2195	M R06	C28	30
291	8	160		B	SWIT1		4	2202	B K24		30
292	8	170	MVBC9	MLC	BC9,SWST		7	2206	M R09	C28	31
293	8	180		B	SWIT1		4	2213	B K24		31
294	8	190	MVBPC	MLC	BPCB,SWST&1		7	2217	M R13	C29	31
295	8	200	SWIT1	B	PUTT		4	2224	B X18		31
296	8	210		DCW	&SWISS		3	2230	C20		31
297	8	220		MLC	@ @,SWST&1		7	2231	M C96	C29	31

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
298	8	230		BCE	SWIT2,BSW,T		8	2238	B K57 R17 T		32
299	8	240		B	PUTT		4	2246	B X18		32
300	8	250		DCW	&ASKST		3	2252	C58		32
301	9	010		B	SWIT3		4	2253	B K64		32
302	9	020	SWIT2	B	PUTX		4	2257	B 363		32
303	9	030		DCW	&CL1		3	2263	P99		32
304	9	040	SWIT3	BCE	*&5,SIZE1-1,		8	2264	B K76 P92		32
305	9	050		B	SWIT4		4	2272	B L05		33
306	9	060		SW	SIZE1-2		4	2276	, P91		33
307	9	070		MLC	SIZE1,SY		7	2280	M P93 Q63		33
308	9	080		B	PUTX		4	2287	B 363		33
309	9	090		DCW	&VCMA		3	2293	R03		33
310	9	100		B	PUTX		4	2294	B 363		33
311	9	110		DCW	&SY		3	2300	Q63		33
312	9	120		CW	SIZE1-2		4	2301	) P91		34
313	9	130	SWIT4	B	PUTX		4	2305	B 363		34
314	9	140		DCW	&MCSEP		3	2311	Q90		34
315	9	150		B	PUTX		4	2312	B 363		34
316	9	160		DCW	&SHDC		3	2318	R38		34
317	9	170		BCE	GETT,BSW,T		8	2319	B T00 R17 T		34
318	9	180		MLC	CL1,BGL&14		7	2327	M P99 C50		34
319	9	190		B	PUTT		4	2334	B X18		35
320	9	200		DCW	&BGL		3	2340	C36		35
321	9	210		B	GETT		4	2341	B T00		35
322	9	220	RELAT	MLC	@,@,OPR-2		7	2345	M C99 P82		35
323	9	230		B	PASSOP		4	2352	B W27		35
324	9	240	EXMIN	B	OUTLOC	PUTOUT LOC, OPR, OP	4	2356	B X73		35
325	9	250		MLC	@N@,EXRD4		7	2360	M D00 O68		35
326	10	010		B	EXRD	GET DN AND PARAMETERS	4	2367	B O28		36
327	10	020		MLC	@|@,CL1&1		7	2371	M D01 Q00		36
328	10	030		MRCM	INPUT1,INPUT2	STORE DATA NAME ETC.	7	2378	P P85 Q30		36
329	10	040		B	GETX	GET ALL, FIRST, ETC. SWITCH	4	2385	B 335		36
330	10	050		DCW	&ALLSW		3	2391	Q72		36
331	10	060			&EOJ		3	2394	X04		36
332	10	070		MLC	@B@,EXRD4		7	2395	M D02 O68		36
333	10	080		B	EXRD	GET LIT. 1 AND PARAMETERS	4	2402	B O28		37
334	10	090		MLC	NM1,TYPE2	STORE LIT. 1	7	2406	M P87 Q50		37
335	10	100		MLC	SIZE1,SIZE3		7	2413	M P93 Q59		37
336	10	110		B	READMC	GET LIT. 2 AND PARAMETERS	4	2420	B Y24		37
337	10	120		C	SIZE1,ONE	IS SIZE OF LIT2 GREAT. THAN 1	7	2424	C P93 Q78		37
338	10	130		BU	EXMIN1		5	2431	B M48 /		37
339	10	140		C	SIZE3,ONE	IS SIZE OF LIT1 GREAT. THAN 1	7	2436	C Q59 Q78		38
340	10	150		BE	*&8		5	2443	B M55 S		38
341	10	160	EXMIN1	B	PUTX		4	2448	B 363		38
342	10	170		DCW	&MESS20		3	2454	R29		38
343	10	180		B	PUTX		4	2455	B 363		38
344	10	190		DCW	&EE1		3	2461	R23		38
345	10	200		MLC	NM1,DEC2	STORE LIT2	7	2462	M P87 Q41		38
346	10	210		MLC	NULL,CL2-1		7	2469	M Q99 Q43		39
347	10	220		MLC	NULL,SIZE2-3		7	2476	M Q99 Q35		39

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
348	10	230		BWZ	*&5,NM2,B		8	2483	V M95 Q32 B		39
349	10	240		B	*&8		4	2491	B N02		39
350	10	250		A	ONE,SIZE2-3		7	2495	A Q78 Q35		39
351	11	010		BCE	EXMIN5,TALSW,9	IS IT TALLYING OPTION	8	2502	B N28 Q69 9		40
352	11	020		MLC	@R@,WM2-2	SET SUBR. SWITCH	7	2510	M D03 Q45		40
353	11	030		MLC	@R@,WM2	SET SUBR. SWITCH	7	2517	M D03 Q47		40
354	11	040		B	EXMIN6		4	2524	B N61		40
355	11	050	EXMIN5	MLC	@T@,WM2-2	SET SUBR. SWITCH	7	2528	M C97 Q45		40
356	11	060		BWZ	*&12,NM1-2,2	IS IT TALLY WITH NO REPLACING	8	2535	V N54 P85 2		41
357	11	070		MLC	@R@,WM2	SET SUBR. SWITCH	7	2543	M D03 Q47		41
358	11	080		B	EXMIN6		4	2550	B N61		41
359	11	090		MLC	@ @,WM2		7	2554	M C96 Q47		41
360	11	100	EXMIN6	MLC	&SWTAB,*&4		7	2561	M D06 N71		41
361	11	110	EXMIN3	C	SWTAB,ALLSW	LOOK UP TABLE FOR OPTION USED	7	2568	C R42 Q72		42
362	11	120		SAR	EXMIN4&3	SET RESPECTIVE SWITCH	4	2575	Q O06		42
363	11	130		BE	EXMIN4		5	2579	B O03 S		42
364	11	140		MA	@004@,EXMIN3&3					MACRO	
365				SW	EXMIN3&3-2		4	2584	, N69	GEN	42
366				A	@004@,EXMIN3&3		7	2588	A D09 N71	GEN	42
367				CW	EXMIN3&3-2		4	2595	) N69	GEN	42
368	11	150		B	EXMIN3		4	2599	B N68		42
369	11	160	EXMIN4	MLC	*,WM2-1	MOVE SWITCH FROM TABLE	7	2603	M O09 Q46		43
370	11	170		MLC	PCT,TYPE2&1		7	2610	M Q60 Q51		43
371	11	180		B	PUTT		4	2617	B X18		43
372	11	190		DCW	&INPUT2		3	2623	Q30		43
373	11	200		B	OUT		4	2624	B Y86		43
374	11	210	EXRD	SBR	EXRDBB&3		4	2628	H P35		43
375	11	220		MLC	&INPUT1,X2		7	2632	M D12 094		43
376	11	230		MLC	NULL,EXCNT		7	2639	M Q99 Q75		44
377	11	240	EXRD1	C	EXCNT,@017@		7	2646	C Q75 D15		44
378	11	250		BE	EXRD5		5	2653	B O84 S		44
379	12	010		B	GETX		4	2658	B 335		44
380	12	020		DCW	&SY		3	2664	Q63		44
381	12	030			&EOJ		3	2667	X04		44
382	12	040	EXRD4	B	EXRD2		4	2668	B O95		44
383	12	050		BCE	*&5,SY-2,*		8	2672	B O84 Q61 *		45
384	12	060		B	EXRD3		4	2680	B P07		45
385	12	070	EXRD5	MLC	SY,TALSW		7	2684	M Q63 Q69		45
386	12	080		B	EXRDBB		4	2691	B P32		45
387	12	090	EXRD2	C	SY,VK		7	2695	C Q63 Q96		45
388	12	100		BE	EXRDBB		5	2702	B P32 S		45
389	12	110	EXRD3	A	@1@,EXCNT		7	2707	A D16 Q75		46
390	12	120		MLC	SY,2&X2		7	2714	M Q63 012		46
391	12	130		A	@003@,X2		7	2721	A C86 094		46
392	12	140		B	EXRD1		4	2728	B O46		46
393	12	150	EXRDBB	B	*		4	2732	B P35		46
394	12	160	XFF	B	PUTX		4	2736	B 363		46
395	12	170		DCW	&SHDC		3	2742	R38		46
396	12	180		B	PUTX		4	2743	B 363		47
397	12	190		DCW	&OPR		3	2749	P84		47

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
398	12	200		B	PUTX		4	2750	B 363		47
399	12	210		DCW	&SHDC		3	2756	R38		47
400	12	220		B	GETT		4	2757	B T00		47
401	12	230	BLANKS	EQU	*&1			2761			
402	12	240		DCW	#20		20	2780			47
403	12	250		DC	@|@		1	2781			47
404	13	010	BLKS	EQU	BLANKS&2			2763			
405	13	020	OPR	DCW	#3		3	2784			48
406	13	030	INPUT1	DA	1X45			2785	2829		48
407	13	040	NM1		1,3			2787		FIELD	48
408	13	050	SIZE1		4,9			2793		FIELD	48
409	13	060	DEC1		10,12			2796		FIELD	48
410	13	070	CL1		13,15			2799		FIELD	48
411	13	080	WM1		16,18			2802		FIELD	48
412	13	090	TYPE1		19,21			2805		FIELD	49
413	13	100	JUST		22,24			2808		FIELD	49
414	13	110	EDIT		25,27			2811		FIELD	49
415	13	120	BLK		28,30			2814		FIELD	49
416	13	130	MASK		31,33			2817		FIELD	49
417	13	140	COBMSK		34,36			2820		FIELD	49
418	13	150	ED1		37,39			2823		FIELD	50
419	13	160	ED2		40,42			2826		FIELD	50
420	13	170	CHCNT		43,45			2829		FIELD	50
421	13	180	INPUT2	DA	1X21			2830	2850		50
422	13	190	NM2		1,3			2832		FIELD	50
423	13	200	SIZE2		4,9			2838		FIELD	50
424	13	210	DEC2		10,12			2841		FIELD	51
425	13	220	CL2		13,15			2844		FIELD	51
426	13	230	WM2		16,18			2847		FIELD	51
427	13	240	TYPE2		19,21			2850		FIELD	51
428	13	250	INPUT3	DA	1X9			2851	2859		51
429	14	010	NM3		1,3			2853		FIELD	51
430	14	020	SIZE3		4,9			2859		FIELD	52
431	14	030	PCT	DCW	@%@		1	2860			52
432	14	040	SY	DCW	#3		3	2863			52
433	14	050	LAB		#3		3	2866			52
434	14	060	TALSW		#3		3	2869			52
435	14	070	ALLSW		#3		3	2872			52
436	14	080	EXCNT		#3		3	2875			52
437	14	090	ONE		@001@		3	2878			53
438	14	100	VLOC		@.LC@		3	2881			53
439	14	110	VOP		@.OP@		3	2884			53
440	14	120	VEOP		@.EP@		3	2887			53
441	14	130	MCSEP		@.MC@		3	2890			53
442	14	140	OPSYM		@*.\$*@		3	2893			53
443	14	150	VK		@.KK@		3	2896			53
444	14	160	NULL		000		3	2899			54
445	14	170	SW1		0		1	2900			54
446	14	180	VCMA		@ ,@		3	2903			54
447	14	190	BSS		@BSS@		3	2906			54

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
448	14	200	BC9		@BC9@		3	2909			54
449	14	210	BPCB		@BPCB@		4	2913			54
450	14	220	BCV		@BCV@		3	2916			54
451	14	230	BSW		#1		1	2917			55
452	14	240	AA2		@.A1@		3	2920			55
453	14	250	EE1		@.E1@		3	2923			55
454	15	010	MESS7		@.R0@		3	2926			55
455	15	020	MESS20		@.Y6@	SIZE OF LIT1 IS GREATER THAN 1	3	2929			55
456	15	030	FF5		@.F5@		3	2932			55
457	15	040	MESS19		@.X9@		3	2935			55
458	15	050	SHDC		@#DC@		3	2938			56
459	15	060		DCW	1		1	2939			56
460	15	070	SWTAB		@\$40@	ALL OPERATOR	3	2942			56
461	15	080			2		1	2943			56
462	15	090			@*37@	LEADING OPERATOR	3	2946			56
463	15	100			3		1	2947			56
464	15	110			@/XT@	UNTIL FIRST OPERATOR	3	2950			56
465	15	120			4		1	2951			57
466	15	130			@*38@	FIRST OPERATOR	3	2954			57
467	15	140	FIXTAB	EQU	*&1			2955			
468	15	150		DCW	&EXP1		3	2957	A37		57
469	15	160			@.LB@		3	2960			57
470	15	170		DCW	&EXP2		3	2963	A41		57
471	15	180			@.IM@		3	2966			57
472	15	190			&EXP3		3	2969	A48		57
473	15	200			@)20@		3	2972			58
474	15	210			&EXP3A		3	2975	A52		58
475	15	220			@*40@		3	2978			58
476	15	230			&EXP4		3	2981	A59		58
477	15	240			@.RT@		3	2984			58
478	15	250			&EXP5		3	2987	A63		58
479	16	010			@)17@		3	2990			58
480	16	020			&EXP6		3	2993	A67		59
481	16	030			@)03@		3	2996			59
482	16	040			&EXP7		3	2999	A71		59
483	16	050			@.PA@		3	3002			59
484	16	060			&EXP8		3	3005	A78		59
485	16	070			@.EQ@		3	3008			59
486	16	080			&EXP9		3	3011	A82		59
487	16	090			@*11@		3	3014			60
488	16	100			&EXP10		3	3017	A86		60
489	16	110			@.PE@		3	3020			60
490	16	120			&EXP11		3	3023	A99		60
491	16	130			@.PF@		3	3026			60
492	16	140			&EXP12		3	3029	B15		60
493	16	150			@.P1@		3	3032			60
494	16	160			&EXP12A		3	3035	B25		61
495	16	170			@.P2@		3	3038			61
496	16	180			&EXP13		3	3041	B35		61
497	16	190			@.RK@		3	3044			61

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
498	16	200			&EXP14		3	3047	B42		61
499	16	210			@.P3@		3	3050			61
500	16	220			&EXP15		3	3053	B55		61
501	16	230			@.PB@		3	3056			62
502	16	240			&EXP16		3	3059	B74		62
503	16	250			@.PC@		3	3062			62
504	17	010			&STPRUN		3	3065	B91		62
505	17	020			@*30@		3	3068			62
506	17	030			&GOALT		3	3071	B81		62
507	17	040			@)99@		3	3074			62
508	17	050			@%@		1	3075			63
509	17	060	TABLE	EQU	*&1			3076			
510	17	070		DCW	&SWIT		3	3078	J03		63
511	17	080			@.SW@		3	3081			63
512	17	090			&SWIT		3	3084	J03		63
513	17	100			@%SW@		3	3087			63
514	17	110			&BFAFT		3	3090	Z31		63
515	17	120			@*17@		3	3093			63
516	17	130			&BFAFT		3	3096	Z31		64
517	17	140			@*22@		3	3099			64
518	17	150			&RELAT		3	3102	L45		64
519	17	160			@ #@		3	3105			64
520	17	170			&RELAT		3	3108	L45		64
521	17	180			@.NE@		3	3111			64
522	17	190			&RELAT		3	3114	L45		64
523	17	200			@\$20@		3	3117			65
524	17	210			&RELAT		3	3120	L45		65
525	17	220			@\$21@		3	3123			65
526	17	230			&EXMIN		3	3126	L56		65
527	17	240			@)30@		3	3129			65
528	17	250			&XFF		3	3132	P36		65
529	18	010			@.XF@		3	3135			65
530	18	020			@%@		1	3136			66
531	18	030	EXP1	EQU	*&1			3137			
532	18	040		DC	@.S4%@		4	3140			66
533	18	050	EXP2	EQU	*&1			3141			
534	18	060		DC	@.S5.S4%@		7	3147			66
535	18	070	EXP3	EQU	*&1			3148			
536	18	080		DC	@.S6%@		4	3151			66
537	18	090	EXP3A	EQU	*&1			3152			
538	18	100		DCW	@.X6.X5%@		7	3158			66
539	18	110	EXP4	EQU	*&1			3159			
540	18	120		DC	@.S7%@		4	3162			66
541	18	130	EXP5	EQU	*&1			3163			
542	18	140		DC	@.S8%@		4	3166			66
543	18	150	EXP6	EQU	*&1			3167			
544	18	160		DC	@.S9%@		4	3170			66
545	18	170	EXP7	EQU	*&1			3171			
546	18	180		DC	@.S6.T1%@		7	3177			67
547	18	190	EXP8	EQU	*&1			3178			

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
548	18	200		DC	@.T2%@		4	3181			67
549	18	210	EXP9	EQU	*&1			3182			
550	18	220		DC	@.T0%@		4	3185			67
551	18	230	EXP10	EQU	*&1			3186			
552	18	240		DC	@.T3.T2.T4.T5%@		13	3198			67
553	18	250	EXP11	EQU	*&1			3199			
554	19	010		DC	@.T6.T7.T2.T8.T9%@		16	3214			68
555	19	020	EXP12	EQU	*&1			3215			
556	19	030		DC	@.S6.U0.U1%@		10	3224			68
557	19	040	EXP12A	EQU	*&1			3225			
558	19	050		DCW	@.X7.U0.U1%@		10	3234			68
559	19	060	EXP13	EQU	*&1			3235			
560	19	070		DC	@.U2.U3%@		7	3241			69
561	19	080	EXP14	EQU	*&1			3242			
562	19	090		DC	@.U4.U5.U6.U7%@		13	3254			69
563	19	100	EXP15	EQU	*&1			3255			
564	19	110		DC	@.U8.U9.V0.X8.V1.V2%@		19	3273			69
565	19	120	EXP16	EQU	*&1			3274			
566	19	130		DC	@.V3.T2%@		7	3280			70
567	19	140	GOALT	EQU	*&1			3281			
568	19	150		DCW	@.E4.E5.E6%@		10	3290			70
569	19	160	STPRUN	EQU	*&1			3291			
570	19	170		DCW	@.W6.W9%@		7	3297			70
571	19	180	CCST	EQU	*&1			3298			
572	19	190		DCW	@#DC.LCCC .OP .MC#DC%@		22	3319			71
573	19	200	CHAR	EQU	CCST&14			3312			
574	19	210	SWISS	EQU	*&1			3320			
575	19	220	SWST	EQU	*&9			3328			
576	19	230		DCW	@#DC.LC .OP%@		16	3335			71
577	19	240	BGL	EQU	*&1			3336			
578	19	250		DCW	@#DC.LCB .OP .MC#DC%@		22	3357			72
579	20	010	ASKST	EQU	*&1			3358			
580	20	020		DCW	@ * & 5%@		10	3367			72
581	20	030		LTORG					3368		
				DCW	@#DC@		3	3370		LIT	72
		138			&FIXTAB		3	3373	R55	ADCON	72
					&6		1	3374		LIT	72
					@.PB@		3	3377		LIT	73
		167			&TABLE		3	3380	?76	ADCON	73
		184			&PASSMC		3	3383	W71	ADCON	73
					@003@		3	3386		LIT	73
		224			&INPUT1		3	3389	P85	ADCON	73
					@2@		1	3390		LIT	73
					@#@		1	3391		LIT	73
					@@@		1	3392		LIT	74
					@J@		1	3393		LIT	74
					@L@		1	3394		LIT	74
					@3@		1	3395		LIT	74
					@ @		1	3396		LIT	74
					@T@		1	3397		LIT	74

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
					@F@		1	3398		LIT	74
					@,@		1	3399		LIT	75
					@N@		1	3400		LIT	75
					@|@		1	3401		LIT	75
					@B@		1	3402		LIT	75
					@R@		1	3403		LIT	75
		360			&SWTAB		3	3406	R42	ADCON	75
					@004@		3	3409		LIT	75
		375			&INPUT1		3	3412	P85	ADCON	76
					@017@		3	3415		LIT	76
					@1@		1	3416		LIT	76
582	20	040		ORG	3790				3790		
583	20	050		DCW	@}@		1	3790			77
584	20	060		END	GETT				/ T00 080		78

CLEAR STORAGE 1	,008015,019026,030,034041,045,053,0570571026	1
CLEAR STORAGE 2	L068112,102106,113/101099/I99,027A070028)027B0010270B0261,001/001113I0	2
BOOTSTRAP	,008015,022029,036040,047054,061068,072/061039	3

1401 COBOL - I02

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SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
101	1	010	000	JOB	1401 COBOL - I02						
102	1	020		CTL	631 11						
103	1	030	X1	EQU	89			0089			
104	1	040	X2	EQU	94			0094			
105	1	050	X3	EQU	99			0099			
106	1	060	GETX	EQU	335			0335			
107	1	070	PUTX	EQU	363			0363			
108	1	080	SUPER	EQU	351			0351			
109	1	090		ORG	1300				1300		
110	1	100	GETT	MRCM	BLANKS, INPUT1	7	1300	P P81	Q29		4
111	1	110		MRCM	BLANKS	4	1307	P P81			4
112	1	120		MRCM	BLANKS&12	4	1311	P P93			4
113	1	130		MLC	@B@, OUTP1	7	1315	M A97	M98		4
114	1	140	GETSY	B	GETX	4	1322	B 335			4
115	1	150		DCW	&SY	3	1328	P71			4
116	1	160			&EOJ	3	1331	U49			4
117	1	170		C	SY, PASSSY	7	1332	C P71	U48		5
118	1	180		BE	GETSY2	5	1339	B T55	S		5
119	1	190		B	PUTX	4	1344	B 363			5
120	1	200		DCW	&SY	3	1350	P71			5
121	1	210		B	GETSY	4	1351	B T22			5
122	1	220	GETSY2	B	GETX	4	1355	B 335			5
123	1	230		DCW	&OPR	3	1361	Q28			5
124	1	240			&EOJ	3	1364	U49			6
125	1	250		MLC	&TABLE, X2	7	1365	M B00	094		6
126	2	010	LKPA	C	5&X2, OPR	7	1372	C 015	Q28		6
127	2	020		BE	LKP3	5	1379	B U03	S		6
128	2	030		BCE	PASSMC, 0&X2, %	8	1384	B U28	010 %		6
129	2	040		A	&6, X2	7	1392	A B01	094		6
130	2	050		B	LKPA	4	1399	B T72			7
131	2	060	LKP3	MLC	2&X2, GETTA&3	7	1403	M 012	U27		7
132	2	070		B	GETX	4	1410	B 335			7
133	2	080		DCW	&SY	3	1416	P71			7
134	2	090			&EOJ	3	1419	U49			7
135	2	100		B	OUTOP	4	1420	B L46			7
136	2	110	GETTA	B	*	4	1424	B U27			7
137	2	120	PASSMC	B	PUTX	4	1428	B 363			8
138	2	130		DCW	&PASSSY	3	1434	U48			8
139	2	140		B	PUTX	4	1435	B 363			8
140	2	150		DCW	&OPR	3	1441	Q28			8
141	2	160	PASS	B	GETSY	4	1442	B T22			8
142	2	170	PASSSY	DCW	@*\$\$*@	3	1448				8
143	2	180	EOJ	B	PUTX	4	1449	B 363			8
144	2	190		DCW	&VEOP	3	1455	P68			9
145	2	200		B	SUPER	4	1456	B 351			9
146	2	210		DCW	@I03@	3	1462				9
147	2	220	RDPY	SBR	RDPYBB&3	4	1463	H U94			9

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	2	230		MLC	&DPYCNT,X2	7		1467	M B04 094		9
149	2	240	RDPY1	B	GETX	4		1474	B 335		9
150	2	250		DCW	&SY	3		1480	P71		9
151	3	010			&EOJ	3		1483	U49		10
152	3	020		C	SY,VN	7		1484	C P71 P41		10
153	3	030	RDPYBB	BE	*	5		1491	B U95 S		10
154	3	040		MLC	SY,2&X2	7		1496	M P71 012		10
155	3	050		A	@003@,X2	7		1503	A B07 094		10
156	3	060		B	RDPY1	4		1510	B U74		10
157	3	070	SBNM1	SBR	SBNM1B&3	4		1514	H V47		10
158	3	080		BWZ	*&12,NM1,B	8		1518	V V37 Q31 B		11
159	3	090		MLC	@0@,CL1	7		1526	M B08 Q43		11
160	3	100		B	SBNM1B	4		1533	B V44		11
161	3	110		MLC	@1@,CL1	7		1537	M B09 Q43		11
162	3	120	SBNM1B	B	*	4		1544	B V47		11
163	3	130	DEP	B	RDPY	4		1548	B U63		11
164	3	140		B	PUTX	4		1552	B 363		11
165	3	150		DCW	&QQ2	3		1558	P32		12
166	3	160		B	SPOUT	4		1559	B N42		12
167	3	170		MLC	NM2,NM1	7		1563	M Q76 Q31		12
168	3	180		B	SBNM1	4		1570	B V14		12
169	3	190		MLC	CL1,SUBSW	7		1574	M Q43 R81		12
170	3	200		B	PUTT	4		1581	B K91		12
171	3	210		DCW	&SBDCW	3		1587	R64		12
172	3	220	DEPDG	B	GETX	4		1588	B 335		13
173	3	230		DCW	&SY	3		1594	P71		13
174	3	240			&EOJ	3		1597	U49		13
175	3	250		C	SY,MCSEP	7		1598	C P71 P77		13
176	4	010		BE	GETT	5		1605	B T00 S		13
177	4	020		MLC	SY,NMPAR&2	7		1610	M P71 ?06		13
178	4	030		B	PUTT	4		1617	B K91		13
179	4	040		DCW	&NMDCW	3		1623	R92		14
180	4	050		B	DEPDG	4		1624	B V88		14
181	4	060	ACCPT	B	RDPY	4		1628	B U63		14
182	4	070		C	NM2,NULL	7		1632	C Q76 P23		14
183	4	080		BU	AC1	5		1639	B W62 /		14
184	4	090		MLC	@001@,DEC2	7		1644	M B12 Q85		14
185	4	100		MLC	VRDR,SIZE2	7		1651	M P44 Q82		14
186	4	110		B	*&8	4		1658	B W69		15
187	4	120	AC1	MLC	NULL-1,DEC2-1	7		1662	M P22 Q84		15
188	4	130		B	READMC	4		1669	B L68		15
189	4	140		B	SBNM1	4		1673	B V14		15
190	4	150		BCE	*&8,EDIT,K	8		1677	B W92 Q55 K		15
191	4	160		B	PUTX	4		1685	B 363		15
192	4	170		DCW	&MESS19	3		1691	P59		15
193	4	180		B	PUTX	4		1692	B 363		16
194	4	190		DCW	&DD0	3		1698	P35		16
195	4	200		MLC	NM1,NM2	7		1699	M Q31 Q76		16
196	4	210		B	SPOUT	4		1706	B N42		16
197	4	220		MLC	CL1,SUBSW	7		1710	M Q43 R81		16

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
198	4	230		MLC	SIZE1,NMPAR&2		7	1717	M Q37 ?06		16
199	4	240		B	PUTT		4	1724	B K91		16
200	4	250		DCW	&SBDCW		3	1730	R64		17
201	5	010		B	PUTT		4	1731	B K91		17
202	5	020		DCW	&NMDCW		3	1737	R92		17
203	5	030		B	GETT		4	1738	B T00		17
204	5	040	DISPY	B	RDPY		4	1742	B U63		17
205	5	050		C	NM2,NULL		7	1746	C Q76 P23		17
206	5	060		BU	DISPY2		5	1753	B X76 /		17
207	5	070		MLC	@004@,DEC2		7	1758	M B15 Q85		18
208	5	080		MLC	VPRT,SIZE2		7	1765	M P47 Q82		18
209	5	090		B	*&8		4	1772	B X83		18
210	5	100	DISPY2	MLC	NULL-1,DEC2-1		7	1776	M P22 Q84		18
211	5	110		C	SIZE2,VPCH		7	1783	C Q82 P50		18
212	5	120		BU	*&12		5	1790	B Y06 /		18
213	5	130		MLC	NULL,SIZE2		7	1795	M P23 Q82		19
214	5	140		B	*&8		4	1802	B Y13		19
215	5	150		MLC	@001@,SIZE2		7	1806	M B12 Q82		19
216	5	160		B	PUTX		4	1813	B 363		19
217	5	170		DCW	&QQ1		3	1819	P29		19
218	5	180		B	SPOUT		4	1820	B N42		19
219	5	190	BGDPY	MLC	NULL,TEMP		7	1824	M P23 P65		19
220	5	200		MLC	&INPUT1,X2		7	1831	M B18 094		20
221	5	210	GETSYM	B	GETX		4	1838	B 335		20
222	5	220		DCW	&SY		3	1844	P71		20
223	5	230			&EOJ		3	1847	U49		20
224	5	240		C	SY,MCSEP		7	1848	C P71 P77		20
225	5	250		BE	TSTDPY		5	1855	B Z75 S		20
226	6	010		MLC	SY,2&X2		7	1860	M P71 0!2		20
227	6	020		A	@001@,TEMP		7	1867	A B12 P65		21
228	6	030		A	@003@,X2		7	1874	A B07 094		21
229	6	040		C	TEMP,@009@		7	1881	C P65 B21		21
230	6	050		BE	DPY2		5	1888	B Z09 S		21
231	6	060		C	TEMP,@015@		7	1893	C P65 B24		21
232	6	070		BU	GETSYM		5	1900	B Y38 /		21
233	6	080		B	DPY1		4	1905	B Z21		22
234	6	090	DPY2	C	SY,VK		7	1909	C P71 P38		22
235	6	100		BU	GETSYM		5	1916	B Y38 /		22
236	6	110	DPY1	B	IOER		4	1921	B O26		22
237	6	120		MLC	NM1,NMPAR&2		7	1925	M Q31 ?06		22
238	6	130		B	PUTT		4	1932	B K91		22
239	6	140		DCW	&NMDCW		3	1938	R92		22
240	6	150		B	SBNM1		4	1939	B V14		23
241	6	160		MLC	CL1,SUBSW		7	1943	M Q43 R81		23
242	6	170		MLC	SIZE1,NMPAR&2		7	1950	M Q37 ?06		23
243	6	180		B	PUTT		4	1957	B K91		23
244	6	190		DCW	&SBDCW		3	1963	R64		23
245	6	200		B	PUTT		4	1964	B K91		23
246	6	210		DCW	&NMDCW		3	1970	R92		23
247	6	220		B	BGDPY		4	1971	B Y24		24

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
248	6	230	TSTDPY	C	TEMP, NULL		7	1975	C P65 P23		24
249	6	240		BE	GETT		5	1982	B T00 S		24
250	6	250		B	IOER		4	1987	B O26		24
251	7	010	NMRIC	B	READ		4	1991	B L83		24
252	7	020		MLC	NM2, GL		7	1995	M Q76 R51		24
253	7	030		MLC	@N@, OUTP1		7	2002	M B25 M98		24
254	7	040		MLC	PCT, TYPE2&1		7	2009	M R52 Q95		25
255	7	050		BCE	ALPHA, OPR, 0	IS IT NUMERIC OR ALPHABETIC	8	2016	B !77 Q28 0		25
256	7	060		C	SIZE1, ONE		7	2024	C Q37 P26		25
257	7	070		BE	NMRIC1		5	2031	B !47 S		25
258	7	080		MLC	&L19B, LAB		7	2036	M B28 P74		25
259	7	090		B	SBTST		4	2043	B J30		25
260	7	100	NMRIC1	BCE	*&12, OPR-2, %		8	2047	B !66 Q26 %		26
261	7	110		MLC	&L19, LAB		7	2055	M B31 P74		26
262	7	120		B	SBTST		4	2062	B J30		26
263	7	130		MLC	&L19A, LAB		7	2066	M B34 P74		26
264	7	140		B	SBTST		4	2073	B J30		26
265	7	150	ALPHA	C	SIZE1, ONE		7	2077	C Q37 P26		26
266	7	160		BE	ALPHA1		5	2084	B J00 S		27
267	7	170		MLC	&L22, LAB		7	2089	M B37 P74		27
268	7	180		B	SBTST		4	2096	B J30		27
269	7	190	ALPHA1	BCE	*&12, OPR-2, %		8	2100	B J19 Q26 %		27
270	7	200		MLC	&L21, LAB		7	2108	M B40 P74		27
271	7	210		B	SBTST		4	2115	B J30		27
272	7	220		MLC	&L21A, LAB		7	2119	M B43 P74		28
273	7	230		B	SBTST		4	2126	B J30		28
274	7	240	SBTST	MLC	NULL, SIZE3		7	2130	M P23 R27		28
275	7	250		BWZ	*&5, NM1, B		8	2137	V J49 Q31 B		28
276	8	010		B	*&8		4	2145	B J56		28
277	8	020		A	@001@, SIZE3		7	2149	A B12 R27		28
278	8	030		BWZ	*&5, NM2, B		8	2156	V J68 Q76 B		29
279	8	040		B	*&8		4	2164	B J75		29
280	8	050		A	@002@, SIZE3		7	2168	A B46 R27		29
281	8	060		MLC	BLKS-1, SIZE3-1		7	2175	M P82 R26		29
282	8	070		C	WM1, @002@		7	2182	C Q46 B46		29
283	8	080		BH	STOP1A		5	2189	B K42 U		29
284	8	090		B	PUTX		4	2194	B 363		30
285	8	100		DCW	&MESS15		3	2200	P56		30
286	8	110		B	STOP1A		4	2201	B K42		30
287	8	120	STOP	B	READMC		4	2205	B L68		30
288	8	130		BWZ	STOP1, NM1-2, 2	IS IT A NUMERIC LITERAL	8	2209	V K28 Q29 2		30
289	8	140		MLC	&STPNM, LAB		7	2217	M B49 P74		30
290	8	150		B	*&8		4	2224	B K35		30
291	8	160	STOP1	MLC	&STPLIT, LAB		7	2228	M B52 P74		31
292	8	170		MLC	PCT, NM1&1		7	2235	M R52 Q32		31
293	8	180	STOP1A	B	OUTLST		4	2242	B K69		31
294	8	190		B	OUTPAR		4	2246	B M87		31
295	8	200		B	GETT		4	2250	B T00		31
296	8	210	COMOUT	B	OUTLST		4	2254	B K69		31
297	8	220		B	PUTX		4	2258	B 363		31

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
298	8	230		DCW	&MCSEP	3		2264	P77		32
299	8	240		B	GETT	4		2265	B T00		32
300	8	250	OUTLST	SBR	OUTLB1&3	4		2269	H K90		32
301	9	010		MLC	LAB, LBADDR	7		2273	M P74 K86		32
302	9	020		B	PUTT	4		2280	B K91		32
303	9	030	LEADDR	DCW	*	3		2286	K86		32
304	9	040	OUTLB1	B	*	4		2287	B K90		32
305	9	050	PUTT	SBR	X2	4		2291	H 094		33
306	9	060		MLC	2&X2, X3	7		2295	M 0!2 099		33
307	9	070	PUTT1	BCE	PUTTBB, 0&X3, %	8		2302	B L35 0?0 %		33
308	9	080		MLC	2&X3, SY	7		2310	M 0?2 P71		33
309	9	090		B	PUTX	4		2317	B 363		33
310	9	100		DCW	&SY	3		2323	P71		33
311	9	110		A	@003@, X3	7		2324	A B07 099		34
312	9	120		B	PUTT1	4		2331	B L02		34
313	9	130	PUTTBB	A	@003@, X2	7		2335	A B07 094		34
314	9	140		B	0&X2	4		2342	B 0!0		34
315	9	150	OUTOP	SBR	OUTBB&3	4		2346	H L67		34
316	9	160		B	PUTX	4		2350	B 363		34
317	9	170		DCW	&OPR	3		2356	Q28		34
318	9	180		B	PUTX	4		2357	B 363		35
319	9	190		DCW	&VOP	3		2363	P80		35
320	9	200	OUTBB	B	*	4		2364	B L67		35
321	9	210	READMC	SBR	READBB&3	4		2368	H M21		35
322	9	220		MLC	@B@, READ3	7		2372	M A97 M30		35
323	9	230		B	READ4	4		2379	B L94		35
324	9	240	READ	SBR	READBB&3	4		2383	H M21		35
325	9	250		MLC	@N@, READ3	7		2387	M B25 M30		36
326	10	010	READ4	MLC	&INPUT1, X2	7		2394	M B55 094		36
327	10	020	READ1	B	GETX	4		2401	B 335		36
328	10	030		DCW	&SY	3		2407	P71		36
329	10	040			&EOJ	3		2410	U49		36
330	10	050		C	SY, MCSEP	7		2411	C P71 P77		36
331	10	060	READBB	BE	*	5		2418	B M22 S		36
332	10	070		MLC	SY, 2&X2	7		2423	M P71 0!2		37
333	10	080	READ3	B	READ2	4		2430	B M76		37
334	10	090		C	SY, VK	7		2434	C P71 P38		37
335	10	100		BU	*&12	5		2441	B M57 /		37
336	10	110		A	@021@, X2	7		2446	A B58 094		37
337	10	120		B	READ1	4		2453	B M01		37
338	10	130		BWZ	*&12, SY-1, 2	8		2457	V M76 P70 2		38
339	10	140		A	@045@, X2	7		2465	A B61 094		38
340	10	150		B	READ1	4		2472	B M01		38
341	10	160	READ2	A	@003@, X2	7		2476	A B07 094		38
342	10	170		B	READ1	4		2483	B M01		38
343	10	180	OUTPAR	SBR	OUTPBB&3	4		2487	H N41		38
344	10	190		B	PUTT	4		2491	B K91		38
345	10	200		DCW	&INPUT1	3		2497	Q29		39
346	10	210	OUTP1	B	OUTP2	4		2498	B N31		39
347	10	220		BCE	*&8, OPR-2, \$	8		2502	B N17 Q26 \$		39

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
348	10	230		MLC	BLKS,OPR-2		7	2510	M P83 Q26		39
349	10	240		MLC	OPR,SIZE3-3		7	2517	M Q28 R24		39
350	10	250		B	PUTT		4	2524	B K91		39
351	11	010		DCW	&INPUT3		3	2530	R19		39
352	11	020	OUTP2	B	PUTX		4	2531	B 363		40
353	11	030		DCW	&MCSEP		3	2537	P77		40
354	11	040	OUTPBB	B	*		4	2538	B N41		40
355	11	050	SPOUT	SBR	SPBB&3		4	2542	H N70		40
356	11	060		MLC	PCT,TYPE2&1		7	2546	M R52 Q95		40
357	11	070		B	PUTT		4	2553	B K91		40
358	11	080		DCW	&DPYCNT		3	2559	Q71		40
359	11	090		B	PUTX		4	2560	B 363		41
360	11	100		DCW	&MCSEP		3	2566	P77		41
361	11	110	SPBB	B	*		4	2567	B N70		41
362	11	120	GET	B	READ		4	2571	B L83		41
363	11	130		MLC	&GETLB,LAB		7	2575	M B64 P74		41
364	11	140		MLC	NM2,SIZE1-3		7	2582	M Q76 Q34		41
365	11	150		MLC	PCT,SIZE1-2		7	2589	M R52 Q35		41
366	11	160		B	STOP1A		4	2596	B K42		42
367	11	170	MVGRP	MLC	&LGPMOV,LAB		7	2600	M B67 P74		42
368	11	180		B	IOPUT&7		4	2607	B O18		42
369	11	190	IOPUT	MLC	&PUTLB,LAB		7	2611	M B70 P74		42
370	11	200		B	READMC		4	2618	B L68		42
371	11	210		B	STOP1&7		4	2622	B K35		42
372	11	220	IOER	SBR	IOERBB&3		4	2626	H O90		42
373	11	230		BWZ	IOERPT,NM1-2,2		8	2630	V O58 Q29 2		43
374	11	240		BCE	*&5,SIZE1-5,0		8	2638	B O50 Q32 0		43
375	11	250		B	IOERPT		4	2646	B O58		43
376	12	010		BWZ	IOERBB,SIZE1-2,2		8	2650	V O87 Q35 2		43
377	12	020	IOERPT	B	PUTX		4	2658	B 363		43
378	12	030		DCW	&MCSEP		3	2664	P77		43
379	12	040		B	OUTOP		4	2665	B L46		43
380	12	050		B	PUTX		4	2669	B 363		44
381	12	060		DCW	&MESS10		3	2675	P53		44
382	12	070		B	PUTX		4	2676	B 363		44
383	12	080		DCW	&MCSEP		3	2682	P77		44
384	12	090		B	GETT		4	2683	B T00		44
385	12	100	IOERBB	B	*		4	2687	B O90		44
386	12	110	OPEN	B	READMC		4	2691	B L68		44
387	12	120		MLC	&OPNLAB,LAB		7	2695	M B73 P74		45
388	12	130		B	STOP1&7		4	2702	B K35		45
389	12	140	CLOSE	B	READMC		4	2706	B L68		45
390	12	150		MLC	&CLSLAB,LAB		7	2710	M B76 P74		45
391	12	160		B	STOP1&7		4	2717	B K35		45
392	12	170	NULL	EQU	*&3			2723			
393	12	180	ONE	DCW	@000001@		6	2726			45
394	12	190	QQ1		@.Q1@		3	2729			45
395	12	200	QQ2		@.Q2@		3	2732			46
396	12	210	DD0		@.D0@		3	2735			46
397	12	220	VK		@.KK@		3	2738			46

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
398	12	230	VN		@.VN@		3	2741			46
399	12	240	VRDR		@*80@		3	2744			46
400	12	250	VPRT		@*83@		3	2747			46
401	13	010	VPCH		@*88@		3	2750			46
402	13	020	MESS10		@.Y7@		3	2753			47
403	13	030	MESS15		@.R8@		3	2756			47
404	13	040	MESS19		@.X9@		3	2759			47
405	13	050	MESS21		@.Z4@		3	2762			47
406	13	060	TEMP		#3		3	2765			47
407	13	070	VEOP		@.EP@		3	2768			47
408	13	080	SY		#3		3	2771			47
409	13	090	LAB		#3		3	2774			48
410	13	100	MCSEP		@.MC@		3	2777			48
411	13	110	VOP		@.OP@		3	2780			48
412	13	120	BLKS	EQU	*&3			2783			
413	13	130	BLANKS	EQU	*&1			2781			
414	13	140		DCW	#44		44	2824			50
415	13	150		DC	@|@		1	2825			50
416	13	160	OPR	DCW	#3		3	2828			50
417	13	170	INPUT1	DA	1X45			2829	2873		50
418	13	180	NM1		1,3			2831		FIELD	50
419	13	190	SIZE1		4,9			2837		FIELD	50
420	13	200	DEC1		10,12			2840		FIELD	51
421	13	210	CL1		13,15			2843		FIELD	51
422	13	220	WM1		16,18			2846		FIELD	51
423	13	230	TYPE1		19,21			2849		FIELD	51
424	13	240	JUST		22,24			2852		FIELD	51
425	13	250	EDIT		25,27			2855		FIELD	51
426	14	010	BLK		28,30			2858		FIELD	52
427	14	020	MASK		31,33			2861		FIELD	52
428	14	030	COBMSK		34,36			2864		FIELD	52
429	14	040	ED1		37,39			2867		FIELD	52
430	14	050	ED2		40,42			2870		FIELD	52
431	14	060	CHCNT		43,45			2873		FIELD	52
432	14	070	INPUT2	DA	1X45			2874	2918		53
433	14	080	NM2		1,3			2876		FIELD	53
434	14	090	SIZE2		4,9			2882		FIELD	53
435	14	100	DEC2		10,12			2885		FIELD	53
436	14	110	CL2		13,15			2888		FIELD	53
437	14	120	WM2		16,18			2891		FIELD	53
438	14	130	TYPE2		19,21			2894		FIELD	54
439	14	140			22,45			2918		FIELD	54
440	14	150	INPUT3	DA	1X9			2919	2927		54
441	14	160	NM3		1,3			2921		FIELD	54
442	14	170	SIZE3		4,9			2927		FIELD	54
443	14	180	ILIST	DA	1X24			2928	2951		54
444	14	190	I		1,3			2930		FIELD	55
445	14	200	I1		4,6			2933		FIELD	55
446	14	210	I2		7,9			2936		FIELD	55
447	14	220	I3		10,12			2939		FIELD	55

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
448	14	230	K1		13,15			2942		FIELD	55
449	14	240	K2		16,18			2945		FIELD	55
450	14	250	OP		19,21			2948		FIELD	56
451	15	010	GL		22,24			2951		FIELD	56
452	15	020	PCT	DCW	@%@		1	2952			56
453	15	030	DPYCNT	EQU	CHCNT-2			2871			
454	15	040	STPLIT	EQU	*&1			2953			
455	15	050		DCW	@.W8%@		4	2956			56
456	15	060	STPNM	EQU	*&1			2957			
457	15	070		DCW	@.E2.W8%@		7	2963			56
458	15	080	SBDCW	EQU	*&1			2964			
459	15	090	SUBSW	EQU	SBDCW&17			2981			
460	15	100		DCW	@#DC.LCDCW.OP @ @.MC#DC%@		28	2991			57
461	15	110	NMDCW	EQU	*&1			2992			
462	15	120		DCW	@#DC.LCDCW.OP@		12	3003			58
463	15	130	NMPAR	EQU	*&1			3004			
464	15	140		DCW	@ .MC#DC%@		10	3013			58
465	15	150	L19	EQU	*&1			3014			
466	15	160		DCW	@.M2.M3.M4.F0%@		13	3026			58
467	15	170	L19A	EQU	*&1			3027			
468	15	180		DCW	@.M6.M3.J9.I5.F0%@		16	3042			59
469	15	190	L19B	EQU	*&1			3043			
470	15	200		DCW	@.M5%@		4	3046			59
471	15	210	L21	EQU	*&1			3047			
472	15	220		DCW	@.N1.N2.N3.K0.M9.S3.F0%@		22	3068			60
473	15	230	L21A	EQU	*&1			3069			
474	15	240		DCW	@.M7.M8.N3.S3.M9.K0.I5.F0%@		25	3093			61
475	15	250	L22	EQU	*&1			3094			
476	16	010		DCW	@.G8%@		4	3097			61
477	16	020	LGPMOV	EQU	*&1			3098			
478	16	030		DCW	@.N8%@	READ MOVE	4	3101			61
479	16	040	GETLB	EQU	*&1			3102			
480	16	050		DCW	@.W3%@	READ	4	3105			61
481	16	060	PUTLB	EQU	*&1			3106			
482	16	070		DCW	@.W2%@	WRITE	4	3109			62
483	16	080	OPNLAB	EQU	*&1			3110			
484	16	090		DCW	@.Z1%@	OPEN	4	3113			62
485	16	100	CLSLAB	EQU	*&1			3114			
486	16	110		DCW	@.Z2%@	CLOSE	4	3117			62
487	16	120	TABLE	EQU	*&1			3118			
488	16	130		DCW	&STOP		3	3120	K05		62
489	16	140			@)11@		3	3123			62
490	16	150			&DISPY		3	3126	X42		62
491	16	160			@)04@		3	3129			62
492	16	170			&ACCPY		3	3132	W28		63
493	16	180			@)07@		3	3135			63
494	16	190			&DEP		3	3138	V48		63
495	16	200			@*03@		3	3141			63
496	16	210			&NMRIC		3	3144	Z91		63
497	16	220			@\$10@		3	3147			63

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
498	16	230			&NMERIC		3	3150	Z91		63
499	16	240			@%10@		3	3153			64
500	16	250			&NMERIC		3	3156	Z91		64
501	17	010			@\$16@		3	3159			64
502	17	020			&NMERIC		3	3162	Z91		64
503	17	030			@%16@		3	3165			64
504	17	040			&GET		3	3168	N71		64
505	17	050			@)13@	READ	3	3171			64
506	17	060			&MVGRP		3	3174	000		65
507	17	070			@*36@	READ MOVE	3	3177			65
508	17	080			&IOPUT		3	3180	011		65
509	17	090			@)08@	WRITE	3	3183			65
510	17	100			&OPEN		3	3186	091		65
511	17	110			@)14@		3	3189			65
512	17	120			&CLOSE		3	3192	P06		65
513	17	130			@)09@		3	3195			66
514	17	140			@%@		1	3196			66
515	17	150		LTORG					3197		
				DCW	@B@		1	3197		LIT	66
		125			&TABLE		3	3200	A18	ADCON	66
					&6		1	3201		LIT	66
		148			&DPYCNT		3	3204	Q71	ADCON	66
					@003@		3	3207		LIT	66
					@0@		1	3208		LIT	67
					@1@		1	3209		LIT	67
					@001@		3	3212		LIT	67
					@004@		3	3215		LIT	67
		220			&INPUT1		3	3218	Q29	ADCON	67
					@009@		3	3221		LIT	67
					@015@		3	3224		LIT	67
					@N@		1	3225		LIT	68
		258			&L19B		3	3228	?43	ADCON	68
		261			&L19		3	3231	?14	ADCON	68
		263			&L19A		3	3234	?27	ADCON	68
		267			&L22		3	3237	?94	ADCON	68
		270			&L21		3	3240	?47	ADCON	68
		272			&L21A		3	3243	?69	ADCON	68
					@002@		3	3246		LIT	69
		289			&STPNM		3	3249	R57	ADCON	69
		291			&STPLIT		3	3252	R53	ADCON	69
		326			&INPUT1		3	3255	Q29	ADCON	69
					@021@		3	3258		LIT	69
					@045@		3	3261		LIT	69
		363			&GETLB		3	3264	A02	ADCON	69
		367			&LGPMOV		3	3267	?98	ADCON	70
		369			&PUTLB		3	3270	A06	ADCON	70
		387			&OPNLAB		3	3273	A10	ADCON	70
		390			&CLSLAB		3	3276	A14	ADCON	70
516	17	160		ORG	3797				3797		
517	17	170		DCW	@}@		1	3797			71

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
518	17	180		END	GETT				/ T00 080		72

CLEAR STORAGE 1 ,008015,019026,030,034041,045,053,0570571026 1
 CLEAR STORAGE 2 L068112,102106,113/101099/I99,027A070028)027B0010270B0261,001/001113I0 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	010	000	JOB	1401 COBOL - I03						
102	1	020		CTL	631 11						
103	1	030	X1	EQU	89			0089			
104	1	040	X2	EQU	94			0094			
105	1	050	X3	EQU	99			0099			
106	1	060	GETX	EQU	335			0335			
107	1	070	PUTX	EQU	363			0363			
108	1	080	SUPER	EQU	351			0351			
109	1	090		ORG	1300				1300		
110	1	100	GETT	MRCM	BLANKS, INPUT1&1	7		1300	P C80	B38	4
111	1	110		MRCM	BLANKS, INPUT2	7		1307	P C80	B82	4
112	1	120		MRCM	BLANKS, INPUT3	7		1314	P C80	C27	4
113	1	130		MLC	NULL, SW6	7		1321	M D33	C78	4
114	1	140		MLC	NULL	4		1328	M D33		4
115	1	150	GETSY	B	GETX GET UNTIL *\$%	4		1332	B 335		4
116	1	160		DCW	&SY	3		1338	D30		4
117	1	170			&EOJ	3		1341	V38		5
118	1	180		C	SY, PASSSY	7		1342	C D30	D51	5
119	1	190		BE	GETSY2	5		1349	B T65	S	5
120	1	200		B	PUTX	4		1354	B 363		5
121	1	210		DCW	&SY	3		1360	D30		5
122	1	220		B	GETSY	4		1361	B T32		5
123	1	230	GETSY2	B	PUTX	4		1365	B 363		5
124	1	240		DCW	&PASSSY	3		1371	D51		6
125	1	250		B	GETX	4		1372	B 335		6
126	2	010		DCW	&OPR	3		1378	B36		6
127	2	020			&EOJ	3		1381	V38		6
128	2	030		MLC	&TABLE, X2 LOOK UP TABLE	7		1382	M E77	094	6
129	2	040	LKPA	C	5&X2, OPR	7		1389	C 015	B36	6
130	2	050		BE	LKP3	5		1396	B U20	S	6
131	2	060		BCE	LKP4, 0&X2, %	8		1401	B U31	010 %	7
132	2	070		A	&6, X2	7		1409	A E78	094	7
133	2	080		B	LKPA	4		1416	B T89		7
134	2	090	LKP3	MLC	2&X2, GETTA&3	7		1420	M 012	V37	7
135	2	100		B	CONTIN	4		1427	B U74		7
136	2	110	LKP4	BCE	CONTIN, OPR-2,	8		1431	B U74	B34	7
137	2	120		BCE	CONTIN, OPR-1, 9	8		1439	B U74	B35 9	8
138	2	130		BCE	CONTIN, OPR-2, ,	8		1447	B U74	B34 ,	8
139	2	140		BCE	CONTIN, OPR, B	8		1455	B U74	B36 B	8
140	2	150		B	PUTX	4		1463	B 363		8
141	2	160		DCW	&OPR	3		1469	B36		8
142	2	170		B	GETSY	4		1470	B T32		8
143	2	180	CONTIN	B	GETX	4		1474	B 335		8
144	2	190		DCW	&SY	3		1480	D30		9
145	2	200			&EOJ	3		1483	V38		9
146	2	210		B	PUTX	4		1484	B 363		9
147	2	220		DCW	&OPR	3		1490	B36		9

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	2	230		B	PUTX		4	1491	B 363		9
149	2	240		DCW	&VOP		3	1497	D42		9
150	2	250		BCE	SUBSC,OPR,B		8	1498	B R19 B36 B		9
151	3	010		B	READ		4	1506	B V52		10
152	3	020		BCE	ADD,OPR-2,		8	1510	B W45 B34		10
153	3	030		BCE	ADD,OPR-1,9		8	1518	B W45 B35 9		10
154	3	040		BCE	RELAT,OPR-2,,		8	1526	B X75 B34 ,		10
155	3	050	GETTA	B	*	PERFORM MATRIX	4	1534	B V37		10
156	3	060	EOJ	B	PUTX		4	1538	B 363		10
157	3	070		DCW	&VEOP		3	1544	D45		10
158	3	080		B	SUPER		4	1545	B 351		11
159	3	090		DCW	@I04@		3	1551			11
160	3	100	READ	SBR	READBB&3		4	1552	H V83		11
161	3	110		MLC	INP1,X2		7	1556	M D27 094		11
162	3	120	READ1	B	GETX		4	1563	B 335		11
163	3	130		DCW	&SY		3	1569	D30		11
164	3	140			&EOJ		3	1572	V38		11
165	3	150		C	SY,MCSEP		7	1573	C D30 D48		12
166	3	160	READBB	BE	*		5	1580	B V84 S		12
167	3	170		MLC	SY,2&X2		7	1585	M D30 0!2		12
168	3	180		C	SY,VK		7	1592	C D30 D54		12
169	3	190		BU	*&12		5	1599	B W15 /		12
170	3	200		A	@021@,X2		7	1604	A E81 094		12
171	3	210		B	READ1		4	1611	B V63		13
172	3	220		BWZ	*&12,SY-1,2		8	1615	V W34 D29 2		13
173	3	230		A	@045@,X2		7	1623	A E84 094		13
174	3	240		B	READ1		4	1630	B V63		13
175	3	250		A	@003@,X2		7	1634	A E87 094		13
176	4	010		B	READ1		4	1641	B V63		13
177	4	020	ADD	B	BOTHCK		4	1645	B Q28		13
178	4	030		B	SIZE		4	1649	B J72		14
179	4	040		B	MNYWMK		4	1653	B J33		14
180	4	050		B	SBTST,OPR-1,*		8	1657	B O49 B35 *		14
181	4	060		B	DEC		4	1665	B !08		14
182	4	070		BCE	ADD2,OPR-1,9	IS IT AUG OR SUB	8	1669	B W85 B35 9		14
183	4	080		B	NUMER		4	1677	B J02		14
184	4	090		B	ADD1		4	1681	B X08		14
185	4	100	ADD2	BCE	ADAUG,AUGSW,0		8	1685	B X35 C79 0		15
186	4	110	ADD3	BCE	ADD1,CL1,X		8	1693	B X08 B51 X		15
187	4	120		MZ	AZONE,SW5		7	1701	Y M71 C77		15
188	4	130	ADD1	B	OUTSW		4	1708	B Z17		15
189	4	140		MLN	@5@,AUGSW		7	1712	D E88 C79		15
190	4	150		B	DIAG1		4	1719	B K50		15
191	4	160		BCE	REL1,OPR-1,9		8	1723	B Y03 B35 9		16
192	4	170		B	OUTP		4	1731	B Z50		16
193	4	180	ADAUG	BCE	ADD3,CL2,9		8	1735	B W93 B96 9		16
194	4	190		B	ADD1		4	1743	B X08		16
195	4	200	MOVE	B	BOTHCK		4	1747	B Q28		16
196	4	210		B	DEC		4	1751	B !08		16
197	4	220		B	SIZE		4	1755	B J72		16

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
198	4	230		B	SBTST		4	1759	B 049		17
199	4	240		B	MNYWMK		4	1763	B J33		17
200	4	250		B	NUMER		4	1767	B J02		17
201	5	010		B	RELOUT		4	1771	B X99		17
202	5	020	RELAT	B	BOTHCK		4	1775	B Q28		17
203	5	030		B	NUMER		4	1779	B J02		17
204	5	040		B	SIZE		4	1783	B J72		17
205	5	050		B	MNYWMK		4	1787	B J33		18
206	5	060		B	SBTST		4	1791	B 049		18
207	5	070		B	FGSW		4	1795	B N96		18
208	5	080	RELOUT	B	OUTSW		4	1799	B Z17		18
209	5	090	REL1	MLC	PCT, SIZE3&1		7	1803	M E74	C36	18
210	5	100		B	OUTP		4	1810	B Z50		18
211	5	110	POSNEG	B	ONECK		4	1814	B R04		18
212	5	120		B	MNYWMK		4	1818	B J33		19
213	5	130		B	OUTSW		4	1822	B Z17		19
214	5	140		MLC	PCT, NM2&1		7	1826	M E74	B85	19
215	5	150		B	OUTP		4	1833	B Z50		19
216	5	160	GIV	B	BOTHCK		4	1837	B Q28		19
217	5	170		B	SBTST		4	1841	B 049		19
218	5	180		B	MNYWMK		4	1845	B J33		19
219	5	190		B	OUTSW		4	1849	B Z17		20
220	5	200		MZ	AZONE, SW5	SET A ZONE FOR SW5	7	1853	Y M71	C77	20
221	5	210		B	DIAG4		4	1860	B K15		20
222	5	220		B	LSTMC1		4	1864	B Y80		20
223	5	230	LSTMC	B	ONECK		4	1868	B R04		20
224	5	240		B	MNYWMK		4	1872	B J33		20
225	5	250		B	OUTSW		4	1876	B Z17		20
226	6	010	LSTMC1	MLC	&LSTMC2, DGBB&3		7	1880	M E91	N95	21
227	6	020		MLC	NULL, AUGSW		7	1887	M D33	C79	21
228	6	030		B	DIAG6		4	1894	B N46		21
229	6	040	LSTMC2	BCE	OUTPAR&4, OPR-2, .		8	1898	B Z43	B34 .	21
230	6	050		MLC	PCT, NM3&1		7	1906	M E74	C30	21
231	6	060		B	OUTP		4	1913	B Z50		21
232	6	070	OUTSW	SBR	SWBB&3	PUTOUT SWITCHES	4	1917	H Z38		22
233	6	080		B	PUTX		4	1921	B 363		22
234	6	090		DCW	&SW3		3	1927	C75		22
235	6	100		B	PUTX		4	1928	B 363		22
236	6	110		DCW	&SW6		3	1934	C78		22
237	6	120	SWBB	B	*		4	1935	B Z38		22
238	6	130	OUTPAR	B	OUTSW		4	1939	B Z17		22
239	6	140		MLC	PCT, TYPE2&1		7	1943	M E74	C03	23
240	6	150	OUTP	MLC	INP1, X3		7	1950	M D27	099	23
241	6	160	PUTT1	BCE	OUT, 0&X3, %		8	1957	B Z90	0?0 %	23
242	6	170		MLC	2&X3, SY		7	1965	M 0?2	D30	23
243	6	180		B	PUTX		4	1972	B 363		23
244	6	190		DCW	&SY		3	1978	D30		23
245	6	200		A	@003@, X3		7	1979	A E87	099	24
246	6	210		B	PUTT1		4	1986	B Z57		24
247	6	220	OUT	B	PUTX		4	1990	B 363		24

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
248	6	230		DCW	&MCSEP		3	1996	D48		24
249	6	240		MLC	BLKS,NM3&1		7	1997	M C82 C30		24
250	6	250		B	GETT		4	2004	B T00		24
251	7	010	DEC	SBR	DECBB&3		4	2008	H J01		24
252	7	020		BWZ	*&5,NM1-1,2		8	2012	V !24 B38 2		25
253	7	030		B	DECBB		4	2020	B !98		25
254	7	040		BWZ	*&5,NM2-1,2		8	2024	V !36 B83 2		25
255	7	050		B	DECBB		4	2032	B !98		25
256	7	060		MLC	@001@,TYPE1-2		7	2036	M E94 B55		25
257	7	070		ZA	DEC1,TEMP		7	2043	? B48 D63		25
258	7	080		S	DEC2,TEMP		7	2050	S B93 D63		26
259	7	090		MCS	TEMP,TEMP6		7	2057	Z D63 D69		26
260	7	100		BCE	DECBB,TEMP6,		8	2064	B !98 D69		26
261	7	110		BM	DECBB,TEMP		8	2072	V !91 D63 K		26
262	7	120		MZ	AZONE,SW2		7	2080	Y M71 C74		26
263	7	130		B	DECBB		4	2087	B !98		27
264	7	140	DECBB	MZ	BZONE,SW2		7	2091	Y T00 C74		27
265	7	150	DECBB	B	*		4	2098	B J01		27
266	7	160	NUMER	SBR	NUMBB&3	IS IT NUMERIC TO NUMERIC	4	2102	H J32		27
267	7	170		BCE	NUMBB,CL1,X		8	2106	B J29 B51 X		27
268	7	180		BCE	NUMBB,CL2,X		8	2114	B J29 B96 X		27
269	7	190		MZ	AZONE,SW5		7	2122	Y M71 C77		28
270	7	200	NUMBB	B	*		4	2129	B J32		28
271	7	210	MNYWMK	SBR	MNYBB&3		4	2133	H J71		28
272	7	220		C	@001@,WM1		7	2137	C E94 B54		28
273	7	230		BH	MNY1		5	2144	B J61 U		28
274	7	240		C	WM2,@002@		7	2149	C B99 E97		28
275	7	250		BH	MNYBB		5	2156	B J68 U		28
276	8	010	MNY1	MZ	AZONE,SW1		7	2161	Y M71 C73		29
277	8	020	MNYBB	B	*		4	2168	B J71		29
278	8	030	SIZE	SBR	SIZEBB&3	COMPARISON OF SIZES	4	2172	H K14		29
279	8	040		C	SIZE1,SIZE2		7	2176	C B45 B90		29
280	8	050		BE	SIZEBB		5	2183	B K11 S		29
281	8	060		BH	SIZEB		5	2188	B K04 U		29
282	8	070		MZ	AZONE,SW3		7	2193	Y M71 C75		29
283	8	080		B	SIZEBB		4	2200	B K11		30
284	8	090	SIZEB	MZ	BZONE,SW3		7	2204	Y T00 C75		30
285	8	100	SIZEBB	B	*		4	2211	B K14		30
286	8	110	DIAG4	SBR	DGBB4&3		4	2215	H K49		30
287	8	120		BWZ	*&5,NM2-1,2		8	2219	V K31 B83 2		30
288	8	130		B	DGBB4		4	2227	B K46		30
289	8	140		BCE	DGBB4,CL2,9		8	2231	B K46 B96 9		30
290	8	150		B	PUTX		4	2239	B 363		31
291	8	160		DCW	&MESS2		3	2245	D75		31
292	8	170	DGBB4	B	*		4	2246	B K49		31
293	8	180	DIAG1	SBR	DGBB&3	ARITHMETIC DIAGNOSTICS	4	2250	H N95		31
294	8	190		BWZ	*&5,NM1-1,2		8	2254	V K66 B38 2		31
295	8	200		B	DIAG1A		4	2262	B L59		31
296	8	210		ZA	SIZE1,TEMP6	IS FIELD1	7	2266	? B45 D69		31
297	8	220		BM	*&5,DEC1		8	2273	V K85 B48 K		32

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
298	8	230		B	*&8			4 2281	B K92		32
299	8	240		S	DEC1,TEMP6			7 2285	S B48 D69		32
300	8	250		C	TEMP6,NINTN			7 2292	C D69 D39		32
301	9	010		BH	DIAG1B			5 2299	B L11 U		32
302	9	020		B	PUTX			4 2304	B 363		32
303	9	030		DCW	&MESS4			3 2310	D78		32
304	9	040	DIAG1B	ZA	SIZE1,TEMP6			7 2311	? B45 D69		33
305	9	050		A	DEC2,TEMP6			7 2318	A B93 D69		33
306	9	060		S	DEC1,TEMP6			7 2325	S B48 D69		33
307	9	070		BM	DIAG1A,TEMP6			8 2332	V L59 D69 K		33
308	9	080		C	TEMP6,TWYONE			7 2340	C D69 D35		33
309	9	090		BH	DIAG1A			5 2347	B L59 U		34
310	9	100		B	PUTX			4 2352	B 363		34
311	9	110		DCW	&MESS8			3 2358	D90		34
312	9	120	DIAG1A	BWZ	*&5,NM2-1,2			8 2359	V L71 B83 2		34
313	9	130		B	DIAG1C			4 2367	B M64		34
314	9	140		ZA	SIZE2,TEMP6			7 2371	? B90 D69		34
315	9	150		BM	*&5,DEC2			8 2378	V L90 B93 K		34
316	9	160		B	*&8			4 2386	B L97		35
317	9	170		S	DEC2,TEMP6			7 2390	S B93 D69		35
318	9	180		C	TEMP6,NINTN			7 2397	C D69 D39		35
319	9	190		BH	DIAG1D			5 2404	B M16 U		35
320	9	200		B	PUTX			4 2409	B 363		35
321	9	210		DCW	&MESS5			3 2415	D81		35
322	9	220	DIAG1D	ZA	SIZE2,TEMP6			7 2416	? B90 D69		35
323	9	230		A	DEC1,TEMP6			7 2423	A B48 D69		36
324	9	240		S	DEC2,TEMP6			7 2430	S B93 D69		36
325	9	250		BM	DIAG1C,TEMP6			8 2437	V M64 D69 K		36
326	10	010		C	TEMP6,TWYONE			7 2445	C D69 D35		36
327	10	020		BH	DIAG1C			5 2452	B M64 U		36
328	10	030		B	PUTX			4 2457	B 363		36
329	10	040		DCW	&MESS8			3 2463	D90		37
330	10	050	DIAG1C	BWZ	DIAG2,SW5,S			8 2464	V M79 C77 S		37
331	10	060		B	PUTX			4 2472	B 363		37
332	10	070		DCW	&MESS2			3 2478	D75		37
333	10	080	DIAG2	BM	*&5,NM1			8 2479	V M91 B39 K		37
334	10	090		B	DG2			4 2487	B N03		37
335	10	100		C	NM1,VA0Q			7 2491	C B39 D72		37
336	10	110		BU	DG3			5 2498	B N39 /		38
337	10	120	DG2	BM	*&5,NM2			8 2503	V N15 B84 K		38
338	10	130		B	DIAG6			4 2511	B N46		38
339	10	140		C	NM2,@GNN@			7 2515	C B84 F00		38
340	10	150		BE	DIAG6			5 2522	B N46 S		38
341	10	160		C	NM2,VA0Q			7 2527	C B84 D72		38
342	10	170		BE	DIAG6			5 2534	B N46 S		39
343	10	180	DG3	B	PUTX			4 2539	B 363		39
344	10	190		DCW	&MESS6			3 2545	D84		39
345	10	200	DIAG6	BWZ	DIAG6C,SW1,S			8 2546	V N74 C73 S		39
346	10	210		BCE	DIAG6D,TYPE1,G			8 2554	B N85 B57 G		39
347	10	220		BCE	DIAG6D,TYPE2,G			8 2562	B N85 C02 G		39

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
348	10	230		B	DGBB		4	2570	B N92		40
349	10	240	DIAG6C	B	PUTX		4	2574	B 363		40
350	10	250		DCW	&MESS13		3	2580	D93		40
351	11	010		B	DGBB		4	2581	B N92		40
352	11	020	DIAG6D	B	PUTX		4	2585	B 363		40
353	11	030		DCW	&MESS14		3	2591	D96		40
354	11	040	DGBB	B	*		4	2592	B N95		40
355	11	050	FGSW	SBR	FGSWBB&3		4	2596	H 048		41
356	11	060		MLC	NULL,FGCON		7	2600	M D33 C32		41
357	11	070		BM	*&5,NM1		8	2607	V 019 B39 K		41
358	11	080		B	FGSW1		4	2615	B 026		41
359	11	090		A	@001@,FGCON		7	2619	A E94 C32		41
360	11	100	FGSW1	BM	*&5,NM2		8	2626	V 038 B84 K		41
361	11	110		B	FGSWBB		4	2634	B 045		42
362	11	120		A	@002@,FGCON		7	2638	A E97 C32		42
363	11	130	FGSWBB	B	*		4	2645	B 048		42
364	11	140	SBTST	SBR	SBSBB&3		4	2649	H P08		42
365	11	150		MLC	NULL,SIZE3		7	2653	M D33 C35		42
366	11	160		BWZ	*&5,NM1,B		8	2660	V 072 B39 B		42
367	11	170		B	*&8		4	2668	B 079		42
368	11	180		A	@001@,SIZE3		7	2672	A E94 C35		43
369	11	190		BWZ	*&5,NM2,B		8	2679	V 091 B84 B		43
370	11	200		B	*&8		4	2687	B 098		43
371	11	210		A	@002@,SIZE3		7	2691	A E97 C35		43
372	11	220		MLC	BLKS-1,SIZE3-1		7	2698	M C81 C34		43
373	11	230	SBSBB	B	*		4	2705	B P08		43
374	11	240	CKNAM	SBR	X1	CHECK VALIDITY OF PARAMETERS	4	2709	H 089		44
375	11	250		MLC	2&X1,X2		7	2713	M 0|2 094		44
376	12	010		BWZ	DUMST,0&X2,2	IS NM-2 ZONED	8	2720	V P95 0|0 2		44
377	12	020		BWZ	CKNAM1,1&X2,2	IS NM-1 ZONED	8	2728	V P48 0|1 2		44
378	12	030		BWZ	CKNAMB,2&X2,2	IS NM ZONED	8	2736	V P84 0|2 2		44
379	12	040		B	DUMST		4	2744	B P95		44
380	12	050	CKNAM1	BWZ	*&5,3&X2,2	CHECK SIZE	8	2748	V P60 0|3 2		45
381	12	060		B	DUMST		4	2756	B P95		45
382	12	070		BWZ	*&5,9&X2,2	CHECK DEC	8	2760	V P72 0|9 2		45
383	12	080		B	DUMST		4	2768	B P95		45
384	12	090		BCE	*&5,12&X2,	CHECK CLASS	8	2772	B P84 0|J2		45
385	12	100		B	DUMST		4	2780	B P95		45
386	12	110	CKNAMB	A	@003@,X1		7	2784	A E87 089		46
387	12	120		B	0&X1		4	2791	B 0|0		46
388	12	130	DUMST	B	PUTX		4	2795	B 363		46
389	12	140		DCW	&MESS7		3	2801	D87		46
390	12	150		B	PUTX		4	2802	B 363		46
391	12	160		DCW	&WW6		3	2808	D57		46
392	12	170		B	PUTX		4	2809	B 363		46
393	12	180		DCW	&WW9		3	2815	D60		47
394	12	190		B	OUT		4	2816	B Z90		47
395	12	200	TWOCK	SBR	TWOBB&3		4	2820	H R03		47
396	12	210		B	TWONM		4	2824	B Q39		47
397	12	220	BOTHCK	SBR	TWOBB&3		4	2828	H R03		47

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
398	12	230		B	CKNAM		4	2832	B P09		47
399	12	240		DCW	&INPUT1		3	2838	B37		47
400	12	250	TWONM	B	CKNAM		4	2839	B P09		48
401	13	010		DCW	&INPUT2		3	2845	B82		48
402	13	020	GTSUB	BCE	*&5,NM1-2,Z		8	2846	B Q58 B37 Z		48
403	13	030		B	GTSUB1		4	2854	B Q73		48
404	13	040		BWZ	GTSUB1,NM1-1,2		8	2858	V Q73 B38 2		48
405	13	050		MRCM	GTREC,NM1&1		7	2866	P E03 B40		48
406	13	060	GTSUB1	BCE	*&5,NM2-2,Z		8	2873	B Q85 B82 Z		49
407	13	070		B	TWOBB		4	2881	B R00		49
408	13	080		BWZ	TWOBB,NM2-1,2		8	2885	V R00 B83 2		49
409	13	090		MRCM	GTREC,NM2&1		7	2893	P E03 B85		49
410	13	100	TWOBB	B	*		4	2900	B R03		49
411	13	110	ONECK	SBR	TWOBB&3		4	2904	H R03		49
412	13	120		B	CKNAM		4	2908	B P09		49
413	13	130		DCW	&INPUT1		3	2914	B37		50
414	13	140		B	GTSUB		4	2915	B Q46		50
415	13	150	SUBSC	MLC	&INPUT2,X2		7	2919	M F03 094		50
416	13	160		ZA	@N@,TEMP		7	2926	? F04 D63		50
417	13	170		B	SUBGTA	READ IN SUBSC. NAME AND SIZES	4	2933	B A30		50
418	13	180		MLN	TEMP-1,SBCALL	SAVE SUBSCRIPT LEVEL	7	2937	D D62 B81		50
419	13	190		B	GETX		4	2944	B 335		50
420	13	200		DCW	&SY		3	2950	D30		51
421	13	210			&EOJ		3	2953	V38		51
422	13	220		B	GETX		4	2954	B 335		51
423	13	230		DCW	&COBNM2	SAVE ELEMENTARY SIZE	3	2960	C17		51
424	13	240			&EOJ		3	2963	V38		51
425	13	250		MLC	@001@,NO		7	2964	M E94 A29		51
426	14	010		B	SUBGTB	GET SUBSCRIPT VARIABLE	4	2971	B A38		51
427	14	020		MLC	SIZE3,SIZE1	SAVE SIZE	7	2975	M C35 B45		52
428	14	030		MLC			1	2982	M		52
429	14	040		MLC		NAME	1	2983	M		52
430	14	050		MLC	WM3,DEC1	NO. OF WORDMARKS	7	2984	M C44 B48		52
431	14	060		MLC	NM3,TYPE2&3		7	2991	M C29 C05		52
432	14	070		B	SUBGTB	GET SUBSCRIPT VARIABLE	4	2998	B A38		52
433	14	080		A	@001@,NO		7	3002	A E94 A29		52
434	14	090		MLC	SIZE3,TYPE1	SAVE SIZE	7	3009	M C35 B57		53
435	14	100		MLC			1	3016	M		53
436	14	110		MLC		NAME	1	3017	M		53
437	14	120		MLC	WM3,JUST	NO. OF WORDMARKS	7	3018	M C44 B60		53
438	14	130		MLC	NM3,TYPE2&6		7	3025	M C29 C08		53
439	14	140		B	SUBGTB	GET SUBSCRIPT VARIABLE	4	3032	B A38		53
440	14	150		A	@001@,NO		7	3036	A E94 A29		53
441	14	160		MLC	SIZE3,MASK	SAVE SIZE	7	3043	M C35 B69		54
442	14	170		MLC			1	3050	M		54
443	14	180		MLC		NAME	1	3051	M		54
444	14	190		MLC	WM3,COBMSK	NO. OF WORDMARKS	7	3052	M C44 B72		54
445	14	200		MLC	NM3,TYPE2&9		7	3059	M C29 C11		54
446	14	210		B	SUBGTB		4	3066	B A38		54
447	14	220	MACLAB	MLC	NM3,MASK2	SAVE LABEL BUCKET	7	3070	M C29 C14		54

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
448	14	230		BCE	SUBS1,EDSW,?		8	3077	B ?92 C73 ?		55
449	14	240		B	PUTX		4	3085	B 363		55
450	14	250		DCW	&MESS19		3	3091	D99		55
451	15	010	SUBS1	C	SBCALL,NO	DO NO. OF VARIABLES	7	3092	C B81 A29		55
452	15	020		BE	SUBS2	AGREE WITH SUBSCRIPT LEVEL	5	3099	B A11 S		55
453	15	030		B	PUTX		4	3104	B 363		55
454	15	040		DCW	&MESS21		3	3110	E02		55
455	15	050	SUBS2	B	PUTX		4	3111	B 363		56
456	15	060		DCW	&SUBDEL		3	3117	B33		56
457	15	070		MLC	@%@, COBNM2&1		7	3118	M F05 C18		56
458	15	080		B	OUTP		4	3125	B Z50		56
459	15	090	SBCALL	EQU	CHCNT			3281			
460	15	100	COBNM2	EQU	TYPE2&15			3317			
461	15	110	WM3	EQU	NM3&15			3344			
462	15	120	MASK2	EQU	TYPE2&12			3314			
463	15	130	NO	DCW	#1		1	3129			56
464	15	140	SUBGTA	SBR	SBEX&3		4	3130	H B30		56
465	15	150		B	SUB1		4	3134	B A49		56
466	15	160	SUBGTB	SBR	SBEX&3		4	3138	H B30		57
467	15	170		MLC	&INPUT3,X2		7	3142	M F08 094		57
468	15	180	SUB1	S	EDSW		4	3149	S C73		57
469	15	190	SUB2	B	GETX		4	3153	B 335		57
470	15	200		DCW	&SY		3	3159	D30		57
471	15	210			&EOJ		3	3162	V38		57
472	15	220		C	SY, SUBDEL		7	3163	C D30 B33		57
473	15	230		BE	SUB3		5	3170	B B12 S		58
474	15	240		C	SY, MCSEP		7	3175	C D30 D48		58
475	15	250		BE	MACLAB		5	3182	B ?70 S		58
476	16	010		A	@5@, TEMP		7	3187	A E88 D63		58
477	16	020		MLC	SY, 2&X2		7	3194	M D30 012		58
478	16	030		A	@003@, X2		7	3201	A E87 094		58
479	16	040		B	SUB2		4	3208	B A53		59
480	16	050	SUB3	BCE	SBEX, EDIT3, K		8	3212	B B27 C53 K		59
481	16	060		A	@001@, EDSW		7	3220	A E94 C73		59
482	16	070	SBEX	B	*		4	3227	B B30		59
483	16	080	EDSW	EQU	SW1			3373			
484	16	090	EDIT3	EQU	NM3&24			3353			
485	16	100	SUBDEL	DCW	@.SD@		3	3233			59
486	16	110	OPR	DCW	#3		3	3236			59
487	16	120	INPUT1	DA	1X45			3237	3281		59
488	16	130	NM1		1, 3			3239		FIELD	60
489	16	140	SIZE1		4, 9			3245		FIELD	60
490	16	150	DEC1		10, 12			3248		FIELD	60
491	16	160	CL1		13, 15			3251		FIELD	60
492	16	170	WM1		16, 18			3254		FIELD	60
493	16	180	TYPE1		19, 21			3257		FIELD	60
494	16	190	JUST		22, 24			3260		FIELD	61
495	16	200	EDIT		25, 27			3263		FIELD	61
496	16	210	BLK		28, 30			3266		FIELD	61
497	16	220	MASK		31, 33			3269		FIELD	61

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
498	16	230	COBMSK		34,36			3272		FIELD	61
499	16	240	ED1		37,39			3275		FIELD	61
500	16	250	ED2		40,42			3278		FIELD	62
501	17	010	CHCNT		43,45			3281		FIELD	62
502	17	020	INPUT2	DA	1X45			3282	3326		62
503	17	030	NM2		1,3			3284		FIELD	62
504	17	040	SIZE2		4,9			3290		FIELD	62
505	17	050	DEC2		10,12			3293		FIELD	62
506	17	060	CL2		13,15			3296		FIELD	63
507	17	070	WM2		16,18			3299		FIELD	63
508	17	080	TYPE2		19,21			3302		FIELD	63
509	17	090			22,45			3326		FIELD	63
510	17	100	INPUT3	DA	1X45			3327	3371		63
511	17	110	NM3		1,3			3329		FIELD	63
512	17	120			4,6			3332		FIELD	64
513	17	130	SIZE3		7,9			3335		FIELD	64
514	17	140			10,45			3371		FIELD	64
515	17	150		DC	@%@		1	3372			65
516	17	160	SW1	DCW	0		1	3373			65
517	17	170	SW2	DC	0		1	3374			65
518	17	180	SW3	DC	0		1	3375			65
519	17	190	SW4	DCW	0		1	3376			65
520	17	200	SW5	DC	0		1	3377			65
521	17	210	SW6	DC	0		1	3378			65
522	17	220	AUGSW	DCW	0		1	3379			65
523	17	230	BLANKS	EQU	*&1			3380			
524	17	240		DCW	#44		44	3423			67
525	17	250		DC	@|@		1	3424			67
526	18	010	BLKS	EQU	BLANKS&2			3382			
527	18	020	INP1	DCW	&INPUT1		3	3427	B37		67
528	18	030	FGCON	EQU	SIZE3-3			3332			
529	18	040	AZONE	EQU	DIAG1C&7			2471			
530	18	050	BZONE	EQU	GETT			1300			
531	18	060	SY	DCW	#3		3	3430			67
532	18	070	TWYONE		@0002A@		5	3435			67
533	18	080	NINTN		@001I@		4	3439			67
534	18	090	VOP		@.OP@		3	3442			68
535	18	100	VEOP		@.EP@		3	3445			68
536	18	110	MCSEP		@.MC@		3	3448			68
537	18	120	PASSSY		@*.\$*@		3	3451			68
538	18	130	VK		@.KK@		3	3454			68
539	18	140	WW6		@.W6@		3	3457			68
540	18	150	WW9		@.W9@		3	3460			68
541	18	160	TEMP		#3		3	3463			69
542	18	170	TEMP6		#6		6	3469			69
543	18	180	VA0Q		@A0Q@		3	3472			69
544	18	190	MESS2		@.Q5@		3	3475			69
545	18	200	MESS4		@.Q7@		3	3478			69
546	18	210	MESS5		@.Q8@		3	3481			69
547	18	220	MESS6		@.Q9@		3	3484			69

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
548	18	230	MESS7		@@.R0@		3	3487			70
549	18	240	MESS8		@@.R1@		3	3490			70
550	18	250	MESS13		@@.R6@		3	3493			70
551	19	010	MESS14		@@.R7@		3	3496			70
552	19	020	MESS19		@@.X9@		3	3499			70
553	19	030	MESS21		@@.Z4@		3	3502			70
554	19	040	NULL	EQU	TWYONE-2						3433
555	19	050	GTREC	EQU	*&1						3503
556	19	060		DCW	@000020 9001 |@		17	3519			70
557	19	070	TABLE	EQU	*&1						3520
558	19	080		DCW	&MOVE		3	3522	X47		71
559	19	090			@)15@		3	3525			71
560	19	100			&GIV		3	3528	Y37		71
561	19	110			@*16@		3	3531			71
562	19	120			&GIV		3	3534	Y37		71
563	19	130			@*10@		3	3537			71
564	19	140			&LSTMC		3	3540	Y68		71
565	19	150			@.ME@		3	3543			72
566	19	160			&LSTMC		3	3546	Y68		72
567	19	170			@/10@		3	3549			72
568	19	180			&POSNEG		3	3552	Y14		72
569	19	190			@\$12@		3	3555			72
570	19	200			&POSNEG		3	3558	Y14		72
571	19	210			@%12@		3	3561			72
572	19	220			&POSNEG		3	3564	Y14		73
573	19	230			@\$14@		3	3567			73
574	19	240			&POSNEG		3	3570	Y14		73
575	19	250			@%14@		3	3573			73
576	20	010	PCT		@%@		1	3574			73
577	20	020		LTOrg					3575		
		128		DCW	&TABLE		3	3577	E20	ADCON	73
					&6		1	3578		LIT	73
					@021@		3	3581		LIT	74
					@045@		3	3584		LIT	74
					@003@		3	3587		LIT	74
					@5@		1	3588		LIT	74
		226			&LSTMC2		3	3591	Y98	ADCON	74
					@001@		3	3594		LIT	74
					@002@		3	3597		LIT	74
					@GNN@		3	3600		LIT	75
		415			&INPUT2		3	3603	B82	ADCON	75
					@N@		1	3604		LIT	75
					@%@		1	3605		LIT	75
		467			&INPUT3		3	3608	C27	ADCON	75
578	20	030		ORG	3790				3790		
579	20	040		DCW	@}@		1	3790			76
580	20	050		END	GETT				/ T00 080		77


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CLEAR STORAGE 1      ,008015,019026,030,034041,045,053,0570571026      1
CLEAR STORAGE 2      L068112,102106,113/101099/I99,027A070028)027B0010270B0261,001/001113I0      2
BOOTSTRAP            ,008015,022029,036040,047054,061068,072/061039      ,0010011040      3

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1401 COBOL - I04 PAGE 1

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
101	1	010	000	JOB	1401 COBOL - I04						
102	1	020		CTL	631 11						
103	1	030	X1	EQU	89			0089			
104	1	040	X2	EQU	94			0094			
105	1	050	X3	EQU	99			0099			
106	1	060	PUTX	EQU	363			0363			
107	1	070	GETX	EQU	335			0335			
108	1	080	SUPER	EQU	351			0351			
109	1	090		ORG	1300				1300		
110	1	100	GETT	MLC	NULL,CLEAR	7		1300	M A52	M11	4
111	1	110		MLC	NULL,SW88	7		1307	M A52	C35	4
112	1	120	GETSY	B	GETX	4		1314	B 335		4
113	1	130		DCW	&SY	3		1320	B12		4
114	1	140			&EOJ	3		1323	W40		4
115	1	150		C	SY,PASSSY	7		1324	C B12	W39	4
116	1	160		BE	GETSY2	5		1331	B T47	S	4
117	1	170		B	PUTX	4		1336	B 363		5
118	1	180		DCW	&SY	3		1342	B12		5
119	1	190		B	GETSY	4		1343	B T14		5
120	1	200	GETSY2	B	GETX	4		1347	B 335		5
121	1	210		DCW	&OPR	3		1353	B22		5
122	1	220			&EOJ	3		1356	W40		5
123	1	230		C	OPR,@12@	7		1357	C B22	D66	5
124	1	240		BE	POSNEG	5		1364	B U45	S	6
125	1	250		C	OPR,@14@	7		1369	C B22	D68	6
126	2	010		BE	POSNEG	5		1376	B U45	S	6
127	2	020		C	OPR,@.SB@	7		1381	C B22	D71	6
128	2	030		BE	SUBSC	5		1388	B Q15	S	6
129	2	040		C	OPR,@)15@	7		1393	C B22	D74	6
130	2	050		BU	PASSMC	5		1400	B V90	/	7
131	2	060	MOVE	B	READMC	4		1405	B W54		7
132	2	070		B	CLASS	4		1409	B !92		7
133	2	080		B	ALLTST	4		1413	B M16		7
134	2	090		B	MVMAC	4		1417	B Y75		7
135	2	100		B	DIAG3	4		1421	B N61		7
136	2	110		B	WMK3	4		1425	B K31		7
137	2	120		B	WMK1	4		1429	B N92		8
138	2	130		B	WMK	4		1433	B Z98		8
139	2	140		B	FLR	4		1437	B Z45		8
140	2	150		B	OUTLAB	4		1441	B X60		8
141	2	160	POSNEG	B	READMC	4		1445	B W54		8
142	2	170		MLC	&TABLE,X1	7		1449	M D77	089	8
143	2	180	POS1	C	5&X1,OPR	7		1456	C 0|5	B22	8
144	2	190		BE	*&12	5		1463	B U79	S	9
145	2	200		A	&6,X1	7		1468	A D78	089	9
146	2	210		B	POS1	4		1475	B U56		9
147	2	220	POS2	MLC	2&X1,LAB	7		1479	M 0|2	X82	9

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	2	230		MLC	@#@,OPR-2			7 1486	M D79 B20		9
149	2	240		B	PUTX			4 1493	B 363		9
150	2	250		DCW	&PASSSY			3 1499	W39		9
151	3	010		B	OUTOP			4 1500	B Y42		10
152	3	020		B	PUTX			4 1504	B 363		10
153	3	030		DCW	&SW3			3 1510	C31		10
154	3	040		B	PUTX			4 1511	B 363		10
155	3	050		DCW	&SW6			3 1517	C34		10
156	3	060		BWZ	*&5,NM1-1,2			8 1518	V V30 B24 2		10
157	3	070		B	POS3			4 1526	B V60		10
158	3	080	DIAG5	BCE	DIAG7,CL1,9			8 1530	B V45 B37 9		11
159	3	090		B	PUTX			4 1538	B 363		11
160	3	100		DCW	&MESS2			3 1544	A97		11
161	3	110	DIAG7	BWZ	POS3,SW1,2			8 1545	V V60 C29 2		11
162	3	120		B	PUTX			4 1553	B 363		11
163	3	130		DCW	&MESS15			3 1559	B06		11
164	3	140	POS3	B	ONEWM			4 1560	B N40		11
165	3	150		B	PUTX			4 1564	B 363		12
166	3	160		DCW	&FF7			3 1570	A91		12
167	3	170		B	CWКСW			4 1571	B L89		12
168	3	180		B	OUTLST			4 1575	B X72		12
169	3	190		B	PUTT			4 1579	B X87		12
170	3	200		DCW	&INPUT1			3 1585	B23		12
171	3	210		B	OUT			4 1586	B Y64		12
172	3	220	PASSMC	B	PUTX			4 1590	B 363		13
173	3	230		DCW	&PASSSY			3 1596	W39		13
174	3	240		B	PUTX			4 1597	B 363		13
175	3	250		DCW	&OPR			3 1603	B22		13
176	4	010	PASS	B	GETX			4 1604	B 335		13
177	4	020		DCW	&SY			3 1610	B12		13
178	4	030			&EOJ			3 1613	W40		13
179	4	040		B	PUTX			4 1614	B 363		14
180	4	050		DCW	&SY			3 1620	B12		14
181	4	060		C	SY,MCSEP			7 1621	C B12 B15		14
182	4	070		BE	GETSY			5 1628	B T14 S		14
183	4	080		B	PASS			4 1633	B W04		14
184	4	090	PASSSY	DCW	@*\$\$*			3 1639			14
185	4	100	EOJ	B	PUTX			4 1640	B 363		14
186	4	110		DCW	&VEOP			3 1646	A70		15
187	4	120		B	SUPER			4 1647	B 351		15
188	4	130		DCW	@I05@			3 1653			15
189	4	140	READMC	SBR	READBB&3			4 1654	H X15		15
190	4	150		B	GETX			4 1658	B 335		15
191	4	160		DCW	&SY			3 1664	B12		15
192	4	170			&EOJ			3 1667	W40		15
193	4	180		B	GETX			4 1668	B 335		16
194	4	190		DCW	&SW3			3 1674	C31		16
195	4	200			&EOJ			3 1677	W40		16
196	4	210		B	GETX			4 1678	B 335		16
197	4	220		DCW	&SW6			3 1684	C34		16

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
198	4	230			&EOJ		3	1687	W40		16
199	4	240	READBA	MLC	&INPUT1,X2		7	1688	M D82 094		16
200	4	250	READ1	B	GETX		4	1695	B 335		17
201	5	010		DCW	&SY		3	1701	B12		17
202	5	020			&EOJ		3	1704	W40		17
203	5	030		C	SY,MCSEP		7	1705	C B12 B15		17
204	5	040	READBB	BE	*		5	1712	B X16 S		17
205	5	050		MLC	SY,2&X2		7	1717	M B12 0!2		17
206	5	060		A	@003@,X2		7	1724	A D85 094		17
207	5	070		B	READ1		4	1731	B W95		18
208	5	080	OUTPAR	MLC	PCT,TYPE2&1		7	1735	M B16 B89		18
209	5	090		B	PUTT		4	1742	B X87		18
210	5	100		DCW	&INPUT1		3	1748	B23		18
211	5	110		B	PUTT		4	1749	B X87		18
212	5	120		DCW	&INPUT3		3	1755	C13		18
213	5	130		B	OUT		4	1756	B Y64		18
214	5	140	OUTLAB	B	OUTLST		4	1760	B X72		19
215	5	150		B	CWKS		4	1764	B L89		19
216	5	160		B	OUTPAR		4	1768	B X35		19
217	5	170	OUTLST	SBR	OUTLB1&3	PUTOUT LIBRARY LIST	4	1772	H X86		19
218	5	180		B	PUTT		4	1776	B X87		19
219	5	190	LAB	DCW	*		3	1782	X82		19
220	5	200	OUTLB1	B	*		4	1783	B X86		19
221	5	210	PUTT	SBR	X2		4	1787	H 094		20
222	5	220		MLC	2&X2,X3		7	1791	M 0!2 099		20
223	5	230	PUTT1	BCE	PUTTBB,0&X3,%		8	1798	B Y31 0?0 %		20
224	5	240		MLC	2&X3,SY		7	1806	M 0?2 B12		20
225	5	250		B	PUTX		4	1813	B 363		20
226	6	010		DCW	&SY		3	1819	B12		20
227	6	020		A	@003@,X3		7	1820	A D85 099		21
228	6	030		B	PUTT1		4	1827	B X98		21
229	6	040	PUTTBB	A	@003@,X2		7	1831	A D85 094		21
230	6	050		B	0&X2		4	1838	B 0!0		21
231	6	060	OUTOP	SBR	OUTBB&3	PUTOUT OPR, VOP	4	1842	H Y63		21
232	6	070		B	PUTX		4	1846	B 363		21
233	6	080		DCW	&OPR		3	1852	B22		21
234	6	090		B	PUTX		4	1853	B 363		22
235	6	100		DCW	&VOP		3	1859	B19		22
236	6	110	OUTBB	B	*		4	1860	B Y63		22
237	6	120	OUT	B	PUTX		4	1864	B 363		22
238	6	130		DCW	&MCSEP		3	1870	B15		22
239	6	140		B	GETT		4	1871	B T00		22
240	6	150	MVMAC	SBR	MVMAC3&3		4	1875	H Z32		22
241	6	160		BWZ	MVMAC2,SW3,K		8	1879	V Z33 C31 K		23
242	6	170		BCE	MV1,JUST,R		8	1887	B Z22 B46 R		23
243	6	180		BCE	MV2,JUST,L		8	1895	B Z11 B46 L		23
244	6	190	MV3	BWZ	MV1,SW5,S		8	1903	V Z22 C33 S		23
245	6	200	MV2	MLC	@00L@,NM3		7	1911	M D88 C15		23
246	6	210		B	MVMAC3		4	1918	B Z29		24
247	6	220	MV1	MLC	@00R@,NM3		7	1922	M D91 C15		24

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
248	6	230	MVMAC3	B	*		4	1929	B Z32		24
249	6	240	MVMAC2	BWZ	MVMAC3,SW1,2		8	1933	V Z29 C29	2	24
250	6	250		B	MV3		4	1941	B Z03		24
251	7	010	FLR	SBR	FLRBB&3		4	1945	H Z97		24
252	7	020		C	NM3,@00R@		7	1949	C C15 D91		24
253	7	030		BU	FLR1		5	1956	B Z72 /		25
254	7	040		MLC	&L5,LAB		7	1961	M D94 X82		25
255	7	050		B	FLRBB		4	1968	B Z94		25
256	7	060	FLR1	BCE	*&8,SW88,0		8	1972	B Z87 C35	0	25
257	7	070		B	PUTX		4	1980	B 363		25
258	7	080		DCW	&MESS12		3	1986	B03		25
259	7	090		MLC	&L6,LAB		7	1987	M D97 X82		25
260	7	100	FLRBB	B	*		4	1994	B Z97		26
261	7	110	WMK	SBR	WMKBB&3	CHECK WORDMARK TYPE	4	1998	H !91		26
262	7	120		C	WM1,NULL		7	2002	C B40 A52		26
263	7	130		BU	WMKA	SET	5	2009	B !62 /		26
264	7	140		C	WM2,NULL		7	2014	C B85 A52		26
265	7	150		BU	WMKB		5	2021	B !44 /		26
266	7	160		B	PUTX		4	2026	B 363		26
267	7	170		DCW	&AA1		3	2032	A73		27
268	7	180		MLC	&FF4,CLEAR		7	2033	M E00 M11		27
269	7	190		B	WMKBB		4	2040	B !88		27
270	7	200	WMKB	B	PUTX		4	2044	B 363		27
271	7	210		DCW	&AA2		3	2050	A76		27
272	7	220		MLC	&FF5,CLEAR		7	2051	M E03 M11		27
273	7	230		B	WMKBB		4	2058	B !88		27
274	7	240	WMKA	C	WM2,NULL		7	2062	C B85 A52		28
275	7	250		BU	WMKBB		5	2069	B !88 /		28
276	8	010		B	PUTX		4	2074	B 363		28
277	8	020		DCW	&AA3		3	2080	A79		28
278	8	030		MLC	&FF6,CLEAR		7	2081	M E06 M11		28
279	8	040	WMKBB	B	*		4	2088	B !91		28
280	8	050	CLASS	SBR	CLASBB&3	WILL THERE BE DECIMAL ALIGN.	4	2092	H J39		28
281	8	060		BWZ	*&5,SW1,2		8	2096	V J08 C29	2	29
282	8	070		B	CLASBB		4	2104	B J36		29
283	8	080		BCE	*&5,CL2,9		8	2108	B J20 B82	9	29
284	8	090		B	CLASBB		4	2116	B J36		29
285	8	100		BCE	CLAS1,CL1,9		8	2120	B J40 B37	9	29
286	8	110		BCE	MGIV,EDIT,E		8	2128	B J59 B49	E	30
287	8	120	CLASBB	B	*		4	2136	B J39		30
288	8	130	CLAS1	BCE	CLAS2,JUST,L		8	2140	B K20 B46	L	30
289	8	140		MLC	@N@,SW88		7	2148	M E07 C35		30
290	8	150		B	CLASBB		4	2155	B J36		30
291	8	160	MGIV	B	PUTX		4	2159	B 363		30
292	8	170		DCW	&PASSSY		3	2165	W39		30
293	8	180		B	PUTX		4	2166	B 363		31
294	8	190		DCW	&GIVOP		3	2172	A49		31
295	8	200		B	PUTX		4	2173	B 363		31
296	8	210		DCW	&VOP		3	2179	B19		31
297	8	220		BCE	*&8,EDIT,E		8	2180	B J95 B49	E	31

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
298	8	230		MLC	@YYK@,EDIT		7	2188	M E10 B49		31
299	8	240		B	PUTX		4	2195	B 363		31
300	8	250		DCW	&SW3		3	2201	C31		32
301	9	010		B	PUTX		4	2202	B 363		32
302	9	020		DCW	&SW6		3	2208	C34		32
303	9	030		B	PUTT		4	2209	B X87		32
304	9	040		DCW	&INPUT1		3	2215	B23		32
305	9	050		B	OUT		4	2216	B Y64		32
306	9	060	CLAS2	MLC	@E@,SW88		7	2220	M E11 C35		32
307	9	070		B	CLASBB		4	2227	B J36		33
308	9	080	WMK3	SBR	WMK3BB&3	IS THIS A RECORD MOVE	4	2231	H L42		33
309	9	090		BCE	WMK3C,EDIT,K		8	2235	B K58 B49 K		33
310	9	100		BCE	WMK3C,MASK,K		8	2243	B K58 B55 K		33
311	9	110		B	PUTX		4	2251	B 363		33
312	9	120		DCW	&MESS19		3	2257	B09		33
313	9	130	WMK3C	BCE	*&5,TYPE1,R	IS NM1 A RECORD	8	2258	B K70 B43 R		33
314	9	140		B	WMK3D		4	2266	B K90		34
315	9	150		BCE	*&5,TYPE2,R	IS NM2 A RECORD	8	2270	B K82 B88 R		34
316	9	160		B	WMK3D	EXIT	4	2278	B K90		34
317	9	170		BWZ	WMK3A,SW3,2		8	2282	V L28 C31 2		34
318	9	180	WMK3D	BWZ	WMK3BB,SW1,2		8	2290	V L39 C29 2		34
319	9	190		BWZ	*&5,SW3,K		8	2298	V L10 C31 K		35
320	9	200		B	WMK3B		4	2306	B L17		35
321	9	210		B	PUTX		4	2310	B 363		35
322	9	220		DCW	&MESS1		3	2316	A94		35
323	9	230	WMK3B	B	PUTX	PUTOUT CALL ZMR	4	2317	B 363		35
324	9	240		DCW	&HH1		3	2323	A40		35
325	9	250		B	OUTPAR		4	2324	B X35		35
326	10	010	WMK3A	B	PUTX	PUTOUT MRCM INSTRUCTION	4	2328	B 363		36
327	10	020		DCW	&II9		3	2334	A43		36
328	10	030		B	OUTPAR		4	2335	B X35		36
329	10	040	WMK3BB	B	*		4	2339	B L42		36
330	10	050	EITWMK	SBR	EITBB&3		4	2343	H L88		36
331	10	060		C	WM1,NULL		7	2347	C B40 A52		36
332	10	070		BU	EITBB		5	2354	B L85 /		36
333	10	080		C	WM2,NULL		7	2359	C B85 A52		37
334	10	090		BU	EITBB		5	2366	B L85 /		37
335	10	100		MLC	&FF5,CLEAR		7	2371	M E14 M11		37
336	10	110		B	PUTX		4	2378	B 363		37
337	10	120		DCW	&AA2		3	2384	A76		37
338	10	130	EITBB	B	*		4	2385	B L88		37
339	10	140	CWKS	SBR	CMSWBB&3	TEST FOR CLEAR WORDMARK	4	2389	H M15		37
340	10	150		C	CLEAR,NULL		7	2393	C M11 A52		38
341	10	160		BE	CMSWBB		5	2400	B M12 S		38
342	10	170		B	PUTX		4	2405	B 363		38
343	10	180	CLEAR	DCW	*		3	2411	M11		38
344	10	190	CMSWBB	B	*		4	2412	B M15		38
345	10	200	ALLTST	SBR	ALLBB&3	TEST ZONE FOR MOVE ALL	4	2416	H M35		38
346	10	210		B	OUTOP		4	2420	B Y42		38
347	10	220		BM	*&5,NM2		8	2424	V M36 B70 K		39

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
348	10	230	ALLBB	B	*		4	2432	B M35		39
349	10	240		BWZ	ALLWMK,SW1,S		8	2436	V N29 C29 S		39
350	10	250		BWZ	ALL1,SW3,2		8	2444	V N14 C31 2		39
351	11	010		C	SIZE2,ONE		7	2452	C B76 A55		39
352	11	020		BU	ALL2A		5	2459	B M79 /		40
353	11	030	ALL2	MLC	&L25,LAB		7	2464	M E17 X82		40
354	11	040	ALL3	B	ONEWM		4	2471	B N40		40
355	11	050		B	OUTLAB		4	2475	B X60		40
356	11	060	ALL2A	BWZ	ALL4,SW5,S		8	2479	V N06 C33 S		40
357	11	070		BWZ	ALLWMK,SW3,S		8	2487	V N29 C31 S		40
358	11	080		MLC	&L26,LAB		7	2495	M E20 X82		41
359	11	090		B	ALL1A		4	2502	B N21		41
360	11	100	ALL4	BWZ	ALL2,SW3,S		8	2506	V M64 C31 S		41
361	11	110	ALL1	MLC	&L13,LAB		7	2514	M E23 X82		41
362	11	120	ALL1A	B	OUTLST		4	2521	B X72		41
363	11	130		B	OUTPAR		4	2525	B X35		41
364	11	140	ALLWMK	B	PUTX		4	2529	B 363		41
365	11	150		DCW	&HH0		3	2535	A46		42
366	11	160		B	OUTPAR		4	2536	B X35		42
367	11	170	ONEWM	SBR	WMKBB&3		4	2540	H !91		42
368	11	180		C	WM1,NULL		7	2544	C B40 A52		42
369	11	190		BU	WMKBB		5	2551	B !88 /		42
370	11	200		BE	WMKB		5	2556	B !44 S		42
371	11	210	DIAG3	SBR	DG3BB&3	IS THERE	4	2561	H N91		42
372	11	220		BCE	DG3BB,CL1,X		8	2565	B N88 B37 X		43
373	11	230		BCE	DG3BB,CL2,9		8	2573	B N88 B82 9		43
374	11	240		B	PUTX		4	2581	B 363		43
375	11	250		DCW	&MESS9		3	2587	B00		43
376	12	010	DG3BB	B	*		4	2588	B N91		43
377	12	020	WMK1	SBR	WMK1BB&3		4	2592	H O19		43
378	12	030		BCE	MVNUM,SW88,N		8	2596	B O65 C35 N		43
379	12	040		BWZ	WMK1BB,SW3,S		8	2604	V O16 C31 S		44
380	12	050		B	WMK1C		4	2612	B O20		44
381	12	060	WMK1BB	B	*		4	2616	B O19		44
382	12	070	WMK1C	BWZ	WMK1A,SW3,2		8	2620	V O50 C31 2		44
383	12	080		B	PUTX		4	2628	B 363		44
384	12	090		DCW	&MESS1		3	2634	A94		44
385	12	100		B	EITWMK		4	2635	B L43		44
386	12	110		MLC	&L26,LAB		7	2639	M E26 X82		45
387	12	120		B	OUTLAB		4	2646	B X60		45
388	12	130	WMK1A	B	EITWMK		4	2650	B L43		45
389	12	140	WMKLB	MLC	&L13,LAB		7	2654	M E29 X82		45
390	12	150		B	OUTLAB		4	2661	B X60		45
391	12	160	MVNUM	ZA	SIZE1,TEMP6		7	2665	? B31 A61		45
392	12	170		S	DEC1,TEMP6		7	2672	S B34 A61		46
393	12	180		ZA	SIZE2,TEMP7		7	2679	? B76 A67		46
394	12	190		S	DEC2,TEMP7		7	2686	S B79 A67		46
395	12	200		S	TEMP6,TEMP7		7	2693	S A61 A67		46
396	12	210		MCS	TEMP7,TEMP6		7	2700	Z A67 A61		46
397	12	220		SW	TEMP6-5		4	2707	, A56		46

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
398	12	230		BCE	MVNUM1,TEMP6,		8	2711	B P34 A61		47
399	12	240		BM	MVNUM1,TEMP7		8	2719	V P34 A67 K		47
400	12	250		B	PUTX		4	2727	B 363		47
401	13	010		DCW	&MESS1		3	2733	A94		47
402	13	020	MVNUM1	BWZ	MVNUM2,SW2,2		8	2734	V P76 C30 2		47
403	13	030		B	WMK		4	2742	B Z98		47
404	13	040		BWZ	*&12,SW2,S		8	2746	V P65 C30 S		48
405	13	050		MLC	&NUMLB2,LAB		7	2754	M E32 X82		48
406	13	060		B	OUTLAB		4	2761	B X60		48
407	13	070		MLC	&NUMLB1,LAB		7	2765	M E35 X82		48
408	13	080		B	OUTLAB		4	2772	B X60		48
409	13	090	MVNUM2	BWZ	MVNUM3,SW3,S		8	2776	V Q00 C31 S		48
410	13	100		BWZ	WMK1A,SW3,2		8	2784	V O50 C31 2		49
411	13	110		B	ONEWM		4	2792	B N40		49
412	13	120		B	WMKLB		4	2796	B O54		49
413	13	130	MVNUM3	B	WMK		4	2800	B Z98		49
414	13	140		MLC	&NUMLB,LAB		7	2804	M E38 X82		49
415	13	150		B	OUTLAB		4	2811	B X60		49
416	13	160	SUBSC	B	GETX		4	2815	B 335		49
417	13	170		DCW	&SY		3	2821	B12		50
418	13	180			&EOJ		3	2824	W40		50
419	13	190		B	OUTOP		4	2825	B Y42		50
420	13	200	SB1	B	GETX		4	2829	B 335		50
421	13	210		DCW	&SY		3	2835	B12		50
422	13	220			&EOJ		3	2838	W40		50
423	13	230		C	SY,@.SD@		7	2839	C B12 E41		50
424	13	240		BE	SB2		5	2846	B Q62 S		51
425	13	250		B	PUTX		4	2851	B 363		51
426	14	010		DCW	&SY		3	2857	B12		51
427	14	020		B	SB1		4	2858	B Q29		51
428	14	030	SB2	SBR	READBB&3,SB3		7	2862	H X15 Q73		51
429	14	040		B	READBA		4	2869	B W88		51
430	14	050	SB3	MLC	NULL,CLEAR3		7	2873	M A52 A22		51
431	14	060		MLC	NULL		4	2880	M A52		52
432	14	070		MLC	@|@,COBMSK&1		7	2884	M E42 B59		52
433	14	080		ZA	@003@,WMKCNT		7	2891	? D85 C35		52
434	14	090		BCE	SB3A,COBMSK,		8	2898	B R18 B58		52
435	14	100		C	COBMSK,NULL		7	2906	C B58 A52		52
436	14	110		BE	*&8		5	2913	B R25 S		52
437	14	120	SB3A	S	ONE,WMKCNT		7	2918	S A55 C35		53
438	14	130		C	JUST,NULL		7	2925	C B46 A52		53
439	14	140		BE	SB3B&7		5	2932	B R51 S		53
440	14	150		MRCM	EDIT-2,CL1-2		7	2937	P B47 B35		53
441	14	160	SB3B	S	ONE,WMKCNT		7	2944	S A55 C35		53
442	14	170		C	DEC1,NULL		7	2951	C B34 A52		54
443	14	180		BE	SB4		5	2958	B R77 S		54
444	14	190		MRCM	CL1-2,INPUT1		7	2963	P B35 B23		54
445	14	200	SB3C	S	ONE,WMKCNT		7	2970	S A55 C35		54
446	14	210	SB4	BCE	SUBDON,WMKCNT,?	DO VARIABLES HAVE WORDMARKS	8	2977	B ?55 C35 ?		54
447	14	220		C	WMKCNT,SB5		7	2985	C C35 R92		55

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
448	14	230	SB5	BH	SBWMK1		5	2992	B ?41	U	55
449	14	240		B	PUTX		4	2997	B 363		55
450	14	250		DCW	&ZZ5		3	3003	A34		55
451	15	010		MLC	ZZ6,CLEAR1		7	3004	M A37 A19		55
452	15	020		BCE	*&5,WMKCNT,C		8	3011	B ?23 C35	C	55
453	15	030		B	SUBDON		4	3019	B ?55		55
454	15	040		B	PUTX		4	3023	B 363		56
455	15	050		DCW	&YY0		3	3029	A28		56
456	15	060		MLC	YY1,CLEAR3		7	3030	M A31 A22		56
457	15	070		B	SUBDON		4	3037	B ?55		56
458	15	080	SBWMK1	B	PUTX		4	3041	B 363		56
459	15	090		DCW	&AA2		3	3047	A76		56
460	15	100		MLC	FF5,CLEAR1		7	3048	M A85 A19		56
461	15	110	SUBDON	MLN	CHCNT,SBCALL		7	3055	D B67 A25		57
462	15	120		B	PUTX		4	3062	B 363		57
463	15	130		DCW	&SBCALL		3	3068	A25		57
464	15	140		BCE	SUBEXT,CLEAR1-2,0		8	3069	B ?99 A17	0	57
465	15	150		B	PUTX		4	3077	B 363		57
466	15	160		DCW	&CLEAR1		3	3083	A19		57
467	15	170		BCE	SUBEXT,CLEAR3-2,0		8	3084	B ?99 A20	0	57
468	15	180		B	PUTX		4	3092	B 363		58
469	15	190		DCW	&CLEAR3		3	3098	A22		58
470	15	200	SUBEXT	MLC	@%@,TYPE2&16		7	3099	M E43 C04		58
471	15	210		B	PUTT		4	3106	B X87		58
472	15	220		DCW	&INPUT1		3	3112	B23		58
473	15	230		B	OUT		4	3113	B Y64		58
474	15	240	WMKCNT	EQU	SW88						
475	15	250	CLEAR1	DCW	#3		3	3119			58
476	16	010	CLEAR3		#3		3	3122			59
477	16	020	SBCALL		@.G0@		3	3125			59
478	16	030	YY0		@.Y0@		3	3128			59
479	16	040	YY1		@.Y1@		3	3131			59
480	16	050	ZZ5		@.Z5@		3	3134			59
481	16	060	ZZ6		@.Z6@		3	3137			59
482	16	070	HH1		@.H1@		3	3140			59
483	16	080	II9		@.I9@		3	3143			60
484	16	090	HH0		@.H0@		3	3146			60
485	16	100	GIVOP		@*16@		3	3149			60
486	16	110	ONE		@000001@		6	3155			60
487	16	120	TEMP6		#6		6	3161			60
488	16	130	TEMP7		#6		6	3167			60
489	16	140	VEOP		@.EP@		3	3170			60
490	16	150	AA1		@.A0@		3	3173			61
491	16	160	AA2		@.A1@		3	3176			61
492	16	170	AA3		@.A2@		3	3179			61
493	16	180	FF4		@.F4@		3	3182			61
494	16	190	FF5		@.F5@		3	3185			61
495	16	200	FF6		@.F6@		3	3188			61
496	16	210	FF7		@.F7@		3	3191			61
497	16	220	MESS1		@.Q4@		3	3194			62

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
498	16	230	MESS2		@.Q5@		3	3197			62
499	16	240	MESS9		@.R2@		3	3200			62
500	16	250	MESS12		@.R5@		3	3203			62
501	17	010	MESS15		@.R8@		3	3206			62
502	17	020	MESS19		@.X9@		3	3209			62
503	17	030	SY		#3		3	3212			62
504	17	040	MCSEP		@.MC@		3	3215			63
505	17	050	PCT		@%@		1	3216			63
506	17	060	VOP		@.OP@		3	3219			63
507	17	070	NULL	EQU	ONE-3			3152			
508	17	080	OPR	DCW	#3		3	3222			63
509	17	090	INPUT1	DA	1X45			3223	3267		63
510	17	100	NM1		1,3			3225		FIELD	63
511	17	110	SIZE1		4,9			3231		FIELD	63
512	17	120	DEC1		10,12			3234		FIELD	64
513	17	130	CL1		13,15			3237		FIELD	64
514	17	140	WM1		16,18			3240		FIELD	64
515	17	150	TYPE1		19,21			3243		FIELD	64
516	17	160	JUST		22,24			3246		FIELD	64
517	17	170	EDIT		25,27			3249		FIELD	64
518	17	180	BLK		28,30			3252		FIELD	65
519	17	190	MASK		31,33			3255		FIELD	65
520	17	200	COBMSK		34,36			3258		FIELD	65
521	17	210	ED1		37,39			3261		FIELD	65
522	17	220	ED2		40,42			3264		FIELD	65
523	17	230	CHCNT		43,45			3267		FIELD	65
524	17	240	INPUT2	DA	1X45			3268	3312		66
525	17	250	NM2		1,3			3270		FIELD	66
526	18	010	SIZE2		4,9			3276		FIELD	66
527	18	020	DEC2		10,12			3279		FIELD	66
528	18	030	CL2		13,15			3282		FIELD	66
529	18	040	WM2		16,18			3285		FIELD	66
530	18	050	TYPE2		19,21			3288		FIELD	67
531	18	060	INPUT3	DA	1X15			3313	3327		67
532	18	070	NM3		1,3			3315		FIELD	67
533	18	080			4,6			3318		FIELD	67
534	18	090	SIZE3		7,9			3321		FIELD	67
535	18	100		DC	@%@		1	3328			68
536	18	110	SW1	DCW	0		1	3329			68
537	18	120	SW2	DC	0		1	3330			68
538	18	130	SW3	DC	0		1	3331			68
539	18	140	SW4	DCW	0		1	3332			68
540	18	150	SW5	DC	0		1	3333			68
541	18	160	SW6		0		1	3334			68
542	18	170	SW88	DCW	0		1	3335			68
543	18	180	NUMLB	EQU	*&1			3336			
544	18	190		DCW	@.X1.X2%@		7	3342			68
545	18	200	NUMLB1	EQU	*&1			3343			
546	18	210		DCW	@.P1.X0.X2.Y2%@		13	3355			69
547	18	220	NUMLB2	EQU	*&1			3356			

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
548	18	230		DCW	@.Y3.X2%@		7	3362			69
549	18	240	L5	EQU	*&1			3363			
550	18	250		DCW	@.N9.O0.O1%@		10	3372			69
551	19	010	L6	EQU	*&1			3373			
552	19	020		DCW	@.N9.O0.Q3%@		10	3382			70
553	19	030	L25	EQU	*&1			3383			
554	19	040		DCW	@.O1.O0%@		7	3389			70
555	19	050	L26	EQU	*&1			3390			
556	19	060		DCW	@.O3%@		4	3393			70
557	19	070	L13	EQU	*&1			3394			
558	19	080		DCW	@.O1%@		4	3397			70
559	19	090	L4	EQU	*&1			3398			
560	19	100		DCW	@.H4.I0.F0%@	NEGATIVE	10	3407			70
561	19	110	L4A	EQU	*&1			3408			
562	19	120		DCW	@.H3.H8.I5.F0%@	NEGATIVE	13	3420			71
563	19	130	L30	EQU	*&1			3421			
564	19	140		DCW	@.H4.H8.I5.F0%@	POSITIVE	13	3433			71
565	19	150	L30A	EQU	*&1			3434			
566	19	160		DCW	@.H3.I0%@	POSITIVE	7	3440			71
567	19	170	TABLE	EQU	*&1			3441			
568	19	180		DCW	&L4		3	3443	C98		71
569	19	190			@\$14@		3	3446			71
570	19	200			&L4A		3	3449	D08		72
571	19	210			@%14@		3	3452			72
572	19	220			&L30		3	3455	D21		72
573	19	230			@\$12@		3	3458			72
574	19	240			&L30A		3	3461	D34		72
575	19	250			@%12@		3	3464			72
576	20	010		LTORG					3465		
				DCW	@12@		2	3466		LIT	72
					@14@		2	3468		LIT	73
					@.SB@		3	3471		LIT	73
					@)15@		3	3474		LIT	73
		142			&TABLE		3	3477	D41	ADCON	73
					&6		1	3478		LIT	73
					@#@		1	3479		LIT	73
		199			&INPUT1		3	3482	B23	ADCON	73
					@003@		3	3485		LIT	74
					@00L@		3	3488		LIT	74
					@00R@		3	3491		LIT	74
		254			&L5		3	3494	C63	ADCON	74
		259			&L6		3	3497	C73	ADCON	74
		268			&FF4		3	3500	A82	ADCON	74
		272			&FF5		3	3503	A85	ADCON	74
		278			&FF6		3	3506	A88	ADCON	75
					@N@		1	3507		LIT	75
					@YYK@		3	3510		LIT	75
					@E@		1	3511		LIT	75
		335			&FF5		3	3514	A85	ADCON	75
		353			&L25		3	3517	C83	ADCON	75

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
		358			&L26	3		3520	C90	ADCON	75
		361			&L13	3		3523	C94	ADCON	76
		386			&L26	3		3526	C90	ADCON	76
		389			&L13	3		3529	C94	ADCON	76
		405			&NUMLB2	3		3532	C56	ADCON	76
		407			&NUMLB1	3		3535	C43	ADCON	76
		414			&NUMLB	3		3538	C36	ADCON	76
					@.SD@	3		3541		LIT	76
					@|@	1		3542		LIT	77
					@%@	1		3543		LIT	77
577	20	020		ORG	3790				3790		
578	20	030		DCW	@}@	1		3790			78
579	20	040		END	GETT				/ T00 080		79

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CLEAR STORAGE 1      ,008015,019026,030,034041,045,053,0570571026      1
CLEAR STORAGE 2      L068112,102106,113/101099/I99,027A070028)027B0010270B0261,001/001113I0      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	010	000	JOB	1401 COBOL - I05						
102	1	020		CTL	631 11						
103	1	030	X1	EQU	89			0089			
104	1	040	X2	EQU	94			0094			
105	1	050	X3	EQU	99			0099			
106	1	060	PUTX	EQU	363			0363			
107	1	070	GETX	EQU	335			0335			
108	1	080	SUPER	EQU	351			0351			
109	1	090		ORG	1300				1300		
110	1	100	GETT	MRCM	BLANKS, ILLIST	7		1300	P B33	B08	4
111	1	110		MRCM	BLANKS	4		1307	P B33		4
112	1	120	GETSY	B	GETX	4		1311	B 335		4
113	1	130		DCW	&SY	3		1317	B75		4
114	1	140			&EOJ	3		1320	W12		4
115	1	150		C	SY, PASSSY	7		1321	C B75	W11	4
116	1	160		BE	GETSY2	5		1328	B T44	S	4
117	1	170		B	PUTX	4		1333	B 363		5
118	1	180		DCW	&SY	3		1339	B75		5
119	1	190		B	GETSY	4		1340	B T11		5
120	1	200	GETSY2	B	GETX	4		1344	B 335		5
121	1	210		DCW	&OPR	3		1350	?72		5
122	1	220			&EOJ	3		1353	W12		5
123	1	230		MLC	&TABLE, X2	7		1354	M C71	094	5
124	1	240	LKPA	C	5&X2, OPR	7		1361	C 015	?72	6
125	1	250		BE	LKP3	5		1368	B T92	S	6
126	2	010		BCE	LKP4, 0&X2, %	8		1373	B U03	010 %	6
127	2	020		A	&6, X2	7		1381	A C72	094	6
128	2	030		B	LKPA	4		1388	B T61		6
129	2	040	LKP3	MLC	2&X2, GETTA&3	7		1392	M 012	V90	6
130	2	050		B	CONTIN	4		1399	B U22		7
131	2	060	LKP4	C	@?@, OPR-2	7		1403	C C73	?70	7
132	2	070		BH	PASSMC	5		1410	B V91	U	7
133	2	080		MLC	&FREE, GETTA&3	7		1415	M C76	V90	7
134	2	090	CONTIN	B	GETX	4		1422	B 335		7
135	2	100		DCW	&SY	3		1428	B75		7
136	2	110			&EOJ	3		1431	W12		7
137	2	120		B	PUTX	4		1432	B 363		8
138	2	130		DCW	&PASSSY	3		1438	W11		8
139	2	140		B	OUTOP	4		1439	B W26		8
140	2	150		B	GETX	4		1443	B 335		8
141	2	160		DCW	&SW3	3		1449	C13		8
142	2	170			&EOJ	3		1452	W12		8
143	2	180		B	GETX	4		1453	B 335		8
144	2	190		DCW	&SW6	3		1459	C16		9
145	2	200			&EOJ	3		1462	W12		9
146	2	210		MLC	&INPUT1, X2	7		1463	M C79	094	9
147	2	220	READ1	B	GETX	4		1470	B 335		9

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	2	230		DCW	&SY		3	1476	B75		9
149	2	240			&EOJ		3	1479	W12		9
150	2	250		BCE	*&5,SY-2,.		8	1480	B U92 B73 .		9
151	3	010		B	READ2		4	1488	B V13		10
152	3	020		B	PUTX		4	1492	B 363		10
153	3	030		DCW	&SY		3	1498	B75		10
154	3	040		B	READ1		4	1499	B U70		10
155	3	050	READ3	B	GETX		4	1503	B 335		10
156	3	060		DCW	&SY		3	1509	B75		10
157	3	070			&EOJ		3	1512	W12		10
158	3	080	READ2	C	SY,MCSEP		7	1513	C B75 B81		11
159	3	090		BE	GETSW		5	1520	B V43 S		11
160	3	100		MLC	SY,2&X2		7	1525	M B75 012		11
161	3	110		A	@003@,X2		7	1532	A C82 094		11
162	3	120		B	READ3		4	1539	B V03		11
163	3	130	GETSW	B	RPGT		4	1543	B P98		11
164	3	140		BCE	GETTA,TYPE1-2,1		8	1547	B V87 ?91 1		12
165	3	150		MLC	DEC3,TEMP		7	1555	M A74 B91		12
166	3	160		MLC	DEC2,DEC3		7	1562	M A29 A74		12
167	3	170		B	DEC		4	1569	B O49		12
168	3	180		MZ	DECSW,SW2		7	1573	Y B88 C12		12
169	3	190		MLC	TEMP,DEC3		7	1580	M B91 A74		13
170	3	200	GETTA	B	*	PERFORM MATRIX	4	1587	B V90		13
171	3	210	PASSMC	B	PUTX	PASS THRU MACRO	4	1591	B 363		13
172	3	220		DCW	&PASSSY		3	1597	W11		13
173	3	230		B	PUTX		4	1598	B 363		13
174	3	240		DCW	&OPR		3	1604	?72		13
175	3	250		B	GETSY		4	1605	B T11		13
176	4	010	PASSSY	DCW	@*\$\$*		3	1611			14
177	4	020	EOJ	B	PUTX		4	1612	B 363		14
178	4	030		DCW	&VEOP		3	1618	B84		14
179	4	040		B	SUPER		4	1619	B 351		14
180	4	050		DCW	@I06@		3	1625			14
181	4	060	OUTOP	SBR	OUTBB&3	PUTOUT OPR, VOP	4	1626	H W47		14
182	4	070		B	PUTX		4	1630	B 363		14
183	4	080		DCW	&OPR		3	1636	?72		15
184	4	090		B	PUTX		4	1637	B 363		15
185	4	100		DCW	&VOP		3	1643	B87		15
186	4	110	OUTBB	B	*		4	1644	B W47		15
187	4	120	MNADD	BWZ	MN1,NM3-1,2		8	1648	V W90 A64 2		15
188	4	130		BWZ	*&5,SW2,K		8	1656	V W68 C12 K		15
189	4	140		B	*&8		4	1664	B W75		15
190	4	150		MLC	DEC2,DECACC		7	1668	M A29 C03		16
191	4	160		B	GTSTG		4	1675	B K74		16
192	4	170		MLC	ZERO-2,SW6		7	1679	M B76 C16		16
193	4	180		B	*&5		4	1686	B W94		16
194	4	190	MN1	B	CKDEC3		4	1690	B M39		16
195	4	200		BCE	MNADD2,SW6,0		8	1694	B X21 C16 0		16
196	4	210		BCE	MAINBB,SW6,3		8	1702	B Z44 C16 3		17
197	4	220		MLC	@1@,GNASW		7	1710	M C83 C07		17

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
198	4	230		B	MAINBB		4	1717	B Z44		17
199	4	240	MNADD2	BWZ	SETSW,NM3-1,2		8	1721	V K38 A64	2	17
200	4	250		B	MAINBB		4	1729	B Z44		17
201	5	010	AUG	MLC	GNASW,SW5		7	1733	M C07 C15		17
202	5	020		BWZ	*&5,SW2,2		8	1740	V X52 C12	2	18
203	5	030		B	AUG5		4	1748	B Y29		18
204	5	040		BWZ	AUG5,SW3,S		8	1752	V Y29 C13	S	18
205	5	050		BCE	AUG4,ED2,K		8	1760	B X80 A44	K	18
206	5	060		BCE	AUG4,MASK2,K		8	1768	B X80 A50	K	18
207	5	070		B	AUG1A		4	1776	B Y63		19
208	5	080	AUG4	BCE	AUG4B,ARITSW,E		8	1780	B X92 C08	E	19
209	5	090		B	AUG4A		4	1788	B X99		19
210	5	100	AUG4B	MLC	@1@,ARITSW		7	1792	M C83 C08		19
211	5	110	AUG4A	MLC	NM2,NM3		7	1799	M A20 A65		19
212	5	120		BWZ	*&5,NM2-1,2		8	1806	V Y18 A19	2	19
213	5	130		B	MAINBB		4	1814	B Z44		20
214	5	140		MLC	@A@,MLTSW		7	1818	M C84 C09		20
215	5	150		B	MAINBB		4	1825	B Z44		20
216	5	160	AUG5	BWZ	AUG1A,NM2-1,2		8	1829	V Y63 A19	2	20
217	5	170		BWZ	*&5,SW2,S		8	1837	V Y49 C12	S	20
218	5	180		B	AUG2		4	1845	B Z21		20
219	5	190		B	UPDAT		4	1849	B L21		20
220	5	200		DCW	&NM2		3	1855	A20		21
221	5	210			&DEC1		3	1858	?84		21
222	5	220		B	AUG2		4	1859	B Z21		21
223	5	230	AUG1A	MRCM	GNSKEL,NM2-2		7	1863	P B45 A18		21
224	5	240		MLC	RESDEC,K2		7	1870	M C06 B25		21
225	5	250		BCE	AUG1B,GNASW,1		8	1877	B Z03 C07	1	21
226	6	010		A	@1@,CLGNSW		7	1885	A C83 C10		21
227	6	020		MLC	@1@,GNASW		7	1892	M C83 C07		22
228	6	030		B	AUG3		4	1899	B Z37		22
229	6	040	AUG1B	MLC	RESDEC,DEC3		7	1903	M C06 A74		22
230	6	050		B	DEC		4	1910	B O49		22
231	6	060		MZ	DECSW,SW2		7	1914	Y B88 C12		22
232	6	070	AUG2	BWZ	AUG4A,SW2,2		8	1921	V X99 C12	2	22
233	6	080		BWZ	MAINBB,SW2,K		8	1929	V Z44 C12	K	23
234	6	090	AUG3	MLC	DEC1,RESDEC		7	1937	M ?84 C06		23
235	6	100	MAINBB	B	OUTPAR		4	1944	B P19		23
236	6	110	MNMLT	BWZ	*&5,NM3-1,2		8	1948	V Z60 A64	2	23
237	6	120		B	MNMLT1		4	1956	B !49		23
238	6	130		MLC	DEC1,TEMP		7	1960	M ?84 B91		23
239	6	140		A	DEC2,TEMP		7	1967	A A29 B91		24
240	6	150		BCE	MLT1A,ED3,E		8	1974	B !15 A89	E	24
241	6	160		MLC	DEC1,GNSKEL&11		7	1982	M ?84 B56		24
242	6	170		MLC	TEMP,DEC1		7	1989	M B91 ?84		24
243	6	180		B	DEC		4	1996	B O49		24
244	6	190		MLC	GNSKEL&11,DEC1		7	2000	M B56 ?84		25
245	6	200		BWZ	OUTPAR,DECSW,2		8	2007	V P19 B88	2	25
246	6	210	MLT1A	B	SETSW		4	2015	B K38		25
247	6	220		MLC	TEMP,RESDEC		7	2019	M B91 C06		25

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
248	6	230		C	RESDEC,@021@		7	2026	C C06 C87		25
249	6	240		BH	OUTPAR		5	2033	B P19 U		25
250	6	250		MLC	@020@,RESDEC		7	2038	M C90 C06		26
251	7	010		B	OUTPAR		4	2045	B P19		26
252	7	020	MNMLT1	A	DEC2,DECACC		7	2049	A A29 C03		26
253	7	030		C	DECACC,@021@		7	2056	C C03 C87		26
254	7	040		BH	*&8		5	2063	B !75 U		26
255	7	050		MLC	@020@,DECACC		7	2068	M C90 C03		26
256	7	060		MZ	@Z@,SW2	FORCE ZONE ON SW2	7	2075	Y C91 C12		27
257	7	070		B	MNDIV1&7		4	2082	B K23		27
258	7	080	MNEXP	MLC	SIZE3,OP		7	2086	M A71 B28		27
259	7	090		MLC	@010@,RESDEC		7	2093	M C94 C06		27
260	7	100		MLC	@010@		4	2100	M C94		27
261	7	110		BWZ	MLT1C,NM3-1,2		8	2104	V J20 A64 2		27
262	7	120		B	GTSTG		4	2112	B K74		28
263	7	130		B	OUTPAR		4	2116	B P19		28
264	7	140	MLT1C	B	SETSW		4	2120	B K38		28
265	7	150		MLC	@1@,CLGNSW		7	2124	M C83 C10		28
266	7	160		B	OUTPAR		4	2131	B P19		28
267	7	170	MNDIV	BWZ	*&5,NM3-1,2		8	2135	V J47 A64 2		28
268	7	180		B	MNDIV1		4	2143	B K16		28
269	7	190		BCE	DIV1A,ED3,E		8	2147	B J87 A89 E		29
270	7	200		B	DEC		4	2155	B O49		29
271	7	210		BWZ	*&5,SW2,2		8	2159	V J71 C12 2		29
272	7	220		B	DIV1A		4	2167	B J87		29
273	7	230		C	SIZE3,SIZE1		7	2171	C A71 ?81		29
274	7	240		BH	DIV1A		5	2178	B J87 U		29
275	7	250		B	OUTPAR		4	2183	B P19		30
276	8	010	DIV1A	MLC	@E@,ARITSW		7	2187	M C95 C08		30
277	8	020		B	SETSW		4	2194	B K38		30
278	8	030		MLC	DEC1,RESDEC		7	2198	M ?84 C06		30
279	8	040		A	@1@,RESDEC		7	2205	A C83 C06		30
280	8	050		B	OUTPAR		4	2212	B P19		30
281	8	060	MNDIV1	A	@1@,DECACC		7	2216	A C83 C03		31
282	8	070		MZ	@Z@,SW2	FORCE ZONE ON SW2	7	2223	Y C91 C12		31
283	8	080		B	GTSTG		4	2230	B K74		31
284	8	090		B	OUTPAR		4	2234	B P19		31
285	8	100	SETSW	SBR	SETSWB&3		4	2238	H K73		31
286	8	110		MLC	@E@,ARITSW		7	2242	M C95 C08		31
287	8	120		MLC	@1@,GNASW		7	2249	M C83 C07		32
288	8	130		MLC	@1@,MLTSW		7	2256	M C83 C09		32
289	8	140		MRCM	GNSKEL,NM3-2		7	2263	P B45 A63		32
290	8	150	SETSWB	B	*		4	2270	B K73		32
291	8	160	GTSTG	SBR	ADSLBB&3	ADD TO GT AREA	4	2274	H L20		32
292	8	170		MLC	RMLOC,X1		7	2278	M M38 089		32
293	8	180		MRCM	0&X1,6&X1		7	2285	P 0|0 0|6		33
294	8	190		MLC	DECACC,5&X1		7	2292	M C03 0|5		33
295	8	200		MLC	NM3		4	2299	M A65		33
296	8	210		MLC	X1,RMLOC		7	2303	M 089 M38		33
297	8	220		A	@006@,RMLOC		7	2310	A C98 M38		33

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
298	8	230	ADSLBB	B	*		4	2317	B L20		33
299	8	240	UPDAT	SBR	X1		4	2321	H 089		34
300	8	250		MLC	@1@,RP11		7	2325	M C83 M35		34
301	9	010		B	*&5		4	2332	B L40		34
302	9	020	RPDEC	SBR	X1		4	2336	H 089		34
303	9	030		MLC	GTLIST,X3		7	2340	M C19 099		34
304	9	040		MLC	2&X1,X2		7	2347	M 0|2 094		34
305	9	050	RPDC2	C	2&X3,0&X2		7	2354	C 0?2 0!0		35
306	9	060		BE	RPDC1		5	2361	B L77 S		35
307	9	070		A	@006@,X3		7	2366	A C98 099		35
308	9	080		B	RPDC2		4	2373	B L54		35
309	9	090	RPDC1	BCE	RPUP,RP11,1		8	2377	B M03 M35 1		35
310	9	100		MLC	5&X1,*&7		7	2385	M 0|5 L98		35
311	9	110		MLC	5&X3,*		7	2392	M 0?5 L98		36
312	9	120		B	RPDC3		4	2399	B M17		36
313	9	130	RPUP	MLC	5&X1,*&4		7	2403	M 0|5 M13		36
314	9	140		MLC	*,5&X3		7	2410	M M16 0?5		36
315	9	150	RPDC3	A	@006@,X1		7	2417	A C98 089		36
316	9	160		MLC	ZERO,RP11		7	2424	M B78 M35		36
317	9	170		B	0&X1		4	2431	B 0|0		37
318	9	180	RP11	DCW	0		1	2435			37
319	9	190	RMLOC		>ORG		3	2438	F00		37
320	9	200	CKDEC3	SBR	CKDCBB&3		4	2439	H 048		37
321	9	210		C	ED3,@K@		7	2443	C A89 C99		37
322	9	220		BU	CKDC3		5	2450	B N07 /		37
323	9	230		B	DEC		4	2455	B 049		37
324	9	240		MZ	DECSW,SW6		7	2459	Y B88 C16		38
325	9	250		MLC	DEC1,TEMP		7	2466	M ?84 B91		38
326	10	010		MLC	DEC2,DEC1		7	2473	M A29 ?84		38
327	10	020		B	DEC		4	2480	B 049		38
328	10	030		MLC	TEMP,DEC1		7	2484	M B91 ?84		38
329	10	040		BWZ	CKDC1,SW6,2		8	2491	V N81 C16 2		39
330	10	050	CKDC3A	BWZ	CKDC4,DECSW,2		8	2499	V N51 B88 2		39
331	10	060	CKDC3	MLC	ZERO-2,SW6		7	2507	M B76 C16		39
332	10	070		MLC	@E@,ARITSW		7	2514	M C95 C08		39
333	10	080		MLC	DEC1,RESDEC		7	2521	M ?84 C06		39
334	10	090		BWZ	*&5,SW2,K		8	2528	V N40 C12 K		40
335	10	100		B	CKDCBB		4	2536	B 045		40
336	10	110		MLC	DEC2,RESDEC		7	2540	M A29 C06		40
337	10	120		B	CKDCBB		4	2547	B 045		40
338	10	130	CKDC4	C	SIZE3,SIZE2		7	2551	C A71 A26		40
339	10	140		BH	CKDC3		5	2558	B N07 U		40
340	10	150		MLC	@1@,SW6		7	2563	M C83 C16		41
341	10	160		MLC	DEC1,RESDEC		7	2570	M ?84 C06		41
342	10	170		B	CKDCBB		4	2577	B 045		41
343	10	180	CKDC1	C	SIZE3,SIZE1		7	2581	C A71 ?81		41
344	10	190		BH	CKDC3A		5	2588	B M99 U		41
345	10	200		BWZ	CKCDZ,DECSW,2		8	2593	V 019 B88 2		41
346	10	210	CKDC1A	MLC	@2@,SW6		7	2601	M D00 C16		42
347	10	220		MLC	DEC2,RESDEC		7	2608	M A29 C06		42

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
348	10	230		B	CKDCBB		4	2615	B 045		42
349	10	240	CKCDZ	C	SIZE3,SIZE2		7	2619	C A71 A26		42
350	10	250		BH	CKDC1A		5	2626	B 001 U		42
351	11	010		MLC	@3@,SW6		7	2631	M D01 C16		42
352	11	020		MLC	DEC1,RESDEC		7	2638	M ?84 C06		43
353	11	030	CKDCBB	B	*		4	2645	B 048		43
354	11	040	DEC	SBR	DECBB&3		4	2649	H P18		43
355	11	050		MZ	BLKS,DECSW		7	2653	Y B35 B88		43
356	11	060		ZA	DEC1,TEMP7		7	2660	? ?84 C00		43
357	11	070		S	DEC3,TEMP7		7	2667	S A74 C00		43
358	11	080		MCS	TEMP7,TEMP6		7	2674	Z C00 B97		44
359	11	090		BCE	DECBB,TEMP6,		8	2681	B P15 B97		44
360	11	100		BM	DECB,TEMP7		8	2689	V P08 C00 K		44
361	11	110		MZ	@Z@,DECSW		7	2697	Y C91 B88		44
362	11	120		B	DECBB		4	2704	B P15		44
363	11	130	DECB	MZ	@R@,DECSW		7	2708	Y D02 B88		45
364	11	140	DECBB	B	*		4	2715	B P18		45
365	11	150	OUTPAR	B	PUTX		4	2719	B 363		45
366	11	160		DCW	&CLGNSW		3	2725	C10		45
367	11	170		MLC	GNASW,SW1		7	2726	M C07 C11		45
368	11	180	OUTP2	B	PUTX		4	2733	B 363		45
369	11	190		DCW	&SW3		3	2739	C13		45
370	11	200	OUTP1	B	PUTX		4	2740	B 363		46
371	11	210		DCW	&SW6		3	2746	C16		46
372	11	220		MLC	&INPUT1,X3	PUTOUT PARAMETERS	7	2747	M D05 099		46
373	11	230	PUTT1	BCE	PUTMC,0&X3,%		8	2754	B P87 0?0 %		46
374	11	240		MLC	2&X3,SY		7	2762	M 0?2 B75		46
375	11	250		B	PUTX		4	2769	B 363		46
376	12	010		DCW	&SY		3	2775	B75		46
377	12	020		A	@003@,X3		7	2776	A C82 099		47
378	12	030		B	PUTT1		4	2783	B P54		47
379	12	040	PUTMC	B	PUTX		4	2787	B 363		47
380	12	050		DCW	&MCSEP		3	2793	B81		47
381	12	060		B	GETT		4	2794	B T00		47
382	12	070	RPGT	SBR	RPGTBB&3	ARE NAMES INTERMEDIATE RESULTS	4	2798	H R11		47
383	12	080		MLC	ZERO,K2		7	2802	M B78 B25		47
384	12	090		MLC	ZERO		4	2809	M B78		48
385	12	100		C	NM1-2,@Z@		7	2813	C ?73 C91		48
386	12	110		BU	RPGT2	IF YES	5	2820	B Q57 /		48
387	12	120		BWZ	RPGT2,NM1-1,2		8	2825	V Q57 ?74 2		48
388	12	130		MRCM	GNSKEL&3,NM1&1		7	2833	P B48 ?76		48
389	12	140		B	RPDEC		4	2840	B L36		48
390	12	150		DCW	&NM1	MODIFY DECIMALS	3	2846	?75		48
391	12	160			&DEC1		3	2849	?84		49
392	12	170		MLC	DEC1,K1		7	2850	M ?84 B22		49
393	12	180	RPGT2	C	NM2-2,@Z@		7	2857	C A18 C91		49
394	12	190		BU	RPGT3		5	2864	B R01 /		49
395	12	200		BWZ	RPGT3,NM2-1,2		8	2869	V R01 A19 2		49
396	12	210		MRCM	GNSKEL&3,NM2&1		7	2877	P B48 A21		49
397	12	220		B	RPDEC		4	2884	B L36		50

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
398	12	230		DCW	&NM2		3	2890	A20		50
399	12	240			&DEC2		3	2893	A29		50
400	12	250		MLC	DEC2,K2		7	2894	M A29 B25		50
401	13	010	RPGT3	MLC	DEC1,DECACC		7	2901	M ?84 C03		50
402	13	020	RPGTBB	B	*		4	2908	B R11		50
403	13	030	LSTMC	MLC	GNASW,SW4		7	2912	M C07 C14		50
404	13	040		B	PUTX		4	2919	B 363		51
405	13	050		DCW	&CLGNSW		3	2925	C10		51
406	13	060		BCE	LSTMC1,GNASW,0		8	2926	B R96 C07 0		51
407	13	070		MRCM	GNSKEL,NM2-2		7	2934	P B45 A18		51
408	13	080		BM	*&8,RESDEC		8	2941	V R56 C06 K		51
409	13	090		MZ	@ @,RESDEC		7	2949	Y D06 C06		51
410	13	100		MLC	RESDEC,DEC2		7	2956	M C06 A29		52
411	13	110		MLC	RESDEC,DEC3		7	2963	M C06 A74		52
412	13	120		B	DEC		4	2970	B O49		52
413	13	130		MZ	DECSW,SW2		7	2974	Y B88 C12		52
414	13	140		BWZ	LSTMC1,DECSW,2		8	2981	V R96 B88 2		52
415	13	150		MLC	RESDEC,K2		7	2989	M C06 B25		53
416	13	160	LSTMC1	MLC	GNASW,SW1		7	2996	M C07 C11		53
417	13	170		B	PUTX		4	3003	B 363		53
418	13	180		DCW	&SW3		3	3009	C13		53
419	13	190	FREE	BCE	OUTPAR,OPR-2,/		8	3010	B P19 ?70 /		53
420	13	200		MLC	GTLIST,X1	FREE GT AREA	7	3018	M C19 089		53
421	13	210		CS	99&X1		4	3025	/ 0Z9		54
422	13	220		MLC	@|@,0&X1		7	3029	M D07 0|0		54
423	13	230		MLC	X1,RMLOC		7	3036	M 089 M38		54
424	13	240		MLC	ZERO,CLGNSW		7	3043	M B78 C10		54
425	13	250		MLC	ZERO		4	3050	M B78		54
426	14	010		MLC	ZERO		4	3054	M B78		54
427	14	020		BCE	OUTP1,OPR-1,M		8	3058	B P40 ?71 M		55
428	14	030		B	OUTP2		4	3066	B P33		55
429	14	040	OPR	DCW	#3		3	3072			55
430	14	050	INPUT1	EQU	*&1			3073			
431	14	060	NM1	DCW	#3		3	3075			55
432	14	070	SIZE1		#6		6	3081			55
433	14	080	DEC1		#3		3	3084			55
434	14	090	CL1		#3		3	3087			55
435	14	100	WM1		#3		3	3090			56
436	14	110	TYPE1		#3		3	3093			56
437	14	120	JUST		#3		3	3096			56
438	14	130	ED1		#3		3	3099			56
439	14	140	BLK		#3		3	3102			56
440	14	150	MASK		#3		3	3105			56
441	14	160	COBMSK		#3		3	3108			56
442	14	170	EDIT1A		#3		3	3111			57
443	14	180	EDIT1B		#3		3	3114			57
444	14	190	CHCNT		#3		3	3117			57
445	14	200	INPUT2	EQU	*&1			3118			
446	14	210	NM2	DCW	#3		3	3120			57
447	14	220	SIZE2		#6		6	3126			57

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
448	14	230	DEC2		#3		3	3129			57
449	14	240	CL2		#3		3	3132			57
450	14	250	WM2		#3		3	3135			58
451	15	010	TYPE2		#3		3	3138			58
452	15	020	JUST2		#3		3	3141			58
453	15	030	ED2		#3		3	3144			58
454	15	040	BLK2		#3		3	3147			58
455	15	050	MASK2		#3		3	3150			58
456	15	060	COB22		#3		3	3153			58
457	15	070	EDIT2A		#3		3	3156			59
458	15	080	EDIT2B		#3		3	3159			59
459	15	090	CHCNT2		#3		3	3162			59
460	15	100	INPUT3	EQU	*&1			3163			
461	15	110	NM3	DCW	#3		3	3165			59
462	15	120	SIZE3		#6		6	3171			59
463	15	130	DEC3		#3		3	3174			59
464	15	140	CL3		#3		3	3177			59
465	15	150	WM3		#3		3	3180			60
466	15	160	TYPE3		#3		3	3183			60
467	15	170	JUST3		#3		3	3186			60
468	15	180	ED3		#3		3	3189			60
469	15	190	BLK3		#3		3	3192			60
470	15	200	MASK3		#3		3	3195			60
471	15	210	COB3		#3		3	3198			60
472	15	220	EDIT3A		#3		3	3201			61
473	15	230	EDIT3B		#3		3	3204			61
474	15	240	CHCNT3		#3		3	3207			61
475	15	250	I		#3		3	3210			61
476	16	010	I1		#3		3	3213			61
477	16	020	I2		#3		3	3216			61
478	16	030	I3		#3		3	3219			61
479	16	040	K1		#3		3	3222			62
480	16	050	K2		#3		3	3225			62
481	16	060	OP		#3		3	3228			62
482	16	070	GL		#3		3	3231			62
483	16	080	PCT		@%@		1	3232			62
484	16	090	BLANKS	EQU	*&1			3233			
485	16	100		DCW	#11		11	3243			62
486	16	110			@|@		1	3244			62
487	16	120	BLKS	EQU	BLANKS&2			3235			
488	16	130	ILIST	EQU	I-2			3208			
489	16	140	GNSKEL	EQU	*&1			3245			
490	16	150		DCW	@GNN000020	9001	E	K	K|@		63
491	16	160	SY	DCW	#3		3	3275			63
492	16	170	ZERO		000		3	3278			63
493	16	180	MCSEP		@.MC@		3	3281			63
494	16	190	VEOP		@.EP@		3	3284			64
495	16	200	VOP		@.OP@		3	3287			64
496	16	210	DECSW		0		1	3288			64
497	16	220	TEMP		#3		3	3291			64

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
498	16	230	TEMP6		#6		6	3297			64
499	16	240	TEMP7		#3		3	3300			64
500	16	250	DECACC	DCW	000		3	3303			64
501	17	010	RESDEC		000		3	3306			65
502	17	020	GNASW		0		1	3307			65
503	17	030	ARITSW		0		1	3308			65
504	17	040	MLTSW	DC	0		1	3309			65
505	17	050	CLGNSW	DC	0		1	3310			65
506	17	060	SW1	DCW	0		1	3311			65
507	17	070	SW2	DC	0		1	3312			65
508	17	080	SW3	DC	0		1	3313			65
509	17	090	SW4	DCW	0		1	3314			65
510	17	100	SW5	DC	0		1	3315			65
511	17	110	SW6		0		1	3316			65
512	17	120	GTLIST	DCW	>ORG		3	3319	F00		65
513	17	130	TABLE	EQU	*&1			3320			
514	17	140		DCW	&MNADD		3	3322	W48		65
515	17	150			@ &@		3	3325			66
516	17	160			&MNADD		3	3328	W48		66
517	17	170			@ -@		3	3331			66
518	17	180			&AUG		3	3334	X33		66
519	17	190			@)98@		3	3337			66
520	17	200			&AUG		3	3340	X33		66
521	17	210			@)97@		3	3343			66
522	17	220			&MNEXP		3	3346	!86		67
523	17	230			@ **@		3	3349			67
524	17	240			&MNMLT		3	3352	Z48		67
525	17	250			@ *@		3	3355			67
526	18	010			&MNDIV		3	3358	J35		67
527	18	020			@ /@		3	3361			67
528	18	030			&LSTMC		3	3364	R12		67
529	18	040			@.ME@		3	3367			68
530	18	050			@%@		1	3368			68
531	18	060		LTORG					3369		
		123		DCW	&TABLE		3	3371	C20	ADCON	68
					&6		1	3372		LIT	68
					@?@		1	3373		LIT	68
		133			&FREE		3	3376	?10	ADCON	68
		146			&INPUT1		3	3379	?73	ADCON	68
					@003@		3	3382		LIT	69
					@1@		1	3383		LIT	69
					@A@		1	3384		LIT	69
					@021@		3	3387		LIT	69
					@020@		3	3390		LIT	69
					@Z@		1	3391		LIT	69
					@010@		3	3394		LIT	69
					@E@		1	3395		LIT	70
					@006@		3	3398		LIT	70
					@K@		1	3399		LIT	70
					@2@		1	3400		LIT	70

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
					@3@		1	3401		LIT	70
					@R@		1	3402		LIT	70
		372			&INPUT1		3	3405	?73	ADCON	70
					@ @		1	3406		LIT	71
					@|@		1	3407		LIT	71
532	18	070		ORG	3600				3600		
533	18	080	GTORG	EQU	*&1			3600			
534	18	090		DC	@|@		1	3600			72
535	18	100		LTORG					3601		
536	18	110		ORG	3790				3790		
537	18	120		DCW	@}@		1	3790			73
538	18	130		END	GETT				/ T00 080		74

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CLEAR STORAGE 1      ,008015,019026,030,034041,045,053,0570571026      1
CLEAR STORAGE 2      L068112,102106,113/101099/I99,027A070028)027B0010270B0261,001/001113I0      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	010	000	JOB	1401 COBOL - I06						
102	1	020		CTL	631 11						
103	1	030	X1	EQU	89			0089			
104	1	040	X2	EQU	94			0094			
105	1	050	X3	EQU	99			0099			
106	1	060	GETX	EQU	335			0335			
107	1	070	PUTX	EQU	363			0363			
108	1	080	SUPER	EQU	351			0351			
109	1	090	L40	EQU	1300			1300			
110	1	100	L41	EQU	L40&7			1307			
111	1	110	L42	EQU	L41&13			1320			
112	1	120	L43	EQU	L42&16			1336			
113	1	130		ORG	1300				1300		
114	1	140	GETT	EQU	*&1			1300			
115	1	150	GETSY	B	GETX		4	1300	B 335		4
116	1	160		DCW	&SY		3	1306	B20		4
117	1	170			&EOJ		3	1309	U35		4
118	1	180		C	SY,PASSSY		7	1310	C B20 U34		4
119	1	190		BE	GETSY2		5	1317	B T33 S		4
120	1	200		B	PUTX		4	1322	B 363		4
121	1	210		DCW	&SY		3	1328	B20		4
122	1	220		B	GETSY		4	1329	B T00		5
123	1	230	GETSY2	B	GETX		4	1333	B 335		5
124	1	240		DCW	&OPR		3	1339	?48		5
125	1	250			&EOJ		3	1342	U35		5
126	2	010		B	GETX		4	1343	B 335		5
127	2	020		DCW	&SY		3	1349	B20		5
128	2	030			&EOJ		3	1352	U35		5
129	2	040		BCE	ADD,OPR,&		8	1353	B V44 ?48 &		6
130	2	050		BCE	MINUS,OPR,-		8	1361	B W58 ?48 -		6
131	2	060		BCE	AUG,OPR-1,9		8	1369	B X91 ?47 9		6
132	2	070		BCE	MLT,OPR,*		8	1377	B !01 ?48 *		6
133	2	080		BCE	DIV,OPR,/		8	1385	B K25 ?48 /		7
134	2	090		BCE	LSTMC,OPR-1,M		8	1393	B N92 ?47 M		7
135	2	100		BCE	SZERR,OPR-2,/		8	1401	B M88 ?46 /		7
136	2	110		BCE	RELAT,OPR-2,,		8	1409	B P48 ?46 ,		7
137	2	120	PASSMC	B	PUTX		4	1417	B 363		7
138	2	130		DCW	&PASSSY		3	1423	U34		7
139	2	140		B	OUTOP		4	1424	B Q64		8
140	2	150		B	GETSY		4	1428	B T00		8
141	2	160	PASSSY	DCW	@*?*@		3	1434			8
142	2	170	EOJ	B	PUTX		4	1435	B 363		8
143	2	180		DCW	&VEOP		3	1441	B29		8
144	2	190		B	SUPER		4	1442	B 351		8
145	2	200		DCW	@I07@		3	1448			8
146	2	210	READ	SBR	READBB&3		4	1449	H V24		9
147	2	220		B	PUTX		4	1453	B 363		9

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	2	230		DCW	&PASSSY		3	1459	U34		9
149	2	240	GETSY3	B	OUTOP		4	1460	B Q64		9
150	2	250		B	GETX		4	1464	B 335		9
151	3	010		DCW	&CLGNSW		3	1470	?51		9
152	3	020			&EOJ		3	1473	U35		9
153	3	030		BCE	*&5,CLGNSW-2,.		8	1474	B U86 ?49 .		10
154	3	040		B	ADD1		4	1482	B U97		10
155	3	050		B	PUTX		4	1486	B 363		10
156	3	060		DCW	&CLGNSW		3	1492	?51		10
157	3	070		B	GETSY3&4		4	1493	B U64		10
158	3	080	ADD1	MLC	GNA, X2		7	1497	M Q59 094		10
159	3	090	READ1	B	GETX		4	1504	B 335		10
160	3	100		DCW	&SY		3	1510	B20		11
161	3	110			&EOJ		3	1513	U35		11
162	3	120		C	SY,MCSEP		7	1514	C B20 B32		11
163	3	130	READBB	BE	*		5	1521	B V25 S		11
164	3	140		MLC	SY, 2&X2		7	1526	M B20 0!2		11
165	3	150		A	@003@, X2		7	1533	A C57 094		11
166	3	160		B	READ1		4	1540	B V04		11
167	3	170	ADD	B	READ		4	1544	B U49		12
168	3	180		C	SW6, ZERO		7	1548	C ?57 B43		12
169	3	190		BU	MNADD1		5	1555	B W09 /		12
170	3	200		BWZ	MN1, SW2, 2		8	1560	V V87 ?53 2		12
171	3	210		BWZ	MN2, SW2, S		8	1568	V V98 ?53 S		12
172	3	220		MLC	&LBAD3, LAB		7	1576	M C60 B23		12
173	3	230		B	OUTLAB		4	1583	B ?21		13
174	3	240	MN1	MLC	&LBAD1, LAB		7	1587	M C63 B23		13
175	3	250		B	OUTLAB		4	1594	B ?21		13
176	4	010	MN2	MLC	&LBAD2, LAB		7	1598	M C66 B23		13
177	4	020		B	OUTLAB		4	1605	B ?21		13
178	4	030	MNADD1	BCE	MN4, SW6, 1		8	1609	B W36 ?57 1		13
179	4	040		BCE	MN5, SW6, 2		8	1617	B W47 ?57 2		14
180	4	050		MLC	&LBAD6, LAB		7	1625	M C69 B23		14
181	4	060		B	OUTLAB		4	1632	B ?21		14
182	4	070	MN4	MLC	&LBAD4, LAB		7	1636	M C72 B23		14
183	4	080		B	OUTLAB		4	1643	B ?21		14
184	4	090	MN5	MLC	&LBAD5, LAB		7	1647	M C75 B23		14
185	4	100		B	OUTLAB		4	1654	B ?21		15
186	4	110	MINUS	B	READ		4	1658	B U49		15
187	4	120		C	SW6, NULL-2		7	1662	C ?57 B43		15
188	4	130		BU	MIN		5	1669	B X42 /		15
189	4	140		BWZ	MIN1, SW2, 2		8	1674	V X20 ?53 2		15
190	4	150		BWZ	MIN2, SW2, K		8	1682	V X31 ?53 K		15
191	4	160		BWZ	*&12, NM2-1, 2		8	1690	V X09 A04 2		16
192	4	170		MLC	&LBSB3, LAB		7	1698	M C78 B23		16
193	4	180		B	OUTLAB		4	1705	B ?21		16
194	4	190		MLC	&LBSB4, LAB		7	1709	M C81 B23		16
195	4	200		B	OUTLAB		4	1716	B ?21		16
196	4	210	MIN1	MLC	&LBSB1, LAB		7	1720	M C84 B23		16
197	4	220		B	OUTLAB		4	1727	B ?21		17

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
198	4	230	MIN2	MLC	&LBSB2, LAB		7	1731	M C87 B23		17
199	4	240		B	OUTLAB		4	1738	B ?21		17
200	4	250	MIN	BCE	MIN5, SW6, 1		8	1742	B X69 ?57 1		17
201	5	010		BCE	MIN6, SW6, 2		8	1750	B X80 ?57 2		17
202	5	020		MLC	&LBSB7, LAB		7	1758	M C90 B23		17
203	5	030		B	OUTLAB		4	1765	B ?21		18
204	5	040	MIN5	MLC	&LBSB5, LAB		7	1769	M C93 B23		18
205	5	050		B	OUTLAB		4	1776	B ?21		18
206	5	060	MIN6	MLC	&LBSB6, LAB		7	1780	M C96 B23		18
207	5	070		B	OUTLAB		4	1787	B ?21		18
208	5	080	AUG	B	READ		4	1791	B U49		18
209	5	090		BCE	SUB, OPR, 7		8	1795	B Z02 ?48 7		18
210	5	100		C	NM2, GNN		7	1803	C A05 B42		19
211	5	110		BU	AUGA		5	1810	B Y34 /		19
212	5	120		BCE	AUGA, SW5, 1		8	1815	B Y34 ?56 1		19
213	5	130		MLC	&LBAG4, LAB		7	1823	M C99 B23		19
214	5	140		B	OUTLAB		4	1830	B ?21		19
215	5	150	AUGA	BWZ	AUG5, SW2, 2		8	1834	V Y91 ?53 2		19
216	5	160		BWZ	AUG1, SW2, S		8	1842	V Y69 ?53 S		20
217	5	170		BWZ	AUG3, NM1-1, 2		8	1850	V Y80 ?59 2		20
218	5	180		MLC	&LBAG2, LAB		7	1858	M D02 B23		20
219	5	190		B	OUTLAB		4	1865	B ?21		20
220	5	200	AUG1	MLC	&LBAG1, LAB		7	1869	M D05 B23		20
221	5	210		B	OUTLAB		4	1876	B ?21		20
222	5	220	AUG3	MLC	&LBAG3, LAB		7	1880	M D08 B23		21
223	5	230		B	OUTLAB		4	1887	B ?21		21
224	5	240	AUG5	MLC	&LBAG5, LAB		7	1891	M D11 B23		21
225	5	250		B	OUTLAB		4	1898	B ?21		21
226	6	010	SUB	C	NM2, GNN		7	1902	C A05 B42		21
227	6	020		BU	SUBA		5	1909	B Z33 /		21
228	6	030		BCE	SUBA, SW5, 1		8	1914	B Z33 ?56 1		22
229	6	040		MLC	&LBSUB5, LAB		7	1922	M D14 B23		22
230	6	050		B	OUTLAB		4	1929	B ?21		22
231	6	060	SUBA	BWZ	SUB1, SW2, 2		8	1933	V Z68 ?53 2		22
232	6	070		BWZ	SUB2, SW2, S		8	1941	V Z79 ?53 S		22
233	6	080		BWZ	SUB4, NM1-1, 2		8	1949	V Z90 ?59 2		23
234	6	090		MLC	&LBSUB3, LAB		7	1957	M D17 B23		23
235	6	100		B	OUTLAB		4	1964	B ?21		23
236	6	110	SUB1	MLC	&LBSUB1, LAB		7	1968	M D20 B23		23
237	6	120		B	OUTLAB		4	1975	B ?21		23
238	6	130	SUB2	MLC	&LBSUB2, LAB		7	1979	M D23 B23		23
239	6	140		B	OUTLAB		4	1986	B ?21		24
240	6	150	SUB4	MLC	&LBSUB4, LAB		7	1990	M D26 B23		24
241	6	160		B	OUTLAB		4	1997	B ?21		24
242	6	170	MLT	B	READ		4	2001	B U49		24
243	6	180		BCE	EXP, OPR-1, *		8	2005	B J91 ?47 *		24
244	6	190		BWZ	MLT33, NM2-1, 2		8	2013	V !35 A04 2		24
245	6	200		A	DEC2, SIZE2		7	2021	A A14 A11		25
246	6	210		MZ	NULL, SIZE2		7	2028	Y B45 A11		25
247	6	220	MLT33	MLC	@065@, I1		7	2035	M D29 A98		25

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
248	6	230		S	SIZE1,I1			7	2042	S ?66 A98	25
249	6	240		MLZS	@ @,I1			7	2049	Y D30 A98	25
250	6	250		MLC	@064@,I2			7	2056	M D33 B01	26
251	7	010		S	SIZE1,I2			7	2063	S ?66 B01	26
252	7	020		BCE	*&12,OPR-1,*			8	2070	B !89 ?47 *	26
253	7	030		S	SIZE2,I2			7	2078	S A11 B01	26
254	7	040		B	*&8			4	2085	B !96	26
255	7	050		S	SIZE1,I2			7	2089	S ?66 B01	27
256	7	060		MLZS	@ @,I2			7	2096	Y D30 B01	27
257	7	070		BWZ	MLT22&11,NM3-1,2			8	2103	V J80 A49 2	27
258	7	080		MLC	DEC1,I3			7	2111	M ?69 B04	27
259	7	090		A	DEC2,I3			7	2118	A A14 B04	27
260	7	100		C	I3,@021@			7	2125	C B04 D36	28
261	7	110		BH	MLT22			5	2132	B J69 U	28
262	7	120		MLC	&LBMLT3,LAB			7	2137	M D39 B23	28
263	7	130		A	I2,I3			7	2144	A B01 B04	28
264	7	140		S	@020@,I3			7	2151	S D42 B04	28
265	7	150		MZ	@020@,I3			7	2158	Y D42 B04	29
266	7	160		B	OUTLAB			4	2165	B ?21	29
267	7	170	MLT22	MLC	&LBMLT2,LAB			7	2169	M D45 B23	29
268	7	180		B	OUTLAB			4	2176	B ?21	29
269	7	190		MLC	&LBMLT1,LAB			7	2180	M D48 B23	29
270	7	200		B	OUTLAB			4	2187	B ?21	29
271	7	210	EXP	C	DEC2,NULL	DOES EXP. HAVE DECIMAL		7	2191	C A14 B45	30
272	7	220		BE	*&12			5	2198	B K14 S	30
273	7	230		MLC	&CLLEXZ,LAB	DECIMAL EXP. SUBR. %.Q6)		7	2203	M D51 B23	30
274	7	240		B	OUTLAB			4	2210	B ?21	30
275	7	250		MLC	&CLLEFZ,LAB	INTEGER EXP. SUBR. %.G9)		7	2214	M D54 B23	30
276	8	010		B	OUTLAB			4	2221	B ?21	30
277	8	020	DIV	MLC	NULL,TEMP			7	2225	M B45 B39	31
278	8	030		B	READ			4	2232	B U49	31
279	8	040		BM	*&5,DEC2	DIVIDE		8	2236	V K48 A14 K	31
280	8	050		B	IDIV2			4	2244	B K76	31
281	8	060		S	DEC2,TEMP			7	2248	S A14 B39	31
282	8	070		MLZS	@ @,TEMP	PARAMETERS		7	2255	Y D30 B39	31
283	8	080		A	TEMP,SIZE2			7	2262	A B39 A11	32
284	8	090		MLC	NULL,DEC2			7	2269	M B45 A14	32
285	8	100	IDIV2	C	SIZE2,DEC2			7	2276	C A11 A14	32
286	8	110		BL	*&8			5	2283	B K95 T	32
287	8	120		MLC	DEC2,SIZE2			7	2288	M A14 A11	32
288	8	130		C	SIZE1,DEC1			7	2295	C ?66 ?69	33
289	8	140		BL	*&8			5	2302	B L14 T	33
290	8	150		MLC	DEC1,SIZE1			7	2307	M ?69 ?66	33
291	8	160		MLC	SIZE1,I			7	2314	M ?66 A95	33
292	8	170		A	SIZE2,I			7	2321	A A11 A95	33
293	8	180		A	DEC2,I			7	2328	A A14 A95	34
294	8	190		A	@1@,I			7	2335	A D55 A95	34
295	8	200		MLC	DEC2,I1			7	2342	M A14 A98	34
296	8	210		A	@1@,I1			7	2349	A D55 A98	34
297	8	220		MLC	SIZE1,I2			7	2356	M ?66 B01	34

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
298	8	230		A	DEC2,I2	7		2363	A A14 B01		35
299	8	240		A	TEMP,I2	7		2370	A B39 B01		35
300	8	250		MLC	SIZE2,I3	7		2377	M A11 B04		35
301	9	010		A	@1@,I3	7		2384	A D55 B04		35
302	9	020		A	K2,I3	7		2391	A B10 B04		35
303	9	030		BWZ	IDIVZ,NM3-1,2	8		2398	V M40 A49 2		36
304	9	040		C	I1,NULL	7		2406	C A98 B45		36
305	9	050		BE	IDIV4	5		2413	B M29 S		36
306	9	060		MLC	&LBDV2,LAB	7		2418	M D58 B23		36
307	9	070		B	OUTLAB	4		2425	B ?21		36
308	9	080	IDIV4	MLC	&LBDV4,LAB	7		2429	M D61 B23		36
309	9	090		B	OUTLAB	4		2436	B ?21		37
310	9	100	IDIVZ	S	@1@,I1	7		2440	S D55 A98		37
311	9	110		MZ	@ @,I1	7		2447	Y D30 A98		37
312	9	120		C	I1,NULL	7		2454	C A98 B45		37
313	9	130		BE	IDIV3	5		2461	B M77 S		37
314	9	140		MLC	&LBDV1,LAB	7		2466	M D64 B23		37
315	9	150		B	OUTLAB	4		2473	B ?21		38
316	9	160	IDIV3	MLC	&LBDV3,LAB	7		2477	M D67 B23		38
317	9	170		B	OUTLAB	4		2484	B ?21		38
318	9	180	SZERR	B	READ	4		2488	B U49		38
319	9	190		MLC	NM3,GL	7		2492	M A50 B16		38
320	9	200		MLC	SIZE1,I	7		2499	M ?66 A95		38
321	9	210		S	DEC1,I	7		2506	S ?69 A95		39
322	9	220		BM	*&5,I	8		2513	V N25 A95 K		39
323	9	230		B	*&8	4		2521	B N32		39
324	9	240		MLC	NULL,I	7		2525	M B45 A95		39
325	9	250		MZ	@ @,I	7		2532	Y D30 A95		39
326	10	010	SZERR1	MLC	&L28,LABADR	7		2539	M D70 N52		40
327	10	020		B	PUTT	4		2546	B R48		40
328	10	030	LABADR	DCW	*	3		2552	N52		40
329	10	040		MLC	PCT,TYPE2&1	7		2553	M B17 A24		40
330	10	050		MLC	PCT,SIZE3&1	7		2560	M B17 A57		40
331	10	060		B	PUTT	4		2567	B R48		40
332	10	070		DCW	&INPUT1	3		2573	?58		40
333	10	080		B	PUTT	4		2574	B R48		41
334	10	090		DCW	&INPUT3	3		2580	A48		41
335	10	100		B	PUTT	4		2581	B R48		41
336	10	110		DCW	&ILIST	3		2587	A93		41
337	10	120		B	OUT	4		2588	B ?10		41
338	10	130	LSTMC	B	READ	4		2592	B U49		41
339	10	140		BCE	LSTMC1,SW4,1	8		2596	B O08 ?55 1		41
340	10	150		B	OUTA	4		2604	B ?03		42
341	10	160	LSTMC1	BCE	LST1,ED1,K	8		2608	B O80 ?84 K		42
342	10	170		MLC	@*16@,OPR	7		2616	M D73 ?48		42
343	10	180		B	PUTX	4		2623	B 363		42
344	10	190		DCW	&NULL	3		2629	B45		42
345	10	200		B	PUTX	4		2630	B 363		42
346	10	210		DCW	&MCSEP	3		2636	B32		42
347	10	220		B	PUTX	4		2637	B 363		43

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
348	10	230		DCW	&@.LC@		3	2643	D76		43
349	10	240		B	PUTX		4	2644	B 363		43
350	10	250		DCW	&PASSSY		3	2650	U34		43
351	11	010		B	OUTOP		4	2651	B Q64		43
352	11	020		B	PUTX		4	2655	B 363		43
353	11	030		DCW	&SW3		3	2661	?54		43
354	11	040		B	PUTX		4	2662	B 363		44
355	11	050		DCW	&SW6		3	2668	?57		44
356	11	060		B	PUTT		4	2669	B R48		44
357	11	070		DCW	&INPUT1		3	2675	?58		44
358	11	080		B	OUT		4	2676	B ?10		44
359	11	090	LST1	BWZ	LST2, SW2, 2		8	2680	V P18 ?53	2	44
360	11	100		BCE	*&12, MLTSW, 1		8	2688	B P07 ?50	1	44
361	11	110		MLC	&ENDLB, LAB		7	2696	M D79 B23		45
362	11	120		B	OUTLAB		4	2703	B ?21		45
363	11	130		MLC	&ENDLB2, LAB		7	2707	M D82 B23		45
364	11	140		B	OUTLAB		4	2714	B ?21		45
365	11	150	LST2	BCE	*&12, MLTSW, 1		8	2718	B P37 ?50	1	45
366	11	160		MLC	&ENDLB1, LAB		7	2726	M D85 B23		45
367	11	170		B	OUTLAB		4	2733	B ?21		46
368	11	180		MLC	&ENDLB3, LAB		7	2737	M D88 B23		46
369	11	190		B	OUTLAB		4	2744	B ?21		46
370	11	200	RELAT	MLC	&RELAT1, READBB&3		7	2748	M D91 V24		46
371	11	210		B	ADD1		4	2755	B U97		46
372	11	220	RELAT1	C	TWEN, SIZE1		7	2759	C B48 ?66		46
373	11	230		BH	RELS1		5	2766	B P87 U		46
374	11	240		C	TWEN, SIZE2		7	2771	C B48 A11		47
375	11	250		BH	RELS1		5	2778	B P87 U		47
376	12	010		B	*&8		4	2783	B P94		47
377	12	020	RELS1	MLC	@1@, SW6		7	2787	M D55 ?57		47
378	12	030		B	LKP		4	2794	B Q86		47
379	12	040		DCW	&RELTAB		3	2800	B59		47
380	12	050			&OP		3	2803	B13		47
381	12	060		B	LKP		4	2804	B Q86		48
382	12	070		DCW	&JOLTAB		3	2810	C31		48
383	12	080			&I1		3	2813	A98		48
384	12	090		BWZ	RELS2, SW5, 2		8	2814	V Q42 ?56	2	48
385	12	100		B	LKP		4	2822	B Q86		48
386	12	110		DCW	&SWOPTB		3	2828	C07		48
387	12	120			&I2		3	2831	B01		48
388	12	130		B	LKP		4	2832	B Q86		49
389	12	140		DCW	&BRTAB		3	2838	B83		49
390	12	150			&I3		3	2841	B04		49
391	12	160	RELS2	B	PUTX		4	2842	B 363		49
392	12	170		DCW	&PASSSY		3	2848	U34		49
393	12	180		B	OUTOP		4	2849	B Q64		49
394	12	190		B	PUTT		4	2853	B R48		49
395	12	200	GNA	DCW	&GNASW		3	2859	?52		50
396	12	210		B	OUT		4	2860	B ?10		50
397	12	220	OUTOP	SBR	OUTBB&3	PUTOUT OPR, VOP	4	2864	H Q85		50

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
398	12	230		B	PUTX		4	2868	B 363		50
399	12	240		DCW	&OPR		3	2874	?48		50
400	12	250		B	PUTX		4	2875	B 363		50
401	13	010		DCW	&VOP		3	2881	B35		50
402	13	020	OUTBB	B	*		4	2882	B Q85		51
403	13	030	LKP	SBR	X1		4	2886	H 089		51
404	13	040		MLC	2&X1 ,X2		7	2890	M 0|2 094		51
405	13	050		MLC	5&X1 ,LKP3&6		7	2897	M 0|5 R40		51
406	13	060		A	@006@ ,X1		7	2904	A D94 089		51
407	13	070	LKPA	C	5&X2 ,OPR		7	2911	C 0|5 ?48		51
408	13	080		BE	LKP3		5	2918	B R34 S		52
409	13	090		A	&6 ,X2		7	2923	A D95 094		52
410	13	100		B	LKPA		4	2930	B R11		52
411	13	110	LKP3	MLC	2&X2 ,*		7	2934	M 0|2 R40		52
412	13	120		B	0&X1		4	2941	B 0|0		52
413	13	130	BLKS	DCW	#3		3	2947			52
414	13	140	PUTT	SBR	X2		4	2948	H 094		52
415	13	150		MLC	2&X2 ,X3		7	2952	M 0|2 099		53
416	13	160	PUTT1	BCE	PUTTBB,0&X3 ,%		8	2959	B R92 0?0 %		53
417	13	170		MLC	2&X3 ,SY		7	2967	M 0?2 B20		53
418	13	180		B	PUTX		4	2974	B 363		53
419	13	190		DCW	&SY		3	2980	B20		53
420	13	200		A	@003@ ,X3		7	2981	A C57 099		53
421	13	210		B	PUTT1		4	2988	B R59		54
422	13	220	PUTTBB	A	@003@ ,X2		7	2992	A C57 094		54
423	13	230		B	0&X2		4	2999	B 0|0		54
424	13	240	OUTA	B	PUTX		4	3003	B 363		54
425	13	250		DCW	&NULL		3	3009	B45		54
426	14	010	OUT	B	PUTX		4	3010	B 363		54
427	14	020		DCW	&MCSEP		3	3016	B32		54
428	14	030		B	GETT		4	3017	B T00		55
429	14	040	OUTLAB	B	PUTX		4	3021	B 363		55
430	14	050		DCW	&CLGNSW		3	3027	?51		55
431	14	060	OTLB	B	PUTX		4	3028	B 363		55
432	14	070		DCW	&LAB		3	3034	B23		55
433	14	080		B	PUTT		4	3035	B R48		55
434	14	090		DCW	&INPUT1		3	3041	?58		55
435	14	100		B	OUT		4	3042	B ?10		56
436	14	110	OPR	DCW	#3		3	3048			56
437	14	120	ARITSW	DCW	0		1	3049			56
438	14	130	MLTSW	DC	0		1	3050			56
439	14	140	CLGNSW		0		1	3051			56
440	14	150	GNASW	DCW	0		1	3052			56
441	14	160	SW2	DC	0		1	3053			56
442	14	170	SW3		0		1	3054			56
443	14	180	SW4	DCW	0		1	3055			56
444	14	190	SW5	DC	0		1	3056			56
445	14	200	SW6		0		1	3057			56
446	14	210	INPUT1	EQU	*&1			3058			
447	14	220	NM1	DCW	#3		3	3060			56

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
448	14	230	SIZE1		#6		6	3066			56
449	14	240	DEC1		#3		3	3069			57
450	14	250	CL1		#3		3	3072			57
451	15	010	WM1		#3		3	3075			57
452	15	020	TYPE1		#3		3	3078			57
453	15	030	JUST		#3		3	3081			57
454	15	040	ED1		#3		3	3084			57
455	15	050	BLK		#3		3	3087			57
456	15	060	MASK		#3		3	3090			58
457	15	070	COBMSK		#3		3	3093			58
458	15	080	EDIT1A		#3		3	3096			58
459	15	090	EDIT1B		#3		3	3099			58
460	15	100	CHCNT		#3		3	3102			58
461	15	110	INPUT2	EQU	*&1			3103			
462	15	120	NM2	DCW	#3		3	3105			58
463	15	130	SIZE2		#6		6	3111			58
464	15	140	DEC2		#3		3	3114			59
465	15	150	CL2		#3		3	3117			59
466	15	160	WM2		#3		3	3120			59
467	15	170	TYPE2		#3		3	3123			59
468	15	180	JUST2		#3		3	3126			59
469	15	190	ED2		#3		3	3129			59
470	15	200	BLK2		#3		3	3132			59
471	15	210	MASK2		#3		3	3135			60
472	15	220	COB22		#3		3	3138			60
473	15	230	EDIT2A		#3		3	3141			60
474	15	240	EDIT2B		#3		3	3144			60
475	15	250	CHCNT2		#3		3	3147			60
476	16	010	INPUT3	EQU	*&1			3148			
477	16	020	NM3	DCW	#3		3	3150			60
478	16	030	SIZE3		#6		6	3156			60
479	16	040	DEC3		#3		3	3159			61
480	16	050	CL3		#3		3	3162			61
481	16	060	WM3		#3		3	3165			61
482	16	070	TYPE3		#3		3	3168			61
483	16	080	JUST3		#3		3	3171			61
484	16	090	ED3		#3		3	3174			61
485	16	100	BLK3		#3		3	3177			61
486	16	110	MASK3		#3		3	3180			62
487	16	120	COB3		#3		3	3183			62
488	16	130	EDIT3A		#3		3	3186			62
489	16	140	EDIT3B		#3		3	3189			62
490	16	150	CHCNT3		#3		3	3192			62
491	16	160	ILIST	EQU	*&1			3193			
492	16	170	I	DCW	#3		3	3195			62
493	16	180	I1		#3		3	3198			62
494	16	190	I2		#3		3	3201			63
495	16	200	I3		#3		3	3204			63
496	16	210	K1		#3		3	3207			63
497	16	220	K2		#3		3	3210			63

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
498	16	230	OP		#3		3	3213			63
499	16	240	GL		#3		3	3216			63
500	16	250	PCT		@%@		1	3217			63
501	17	010	SY	DCW	#3		3	3220			64
502	17	020	LAB		#3		3	3223			64
503	17	030	MESS4		@.Q7@		3	3226			64
504	17	040	VEOP		@.EP@		3	3229			64
505	17	050	MCSEP		@.MC@		3	3232			64
506	17	060	VOP		@.OP@		3	3235			64
507	17	070			0		1	3236			64
508	17	080	TEMP		#3		3	3239			65
509	17	090	GNN		@GNN@		3	3242			65
510	17	100	NULL		000		3	3245			65
511	17	110	TWEN	DC	020		3	3248			65
512	17	120	ZERO	EQU	NULL-2			3243			
513	17	130	L28	EQU	*&1			3249			
514	17	140		DCW	@.N5.N6.I4%@	SIZE ERROR	10	3258			65
515	17	150	EXPCLL	EQU	1300			1300			
516	17	160	LBMLT1	EQU	EXPCLL&4			1304			
517	17	170	LBMLT2	EQU	LBMLT1&10			1314			
518	17	180	LBDV1	EQU	LBMLT2&13			1327			
519	17	190	LBDV2	EQU	LBDV1&25			1352			
520	17	200	LBSB1	EQU	LBDV2&28			1380			
521	17	210	LBSB2	EQU	LBSB1&10			1390			
522	17	220	LBSB3	EQU	LBSB2&13			1403			
523	17	230	LBSB4	EQU	LBSB3&13			1416			
524	17	240	LBSB5	EQU	LBSB4&16			1432			
525	17	250	LBSB6	EQU	LBSB5&10			1442			
526	18	010	LBSB7	EQU	LBSB6&10			1452			
527	18	020	LBAD1	EQU	LBSB7&7			1459			
528	18	030	LBAD2	EQU	LBAD1&10			1469			
529	18	040	LBAD3	EQU	LBAD2&13			1482			
530	18	050	LBAD4	EQU	LBAD3&13			1495			
531	18	060	LBAD5	EQU	LBAD4&10			1505			
532	18	070	LBAD6	EQU	LBAD5&10			1515			
533	18	080	LBAG1	EQU	LBAD6&7			1522			
534	18	090	LBAG2	EQU	LBAG1&7			1529			
535	18	100	LBAG3	EQU	LBAG2&7			1536			
536	18	110	LBAG4	EQU	LBAG3&13			1549			
537	18	120	LBAG5	EQU	LBAG4&4			1553			
538	18	130	LBSUB1	EQU	LBAG5&4			1557			
539	18	140	LBSUB2	EQU	LBSUB1&4			1561			
540	18	150	LBSUB3	EQU	LBSUB2&7			1568			
541	18	160	LBSUB4	EQU	LBSUB3&7			1575			
542	18	170	LBSUB5	EQU	LBSUB4&13			1588			
543	18	180	ENDLB	EQU	LBSUB5&4			1592			
544	18	190	ENDLB1	EQU	ENDLB&7			1599			
545	18	200	ENDLB2	EQU	ENDLB1&4			1603			
546	18	210	ENDLB3	EQU	ENDLB2&7			1610			
547	18	220	CLLEXZ	EQU	ENDLB3&4			1614			

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
548	18	230	CLLEFZ	EQU	CLLEXZ&4			1618			
549	18	240	LBMLT3	EQU	CLLEFZ&4			1622			
550	18	250	LBDV3	EQU	LBMLT3&13			1635			
551	19	010	LBDV4	EQU	LBDV3&19			1654			
552	19	020		ORG					3259		
553	19	030	RELTAB	EQU	*&1			3259			
554	19	040		DCW	@BE @	3		3261			65
555	19	050		DCW	#, #@	3		3264			65
556	19	060			@BU @	3		3267			65
557	19	070			#,NE@	3		3270			66
558	19	080			@BL @	3		3273			66
559	19	090			#,20@	3		3276			66
560	19	100			@BH @	3		3279			66
561	19	110			#,21@	3		3282			66
562	19	120	BRTAB	EQU	*&1			3283			
563	19	130		DCW	&L40	3		3285	T00		66
564	19	140		DCW	#, #@	3		3288			66
565	19	150			&L41	3		3291	T07		67
566	19	160			#,NE@	3		3294			67
567	19	170			&L42	3		3297	T20		67
568	19	180			#,20@	3		3300			67
569	19	190			&L43	3		3303	T36		67
570	19	200			#,21@	3		3306			67
571	19	210	SWOPTB	EQU	*&1			3307			
572	19	220		DCW	&L40	3		3309	T00		67
573	19	230		DCW	#, #@	3		3312			68
574	19	240			&L41	3		3315	T07		68
575	19	250			#,NE@	3		3318			68
576	20	010			&L43	3		3321	T36		68
577	20	020			#,20@	3		3324			68
578	20	030			&L42	3		3327	T20		68
579	20	040			#,21@	3		3330			68
580	20	050	JOLTAB	EQU	*&1			3331			
581	20	060		DCW	@ // @	3		3333			69
582	20	070			#, #@	3		3336			69
583	20	080			@ SS@	3		3339			69
584	20	090			#,NE@	3		3342			69
585	20	100			@ TS@	3		3345			69
586	20	110			#,20@	3		3348			69
587	20	120			@ US@	3		3351			69
588	20	130			#,21@	3		3354			70
589	20	140		LTORG					3355		
				DCW	@003@	3		3357		LIT	70
		172			&LBAD3	3		3360	U82	ADCON	70
		174			&LBAD1	3		3363	U59	ADCON	70
		176			&LBAD2	3		3366	U69	ADCON	70
		180			&LBAD6	3		3369	V15	ADCON	70
		182			&LBAD4	3		3372	U95	ADCON	70
		184			&LBAD5	3		3375	V05	ADCON	71
		192			&LBSB3	3		3378	U03	ADCON	71

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
		194			&LBSB4	3		3381	U16	ADCON	71
		196			&LBSB1	3		3384	T80	ADCON	71
		198			&LBSB2	3		3387	T90	ADCON	71
		202			&LBSB7	3		3390	U52	ADCON	71
		204			&LBSB5	3		3393	U32	ADCON	71
		206			&LBSB6	3		3396	U42	ADCON	72
		213			&LBAG4	3		3399	V49	ADCON	72
		218			&LBAG2	3		3402	V29	ADCON	72
		220			&LBAG1	3		3405	V22	ADCON	72
		222			&LBAG3	3		3408	V36	ADCON	72
		224			&LBAG5	3		3411	V53	ADCON	72
		229			&LBSUB5	3		3414	V88	ADCON	72
		234			&LBSUB3	3		3417	V68	ADCON	73
		236			&LBSUB1	3		3420	V57	ADCON	73
		238			&LBSUB2	3		3423	V61	ADCON	73
		240			&LBSUB4	3		3426	V75	ADCON	73
					@065@	3		3429		LIT	73
					@ @	1		3430		LIT	73
					@064@	3		3433		LIT	73
					@021@	3		3436		LIT	74
		262			&LBMLT3	3		3439	W22	ADCON	74
					@020@	3		3442		LIT	74
		267			&LBMLT2	3		3445	T14	ADCON	74
		269			&LBMLT1	3		3448	T04	ADCON	74
		273			&CLLEXZ	3		3451	W14	ADCON	74
		275			&CLLEFZ	3		3454	W18	ADCON	74
					@1@	1		3455		LIT	75
		306			&LBDV2	3		3458	T52	ADCON	75
		308			&LBDV4	3		3461	W54	ADCON	75
		314			&LBDV1	3		3464	T27	ADCON	75
		316			&LBDV3	3		3467	W35	ADCON	75
		326			&L28	3		3470	B49	ADCON	75
					@*16@	3		3473		LIT	75
					@.LC@	3		3476		LIT	76
		361			&ENDLB	3		3479	V92	ADCON	76
		363			&ENDLB2	3		3482	W03	ADCON	76
		366			&ENDLB1	3		3485	V99	ADCON	76
		368			&ENDLB3	3		3488	W10	ADCON	76
		370			&RELAT1	3		3491	P59	ADCON	76
					@006@	3		3494		LIT	76
					&6	1		3495		LIT	77
590	20	150		ORG	3790				3790		
591	20	160		DCW	@}@	1		3790			78
592	20	170		END	GETT				/ T00 080		79


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CLEAR STORAGE 1      ,008015,019026,030,034041,045,053,0570571026      1
CLEAR STORAGE 2      L068112,102106,113/101099/I99,027A070028)027B0010270B0261,001/001113I0      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	010	000	JOB	1401 COBOL - I07						
102	1	020		CTL	631 11						
103	1	030	X1	EQU	89			0089			
104	1	040	X2	EQU	94			0094			
105	1	050	X3	EQU	99			0099			
106	1	060	PUTX	EQU	363			0363			
107	1	070	GETX	EQU	335			0335			
108	1	080	SUPER	EQU	351			0351			
109	1	090		ORG	1300				1300		
110	1	100	EXPCLL	EQU	*&1			1300			
111	1	110		DCW	@.Q6%@	4		1303			4
112	1	120	LBMLT1	EQU	*&1			1304			
113	1	130		DCW	@.D6.D1.D2%@	10		1313			4
114	1	140	LBMLT2	EQU	*&1			1314			
115	1	150		DCW	@.D6.D1.D4.D3%@	13		1326			4
116	1	160	LBDV1	EQU	*&1			1327			
117	1	170		DCW	@.Y8.D5.D6.Y9.Z0.D7.D8.D9%@	25		1351			5
118	1	180	LBDV2	EQU	*&1			1352			
119	1	190		DCW	@.Y8.D5.D6.Y9.Z0.D7.D4.E0.D9%@	28		1379			6
120	1	200	LBSB1	EQU	*&1			1380			
121	1	210		DCW	@.D4.A4.B3%@	10		1389			6
122	1	220	LBSB2	EQU	*&1			1390			
123	1	230		DCW	@.D4.A4.A7.B3%@	13		1402			7
124	1	240	LBSB3	EQU	*&1			1403			
125	1	250		DCW	@.D4.A4.B4.B5%@	13		1415			7
126	2	010	LBSB4	EQU	*&1			1416			
127	2	020		DCW	@.D4.A4.A7.B3.A6%@	16		1431			8
128	2	030	LBSB5	EQU	*&1			1432			
129	2	040		DCW	@.A3.A8.S0%@	10		1441			8
130	2	050	LBSB6	EQU	*&1			1442			
131	2	060		DCW	@.A3.R3.B1%@	10		1451			8
132	2	070	LBSB7	EQU	*&1			1452			
133	2	080		DCW	@.B1.B6%@	7		1458			9
134	2	090	LBAD1	EQU	*&1			1459			
135	2	100		DCW	@.D4.A4.A5%@	10		1468			9
136	2	110	LBAD2	EQU	*&1			1469			
137	2	120		DCW	@.D4.A5.A6.A4%@	13		1481			9
138	2	130	LBAD3	EQU	*&1			1482			
139	2	140		DCW	@.D4.A4.A7.A5%@	13		1494			10
140	2	150	LBAD4	EQU	*&1			1495			
141	2	160		DCW	@.A3.A8.A9%@	10		1504			10
142	2	170	LBAD5	EQU	*&1			1505			
143	2	180		DCW	@.A3.B0.B1%@	10		1514			10
144	2	190	LBAD6	EQU	*&1			1515			
145	2	200		DCW	@.B1.B2%@	7		1521			11
146	2	210	LBAG1	EQU	*&1			1522			
147	2	220		DCW	@.B4.B9%@	7		1528			11

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	2	230	LBAG2	EQU	*&1			1529			
149	2	240		DCW	@.C0.C1%@		7	1535			11
150	2	250	LBAG3	EQU	*&1			1536			
151	3	010		DCW	@.N5.C9.Y4.Z3%@		13	1548			11
152	3	020	LBAG4	EQU	*&1			1549			
153	3	030		DCW	@.A8%@		4	1552			11
154	3	040	LBAG5	EQU	*&1			1553			
155	3	050		DCW	@.B8%@		4	1556			12
156	3	060	LBSUB1	EQU	*&1			1557			
157	3	070		DCW	@.C4%@		4	1560			12
158	3	080	LBSUB2	EQU	*&1			1561			
159	3	090		DCW	@.C5.C6%@		7	1567			12
160	3	100	LBSUB3	EQU	*&1			1568			
161	3	110		DCW	@.C7.C8%@		7	1574			12
162	3	120	LBSUB4	EQU	*&1			1575			
163	3	130		DCW	@.N5.C9.Y4.Y5%@		13	1587			12
164	3	140	LBSUB5	EQU	*&1			1588			
165	3	150		DCW	@.S1%@		4	1591			12
166	3	160	ENDLB	EQU	*&1			1592			
167	3	170		DCW	@.B4.F1 %@		7	1598			13
168	3	180	ENDLB1	EQU	*&1			1599			
169	3	190		DCW	@.F1%@		4	1602			13
170	3	200	ENDLB2	EQU	*&1			1603			
171	3	210		DCW	@.B4.P6%@		7	1609			13
172	3	220	ENDLB3	EQU	*&1			1610			
173	3	230		DCW	@.P6%@		4	1613			13
174	3	240	CLLEXZ	EQU	*&1			1614			
175	3	250		DCW	@.Q6%@		4	1617			13
176	4	010	CLLEFZ	EQU	*&1			1618			
177	4	020		DCW	@.G9%@		4	1621			13
178	4	030	LBMLT3	EQU	*&1			1622			
179	4	040		DCW	@.D6.D1.W7.X3%@		13	1634			14
180	4	050	LBDV3	EQU	*&1			1635			
181	4	060		DCW	@.Y8.D5.D6.D7.D8.D9%@		19	1653			14
182	4	070	LBDV4	EQU	*&1			1654			
183	4	080		DCW	@.Y8.D5.D6.D7.D4.E0.D9%@		22	1675			15
184	4	090	EDITLB	EQU	*&1			1676			
185	4	100		DCW	@.H2%@		4	1679			15
186	4	110	GETT	MLC	NULL,CLEAR		7	1680	M C28 J39		15
187	4	120		MLC	NULL,SW4		7	1687	M C28 B93		16
188	4	130	GETSY	B	GETX	GET UNTIL *\$%	4	1694	B 335		16
189	4	140		DCW	&SY		3	1700	B80		16
190	4	150			&EOJ		3	1703	Y05		16
191	4	160		C	SY,PASSSY		7	1704	C B80 Y04		16
192	4	170		BE	GETSY2		5	1711	B X27 S		16
193	4	180		B	PUTX		4	1716	B 363		16
194	4	190		DCW	&SY		3	1722	B80		17
195	4	200		B	GETSY		4	1723	B W94		17
196	4	210	GETSY2	B	GETX		4	1727	B 335		17
197	4	220		DCW	&OPR		3	1733	A17		17

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
198	4	230			&EOJ		3	1736	Y05		17
199	4	240		B	GETX		4	1737	B 335		17
200	4	250		DCW	&LAB		3	1743	C31		17
201	5	010			&EOJ		3	1746	Y05		18
202	5	020		BCE	ARITH,OPR-2,		8	1747	B Y19 A15		18
203	5	030		BCE	ARITH,OPR-1,9		8	1755	B Y19 A16 9		18
204	5	040		BCE	ARITH,OPR-1,M		8	1763	B Y19 A16 M		18
205	5	050		BCE	GIV,OPR-2,*		8	1771	B K36 A15 *		18
206	5	060		BCE	POSNEG,OPR-2,#		8	1779	B Y64 A15 #		19
207	5	070		B	PUTX	PASS THRU MACRO	4	1787	B 363		19
208	5	080		DCW	&PASSSY		3	1793	Y04		19
209	5	090		B	OUTOP		4	1794	B ?41		19
210	5	100		B	GETSY		4	1798	B W94		19
211	5	110	PASSSY	DCW	@* \$* @		3	1804			19
212	5	120	EOJ	B	PUTX		4	1805	B 363		19
213	5	130		DCW	&VEOP		3	1811	B86		20
214	5	140		B	SUPER		4	1812	B 351		20
215	5	150		DCW	@I08@		3	1818			20
216	5	160	ARITH	B	READ		4	1819	B Y79		20
217	5	170		BCE	* & 8, CHGSW, 0		8	1823	B Y38 B96 0		20
218	5	180		MLC	@J@, ARITSW		7	1831	M E39 B90		20
219	5	190		BCE	* & 8, CLSW, 0		8	1838	B Y53 B97 0		20
220	5	200		MZ	@E@, CLGNSW		7	1846	Y E40 B92		21
221	5	210		MLC	SW6, LAB		7	1853	M B95 C31		21
222	5	220		B	ARDIG		4	1860	B Z85		21
223	5	230	POSNEG	B	READ		4	1 864	B Y79		21
224	5	240		MLC	NM2, GL		7	1 868	M A65 B76		21
225	5	250		B	OUTLB1		4	1875	B J55		21
226	6	010	READ	SBR	READBB&3		4	1879	H Z65		21
227	6	020		B	OUTOP		4	1883	B ?41		22
228	6	030	GETSY3	B	GETX		4	1887	B 335		22
229	6	040		DCW	&CLGNSW		3	1893	B92		22
230	6	050			&EOJ		3	1896	Y05		22
231	6	060		BCE	* & 5, CLGNSW-2, .		8	1897	B Z09 B90 .		22
232	6	070		B	ADD1		4	1905	B Z20		22
233	6	080		B	PUTX		4	1909	B 363		22
234	6	090		DCW	&CLGNSW		3	1915	B92		23
235	6	100		B	GETSY3		4	1916	B Y87		23
236	6	110	ADD1	B	GETX		4	1920	B 335		23
237	6	120		DCW	&SW6		3	1926	B95		23
238	6	130			&EOJ		3	1929	Y05		23
239	6	140		BCE	OUTA, SW4, .		8	1930	B ?63 B93 .		23
240	6	150		MLC	&INPUT1, X2		7	1938	M E43 094		23
241	6	160	READ1	B	GETX		4	1945	B 335		24
242	6	170		DCW	&SY		3	1951	B80		24
243	6	180			&EOJ		3	1954	Y05		24
244	6	190		C	SY, MCSEP		7	1955	C B80 B83		24
245	6	200	READBB	BE	*		5	1962	B Z66 S		24
246	6	210		MLC	SY, 2&X2		7	1967	M B80 012		24
247	6	220		A	@003@, X2		7	1974	A E46 094		24

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
248	6	230		B	READ1		4	1981	B Z45		25
249	6	240	ARDIG	B	WMK		4	1985	B ?81		25
250	6	250		BCE	*&5,OPR-2,		8	1989	B !01 A15		25
251	7	010		B	ARDIG1		4	1997	B !39		25
252	7	020		BWZ	*&5,NM3-1,2		8	2001	V !13 B09 2		25
253	7	030		B	ARDIG1		4	2009	B !39		25
254	7	040		C	WM3,NULL		7	2013	C B25 C28		25
255	7	050		BU	ARDIG1		5	2020	B !39 /		26
256	7	060		B	PUTX		4	2025	B 363		26
257	7	070		DCW	&SWMK3		3	2031	C25		26
258	7	080		MLC	@1@,NM3SW		7	2032	M E47 B98		26
259	7	090	ARDIG1	BCE	*&5,ARITSW,1		8	2039	B !51 B90 1		26
260	7	100		B	ADDLB1		4	2047	B !65		26
261	7	110		B	PUTX		4	2051	B 363		26
262	7	120		DCW	&SS2		3	2057	C01		27
263	7	130		MLC	@1@,CHGSW		7	2058	M E47 B96		27
264	7	140	ADDLB1	BCE	*&5,CLGNSW,1		8	2065	B !77 B92 1		27
265	7	150		B	ADDLB2		4	2073	B !91		27
266	7	160		B	PUTX		4	2077	B 363		27
267	7	170		DCW	&AB3		3	2083	C34		27
268	7	180		MLC	@1@,CLSW		7	2084	M E47 B97		27
269	7	190	ADDLB2	B	OUTLAB		4	2091	B J17		28
270	7	200	COMMON	SBR	COMBB&3		4	2095	H J16		28
271	7	210		MLC	LAB,LABADR		7	2099	M C31 J12		28
272	7	220		B	PUTT		4	2106	B R86		28
273	7	230	LABADR	DCW	*		3	2112	J12		28
274	7	240	COMBB	B	*		4	2113	B J16		28
275	7	250	OUTLAB	B	COMMON		4	2117	B !95		28
276	8	010	CWKSW	C	NULL,CLEAR		7	2121	C C28 J39		29
277	8	020		BE	CLEAR1		5	2128	B J40 S		29
278	8	030		B	PUTX		4	2133	B 363		29
279	8	040	CLEAR	DCW	*		3	2139	J39		29
280	8	050	CLEAR1	BCE	OUTLB1,NM3SW,0		8	2140	B J55 B98 0		29
281	8	060		B	PUTX		4	2148	B 363		29
282	8	070		DCW	&CW3		3	2154	C22		29
283	8	080	OUTLB1	MLC	PCT,TYPE2&1		7	2155	M B77 A84		30
284	8	090		B	PUTT		4	2162	B R86		30
285	8	100		DCW	&INPUT1		3	2168	A18		30
286	8	110		MLC	PCT,SIZE3&1		7	2169	M B77 B17		30
287	8	120		B	PUTT		4	2176	B R86		30
288	8	130		DCW	&INPUT3		3	2182	B08		30
289	8	140		B	PUTT		4	2183	B R86		30
290	8	150		DCW	&ILIST		3	2189	B53		31
291	8	160		B	PUTX		4	2190	B 363		31
292	8	170		DCW	&MCSEP		3	2196	B83		31
293	8	180		MLC	NULL,NM3SW		7	2197	M C28 B98		31
294	8	190		BCE	FREE,OPR-1,*		8	2204	B K24 A16 M		31
295	8	200		BCE	FREE,OPR-2,*		8	2212	B K24 A15 *		31
296	8	210		B	GETT		4	2220	B W80		31
297	8	220	FREE	MLC	NULL,CLSW		7	2224	M C28 B97		32

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
298	8	230		MLC			1	2231	M		32
299	8	240		B	GETT		4	2232	B W80		32
300	8	250	GIV	B	READ		4	2236	B Y79		32
301	9	010		ZA	DEC1,TEMP7		7	2240	? A29 C67		32
302	9	020		S	DEC2,TEMP7		7	2247	S A74 C67		32
303	9	030		MCS	TEMP7,TEMP6		7	2254	Z C67 C64		32
304	9	040		BCE	DECBB,TEMP6,		8	2261	B K95 C64		33
305	9	050		BM	DECB,TEMP7		8	2269	V K88 C67 K		33
306	9	060		MZ	@Z@,SW2		7	2277	Y E48 B91		33
307	9	070		B	DECBB		4	2284	B K95		33
308	9	080	DECB	MZ	@R@,SW2		7	2288	Y E49 B91		33
309	9	090	DECBB	MLC	NM2,NM3		7	2295	M A65 B10		34
310	9	100		BCE	NOED,ED1,K		8	2302	B L22 A44 K		34
311	9	110		BCE	NOED,MASK,K		8	2310	B L22 A50 K		34
312	9	120		B	ED		4	2318	B M91		34
313	9	130	NOED	BWZ	*&5,NM2-1,2		8	2322	V L34 A64 2		34
314	9	140		B	DG8BB		4	2330	B L85		34
315	9	150		ZA	SIZE1,BUCK		7	2334	? A26 C73		35
316	9	160		S	DEC1,BUCK		7	2341	S A29 C73		35
317	9	170		ZA	SIZE2,TEMP6		7	2348	? A71 C64		35
318	9	180		S	DEC2,TEMP6		7	2355	S A74 C64		35
319	9	190		C	BUCK,TEMP6		7	2362	C C73 C64		35
320	9	200		BH	*&5		5	2369	B L78 U		36
321	9	210		B	DG8BB		4	2374	B L85		36
322	9	220		B	PUTX		4	2378	B 363		36
323	9	230		DCW	&MESS1		3	2384	C40		36
324	9	240	DG8BB	C	WM1,NULL		7	2385	C A35 C28		36
325	9	250		BU	NOED3		5	2392	B M11 /		36
326	10	010		B	PUTX		4	2397	B 363		36
327	10	020		DCW	&AA2		3	2403	C10		37
328	10	030		MLC	&FF5,CLEAR		7	2404	M E52 J39		37
329	10	040	NOED3	BCE	RNDTST,OPR,0	IS OPERATOR A GIVR	8	2411	B Q38 A17 0		37
330	10	050		BWZ	NOED1,SW2,S		8	2419	V M57 B91 S		37
331	10	060		BWZ	*&12,SW2,2		8	2427	V M46 B91 2		37
332	10	070		MLC	&L14,LAB		7	2435	M E55 C31		38
333	10	080		B	NOED2		4	2442	B M83		38
334	10	090		MLC	&L13A,LAB		7	2446	M E58 C31		38
335	10	100		B	NOED2		4	2453	B M83		38
336	10	110	NOED1	BWZ	*&12,NM2-1,2		8	2457	V M76 A64 2		38
337	10	120		MLC	&L12,LAB		7	2465	M E61 C31		38
338	10	130		B	NOED2		4	2472	B M83		39
339	10	140		MLC	&L12A,LAB		7	2476	M E64 C31		39
340	10	150	NOED2	B	COMMON		4	2483	B !95		39
341	10	160		B	BKZER		4	2487	B Q11		39
342	10	170	ED	B	WMK		4	2491	B ?81		39
343	10	180		MLC	NULL,K2		7	2495	M C28 B70		39
344	10	190		BWZ	*&8,NM2-1,2		8	2502	V N17 A64 2		39
345	10	200		MLC	DEC2,K2		7	2510	M A74 B70		40
346	10	210		BCE	RNDTST,OPR,0	IS OPERATOR A GIVR	8	2517	B Q38 A17 0		40
347	10	220		C	NM2,VA0Q		7	2525	C A65 C37		40

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
348	10	230		BU	INSD		5	2532	B N48 /		40
349	10	240		MLC	&L17A,LAB		7	2537	M E67 C31		40
350	10	250		B	INSA		4	2544	B P45		40
351	11	010	INSD	C	CHCNT,@001@		7	2548	C A62 E70		41
352	11	020		BU	INSD1		5	2555	B N71 /		41
353	11	030		B	PUTX		4	2560	B 363		41
354	11	040		DCW	&MESS19		3	2566	C49		41
355	11	050		B	INSE1		4	2567	B P27		41
356	11	060	INSD1	BWZ	INSG,SW2,2		8	2571	V O73 B91 2		41
357	11	070		BWZ	*&5,NM2-1,2		8	2579	V N91 A64 2		41
358	11	080		B	INSD11		4	2587	B O43		42
359	11	090		ZA	SIZE2,TEMP6		7	2591	? A71 C64		42
360	11	100		S	DEC2,TEMP6		7	2598	S A74 C64		42
361	11	110		ZA	CHCNT,BUCK		7	2605	? A62 C73		42
362	11	120		S	DEC1,BUCK		7	2612	S A29 C73		42
363	11	130		C	TEMP6,BUCK		7	2619	C C64 C73		42
364	11	140		BH	INSD11		5	2626	B O43 U		43
365	11	150		BE	INSD11		5	2631	B O43 S		43
366	11	160		B	PUTX		4	2636	B 363		43
367	11	170		DCW	MESS1		3	2642	C40		43
368	11	180	INSD11	BWZ	*&12,SW2,S		8	2643	V O62 B91 S		43
369	11	190		MLC	&L17,LAB		7	2651	M E73 C31		43
370	11	200		B	INSA		4	2658	B P45		43
371	11	210		MLC	&L16,LAB		7	2662	M E76 C31		44
372	11	220		B	INSA		4	2669	B P45		44
373	11	230	INSG	BWZ	INSE,NM2-1,2		8	2673	V O92 A64 2		44
374	11	240		MLC	&L15A,LAB		7	2681	M E79 C31		44
375	11	250		B	INSA		4	2688	B P45		44
376	12	010	INSE	C	SIZE2,CHCNT		7	2692	C A71 A62		44
377	12	020		BL	INSC1		5	2699	B P20 T		45
378	12	030		BE	INSC		5	2704	B P38 S		45
379	12	040		MLC	&L15B,LAB		7	2709	M E82 C31		45
380	12	050		B	INSA		4	2716	B P45		45
381	12	060	INSC1	B	PUTX		4	2720	B 363		45
382	12	070		DCW	&MESS3		3	2726	C43		45
383	12	080	INSE1	MLC	&STPRUN,LAB		7	2727	M E85 C31		45
384	12	090		B	COMMON		4	2734	B !95		46
385	12	100	INSC	MLC	&L15,LAB		7	2738	M E88 C31		46
386	12	110	INSA	B	COMMON		4	2745	B !95		46
387	12	120		C	WM1,@001@		7	2749	C A35 E70		46
388	12	130		BU	EDITR		5	2756	B P68 /		46
389	12	140		B	PUTX		4	2761	B 363		46
390	12	150		DCW	&AA2		3	2767	C10		46
391	12	160	EDITR	BCE	EKKK2,EDIT1A,K		8	2768	B P80 A56 K		47
392	12	170		B	EKKK1		4	2776	B Q00		47
393	12	180	EKKK2	BCE	EKKK3,EDIT1B,K		8	2780	B P92 A59 K		47
394	12	190		B	EKKK1		4	2788	B Q00		47
395	12	200	EKKK3	BWZ	BKZER,COBMSK-2,2		8	2792	V Q11 A51 2		47
396	12	210	EKKK1	MLC	&EDITLB,LAB		7	2800	M E91 C31		47
397	12	220		B	COMMON		4	2807	B !95		48

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
398	12	230	BKZER	BCE	CWKS,ED1,K		8	2811	B J21 A44	K	48
399	12	240		BCE	CWKS,BLK,K		8	2819	B J21 A47	K	48
400	12	250		MLC	&L18,LAB		7	2827	M E94 C31		48
401	13	010		B	OUTLAB		4	2834	B J17		48
402	13	020	RNDTST	SBR	RNDBB&3		4	2838	H R85		48
403	13	030		BWZ	*&5,SW2,K		8	2842	V Q54 B91	K	49
404	13	040		B	RNDBB		4	2850	B R82		49
405	13	050		C	JUST,@L@		7	2854	C A41 E95		49
406	13	060		BU	*&8		5	2861	B Q73 /		49
407	13	070		B	PUTX		4	2866	B 363		49
408	13	080		DCW	&MESS11		3	2872	C46		49
409	13	090		BWZ	*&5,NM2-1,2		8	2873	V Q85 A64	2	49
410	13	100		B	PUTI8		4	2881	B R75		50
411	13	110		BCE	RND1,WM1,1		8	2885	B R18 A35	1	50
412	13	120		MLC	PCT,DEC1&1		7	2893	M B77 A30		50
413	13	130		B	PUTT		4	2900	B R86		50
414	13	140		DCW	&INPUT1		3	2906	A18		50
415	13	150		MLC	@ @,DEC1&1		7	2907	M E96 A30		50
416	13	160		B	RND2		4	2914	B R25		50
417	13	170	RND1	B	PUTX		4	2918	B 363		51
418	13	180		DCW	&NULL		3	2924	C28		51
419	13	190	RND2	B	PUTX		4	2925	B 363		51
420	13	200		DCW	&MCSEP		3	2931	B83		51
421	13	210		B	PUTX		4	2932	B 363		51
422	13	220		DCW	&.LC@		3	2938	E99		51
423	13	230		B	OUTOP		4	2939	B ?41		51
424	13	240		B	PUTX		4	2943	B 363		52
425	13	250		DCW	&VV9		3	2949	C52		52
426	14	010		B	PUTX		4	2950	B 363		52
427	14	020		DCW	&WW0		3	2956	C55		52
428	14	030		MLC	DEC2,K2		7	2957	M A74 B70		52
429	14	040		MLC	@GNN@,NM2		7	2964	M F02 A65		52
430	14	050		B	RNDBB		4	2971	B R82		52
431	14	060	PUTI8	B	PUTX		4	2975	B 363		53
432	14	070		DCW	&II8		3	2981	C58		53
433	14	080	RNDBB	B	*		4	2982	B R85		53
434	14	090	PUTT	SBR	X2		4	2986	H 094		53
435	14	100		MLC	2&X2,X3		7	2990	M 012 099		53
436	14	110	PUTT1	BCE	PUTTBB,0&X3,%		8	2997	B ?30 0?0 %		53
437	14	120		MLC	2&X3,SY		7	3005	M 0?2 B80		53
438	14	130		B	PUTX		4	3012	B 363		54
439	14	140		DCW	&SY		3	3018	B80		54
440	14	150		A	@003@,X3		7	3019	A E46 099		54
441	14	160		B	PUTT1		4	3026	B R97		54
442	14	170	PUTTBB	A	@003@,X2		7	3030	A E46 094		54
443	14	180		B	0&X2		4	3037	B 010		54
444	14	190	OUTOP	SBR	OUTBB&3	PUTOUT OPR, VOP	4	3041	H ?62		54
445	14	200		B	PUTX		4	3045	B 363		55
446	14	210		DCW	&OPR		3	3051	A17		55
447	14	220		B	PUTX		4	3052	B 363		55

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
448	14	230		DCW	&VOP		3	3058	B89		55
449	14	240	OUTBB	B	*		4	3059	B ?62		55
450	14	250	OUTA	B	PUTX		4	3063	B 363		55
451	15	010		DCW	&NULL		3	3069	C28		55
452	15	020		B	PUTX		4	3070	B 363		56
453	15	030		DCW	&MCSEP		3	3076	B83		56
454	15	040		B	GETT		4	3077	B W80		56
455	15	050	WMK	SBR	WMKBB&3	CHECK WORDMARK TYPE	4	3081	H A14		56
456	15	060	WMKA	C	WM2, NULL		7	3085	C A80	C28	56
457	15	070		BU	WMKBB		5	3092	B A11	/	56
458	15	080		B	PUTX		4	3097	B 363		56
459	15	090		DCW	&AA3		3	3103	C13		57
460	15	100		MLC	&FF6, CLEAR		7	3104	M F05	J39	57
461	15	110	WMKBB	B	*		4	3111	B A14		57
462	15	120	OPR	DCW	#3		3	3117			57
463	15	130	INPUT1	EQU	*&1			3118			
464	15	140	NM1	DCW	#3		3	3120			57
465	15	150	SIZE1		#6		6	3126			57
466	15	160	DEC1		#3		3	3129			57
467	15	170	CL1		#3		3	3132			58
468	15	180	WM1		#3		3	3135			58
469	15	190	TYPE1		#3		3	3138			58
470	15	200	JUST		#3		3	3141			58
471	15	210	ED1		#3		3	3144			58
472	15	220	BLK		#3		3	3147			58
473	15	230	MASK		#3		3	3150			58
474	15	240	COBMSK		#3		3	3153			59
475	15	250	EDIT1A		#3		3	3156			59
476	16	010	EDIT1B		#3		3	3159			59
477	16	020	CHCNT		#3		3	3162			59
478	16	030	INPUT2	EQU	*&1			3163			
479	16	040	NM2	DCW	#3		3	3165			59
480	16	050	SIZE2		#6		6	3171			59
481	16	060	DEC2	DCW	#3		3	3174			59
482	16	070	CL2		#3		3	3177			60
483	16	080	WM2		#3		3	3180			60
484	16	090	TYPE2		#3		3	3183			60
485	16	100	JUST2		#3		3	3186			60
486	16	110	ED2		#3		3	3189			60
487	16	120	BLK2		#3		3	3192			60
488	16	130	MASK2		#3		3	3195			60
489	16	140	COB22		#3		3	3198			61
490	16	150	EDIT2A		#3		3	3201			61
491	16	160	EDIT2B		#3		3	3204			61
492	16	170	CHCNT2		#3		3	3207			61
493	16	180	INPUT3	EQU	*&1			3208			
494	16	190	NM3	DCW	#3		3	3210			61
495	16	200	SIZE3		#6		6	3216			61
496	16	210	DEC3		#3		3	3219			61
497	16	220	CL3		#3		3	3222			62

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
498	16	230	WM3		#3		3	3225			62
499	16	240	TYPE3		#3		3	3228			62
500	16	250	JUST3		#3		3	3231			62
501	17	010	ED3		#3		3	3234			62
502	17	020	BLK3		#3		3	3237			62
503	17	030	MASK3		#3		3	3240			62
504	17	040	COB3		#3		3	3243			63
505	17	050	EDIT3A		#3		3	3246			63
506	17	060	EDIT3B		#3		3	3249			63
507	17	070	CHCNT3		#3		3	3252			63
508	17	080	I		#3		3	3255			63
509	17	090	I1		#3		3	3258			63
510	17	100	I2		#3		3	3261			63
511	17	110	I3		#3		3	3264			64
512	17	120	K1		#3		3	3267			64
513	17	130	K2		#3		3	3270			64
514	17	140	OP		#3		3	3273			64
515	17	150	GL		#3		3	3276			64
516	17	160	PCT		@%@		1	3277			64
517	17	170	SY	DCW	#3		3	3280			64
518	17	180	MCSEP		@.MC@		3	3283			65
519	17	190	VEOP		@.EP@		3	3286			65
520	17	200	VOP		@.OP@		3	3289			65
521	17	210	ARITSW		0		1	3290			65
522	17	220	MLTSW	DC	0		1	3291			65
523	17	230	CLGNSW	DC	0		1	3292			65
524	17	240	SW4	DCW	0		1	3293			65
525	17	250	SW5	DC	0		1	3294			65
526	18	010	SW6		0		1	3295			65
527	18	020	SW1	EQU	ARITSW			3290			
528	18	030	SW2	EQU	MLTSW			3291			
529	18	040	SW3	EQU	CLGNSW			3292			
530	18	050	CHGSW	DCW	0		1	3296			65
531	18	060	CLSW		0		1	3297			65
532	18	070	NM3SW		0		1	3298			66
533	18	080	SS2		@.S2@		3	3301			66
534	18	090	FF4		@.F4@		3	3304			66
535	18	100	AA1		@.A0@		3	3307			66
536	18	110	AA2		@.A1@		3	3310			66
537	18	120	AA3		@.A2@		3	3313			66
538	18	130	FF5		@.F5@		3	3316			66
539	18	140	FF6		@.F6@		3	3319			67
540	18	150	CW3		@.F3@		3	3322			67
541	18	160	SWMK3		@.F2@		3	3325			67
542	18	170	NULL		000		3	3328			67
543	18	180	LAB		#3		3	3331			67
544	18	190	AB3		@.A3@		3	3334			67
545	18	200	VA0Q		@A0Q@		3	3337			67
546	18	210	MESS1		@.Q4@		3	3340			68
547	18	220	MESS3		@.Q0@		3	3343			68

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
548	18	230	MESS11		@.R4@		3	3346			68
549	18	240	MESS19		@.X9@		3	3349			68
550	18	250	VV9		@.V9@		3	3352			68
551	19	010	WW0		@.W0@		3	3355			68
552	19	020	II8		@.I8@		3	3358			68
553	19	030	TEMP6		#6		6	3364			69
554	19	040	TEMP7		#3		3	3367			69
555	19	050	BUCK		#6		6	3373			69
556	19	060	ILIST	EQU	I-2			3253			
557	19	070	L12	EQU	*&1			3374			
558	19	080		DCW	@.F1.O9%@	GIVING	7	3380			69
559	19	090	L12A	EQU	*&1			3381			
560	19	100		DCW	@.P1.P2.O9%@	GIVING	10	3390			69
561	19	110	L13A	EQU	*&1			3391			
562	19	120		DCW	@.O8%@	GIVING	4	3394			69
563	19	130	L14	EQU	*&1			3395			
564	19	140		DCW	@.P0.O9%@	GIVING	7	3401			70
565	19	150	L15	EQU	*&1			3402			
566	19	160		DCW	@.P3.P4%@	GIV - EDIT	7	3408			70
567	19	170	L15B	EQU	*&1			3409			
568	19	180		DCW	@.B7.Z7.P3.V4.Z8%@		16	3424			70
569	19	190	L15A	EQU	*&1			3425			
570	19	200		DCW	@.Z9.P3.P4.V7%@		13	3437			71
571	19	210	L16	EQU	*&1			3438			
572	19	220		DCW	@.J2.J5.J6.W1.Z7.P7.P3.P4.Z8%@		28	3465			72
573	19	230	L17	EQU	*&1			3466			
574	19	240		DCW	@.P8.J6.Z7.P7.P3.P4.Z8%@		22	3487			73
575	19	250	L17A	EQU	*&1			3488			
576	20	010		DCW	@.Z7.P5.K3.P7.P3.P4.Z8%@		22	3509			74
577	20	020	L18	EQU	*&1			3510			
578	20	030		DCW	@.F8.N7.W9.A1.N9.O0.F0%@		22	3531			75
579	20	040	STPRUN	EQU	*&1			3532			
580	20	050		DCW	@.W6.W9%@		7	3538			75
581	20	060		LTORG					3539		
				DCW	@J@		1	3539		LIT	75
					@E@		1	3540		LIT	75
		240			&INPUT1		3	3543	A18	ADCON	75
					@003@		3	3546		LIT	75
					@1@		1	3547		LIT	75
					@Z@		1	3548		LIT	76
					@R@		1	3549		LIT	76
		328			&FF5		3	3552	C16	ADCON	76
		332			&L14		3	3555	C95	ADCON	76
		334			&L13A		3	3558	C91	ADCON	76
		337			&L12		3	3561	C74	ADCON	76
		339			&L12A		3	3564	C81	ADCON	76
		349			&L17A		3	3567	D88	ADCON	77
					@001@		3	3570		LIT	77
		369			&L17		3	3573	D66	ADCON	77
		371			&L16		3	3576	D38	ADCON	77

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
		374			&L15A	3		3579	D25	ADCON	77
		379			&L15B	3		3582	D09	ADCON	77
		383			&STPRUN	3		3585	E32	ADCON	77
		385			&L15	3		3588	D02	ADCON	78
		396			&EDITLB	3		3591	W76	ADCON	78
		400			&L18	3		3594	E10	ADCON	78
					@L@	1		3595		LIT	78
					@ @	1		3596		LIT	78
					@.LC@	3		3599		LIT	78
					@GNN@	3		3602		LIT	78
		460			&FF6	3		3605	C19	ADCON	79
582	20	070		ORG	3790				3790		
583	20	080		DCW	@}@	1		3790			80
584	20	090		END	GETT				/ W80 080		81

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CLEAR STORAGE 1 ,008015,019026,030,034041,045,053,0570571026 1
CLEAR STORAGE 2 L068112,102106,113/101099/I99,027A070028)027B0010270B0261,001/001113I0 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	010	000	JOB	1401 COBOL - I08						
102	1	020		CTL	631 11						
103	1	030	X1	EQU	89			0089			
104	1	040	X2	EQU	94			0094			
105	1	050	X3	EQU	99			0099			
106	1	060	GETX	EQU	335			0335			
107	1	070	SUPER	EQU	351			0351			
108	1	080	PUTX	EQU	363			0363			
109	1	090		ORG	1300				1300		
110	1	100	L40	EQU	*&1			1300			
111	1	110		DCW	@.F9.H3%@	7		1306			4
112	1	120	L41	EQU	*&1			1307			
113	1	130		DCW	@.F9.H4.I5.F0%@	13		1319			4
114	1	140	L42	EQU	*&1			1320			
115	1	150		DCW	@.F9.H4.I2.I5.F0%@	16		1335			4
116	1	160	L43	EQU	*&1			1336			
117	1	170		DCW	@.F9.H4.I3.F0%@	13		1348			5
118	1	180	GETT	MLC	NULL,CLEAR	7		1349	M R81	P61	5
119	1	190		MLC	NULL,SIZE3-3	7		1356	M R81	Q96	5
120	1	200	GETSY	B	GETX	4		1363	B 335		5
121	1	210		DCW	&SY	3		1369	R63		5
122	1	220			&EOJ	3		1372	U45		5
123	1	230		C	SY,PASSSY	7		1373	C R63	U44	6
124	1	240		BE	GETSY2	5		1380	B T96	S	6
125	1	250		B	PUTX	4		1385	B 363		6
126	2	010		DCW	&SY	3		1391	R63		6
127	2	020		B	GETSY	4		1392	B T63		6
128	2	030	GETSY2	B	GETX	4		1396	B 335		6
129	2	040		DCW	&OPR	3		1402	P94		6
130	2	050			&EOJ	3		1405	U45		7
131	2	060		B	PUTX	4		1406	B 363		7
132	2	070		DCW	&OPR	3		1412	P94		7
133	2	080		B	GETX	4		1413	B 335		7
134	2	090		DCW	&SY	3		1419	R63		7
135	2	100			&EOJ	3		1422	U45		7
136	2	110		B	PUTX	4		1423	B 363		7
137	2	120		DCW	&SY	3		1429	R63		8
138	2	130		BCE	RELAT,OPR-2,,	8		1430	B U59	P92 ,	8
139	2	140		B	GETSY	4		1438	B T63		8
140	2	150	PASSSY	DCW	@*\$\$*	3		1444			8
141	2	160	EOJ	B	PUTX	4		1445	B 363		8
142	2	170		DCW	&VEOP	3		1451	R69		8
143	2	180		B	SUPER	4		1452	B 351		8
144	2	190		DCW	@I09@	3		1458			9
145	2	200	RELAT	MLC	&SW1,X2	7		1459	M B62	094	9
146	2	210	READ3	B	GETX	4		1466	B 335		9
147	2	220		DCW	&SY	3		1472	R63		9

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	2	230			&EOJ		3	1475	U45		9
149	2	240		C	SY,MCSEP		7	1476	C R63 R66		9
150	2	250		BE	READBB		5	1483	B V06 S		9
151	3	010		MLC	SY,2&X2		7	1488	M R63 0!2		10
152	3	020		A	@003@,X2		7	1495	A B65 094		10
153	3	030		B	READ3		4	1502	B U66		10
154	3	040	READBB	MLC	NM3,GL		7	1506	M Q93 R59		10
155	3	050		BCE	*&5,SW6,1		8	1513	B V25 Q00 1		10
156	3	060		B	RELTST		4	1521	B V61		10
157	3	070		BWZ	RELTST,SW5,2		8	1525	V V61 P99 2		11
158	3	080		C	DEC1,NULL		7	1533	C Q12 R81		11
159	3	090		BU	RELTST		5	1540	B V61 /		11
160	3	100		C	DEC2,NULL		7	1545	C Q57 R81		11
161	3	110		BU	RELTST		5	1552	B V61 /		11
162	3	120		B	ALPCOM		4	1557	B !49		11
163	3	130	RELTST	BWZ	RELTS1,SW5,2		8	1561	V V81 P99 2		12
164	3	140		BCE	NUMCOM,SIZE3-3,0	ARE THERE FGCONS	8	1569	B L83 Q96 0		12
165	3	150		B	NUMFG	RELATIONAL	4	1577	B Y29		12
166	3	160	RELTS1	BCE	ALPCOM,SIZE3-3,0		8	1581	B !49 Q96 0		12
167	3	170	ALPFG	BWZ	AFG1,SW1,S	NON-NUMERIC FGCONS	8	1589	V W20 P95 S		12
168	3	180		BWZ	*&5,SW3,2		8	1597	V W09 P97 2		13
169	3	190		B	AFG1		4	1605	B W20		13
170	3	200		MLC	&L29,LAB		7	1609	M B68 P87		13
171	3	210		B	COMOUT		4	1616	B P74		13
172	3	220	AFG1	BCE	*&5,SIZE3-3,1		8	1620	B W32 Q96 1		13
173	3	230		B	AFG2		4	1628	B X29		13
174	3	240		C	NM1,VA0Q		7	1632	C Q03 R72		14
175	3	250		BE	AFG1A		5	1639	B W63 S		14
176	4	010		BCE	*&5,CL2,9		8	1644	B W56 Q60 9		14
177	4	020		B	AFG1A		4	1652	B W63		14
178	4	030		B	PUTX		4	1656	B 363		14
179	4	040		DCW	&MESS18		3	1662	R78		14
180	4	050	AFG1A	C	ONE,SIZE1		7	1663	C R90 Q09		14
181	4	060		BH	SUBFGB		5	1670	B Y18 U		15
182	4	070		BWZ	*&5,SW1,2		8	1675	V W87 P95 2		15
183	4	080		B	SUBFGA		4	1683	B Y07		15
184	4	090		C	TWEN,SIZE2		7	1687	C R84 Q54		15
185	4	100		BH	SUBFGA		5	1694	B Y07 U		15
186	4	110		B	TWOWM		4	1699	B O85		15
187	4	120		MLC	&L60,LAB		7	1703	M B71 P87		16
188	4	130		B	COMMON		4	1710	B P66		16
189	4	140		B	CWKS		4	1714	B P39		16
190	4	150		B	PUTX		4	1718	B 363		16
191	4	160		DCW	&II6		3	1724	?14		16
192	4	170		B	OUTPAR		4	1725	B O93		16
193	4	180	AFG2	C	NM2,VA0Q		7	1729	C Q48 R72		16
194	4	190		BE	AFG2A		5	1736	B X60 S		17
195	4	200		BCE	*&5,CL1,9		8	1741	B X53 Q15 9		17
196	4	210		B	AFG2A		4	1749	B X60		17
197	4	220		B	PUTX		4	1753	B 363		17

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
198	4	230		DCW	&MESS18		3	1759	R78		17
199	4	240	AFG2A	C	ONE, SIZE2		7	1760	C R90 Q54		17
200	4	250		BH	SUBFGB		5	1767	B Y18 U		17
201	5	010		BWZ	*&5, SW1, 2		8	1772	V X84 P95 2		18
202	5	020		B	SUBFGA		4	1780	B Y07		18
203	5	030		C	TWEN, SIZE1		7	1784	C R84 Q09		18
204	5	040		BH	SUBFGA		5	1791	B Y07 U		18
205	5	050		MLC	&L59, LAB		7	1796	M B74 P87		18
206	5	060		B	COMOUT		4	1803	B P74		18
207	5	070	SUBFGA	B	PUTX	CALL SUBR. FGA	4	1807	B 363		18
208	5	080		DCW	&GG4		3	1813	R93		19
209	5	090		B	OUTPAR		4	1814	B O93		19
210	5	100	SUBFGB	B	PUTX	CALL SUBR. FGB	4	1818	B 363		19
211	5	110		DCW	&GG5		3	1824	R96		19
212	5	120		B	OUTPAR		4	1825	B O93		19
213	5	130	NUMFG	C	SW6, @1@		7	1829	C Q00 B75		19
214	5	140		BU	*&19		5	1836	B Y59 /		19
215	5	150		B	PUTX		4	1841	B 363		20
216	5	160		DCW	&MESS17		3	1847	R75		20
217	5	170		B	PUTX		4	1848	B 363		20
218	5	180		DCW	&MCSEP		3	1854	R66		20
219	5	190		B	ALPFG		4	1855	B V89		20
220	5	200		BWZ	NUMFG2, SW1, 2		8	1859	V Y78 P95 2		20
221	5	210		B	PUTX		4	1867	B 363		20
222	5	220		DCW	&GG4		3	1873	R93		21
223	5	230		B	OUTPAR		4	1874	B O93		21
224	5	240	NUMFG2	BCE	LTFG, SIZE3-3, 1		8	1878	B Z88 Q96 1		21
225	5	250	ONEWM	C	WM1, NULL		7	1886	C Q18 R81		21
226	6	010		BU	NUMFG3		5	1893	B Z09 /		21
227	6	020		MLC	&NUMFG3, WMKBB&3		7	1898	M B78 O29		21
228	6	030		B	WMKB		4	1905	B N82		21
229	6	040	NUMFG3	B	PUTX		4	1909	B 363		22
230	6	050		DCW	&FF7		3	1915	?50		22
231	6	060		B	CWKSW		4	1916	B P39		22
232	6	070		BCE	FGEQ, OPR, #		8	1920	B Z55 P94 #		22
233	6	080		BCE	FGNEQ, OPR, E		8	1928	B Z66 P94 E		22
234	6	090		BCE	NUMFG4, OPR, 1		8	1936	B Z77 P94 1		22
235	6	100		MLC	&L51, LAB		7	1944	M B81 P87		23
236	6	110		B	COMOUT		4	1951	B P74		23
237	6	120	FGEQ	B	PUTX		4	1955	B 363		23
238	6	130		DCW	&HH3		3	1961	?05		23
239	6	140		B	OUTPAR		4	1962	B O93		23
240	6	150	FGNEQ	MLC	&L50, LAB		7	1966	M B84 P87		23
241	6	160		B	COMOUT		4	1973	B P74		23
242	6	170	NUMFG4	MLC	&L52, LAB		7	1977	M B87 P87		24
243	6	180		B	COMOUT		4	1984	B P74		24
244	6	190	LTFG	B	TWOWM		4	1988	B O85		24
245	6	200		B	PUTX		4	1992	B 363		24
246	6	210		DCW	&FF8		3	1998	?53		24
247	6	220		B	CWKSW		4	1999	B P39		24

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
248	6	230		BCE	FGEQ,OPR,#	8		2003	B Z55 P94 #		24
249	6	240		BCE	FGNEQ,OPR,E	8		2011	B Z66 P94 E		25
250	6	250		BCE	LTFG4,OPR,1	8		2019	B !38 P94 1		25
251	7	010		MLC	&L55,LAB	7		2027	M B90 P87		25
252	7	020		B	COMOUT	4		2034	B P74		25
253	7	030	LTFG4	MLC	&L56,LAB	7		2038	M B93 P87		25
254	7	040		B	COMOUT	4		2045	B P74		25
255	7	050	ALPCOM	BWZ	ALP1A,SW1,2	8		2049	V !68 P95 2		26
256	7	060		B	PUTX	4		2057	B 363		26
257	7	070		DCW	&GG6	3		2063	R99		26
258	7	080		B	OUTPAR	4		2064	B 093		26
259	7	090	ALP1A	BWZ	*&5,SW3,2	8		2068	V !80 P97 2		26
260	7	100		B	ALPCM1	4		2076	B J06		26
261	7	110		B	TWOWM	4		2080	B 085		26
262	7	120		B	PUTX	4		2084	B 363		27
263	7	130		DCW	&HH7	3		2090	?08		27
264	7	140	ALP1	B	CWKS	4		2091	B P39		27
265	7	150		B	PUTX	4		2095	B 363		27
266	7	160		DCW	&II6	3		2101	?14		27
267	7	170		B	OUTPAR	4		2102	B 093		27
268	7	180	ALPCM1	BCE	ALP20,SW6,1	8		2106	B J52 Q00 1		27
269	7	190		BWZ	ALPCM2,SW3,S	8		2114	V J37 P97 S		28
270	7	200		B	TWOWM	4		2122	B 085		28
271	7	210		MLC	&L32,LAB	7		2126	M B96 P87		28
272	7	220		B	*&8	4		2133	B J44		28
273	7	230	ALPCM2	MLC	&L31,LAB	7		2137	M B99 P87		28
274	7	240		B	COMMON	4		2144	B P66		28
275	7	250		B	ALP1	4		2148	B !91		28
276	8	010	ALP20	BWZ	*&5,SW3,S	8		2152	V J64 P97 S		29
277	8	020		B	ALP60	4		2160	B J86		29
278	8	030		MLC	&L34,LAB	7		2164	M C02 P87		29
279	8	040		B	TWOWM	4		2171	B 085		29
280	8	050		MLC	KK4,SY	7		2175	M ?26 R63		29
281	8	060		B	ALP61	4		2182	B K04		29
282	8	070	ALP60	MLC	&L35,LAB	7		2186	M C05 P87		30
283	8	080		B	WMK	4		2193	B N36		30
284	8	090		MLC	KK5,SY	7		2197	M ?29 R63		30
285	8	100	ALP61	B	PUTX	4		2204	B 363		30
286	8	110		DCW	&SY	3		2210	R63		30
287	8	120		B	CWKS	4		2211	B P39		30
288	8	130		BCE	ALP21,OPR,E	8		2215	B K68 P94 E		30
289	8	140		BCE	ALP22,OPR,0	8		2223	B K97 P94 0		31
290	8	150		BCE	ALP23,OPR,1	8		2231	B L20 P94 1		31
291	8	160		B	PUTX	4		2239	B 363		31
292	8	170		DCW	&JJ8	3		2245	?17		31
293	8	180		B	COMMON	4		2246	B P66		31
294	8	190		B	PUTX	4		2250	B 363		31
295	8	200		DCW	&JJ8	3		2256	?17		31
296	8	210		MLC	&L37,LAB	7		2257	M C08 P87		32
297	8	220		B	COMOUT	4		2264	B P74		32

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
298	8	230	ALP21	B	PUTX		4	2268	B 363		32
299	8	240		DCW	&II6		3	2274	?14		32
300	8	250		B	COMMON		4	2275	B P66		32
301	9	010		B	PUTX		4	2279	B 363		32
302	9	020		DCW	&II6		3	2285	?14		32
303	9	030		MLC	&L36, LAB		7	2286	M C11 P87		33
304	9	040		B	COMOUT		4	2293	B P74		33
305	9	050	ALP22	BWZ	*&5, SW3, S		8	2297	V L09 P97 S		33
306	9	060		B	ALP24		4	2305	B L43		33
307	9	070		B	PUTX		4	2309	B 363		33
308	9	080		DCW	&KK0		3	2315	?23		33
309	9	090		B	ALP51		4	2316	B L54		33
310	9	100	ALP23	BWZ	*&5, SW3, K		8	2320	V L32 P97 K		34
311	9	110		B	ALP24		4	2328	B L43		34
312	9	120		B	PUTX		4	2332	B 363		34
313	9	130		DCW	&JJ9		3	2338	?20		34
314	9	140		B	ALP51		4	2339	B L54		34
315	9	150	ALP24	B	PUTX		4	2343	B 363		34
316	9	160		DCW	&II6		3	2349	?14		34
317	9	170		B	OUTPAR		4	2350	B O93		35
318	9	180	ALP51	B	PUTX		4	2354	B 363		35
319	9	190		DCW	&II6		3	2360	?14		35
320	9	200		B	COMMON		4	2361	B P66		35
321	9	210		B	PUTX		4	2365	B 363		35
322	9	220		DCW	&II4		3	2371	?11		35
323	9	230		MLC	&L36, LAB		7	2372	M C14 P87		35
324	9	240		B	COMOUT		4	2379	B P74		36
325	9	250	NUMCOM	BWZ	NM4, SW1, 2		8	2383	V M02 P95 2		36
326	10	010		B	PUTX		4	2391	B 363		36
327	10	020		DCW	&GG7		3	2397	?02		36
328	10	030		B	OUTPAR		4	2398	B O93		36
329	10	040	NM4	BWZ	*&5, SW2, 2		8	2402	V M14 P96 2		36
330	10	050		B	NUMC1		4	2410	B M49		36
331	10	060		C	DEC1, NULL		7	2414	C Q12 R81		37
332	10	070		BU	NUMC1		5	2421	B M49 /		37
333	10	080		BCE	*&5, SW6, 1		8	2426	B M38 Q00 1		37
334	10	090		B	NUMC1		4	2434	B M49		37
335	10	100		B	PUTX		4	2438	B 363		37
336	10	110		DCW	&MCSEP		3	2444	R66		37
337	10	120		B	ALPCOM		4	2445	B !49		37
338	10	130	NUMC1	B	WMK		4	2449	B N36		38
339	10	140		BWZ	*&5, SW2, S		8	2453	V M65 P96 S		38
340	10	150		B	NUMC2		4	2461	B M91		38
341	10	160		MLC	&L48, LAB		7	2465	M C17 P87		38
342	10	170		B	COMMON		4	2472	B P66		38
343	10	180		B	CWKS		4	2476	B P39		38
344	10	190		MLC	I2, LAB		7	2480	M R44 P87		38
345	10	200		B	COMOUT		4	2487	B P74		39
346	10	210	NUMC2	BWZ	NUMC3-7, SW2, 2		8	2491	V N10 P96 2		39
347	10	220		MLC	&L47, LAB		7	2499	M C20 P87		39

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
348	10	230		B	*&8		4	2506	B N17		39
349	10	240		MLC	&L46, LAB		7	2510	M C23 P87		39
350	10	250	NUMC3	B	COMMON		4	2517	B P66		39
351	11	010		B	CWKSW		4	2521	B P39		39
352	11	020		MLC	I3, LAB		7	2525	M R47 P87		40
353	11	030		B	COMOUT		4	2532	B P74		40
354	11	040	WMK	SBR	WMKBB&3	CHECK WORDMARK TYPE	4	2536	H O29		40
355	11	050		C	WM1, NULL		7	2540	C Q18 R81		40
356	11	060		BU	WMKA	SET	5	2547	B O00 /		40
357	11	070		C	WM2, NULL		7	2552	C Q63 R81		40
358	11	080		BU	WMKB		5	2559	B N82 /		40
359	11	090		B	PUTX		4	2564	B 363		41
360	11	100		DCW	&AA1		3	2570	?32		41
361	11	110		MLC	&FF4, CLEAR		7	2571	M C26 P61		41
362	11	120		B	WMKBB		4	2578	B O26		41
363	11	130	WMKB	B	PUTX		4	2582	B 363		41
364	11	140		DCW	&AA2		3	2588	?35		41
365	11	150		MLC	&FF5, CLEAR		7	2589	M C29 P61		41
366	11	160		B	WMKBB		4	2596	B O26		42
367	11	170	WMKA	C	WM2, NULL		7	2600	C Q63 R81		42
368	11	180		BU	WMKBB		5	2607	B O26 /		42
369	11	190		B	PUTX		4	2612	B 363		42
370	11	200		DCW	&AA3		3	2618	?38		42
371	11	210		MLC	&FF6, CLEAR		7	2619	M C32 P61		42
372	11	220	WMKBB	B	*		4	2626	B O29		42
373	11	230	PUTT	SBR	X2		4	2630	H 094		43
374	11	240		MLC	2&X2, X3		7	2634	M 012 099		43
375	11	250	PUTT1	BCE	PUTTBB, 0&X3, %		8	2641	B 074 0?0 %		43
376	12	010		MLC	2&X3, SY		7	2649	M 0?2 R63		43
377	12	020		B	PUTX		4	2656	B 363		43
378	12	030		DCW	&SY		3	2662	R63		43
379	12	040		A	@003@, X3		7	2663	A B65 099		44
380	12	050		B	PUTT1		4	2670	B 041		44
381	12	060	PUTTBB	A	@003@, X2		7	2674	A B65 094		44
382	12	070		B	0&X2		4	2681	B 010		44
383	12	080	TWOWM	SBR	WMKBB&3		4	2685	H O29		44
384	12	090		B	WMKA		4	2689	B O00		44
385	12	100	OUTPAR	MLC	PCT, TYPE2&1		7	2693	M R60 Q67		44
386	12	110		B	PUTT		4	2700	B O30		45
387	12	120		DCW	&INPUT1		3	2706	Q01		45
388	12	130		MLC	PCT, SIZE3&1		7	2707	M R60 R00		45
389	12	140		B	PUTT		4	2714	B O30		45
390	12	150		DCW	&INPUT3		3	2720	Q91		45
391	12	160		B	PUTT		4	2721	B O30		45
392	12	170		DCW	&ILIST		3	2727	R36		45
393	12	180	OUT	B	PUTX		4	2728	B 363		46
394	12	190		DCW	&MCSEP		3	2734	R66		46
395	12	200		B	GETT		4	2735	B T49		46
396	12	210	CWKSW	SBR	CWKBB&3		4	2739	H P65		46
397	12	220		C	CLEAR, NULL		7	2743	C P61 R81		46

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
398	12	230		BE	CWKBB		5	2750	B P62	S	46
399	12	240		B	PUTX		4	2755	B 363		46
400	12	250	CLEAR	DCW	*		3	2761	P61		47
401	13	010	CWKBB	B	*		4	2762	B P65		47
402	13	020	COMMON	SBR	COMBB&3		4	2766	H P91		47
403	13	030		B	*&8		4	2770	B P81		47
404	13	040	COMOUT	MLC	&OUTPAR,COMBB&3		7	2774	M C35	P91	47
405	13	050		B	PUTT		4	2781	B O30		47
406	13	060	LAB	DCW	*		3	2787	P87		47
407	13	070	COMBB	B	*		4	2788	B P91		48
408	13	080	OPR	DCW	#3		3	2794			48
409	13	090	SW1	DCW	0		1	2795			48
410	13	100	SW2	DC	0		1	2796			48
411	13	110	SW3		0		1	2797			48
412	13	120	SW4	DCW	0		1	2798			48
413	13	130	SW5	DC	0		1	2799			48
414	13	140	SW6		0		1	2800			48
415	13	150	INPUT1	EQU	*&1			2801			
416	13	160	NM1	DCW	#3		3	2803			48
417	13	170	SIZE1		#6		6	2809			48
418	13	180	DEC1		#3		3	2812			48
419	13	190	CL1		#3		3	2815			49
420	13	200	WM1		#3		3	2818			49
421	13	210	TYPE1		#3		3	2821			49
422	13	220	JUST		#3		3	2824			49
423	13	230	ED1		#3		3	2827			49
424	13	240	BLK		#3		3	2830			49
425	13	250	MASK		#3		3	2833			49
426	14	010	COBMSK		#3		3	2836			50
427	14	020	EDIT1A		#3		3	2839			50
428	14	030	EDIT1B		#3		3	2842			50
429	14	040	CHCNT		#3		3	2845			50
430	14	050	INPUT2	EQU	*&1			2846			
431	14	060	NM2	DCW	#3		3	2848			50
432	14	070	SIZE2		#6		6	2854			50
433	14	080	DEC2		#3		3	2857			50
434	14	090	CL2		#3		3	2860			51
435	14	100	WM2		#3		3	2863			51
436	14	110	TYPE2		#3		3	2866			51
437	14	120	JUST2		#3		3	2869			51
438	14	130	ED2		#3		3	2872			51
439	14	140	BLK2		#3		3	2875			51
440	14	150	MASK2		#3		3	2878			51
441	14	160	COB22		#3		3	2881			52
442	14	170	EDIT2A		#3		3	2884			52
443	14	180	EDIT2B		#3		3	2887			52
444	14	190	CHCNT2		#3		3	2890			52
445	14	200	INPUT3	EQU	*&1			2891			
446	14	210	NM3	DCW	#3		3	2893			52
447	14	220	SIZE3		#6		6	2899			52

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
448	14	230	DEC3		#3		3	2902			52
449	14	240	CL3		#3		3	2905			53
450	14	250	WM3		#3		3	2908			53
451	15	010	TYPE3		#3		3	2911			53
452	15	020	JUST3		#3		3	2914			53
453	15	030	ED3		#3		3	2917			53
454	15	040	BLK3		#3		3	2920			53
455	15	050	MASK3		#3		3	2923			53
456	15	060	COB3		#3		3	2926			54
457	15	070	EDIT3A		#3		3	2929			54
458	15	080	EDIT3B		#3		3	2932			54
459	15	090	CHCNT3		#3		3	2935			54
460	15	100	I		#3		3	2938			54
461	15	110	I1		#3		3	2941			54
462	15	120	I2		#3		3	2944			54
463	15	130	I3		#3		3	2947			55
464	15	140	K1		#3		3	2950			55
465	15	150	K2		#3		3	2953			55
466	15	160	OP		#3		3	2956			55
467	15	170	GL		#3		3	2959			55
468	15	180	PCT		@%@		1	2960			55
469	15	190	SY	DCW	#3		3	2963			55
470	15	200	MCSEP		@.MC@		3	2966			56
471	15	210	VEOP		@.EP@		3	2969			56
472	15	220	VA0Q		@A0Q@		3	2972			56
473	15	230	MESS17		@.W4@		3	2975			56
474	15	240	MESS18		@.W5@		3	2978			56
475	15	250	NULL		000		3	2981			56
476	16	010	TWEN	DC	020		3	2984			56
477	16	020	ONE	DCW	@000001@		6	2990			56
478	16	030	GG4		@.G5@		3	2993			57
479	16	040	GG5		@.G5@		3	2996			57
480	16	050	GG6		@.G6@		3	2999			57
481	16	060	GG7		@.G7@		3	3002			57
482	16	070	HH3		@.H3@		3	3005			57
483	16	080	HH7		@.H7@		3	3008			57
484	16	090	II4		@.I4@		3	3011			57
485	16	100	II6		@.I6@		3	3014			58
486	16	110	JJ8		@.J8@		3	3017			58
487	16	120	JJ9		@.J9@		3	3020			58
488	16	130	KK0		@.K0@		3	3023			58
489	16	140	KK4		@.K4@		3	3026			58
490	16	150	KK5		@.K5@		3	3029			58
491	16	160	AA1		@.A0@		3	3032			58
492	16	170	AA2		@.A1@		3	3035			59
493	16	180	AA3		@.A2@		3	3038			59
494	16	190	FF4		@.F4@		3	3041			59
495	16	200	FF5		@.F5@		3	3044			59
496	16	210	FF6		@.F6@		3	3047			59
497	16	220	FF7		@.F7@		3	3050			59

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
498	16	230	FF8		@@.F8@		3	3053			59
499	16	240	ILIST	EQU	I-2			2936			
500	16	250	L29	EQU	*&1			3054			
501	17	010		DCW	@.H7.I6%@		7	3060			60
502	17	020	L31	EQU	*&1			3061			
503	17	030		DCW	@.K2.K3.L6.L7%@		13	3073			60
504	17	040	L32	EQU	*&1			3074			
505	17	050		DCW	@.K2.K3.L8.L9%@		13	3086			60
506	17	060	L34	EQU	*&1			3087			
507	17	070		DCW	@.G0.K7.K8.K9.L0%@		16	3102			61
508	17	080	L35	EQU	*&1			3103			
509	17	090		DCW	@.K6.L3.L4.K9.L5%@		16	3118			61
510	17	100	L36	EQU	*&1			3119			
511	17	110		DCW	@.L1.L2.K1.F0%@		13	3131			62
512	17	120	L37	EQU	*&1			3132			
513	17	130		DCW	@.L1.L2.K1.I5.F0%@		16	3147			62
514	17	140	L46	EQU	*&1			3148			
515	17	150		DCW	@.J0.J1%@		7	3154			62
516	17	160	L47	EQU	*&1			3155			
517	17	170		DCW	@.J2.J3.J4.J1%@		13	3167			63
518	17	180	L48	EQU	*&1			3168			
519	17	190		DCW	@.J2.J5.J6.J7%@		13	3180			63
520	17	200	L50	EQU	*&1			3181			
521	17	210		DCW	@.H4.I5.F0%@		10	3190			63
522	17	220	L51	EQU	*&1			3191			
523	17	230		DCW	@.H4.H8.I5.F0%@		13	3203			64
524	17	240	L52	EQU	*&1			3204			
525	17	250		DCW	@.H4.I0.F0%@		10	3213			64
526	18	010	L55	EQU	*&1			3214			
527	18	020		DCW	@.H4.H9.F0%@		10	3223			64
528	18	030	L56	EQU	*&1			3224			
529	18	040		DCW	@.H4.I1.I5.F0%@		13	3236			65
530	18	050	L59	EQU	*&1			3237			
531	18	060		DCW	@.H5.H6.L7.I6%@		13	3249			65
532	18	070	L60	EQU	*&1			3250			
533	18	080		DCW	@.M0.M1.L9%@		10	3259			65
534	18	090		LTORG					3260		
		145		DCW	&SW1		3	3262	P95	ADCON	65
					@003@		3	3265		LIT	66
		170			&L29		3	3268	?54	ADCON	66
		187			&L60		3	3271	B50	ADCON	66
		205			&L59		3	3274	B37	ADCON	66
					@1@		1	3275		LIT	66
		227			&NUMFG3		3	3278	Z09	ADCON	66
		235			&L51		3	3281	A91	ADCON	66
		240			&L50		3	3284	A81	ADCON	67
		242			&L52		3	3287	B04	ADCON	67
		251			&L55		3	3290	B14	ADCON	67
		253			&L56		3	3293	B24	ADCON	67
		271			&L32		3	3296	?74	ADCON	67

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
		273			&L31	3		3299	?61	ADCON	67
		278			&L34	3		3302	?87	ADCON	67
		282			&L35	3		3305	A03	ADCON	68
		296			&L37	3		3308	A32	ADCON	68
		303			&L36	3		3311	A19	ADCON	68
		323			&L36	3		3314	A19	ADCON	68
		341			&L48	3		3317	A68	ADCON	68
		347			&L47	3		3320	A55	ADCON	68
		349			&L46	3		3323	A48	ADCON	68
		361			&FF4	3		3326	?41	ADCON	69
		365			&FF5	3		3329	?44	ADCON	69
		371			&FF6	3		3332	?47	ADCON	69
		404			&OUTPAR	3		3335	O93	ADCON	69
535	18	100		ORG	3790				3790		
536	18	110		DCW	@}@	1		3790			70
537	18	120		END	GETT				/ T49 080		71

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CLEAR STORAGE 1 ,008015,019026,030,034041,045,053,0570571026 1
CLEAR STORAGE 2 L068112,102106,113/101099/I99,027A070028)027B0010270B0261,001/001113I0 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	010	000	JOB	1401 COBOL - I09						
102	1	020		CTL	631 11						
103	1	030		ORG	1300				1300		
104	1	040	IORW	EQU	343			0343			
105	1	050	PUTX	EQU	363			0363			
106	1	060	SUPER	EQU	351			0351			
107	1	070	GETX	EQU	335			0335			
108	1	080	X1	EQU	89			0089			
109	1	090	X2	EQU	94			0094			
110	1	100	X3	EQU	99			0099			
111	1	110	STARTS	EQU	332			0332			
112	1	120		MLCWA	188,3	7		1300	L 188	003	4
113	1	130		CS	332	4		1307	/ 332		4
114	1	140		CS		1		1311	/		4
115	1	150		CS		1		1312	/		4
116	1	160		SBR	358,959	7		1313	H 358	959	4
117	1	170		BSS	PHASE,F	5		1320	B T33	F	4
118	1	180		BW	START,86	8		1325	V T40	086 1	4
119	1	190	PHASE	B	SUPER	4		1333	B 351		5
120	1	200		DCW	@J01@	3		1339			5
121	1	210	START	SBR	X3,STARTS	7		1340	H 099	332	5
122	1	220	L1	B	GETBLK	4		1347	B A93		5
123	1	230		DCW	SX	3		1353	F98		5
124	1	240		DCW	L1	3		1356	T47		5
125	1	250		C	SX,@.IC@	7		1357	C F98	G15	5
126	2	010		BU	L1	5		1364	B T47	/	6
127	2	020	L2	B	GETSX	4		1369	B ?59		6
128	2	030		C	SX,@.DI@	7		1373	C F98	G18	6
129	2	040		BU	L2	5		1380	B T69	/	6
130	2	050		B	PUTSX	4		1385	B L93		6
131	2	060	L3	B	GETSX	4		1389	B ?59		6
132	2	070		C	SX,@.MC@	7		1393	C F98	G21	6
133	2	080		BU	L3	5		1400	B T89	/	7
134	2	090	L4	B	GETSX	4		1405	B ?59		7
135	2	100		C	SX,@.DE@	7		1409	C F98	G24	7
136	2	110		BE	KK12	5		1416	B A85	S	7
137	2	120		C	SX,@***@	7		1421	C F98	G27	7
138	2	130		BE	TOOS	5		1428	B V39	S	7
139	2	140		BCE	IODEV,SX-2,I	8		1433	B U85	F96 I	8
140	2	150		BCE	DIOC,SX-2,D	8		1441	B X99	F96 D	8
141	2	160		BCE	TAPE,SX-2,T	8		1449	B W24	F96 T	8
142	2	170		BCE	LABEL,SX-2,L	8		1457	B W58	F96 L	8
143	2	180		BCE	ALTDI,SX-2,A	8		1465	B X73	F96 A	9
144	2	190		BCE	REAER,SX-2,R	8		1473	B W05	F96 R	9
145	2	200		B	FEAT	4		1481	B X84		9
146	2	210	IODEV	B	GETOP	4		1485	B ?77		9
147	2	220	BACK1	BCE	READ,SX-2,R	8		1489	B V17	F96 R	9

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	2	230		BCE	PUNCH,SX-1,U		8	1497	B V28 F97 U		10
149	2	240		BCE	PRINT,SX-2,P		8	1505	B V55 F96 P		10
150	2	250		B	TAPEK		4	1513	B V66		10
151	3	010	READ	B	PUTX		4	1517	B 363		10
152	3	020		DCW	&@ 34@		3	1523	G30		10
153	3	030		B	IDE		4	1524	B V81		10
154	3	040	PUNCH	B	PUTX		4	1528	B 363		10
155	3	050		DCW	&@ 33@		3	1534	G33		11
156	3	060		B	IDE		4	1535	B V81		11
157	3	070	TOOS	B	PUTSX		4	1539	B L93		11
158	3	080		B	GETSX		4	1543	B ?59		11
159	3	090		B	PUTSX		4	1547	B L93		11
160	3	100		B	L4		4	1551	B U05		11
161	3	110	PRINT	B	PUTX		4	1555	B 363		11
162	3	120		DCW	&@ 32@		3	1561	G36		12
163	3	130		B	IDE		4	1562	B V81		12
164	3	140	TAPEK	B	PUTX		4	1566	B 363		12
165	3	150		DCW	&@ 35@		3	1572	G39		12
166	3	160		B	IDE		4	1573	B V81		12
167	3	170	IDEA	B	GETSX		4	1577	B ?59		12
168	3	180	IDE	BCE	BACK,SX,,		8	1581	B A77 F98 ,		12
169	3	190		C	SX,@.MC@		7	1589	C F98 G21		13
170	3	200		BE	L4		5	1596	B U05 S		13
171	3	210		B	IDEA		4	1601	B V77		13
172	3	220	REAER	BCE	RWDOR,SX-1,W		8	1605	B X39 F97 W		13
173	3	230		B	PUTX		4	1613	B 363		13
174	3	240		DCW	&@ 10@		3	1619	G42		13
175	3	250		B	IDE		4	1620	B V81		13
176	4	010	TAPE	B	GETOP		4	1624	B ?77		14
177	4	020		BCE	INPUT,SX-2,I		8	1628	B W47 F96 I		14
178	4	030		B	PUTX		4	1636	B 363		14
179	4	040		DCW	&@ 40@		3	1642	G45		14
180	4	050		B	IDE		4	1643	B V81		14
181	4	060	INPUT	B	PUTX		4	1647	B 363		14
182	4	070		DCW	&@ 39@		3	1653	G48		14
183	4	080		B	IDE		4	1654	B V81		15
184	4	090	LABEL	B	GETOP		4	1658	B ?77		15
185	4	100		BCE	STAND,SX-2,S		8	1662	B X28 F96 S		15
186	4	110		B	PUTX		4	1670	B 363		15
187	4	120		DCW	&@ 29@		3	1676	G51		15
188	4	130	LAB	B	GETSX		4	1677	B ?59		15
189	4	140		C	SX,@.MC@		7	1681	C F98 G21		15
190	4	150		BE	L4		5	1688	B U05 S		16
191	4	160		BCE	IDENT,SX,,		8	1693	B X05 F98 ,		16
192	4	170		B	LAB		4	1701	B W77		16
193	4	180	IDENT	B	GETSX		4	1705	B ?59		16
194	4	190		BCE	CHERDL,SX-2,C		8	1709	B ?41 F96 C		16
195	4	200		B	PUTX		4	1717	B 363		16
196	4	210		DCW	&@ 27@		3	1723	G54		16
197	4	220		B	IDEA		4	1724	B V77		17

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
198	4	230	STAND	B	PUTX		4	1728	B 363		17
199	4	240		DCW	&@ 31@		3	1734	G57		17
200	4	250		B	LAB		4	1735	B W77		17
201	5	010	RWDOR	B	GETOP		4	1739	B ?77		17
202	5	020		BCE	UNLOAD,SX-2,U		8	1743	B X62	F96 U	17
203	5	030		B	PUTX		4	1751	B 363		17
204	5	040		DCW	&@ 13@		3	1757	G60		18
205	5	050		B	IDE		4	1758	B V81		18
206	5	060	UNLOAD	B	PUTX		4	1762	B 363		18
207	5	070		DCW	&@ 12@		3	1768	G63		18
208	5	080		B	IDE		4	1769	B V81		18
209	5	090	ALTDR	B	PUTX		4	1773	B 363		18
210	5	100		DCW	&@ 25@		3	1779	G66		18
211	5	110		B	IDE		4	1780	B V81		19
212	5	120	FEAT	B	GETOP		4	1784	B ?77		19
213	5	130		B	PUTX		4	1788	B 363		19
214	5	140		DCW	&@ 02@		3	1794	G69		19
215	5	150		B	IDE		4	1795	B V81		19
216	5	160	DIOC	B	PUTX		4	1799	B 363		19
217	5	170		DCW	DIOC1		3	1805	Y12		19
218	5	180		B	PUTT		4	1806	B O35		20
219	5	190	DIOC1	DCW	@237@		3	1812			20
220	5	200		B	IDE		4	1813	B V81		20
221	5	210	K1	B	GETBLK		4	1817	B A93		20
222	5	220		DCW	SX		3	1823	F98		20
223	5	230		DCW	K1		3	1826	Y17		20
224	5	240		C	SX,@.DT@		7	1827	C F98	G72	20
225	5	250		BU	K1		5	1834	B Y17	/	21
226	6	010		B	PUTX		4	1839	B 363		21
227	6	020		DCW	SX		3	1845	F98		21
228	6	030		SW	SW1A		4	1846	, F45		21
229	6	040	K2	B	GETSX		4	1850	B ?59		21
230	6	050		C	SX,@DTF@		7	1854	C F98	G75	21
231	6	060		BE	FILEN		5	1861	B O01	S	21
232	6	070		B	K2		4	1866	B Y50		22
233	6	080	K3	B	GETSX		4	1870	B ?59		22
234	6	090		C	SX,@.LC@		7	1874	C F98	G78	22
235	6	100		BE	K2		5	1881	B Y50	S	22
236	6	110		C	SX,@***@		7	1886	C F98	G27	22
237	6	120		BE	GGT		5	1893	B Z82	S	22
238	6	130		BCE	ALTAPE,SX-2,A		8	1898	B !18	F96 A	23
239	6	140		BCE	BLOCK,SX-2,B		8	1906	B !36	F96 B	23
240	6	150		BCE	DET,SX-2,C		8	1914	B !54	F96 C	23
241	6	160		BCE	FILE,SX-2,F		8	1922	B J63	F96 F	23
242	6	170		BCE	HEAD,SX-2,H		8	1930	B K85	F96 H	24
243	6	180		BCE	IOAREA,SX-2,I		8	1938	B L45	F96 I	24
244	6	190		BCE	DETER,SX-2,R		8	1946	B M08	F96 R	24
245	6	200		BCE	SIZE,SX-2,S		8	1954	B N46	F96 S	24
246	6	210		BCE	TYPE,SX-2,T		8	1962	B N72	F96 T	25
247	6	220		BCE	WORK,SX-2,W		8	1970	B N83	F96 W	25

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
248	6	230		B	DONE		4	1978	B F49		25
249	6	240	GGT	B	PUTSX		4	1982	B L93		25
250	6	250		B	GETSX		4	1986	B ?59		25
251	7	010		B	PUTSX		4	1990	B L93		25
252	7	020		B	K3		4	1994	B Y70		25
253	7	030	NEXT1	B	GETSX		4	1998	B ?59		26
254	7	040	NEXT	C	SX,@.MC@		7	2002	C F98	G21	26
255	7	050		BU	NEXT1		5	2009	B Z98	/	26
256	7	060		B	K3		4	2014	B Y70		26
257	7	070	ALTAPE	B	PUTX		4	2018	B 363		26
258	7	080		DCW	ALT1		3	2024	!31		26
259	7	090		B	PUTT		4	2025	B O35		26
260	7	100	ALT1	DCW	@143@		3	2031			27
261	7	110		B	NEXT		4	2032	B !02		27
262	7	120	BLOCK	B	PUTX		4	2036	B 363		27
263	7	130		DCW	BLOCK1		3	2042	!49		27
264	7	140		B	PUTT		4	2043	B O35		27
265	7	150	BLOCK1	DCW	@236@		3	2049			27
266	7	160		B	NEXT		4	2050	B !02		27
267	7	170	DET	BCE	CARD,SX,R		8	2054	B !82	F98 R	28
268	7	180		BCE	CHAN,SX,A		8	2062	B J00	F98 A	28
269	7	190		BCE	CHECK,SX,E		8	2070	B J18	F98 E	28
270	7	200		B	COBOL		4	2078	B J52		28
271	7	210	CARD	B	PUTX		4	2082	B 363		28
272	7	220		DCW	CARD1		3	2088	!95		28
273	7	230		B	PUTT		4	2089	B O35		28
274	7	240	CARD1	DCW	@144@		3	2095			29
275	7	250		B	NEXT		4	2096	B !02		29
276	8	010	CHAN	B	PUTX		4	2100	B 363		29
277	8	020		DCW	CHAN1		3	2106	J13		29
278	8	030		B	PUTT		4	2107	B O35		29
279	8	040	CHAN1	DCW	@145@		3	2113			29
280	8	050		B	NEXT		4	2114	B !02		29
281	8	060	CHECK	B	GETOP		4	2118	B ?77		30
282	8	070		BCE	ALL,SX-2,A		8	2122	B J41	F96 A	30
283	8	080		B	PUTX		4	2130	B 363		30
284	8	090		DCW	&@ 23@		3	2136	G81		30
285	8	100		B	NEXT		4	2137	B !02		30
286	8	110	ALL	B	PUTX		4	2141	B 363		30
287	8	120		DCW	&@ 24@		3	2147	G84		30
288	8	130		B	NEXT		4	2148	B !02		31
289	8	140	COBOL	B	PUTX		4	2152	B 363		31
290	8	150		DCW	&@ 56@		3	2158	G87		31
291	8	160		B	NEXT		4	2159	B !02		31
292	8	170	FILE	B	GETOP		4	2163	B ?77		31
293	8	180		BCE	PUNCHA,SX-1,U		8	2167	B K06	F97 U	31
294	8	190		BCE	PRINTA,SX-2,P		8	2175	B J95	F96 P	31
295	8	200		BCE	READA,SX-2,R		8	2183	B K17	F96 R	32
296	8	210		B	TAPEA		4	2191	B K28		32
297	8	220	PRINTA	B	PUTX		4	2195	B 363		32

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
298	8	230		DCW	&@ 48@		3	2201	G90		32
299	8	240		B	NEXT		4	2202	B !02		32
300	8	250	PUNCHA	B	PUTX		4	2206	B 363		32
301	9	010		DCW	&@ 49@		3	2212	G93		32
302	9	020		B	NEXT		4	2213	B !02		33
303	9	030	READA	B	PUTX		4	2217	B 363		33
304	9	040		DCW	&@ 50@		3	2223	G96		33
305	9	050		B	NEXT		4	2224	B !02		33
306	9	060	TAPEA	B	PUTX		4	2228	B 363		33
307	9	070		DCW	&@ 51@		3	2234	G99		33
308	9	080	TAPE1	B	GETSX		4	2235	B ?59		33
309	9	090		C	SX,@ ,@		7	2239	C F98 H02		34
310	9	100		BU	TAPE1		5	2246	B K35 /		34
311	9	110		B	GETSX		4	2251	B ?59		34
312	9	120		BCE	INPUTA,SX-2,I		8	2255	B K74 F96 I		34
313	9	130		B	PUTX		4	2263	B 363		34
314	9	140		DCW	&@ 52@		3	2269	H05		34
315	9	150		B	NEXT		4	2270	B !02		34
316	9	160	INPUTA	B	PUTX		4	2274	B 363		35
317	9	170		DCW	&@ 53@		3	2280	H08		35
318	9	180		B	NEXT		4	2281	B !02		35
319	9	190	HEAD	B	PUTX		4	2285	B 363		35
320	9	200		DCW	HEAD1		3	2291	K98		35
321	9	210		B	PUTT		4	2292	B 035		35
322	9	220	HEAD1	DCW	@520@		3	2298			35
323	9	230	HEAD8	C	SX,@.MC@		7	2299	C F98 G21		36
324	9	240		BE	K3		5	2306	B Y70 S		36
325	9	250		SW	SWTT&4		4	2311	, 054		36
326	10	010		B	GETSX		4	2315	B ?59		36
327	10	020		BCE	CREAT,SX-2,		8	2319	B ?23 F96		36
328	10	030		B	PUTX		4	2327	B 363		36
329	10	040		DCW	HEAD2		3	2333	L40		36
330	10	050		B	PUTT		4	2334	B 035		37
331	10	060	HEAD2	DCW	@122@		3	2340			37
332	10	070		B	NEXT		4	2341	B !02		37
333	10	080	IOAREA	B	PUTX		4	2345	B 363		37
334	10	090		DCW	IO1		3	2351	L58		37
335	10	100		B	PUTT		4	2352	B 035		37
336	10	110	IO1	DCW	@234@		3	2358			37
337	10	120		C	SX,@.MC@		7	2359	C F98 G21		38
338	10	130		BE	K3		5	2366	B Y70 S		38
339	10	140		B	PUTX		4	2371	B 363		38
340	10	150		DCW	IO2		3	2377	L88		38
341	10	160		SW	ST10		4	2378	, F44		38
342	10	170		B	PUTT		4	2382	B 035		38
343	10	180	IO2	DCW	@235@		3	2388			38
344	10	190		B	NEXT		4	2389	B !02		39
345	10	200	PUTSX	SBR	FINNS&3		4	2393	H M07		39
346	10	210		B	PUTX		4	2397	B 363		39
347	10	220		DCW	SX		3	2403	F98		39

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
348	10	230	FINNS	B	*		4	2404	B M07		39
349	10	240	DETER	BCE	RECF, SX, C		8	2408	B M58 F98 C		39
350	10	250		BCE	REEL, SX, E		8	2416	B R87 F98 E		39
351	11	010		B	GETOP		4	2424	B ?77		40
352	11	020		BCE	NOR, SX-2, N		8	2428	B M47 F96 N		40
353	11	030		B	PUTX		4	2436	B 363		40
354	11	040		DCW	&@ 09@		3	2442	H11		40
355	11	050		B	NEXT		4	2443	B !02		40
356	11	060	NOR	B	PUTX		4	2447	B 363		40
357	11	070		DCW	&@ 08@		3	2453	H14		40
358	11	080		B	NEXT		4	2454	B !02		41
359	11	090	RECF	B	GETOP		4	2458	B ?77		41
360	11	100		BCE	BLOCKE, SX-2, B		8	2462	B M88 F96 B		41
361	11	110		B	PUTX		4	2470	B 363		41
362	11	120		DCW	&@ 41@		3	2476	H17		41
363	11	130	RECF1	B	PUTX		4	2477	B 363		41
364	11	140		DCW	&@ 40@		3	2483	G45		41
365	11	150		B	NEXT		4	2484	B !02		42
366	11	160	BLOCKE	B	PUTX		4	2488	B 363		42
367	11	170		DCW	&@ 42@		3	2494	H20		42
368	11	180	BLOCKS	B	GETSX		4	2495	B ?59		42
369	11	190		BCE	BLOOS, SX-2, ,		8	2499	B N23 F96 ,		42
370	11	200		C	SX, @.MC@		7	2507	C F98 G21		42
371	11	210		BE	RECF1		5	2514	B M77 S		42
372	11	220		B	BLOCKS		4	2519	B M95		43
373	11	230	BLOOS	BCE	BLLK, SX-1, V		8	2523	B N35 F97 V		43
374	11	240		B	RECF1		4	2531	B M77		43
375	11	250	BLLK	B	PUTX		4	2535	B 363		43
376	12	010		DCW	&@ 39@		3	2541	G48		43
377	12	020		B	NEXT		4	2542	B !02		43
378	12	030	SIZE	BCE	SERIAL, SX, R		8	2546	B ?05 F98 R		43
379	12	040		B	PUTX		4	2554	B 363		44
380	12	050		DCW	SIZE1		3	2560	N67		44
381	12	060		B	PUTT		4	2561	B O35		44
382	12	070	SIZE1	DCW	@138@		3	2567			44
383	12	080		B	NEXT		4	2568	B !02		44
384	12	090	TYPE	B	PUTX		4	2572	B 363		44
385	12	100		DCW	&@ 27@		3	2578	G54		44
386	12	110		B	NEXT		4	2579	B !02		45
387	12	120	WORK	B	PUTX		4	2583	B 363		45
388	12	130		DCW	WORK1		3	2589	N96		45
389	12	140		B	PUTT		4	2590	B O35		45
390	12	150	WORK1	DCW	@233@		3	2596			45
391	12	160		B	NEXT		4	2597	B !02		45
392	12	170	FILEN	BW	FILL, SW1A		8	2601	V O13 F45 1		45
393	12	180		B	KK1		4	2609	B A05		46
394	12	190	FILL	B	PUTX		4	2613	B 363		46
395	12	200		DCW	FILEN1		3	2619	O30		46
396	12	210		CW	SW1A		4	2620	) F45		46
397	12	220		B	PUTT		4	2624	B O35		46

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
398	12	230	FILEN1	DCW	@254@		3	2630			46
399	12	240		B	NEXT		4	2631	B !02		46
400	12	250	PUTT	SBR	X2		4	2635	H 094		47
401	13	010		MLC	2&X2,0&X3		7	2639	M 0!2 0?0		47
402	13	020		SBR	X3		4	2646	H 099		47
403	13	030	SWTT	BEF	PUTTS		5	2650	B 067 K		47
404	13	040		BW	PUAT,ST10		8	2655	V P28 F44 1		47
405	13	050		B	GETOP		4	2663	B ?77		47
406	13	060	PUTTS	C	SX,@.MC@		7	2667	C F98 G21		47
407	13	070		BE	END		5	2674	B P59 S		48
408	13	080		BCE	END,SX,,		8	2679	B P59 F98 ,		48
409	13	090		BCE	PUT1,SX-1,		8	2687	B P36 F97		48
410	13	100		MA	@003@,PUTT3&6					MACRO	
411				SW	PUTT3&6-2		4	2695	, P14	GEN	48
412				A	@003@,PUTT3&6		7	2699	A H23 P16	GEN	48
413				CW	PUTT3&6-2		4	2706	) P14	GEN	48
414	13	110	PUTT3	MLC	SX,HOLD		7	2710	M F98 F98		49
415	13	120		CW	SX,ST10		7	2717	) F98 F44		49
416	13	130		CW	SWTT&4		4	2724	) O54		49
417	13	140	PUAT	B	GETSX		4	2728	B ?59		49
418	13	150		B	PUTTS		4	2732	B 067		49
419	13	160	PUT1	MA	@001@,PUTT3&6					MACRO	
420			PUT1	SW	PUTT3&6-2		4	2736	, P14	GEN	49
421				A	@001@,PUTT3&6		7	2740	A H26 P16	GEN	49
422				CW	PUTT3&6-2		4	2747	) P14	GEN	50
423	13	170		SW	SX		4	2751	, F98		50
424	13	180		B	PUTT3		4	2755	B P10		50
425	13	190	END	BCE	ONE,0&X2,1		8	2759	B P79 0!0 1		50
426	13	200		BCE	TWO,0&X2,2		8	2767	B Q23 0!0 2		50
427	13	210		B	FIVE		4	2775	B R35		50
428	13	220	ONE	MLC	PUTT3&6,X1		7	2779	M P16 089		50
429	13	230		MLC	0&X1,SY		7	2786	M 0|0 F48		51
430	13	240		MLC	SY,0&X3		7	2793	M F48 0?0		51
431	13	250		SBR	X3		4	2800	H 099		51
432	14	010		B	EX		4	2804	B Q99		51
433	14	020	FIX	MLC	@ 0@,0&X3		7	2808	M H29 0?0		51
434	14	030		SBR	X3		4	2815	H 099		51
435	14	040		B	ONE		4	2819	B P79		51
436	14	050	TWO	BCE	FIX,HOLD&4,		8	2823	B Q08 G02		52
437	14	060		BCE	FIX1,HOLD&5,		8	2831	B Q55 G03		52
438	14	070		BCE	FIX2,HOLD&6,		8	2839	B Q77 G04		52
439	14	080		BCE	FIX3,HOLD&7,		8	2847	B Q88 G05		52
440	14	090	FIX1	MLC	HOLD&1,SY		7	2855	M F99 F48		52
441	14	100	FIXX1	MLC	SY,0&X3		7	2862	M F48 0?0		53
442	14	110		SBR	X3		4	2869	H 099		53
443	14	120		B	ONE		4	2873	B P79		53
444	14	130	FIX2	MLC	HOLD&2,SY		7	2877	M G00 F48		53
445	14	140		B	FIXX1		4	2884	B Q62		53
446	14	150	FIX3	MLC	HOLD&3,SY		7	2888	M G01 F48		53
447	14	160		B	FIXX1		4	2895	B Q62		53

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
448	14	170	EX	MLC	@ ,@,0&X3	7		2899	M H02 0?0		54
449	14	180		SBR	X3	4		2906	H 099		54
450	14	190		MLC	BLANK#10,HOLD&10	7		2910	M H39 G08		54
451	14	200		MLC	BLANK,SY	7		2917	M H39 F48		54
452	14	210		SBR	PUTT3&6,HOLD	7		2924	H P16 F98		54
453	14	220		B	3&X2	4		2931	B 0|3		54
454	14	230	FIVE	SBR	X1,HOLD&2	7		2935	H 089 G00		55
455	14	240	FOUR1	BCE	EX,0&X1,	8		2942	B Q99 0|0		55
456	14	250		SW	SY-1	4		2950	, F47		55
457	15	010		MLC	0&X1,SY	7		2954	M 0|0 F48		55
458	15	020		CW	SY-1	4		2961	) F47		55
459	15	030		MLC	SY,0&X3	7		2965	M F48 0?0		55
460	15	040		SBR	X3	4		2972	H 099		56
461	15	050		A	@002@,X1	7		2976	A H42 089		56
462	15	060		B	FOUR1	4		2983	B R42		56
463	15	070	REEL	B	PUTX	4		2987	B 363		56
464	15	080		DCW	REEL1	3		2993	?00		56
465	15	090		B	PUTT	4		2994	B 035		56
466	15	100	REEL1	DCW	@105@	3		3000			56
467	15	110		B	NEXT	4		3001	B !02		57
468	15	120	SERIAL	B	PUTX	4		3005	B 363		57
469	15	130		DCW	SERL1	3		3011	?18		57
470	15	140		B	PUTT	4		3012	B 035		57
471	15	150	SERL1	DCW	@219@	3		3018			57
472	15	160		B	NEXT	4		3019	B !02		57
473	15	170	CREAT	B	PUTX	4		3023	B 363		57
474	15	180		DCW	CREAT1	3		3029	?36		58
475	15	190		B	PUTT	4		3030	B 035		58
476	15	200	CREAT1	DCW	@221@	3		3036			58
477	15	210		B	HEAD8	4		3037	B K99		58
478	15	220	CHERDL	B	PUTX	4		3041	B 363		58
479	15	230		DCW	&@ 28@	3		3047	H45		58
480	15	240		B	PUTX	4		3048	B 363		58
481	15	250		DCW	&@ 16@	3		3054	H48		59
482	16	010		B	IDEA	4		3055	B V77		59
483	16	020	GETSX	SBR	EXT&3	4		3059	H ?76		59
484	16	030	A2	B	GETTP	4		3063	B B08		59
485	16	040		DCW	SX	3		3069	F98		59
486	16	050		DCW	A2	3		3072	?63		59
487	16	060	EXT	B	*	4		3073	B ?76		59
488	16	070	GETOP	SBR	EXT1&3	4		3077	H A04		60
489	16	080	GETT1B	B	GETSX	4		3081	B ?59		60
490	16	090		C	SX,@.OP@	7		3085	C F98 H51		60
491	16	100		BU	GETT1B	5		3092	B ?81 /		60
492	16	110		B	GETSX	4		3097	B ?59		60
493	16	120	EXT1	B	*	4		3101	B A04		60
494	16	130	KK1	SBR	EXIT&3	4		3105	H A76		60
495	16	140		B	PUTX	4		3109	B 363		61
496	16	150		DCW	&@ .@	3		3115	H54		61
497	16	160		SBR	X3,STARTS	7		3116	H 099 332		61

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
498	16	170	KK2	BCE	K12,0&X3,		8	3123	B A53 0?0		61
499	16	180		MLC	0&X3,SY		7	3131	M 0?0 F48		61
500	16	190		SAR	X3		4	3138	Q 099		61
501	16	200		B	PUTX		4	3142	B 363		61
502	16	210		DCW	SY		3	3148	F48		62
503	16	220		B	KK2		4	3149	B A23		62
504	16	230	K12	B	PUTX		4	3153	B 363		62
505	16	240		DCW	&.MC@		3	3159	G21		62
506	16	250		CS	STARTS		4	3160	/ 332		62
507	17	010		CS			1	3164	/		62
508	17	020		CS			1	3165	/		62
509	17	030		SBR	X3,STARTS		7	3166	H 099 332		63
510	17	040	EXIT	B	*		4	3173	B A76		63
511	17	050	BACK	B	GETSX		4	3177	B ?59		63
512	17	060		B	BACK1		4	3181	B U89		63
513	17	070	KK12	B	KK1		4	3185	B A05		63
514	17	080		B	K1		4	3189	B Y17		63
515	17	090	GETBLK	SBR	X1		4	3193	H 089		63
516	17	100		MLC	&CMAX,GET1&3		7	3197	M H57 B63		64
517	17	110		B	GETT1		4	3204	B B12		64
518	17	120	GETTP	SBR	X1		4	3208	H 089		64
519	17	130	GETT1	SBR	GET3&3,6&X1		7	3212	H B89 0|6		64
520	17	140		MLC	2&X1,GET2&6		7	3219	M 0|2 B73		64
521	17	150		MLC	5&X1,GET7&3		7	3226	M 0|5 C39		64
522	17	160		C	GET1&3,&CMAX		7	3233	C B63 H60		65
523	17	170		BE	GET4		5	3240	B B90 S		65
524	17	180		MA	@003@,GET1&3					MACRO	
525				SW	GET1&3-2		4	3245	, B61	GEN	65
526				A	@003@,GET1&3		7	3249	A H23 B63	GEN	65
527				CW	GET1&3-2		4	3256	) B61	GEN	65
528	17	190	GET1	MLC	CMAX,C1		7	3260	M F42 C42		65
529	17	200	GET2	MLC	C1,*		7	3267	M C42 B73		66
530	17	210		C	C1,@.EB@		7	3274	C C42 H63		66
531	17	220		BE	GET6		5	3281	B C29 S		66
532	17	230	GET3	B	0		4	3286	B 000		66
533	17	240	GET4	SW	GETGM		4	3290	, F43		66
534	17	250		B	IORW		4	3294	B 343		66
535	18	010		RT	4,CIN1		8	3298	M %U4 C43 R		66
536	18	020		DCW	GET5		3	3308	C20		67
537	18	030		MLC	&CIN2,GET1&3		7	3309	M H66 B63		67
538	18	040		B	GET1		4	3316	B B60		67
539	18	050	GET5	RWD	4		5	3320	U %U4 R		67
540	18	060		B	GET4		4	3325	B B90		67
541	18	070	GET6	MLC	&CMAX,GET1&3		7	3329	M H69 B63		67
542	18	080	GET7	B	0		4	3336	B 000		67
543	18	090	C1	DCW	#3		3	3342			68
544	18	100	CIN1	DA	1X300			3343	3642		68
545	18	110	CIN2		1,3			3345		FIELD	68
546	18	120	CMAX		300			3642		SBFLD	68
547	18	130	GETGM	DC	@}@		1	3643			69

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
548	18	140	ST10	DC	#1		1	3644			69
549	18	150	SW1A	DC	#1		1	3645			69
550	18	160	SY	DCW	#3		3	3648			69
551	18	170	DONE	B	KK1		4	3649	B A05		69
552	18	180		B	PUTX		4	3653	B 363		69
553	18	190		DCW	&@.EE@		3	3659	H72		69
554	18	200	DONE7	CS	3890		4	3660	/ H90		70
555	18	202		CS			1	3664	/		70
556	18	203		B	GETX		4	3665	B 335		70
557	18	210		DCW	SX		3	3671	F98		70
558	18	220		DCW	EOP		3	3674	F82		70
559	18	230		B	SUPER		4	3675	B 351		70
560	18	240		DCW	@SP1@		3	3681			70
561	18	250	EOP	B	PUTX		4	3682	B 363		71
562	19	010		DCW	SX		3	3688	F98		71
563	19	020		B	SUPER		4	3689	B 351		71
564	19	030		DCW	@I10@		3	3695			71
565	19	040	SX	DCW	#3		3	3698			71
566	19	050	HOLD	EQU	*			3698			
567	19	060		DCW	#14		14	3712			71
568	19	070		LTORG					3713		
				DCW	@.IC@		3	3715		LIT	71
					@.DI@		3	3718		LIT	72
					@.MC@		3	3721		LIT	72
					@.DE@		3	3724		LIT	72
					@***@		3	3727		LIT	72
					@ 34@		3	3730		LIT	72
					@ 33@		3	3733		LIT	72
					@ 32@		3	3736		LIT	72
					@ 35@		3	3739		LIT	73
					@ 10@		3	3742		LIT	73
					@ 40@		3	3745		LIT	73
					@ 39@		3	3748		LIT	73
					@ 29@		3	3751		LIT	73
					@ 27@		3	3754		LIT	73
					@ 31@		3	3757		LIT	73
					@ 13@		3	3760		LIT	74
					@ 12@		3	3763		LIT	74
					@ 25@		3	3766		LIT	74
					@ 02@		3	3769		LIT	74
					@.DT@		3	3772		LIT	74
					@DTF@		3	3775		LIT	74
					@.LC@		3	3778		LIT	74
					@ 23@		3	3781		LIT	75
					@ 24@		3	3784		LIT	75
					@ 56@		3	3787		LIT	75
					@ 48@		3	3790		LIT	75
					@ 49@		3	3793		LIT	75
					@ 50@		3	3796		LIT	75
					@ 51@		3	3799		LIT	75

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
					@ ,@		3	3802		LIT	76
					@ 52@		3	3805		LIT	76
					@ 53@		3	3808		LIT	76
					@ 09@		3	3811		LIT	76
					@ 08@		3	3814		LIT	76
					@ 41@		3	3817		LIT	76
					@ 42@		3	3820		LIT	76
					@003@		3	3823		LIT	77
					@001@		3	3826		LIT	77
					@ 0@		3	3829		LIT	77
450			BLANK		#10		10	3839		AREA	77
					@002@		3	3842		LIT	77
					@ 28@		3	3845		LIT	77
					@ 16@		3	3848		LIT	77
					@.OP@		3	3851		LIT	78
					@ .@		3	3854		LIT	78
516					&CMAX		3	3857	F42	ADCON	78
522					&CMAX		3	3860	F42	ADCON	78
					@.EB@		3	3863		LIT	78
537					&CIN2		3	3866	C45	ADCON	78
541					&CMAX		3	3869	F42	ADCON	78
					@.EE@		3	3872		LIT	79
569	19	080		DCW	@}@		1	3873			79
570	19	090		END					/ 000 080		80

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	010	000	JOB	1401 COBOL - SP1						
102	1	020		CTL	661 11						
103	1	030	SUPER	EQU	351			0351			
104	1	040	X1	EQU	89			0089			
105	1	050	X2	EQU	94			0094			
106	1	060	X3	EQU	99			0099			
107	1	070	IORW	EQU	343			0343			
108	1	080	PUTX	EQU	363			0363			
109	1	090	BSPBKT	EQU	1299			1299			
110	1	100		ORG	2730				2730		
111	1	110	INIT	MLC	564,PBAD	7	2730	M 564	F20		4
112	1	120		MLC	448,PIAD	7	2737	M 448	F23		4
113	1	130		MLC	570,GBAD	7	2744	M 570	F26		4
114	1	140		MLC	665,GIAD	7	2751	M 665	F29		4
115	1	145		MLC	GIAD,X1	7	2758	M F29	089		4
116	2	171		SW	0&X1	4	2765	,	0|0		4
117	1	150		MLC	628,GETA	7	2769	M 628	F32		5
118	1	160		C	573,GETA	7	2776	C 573	F32		5
119	1	170		BU	INIT1	5	2783	B P95	/		5
120	1	180		MLC	@T@,WMSW	7	2788	M F67	F63		5
121	1	190	INIT1	MLC	394,PUTA	7	2795	M 394	F35		5
122	1	200		MLC	662,READAD-3	7	2802	M 662	F38		6
123	1	210		MLC	GIAD,READAD	7	2809	M F29	F41		6
124	1	220		MLC	READAD,RTR01&6	7	2816	M F41	A85		6
125	1	230		MLC	READAD,RTR03&6	7	2823	M F41	C37		6
126	1	240		MLC	READAD,RTR04&6	7	2830	M F41	C70		6
127	1	250		MLC	445,READAD-3	7	2837	M 445	F38		7
128	2	010		MLC	READAD,WRTG01&6	7	2844	M F41	B00		7
129	2	020		MLC	PIAD,READAD	7	2851	M F23	F41		7
130	2	030		MLC	READAD,WRT01&6	7	2858	M F41	D66		7
131	2	040		MLZS	PBAD,RZNSV	7	2865	Y F20	F44		7
132	2	050		MLZS		1	2872	Y			7
133	2	060		MLZS		1	2873	Y			7
134	2	070		MLZS	@ @,PIAD	7	2874	Y F68	F23		8
135	2	080		S	&1,PIAD	7	2881	S F69	F23		8
136	2	090		MLZS	RZNSV,PIAD	7	2888	Y F44	F23		8
137	2	100		MLZS		1	2895	Y			8
138	2	110		MLZS		1	2896	Y			8
139	2	120		MLZS	@ @,GIAD	7	2897	Y F68	F29		8
140	2	130		S	&1,GIAD	7	2904	S F69	F29		8
141	2	140		MLZS	RZNSV,GIAD	7	2911	Y F44	F29		9
142	2	150		MLZS		1	2918	Y			9
143	2	160		MLZS		1	2919	Y			9
144	2	170		MLC	GBAD,X1	7	2920	M F26	089		9
145	2	180	INIT2	C	0&X1	4	2927	C 0|0			9
146	2	190		SAR	X1	4	2931	Q 089			9
147	2	200		C	X1,GIAD	7	2935	C 089	F29		9

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	2	210		BE	INIT3		5	2942	B R55 S		10
149	2	220		CW	1&X1		4	2947	) 0|1		10
150	2	230		B	INIT2		4	2951	B R27		10
151	2	240	INIT3	MLC	PBAD, X1		7	2955	M F20 089		10
152	2	250	INIT4	C	0&X1		4	2962	C 0|0		10
153	3	010		SAR	X1		4	2966	Q 089		10
154	3	020		C	X1, PIAD		7	2970	C 089 F23		10
155	3	030		BE	INIT5		5	2977	B R90 S		11
156	3	040		CW	1&X1		4	2982	) 0|1		11
157	3	050		B	INIT4		4	2986	B R62		11
158	3	060	INIT5	MLZS	@ @, GETA		7	2990	Y F68 F32		11
159	3	070		MLZS	@ @, PUTA		7	2997	Y F68 F35		11
160	3	080	ADCALC	MLC	GBAD, ADBUCK		7	3004	M F26 F47		11
161	3	090		MLZS	@ @, ADBUCK		7	3011	Y F68 F47		12
162	3	100		S	GETA, ADBUCK		7	3018	S F32 F47		12
163	3	110		MLC	ADBUCK, GL		7	3025	M F47 F50		12
164	3	120		A	&3, GL		7	3032	A F70 F50		12
165	3	130		MLZS	@ @, GL		7	3039	Y F68 F50		12
166	3	140		MLC	PBAD, ADBUCK		7	3046	M F20 F47		13
167	3	150		MLZS	@ @, ADBUCK		7	3053	Y F68 F47		13
168	3	160		S	PUTA, ADBUCK		7	3060	S F35 F47		13
169	3	170		A	&3, ADBUCK		7	3067	A F70 F47		13
170	3	180		MLC	ADBUCK, PL		7	3074	M F47 F53		13
171	3	190		MLZS	@ @, PL		7	3081	Y F68 F53		14
172	3	200		MLZS	RZNSV, GETA		7	3088	Y F44 F32		14
173	3	210		MLC	GETA, X1		7	3095	M F32 089		14
174	3	220		C	@ @, 0&X1		7	3102	C F73 0|0		14
175	3	230		SBR	X1		4	3109	H 089		14
176	3	240		SBR	SWSV		4	3113	H F62		14
177	3	250		SW	1&X1		4	3117	, 0|1		15
178	4	010	ADCL01	C	PL, GL		7	3121	C F53 F50		15
179	4	020		BH	GRTRNR		5	3128	B B09 U		15
180	4	030		BL	LSTRNR		5	3133	B B70 T		15
181	4	040	EQTRNR	MLC	GBAD, X2		7	3138	M F26 094		15
182	4	050		MLC	PBAD, X3		7	3145	M F20 099		15
183	4	060		MLC	0&X2, 0&X3		7	3152	M 0|0 0?0		16
184	4	070		BCE	EQTR02, WMSW, T		8	3159	B A71 F63 T		16
185	4	080		CW	1&X1		4	3167	) 0|1		16
186	4	090	EQTR02	B	WRITE		4	3171	B D52		16
187	4	100	EQTR01	B	IORW		4	3175	B 343		16
188	4	110	RTR01	RT	*, *		8	3179	M A86 A86 R		16
189	4	120		DCW	EXIT		3	3189	C83		16
190	4	130		B	IORW		4	3190	B 343		17
191	4	140	WRTG01	WT	*, *		8	3194	M B01 B01 W		17
192	4	150		DCW	EOTW		3	3204	D47		17
193	4	160		B	EQTR01		4	3205	B A75		17
194	4	170	GRTRNR	MLC	GETA, GX		7	3209	M F32 F56		17
195	4	180		MLZS	@ @, GX		7	3216	Y F68 F56		17
196	4	190		S	&3, GX		7	3223	S F70 F56		18
197	4	200		A	PL, GX		7	3230	A F53 F56		18

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
198	4	210		MLC	PIAD,PX	7		3237	M F23 F59		18
199	4	220		B	SETMVS	4		3244	B E43		18
200	4	230		MLC	GX,MVLB01&3	7		3248	M F56 B58		18
201	4	240	MVLB01	MLC	*,0&X3	7		3255	M B61 0?0		18
202	4	250		B	SWRTN	4		3262	B D75		19
203	5	010		B	LSTR01	4		3266	B C49		19
204	5	020	LSTRNR	MLC	PBAD,PX	7		3270	M F20 F59		19
205	5	030		MLC	GIAD,GX	7		3277	M F29 F56		19
206	5	040		MLZS	@ @,GX	7		3284	Y F68 F56		19
207	5	050		A	PL,GX	7		3291	A F53 F56		19
208	5	060		S	GL,GX	7		3298	S F50 F56		20
209	5	070		B	SETMVS	4		3305	B E43		20
210	5	080		MLC	PX,MVLB04&6	7		3309	M F59 C22		20
211	5	090	MVLB04	MLC	0&X2,*	7		3316	M 0!0 C22		20
212	5	100		B	SWRTN	4		3323	B D75		20
213	5	110		B	IORW	4		3327	B 343		20
214	5	120	RTR03	RT	*,*	8		3331	M C38 C38 R		21
215	5	130		DCW	EOTW1	3		3341	C79		21
216	5	140	MVLB05	MLC	*,0&X3	7		3342	M C48 0?0		21
217	5	150	LSTR01	B	WRITE	4		3349	B D52		21
218	5	160	MVLB06	MLC	0&X2,*	7		3353	M 0!0 C59		21
219	5	170		B	IORW	4		3360	B 343		21
220	5	180	RTR04	RT	*,*	8		3364	M C71 C71 R		22
221	5	190		DCW	EOTW1	3		3374	C79		22
222	5	200		B	MVLB05	4		3375	B C42		22
223	5	210	EOTW1	B	WRITE	4		3379	B D52		22
224	5	220	EXIT	MLC	GBAD,628	7		3383	M F26 628		22
225	5	230		MLC	701,*&4	7		3390	M 701 D00		22
226	5	240		RWD	1	5		3397	U %U1 R		22
227	5	250	TMRKXT	MLNS	445,TMR01&3	7		3402	D 445 D12		23
228	6	010	TMR01	WTM	1	5		3409	U %U1 M		23
229	6	020		BCE	EXIT1,WMSW,T	8		3414	B D33 F63 T		23
230	6	030		MLC	SWSV,X1	7		3422	M F62 089		23
231	6	040		CW	1&X1	4		3429	) 0|1		23
232	6	050	EXIT1	B	PUTX	4		3433	B 363		23
233	6	060		DCW	VEOP	3		3439	F66		23
234	6	070		B	SUPER	4		3440	B 351		24
235	6	080		DCW	@I10@	3		3446			24
236	6	090	EOTW	H		1		3447	.		24
237	6	100		B	*-4	4		3448	B D47		24
238	6	110	WRITE	SBR	WRT02&3	4		3452	H D74		24
239	6	120		B	IORW	4		3456	B 343		24
240	6	130	WRT01	WT	*,*	8		3460	M D67 D67 W		24
241	6	140		DCW	EOTW	3		3470	D47		25
242	6	150	WRT02	B	*	4		3471	B D74		25
243	6	160	SWRTN	SBR	SWRT02&3	4		3475	H E42		25
244	6	170		BCE	SWRT01,WMSW,T	8		3479	B D91 F63 T		25
245	6	180		CW	1&X1	4		3487	) 0|1		25
246	6	190	SWRT01	C	GIAD,GX	7		3491	C F29 F56		25
247	6	200		BU	SWRT03	5		3498	B E14 /		25

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
248	6	210		MLC	@T@, WMSW		7	3503	M F67 F63		26
249	6	220		B	SWRT02		4	3510	B E39		26
250	6	230	SWRT03	MLC	@F@, WMSW		7	3514	M F74 F63		26
251	6	240		MLC	GX, X1		7	3521	M F56 089		26
252	6	250		MLC	GX, SWSV		7	3528	M F56 F62		26
253	7	010		SW	1&X1		4	3535	, 0|1		26
254	7	020	SWRT02	B	*		4	3539	B E42		27
255	7	030	SETMVS	SBR	SETMV1&3		4	3543	H F17		27
256	7	040		MLZS	RZNSV, GX		7	3547	Y F44 F56		27
257	7	050		MLZS			1	3554	Y		27
258	7	060		MLZS			1	3555	Y		27
259	7	070		MLC	GBAD, X2		7	3556	M F26 094		27
260	7	080		MLC	PBAD, X3		7	3563	M F20 099		27
261	7	090		MLC	GX, MVLB05&3		7	3570	M F56 C45		28
262	7	100		MLZS	@ @, PX		7	3577	Y F68 F59		28
263	7	110		S	PL, PX		7	3584	S F53 F59		28
264	7	120		A	GL, PX		7	3591	A F50 F59		28
265	7	130		MLZS	RZNSV, PX		7	3598	Y F44 F59		28
266	7	140		MLZS			1	3605	Y		28
267	7	150		MLZS			1	3606	Y		28
268	7	160		MLC	PX, MVLB06&6		7	3607	M F59 C59		29
269	7	170	SETMV1	B	*		4	3614	B F17		29
270	7	180	PBAD	DCW	#3		3	3620			29
271	7	190	PIAD	DCW	#3		3	3623			29
272	7	200	GBAD	DCW	#3		3	3626			29
273	7	210	GIAD	DCW	#3		3	3629			29
274	7	220	GETA	DCW	#3		3	3632			29
275	7	230	PUTA	DCW	#3		3	3635			30
276	7	240	READAD	DCW	#6		6	3641			30
277	7	250		DCW	#1		1	3642			30
278	8	010		DCW	#1		1	3643			30
279	8	020	RZNSV	DCW	#1		1	3644			30
280	8	030	ADBUCK	DCW	#3		3	3647			30
281	8	040	GL	DCW	#3		3	3650			30
282	8	050	PL	DCW	#3		3	3653			31
283	8	060	GX	DCW	#3		3	3656			31
284	8	070	PX	DCW	#3		3	3659			31
285	8	080	SWSV	DCW	#3		3	3662			31
286	8	090	WMSW	DCW	@F@		1	3663			31
287	8	100	VEOP	DCW	@.EP@		3	3666			31
288	8	110		LTORG					3667		
				DCW	@T@		1	3667		LIT	31
					@ @		1	3668		LIT	32
					&1		1	3669		LIT	32
					&3		1	3670		LIT	32
					@ @		3	3673		LIT	32
					@F@		1	3674		LIT	32
289	8	120	GMRK	DCW	@}@	GROUP MARK	1	3675			32
290	8	130		END					/ 000 080		33

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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	010	000	JOB	1401 COBOL - I10						
102	1	020		CTL	661 11						
103	1	030		ORG	1300				1300		
104	1	040	GETX	EQU	335			0335			
105	1	050	IOSBR	EQU	940			0940			
106	1	060	SCRBKT	EQU	1126			1126			
107	1	070	HEADER	EQU	1135			1135			
108	1	080	IORW	EQU	343			0343			
109	1	090	PUTX	EQU	363			0363			
110	1	100	SUPER	EQU	351			0351			
111	1	110	X1	EQU	89			0089			
112	1	120	X2	EQU	94			0094			
113	1	130	X3	EQU	99			0099			
114	1	140	DIOC	EQU	2697			2697			
115	1	150	BEGIN	EQU	332			0332			
116	1	160		B	STTA	4		1300	B ?00		4
117	1	170	S3	B	READ	4		1304	B !71		4
118	1	180	S2	B	GETSX	4		1308	B L47		4
119	1	190		C	SX,ENDSYM	7		1312	C N37 N24		4
120	1	200		BE	FINSH	5		1319	B Z42 S		4
121	1	210	MLC		@0@,SX-2	7		1324	M N66 N35		4
122	1	220	BCE		DONE,SX,.	8		1331	B W97 N37 .		4
123	1	230	MLC		SX,X2	7		1339	M N37 094		5
124	1	234	BWZ		SWLAB,SX-1,2	8		1346	V T58 N36 2		5
125	1	235		B	S2	4		1354	B T08		5
126	1	240	SWLAB	SW	DIOC&X2	4		1358	, OR7		5
127	1	250		B	S2	4		1362	B T08		5
128	2	010	COMMON	SBR	X2	4		1366	H 094		5
129	2	020		MLC	2&X2,X2	7		1370	M 0!2 094		5
130	2	030	N142	BCE	FINH1,0&X2,	8		1377	B Z22 0!0		6
131	2	040		MLC	0&X2,KEEP#3	7		1385	M 0!0 N69		6
132	2	050		BCE	COMMS,COMTYP,	8		1392	B Y93 N44		6
133	2	060		MLC	COMTYP,X2	7		1400	M N44 094		6
134	2	070	N12	MLC	@000@,X3	7		1407	M N72 099		6
135	2	080	N127	BCE	FIN,0&X2,:	8		1414	B Y71 0!0 :		7
136	2	090	N123	BCE	GOTO,0&X2,[	8		1422	B N05 0!0 [		7
137	2	100		BCE	CONT,0&X2,%	8		1430	B V49 0!0 %		7
138	2	110		BCE	NEXT7,0&X2,.	8		1438	B V93 0!0 .		7
139	2	120		BWZ	PREST,0&X2,B	8		1446	V U66 0!0 B		8
140	2	130		BWZ	NOTPRT,0&X2,S	8		1454	V V05 0!0 S		8
141	2	140		B	NEXT	4		1462	B W12		8
142	2	150	PREST	MN	0&X2,X3	7		1466	D 0!0 099		8
143	2	160		MN		1		1473	D		8
144	2	170		SAR	X2	4		1474	Q 094		8
145	2	180		BW	OK,DIOC&X3	8		1478	V V29 OI7 1		9
146	2	190		B	SKIPR	4		1486	B V61		9
147	2	200	TABK	MLC	0&X2,0&X2	7		1490	M 0!0 0!0		9

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	2	210		SBR	X2	4		1497	H 094		9
149	2	220		B	AKA	4		1501	B W74		9
150	2	230	NOTPRT	MN	0&X2 ,X3	7		1505	D 0!0 099		9
151	2	240		MN		1		1512	D		9
152	2	250		SAR	X2	4		1513	Q 094		10
153	3	010		BW	SKIPER ,DIOC&X3	8		1517	V V61 OI7 1		10
154	3	020		B	N12	4		1525	B U07		10
155	3	030	OK	BWZ	SUB ,1&X2 ,B	8		1529	V V41 0!1 B		10
156	3	040		B	N12	4		1537	B U07		10
157	3	050	SUB	SW	AAB&4	4		1541	, W66		10
158	3	060		B	N12	4		1545	B U07		10
159	3	070	CONT	CW	0&X2	4		1549	) 0!0		11
160	3	080		SAR	X2	4		1553	Q 094		11
161	3	090		B	N12	4		1557	B U07		11
162	3	100	SKIPER	BCE	CONT ,0&X2 , .	8		1561	B V49 0!0 .		11
163	3	110		BCE	TABK ,0&X2 ,#	8		1569	B U90 0!0 #		11
164	3	120		BCE	TABK ,0&X2 ,%	8		1577	B U90 0!0 %		11
165	3	130		SBR	X2	4		1585	H 094		12
166	3	140		B	SKIPER	4		1589	B V61		12
167	3	150	NEXT7	CW	0&X2	4		1593	) 0!0		12
168	3	160		SAR	X2	4		1597	Q 094		12
169	3	170		MLC	X2 ,KEEPS#3	7		1601	M 094 N75		12
170	3	180		SW	AAA&4	4		1608	, W61		12
171	3	190	NEXT	BEF	NEXTS	5		1612	B W28 K		12
172	3	200		SW	NEXT&4	4		1617	, W16		13
173	3	210		B	PUTX	4		1621	B 363		13
174	3	220		DCW	&@ .ST@	3		1627	N78		13
175	3	230	NEXTS	MLC	0&X2 ,0&X2	7		1628	M 0!0 0!0		13
176	3	240		SBR	X2	4		1635	H 094		13
177	3	250		MLC	2&X2 ,HOLD	7		1639	M 0!2 N87		13
178	4	010		MLC	@ .@	4		1646	M N79		13
179	4	020		B	PUTX	4		1650	B 363		14
180	4	030		DCW	HOLD	3		1656	N87		14
181	4	040	AAA	BEF	NEXT9	5		1657	B W82 K		14
182	4	050	AAB	BEF	NEXT1	5		1662	B X58 K		14
183	4	060	AOC	B	PUTX	4		1667	B 363		14
184	4	070		DCW	&@ .MC@	3		1673	N82		14
185	4	080	AKA	CW	AAB&4	4		1674	) W66		14
186	4	090		B	COMS	4		1678	B Z04		15
187	4	100	NEXT9	MLC	KEEPS ,X2	7		1682	M N75 094		15
188	4	110		CW	AAA&4	4		1689	) W61		15
189	4	120		B	AAB	4		1693	B W62		15
190	4	130	DONE	SBR	X2 ,BEGIN	7		1697	H 094 332		15
191	4	140	DN1	B	GETSX	4		1704	B L47		15
192	4	150		MLCWA	SX ,0&X2	7		1708	L N37 0!0		15
193	4	160		SBR	X2	4		1715	H 094		16
194	4	170		C	SX ,@ .MC@	7		1719	C N37 N82		16
195	4	180	DD1	BE	GOTO	5		1726	B N05 S		16
196	4	190	DONE1	B	GETSX	4		1731	B L47		16
197	4	200		MLC	SX ,0&X2	7		1735	M N37 0!0		16

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
198	4	210		SBR	X2		4	1742	H 094		16
199	4	220		BCE	DN1, SX, ,		8	1746	B X04 N37 ,		16
200	4	230		B	DONE1		4	1754	B X31		17
201	4	240	NEXT1	MLC	SAVE, X1		7	1758	M N40 089		17
202	4	250	NXT	SBR	X3, BEGIN-3		7	1765	H 099 329		17
203	5	010		MN	0&X1, TWO#2		7	1772	D 0|0 N84		17
204	5	020		MN			1	1779	D		17
205	5	030		SAR	X1		4	1780	Q 089		17
206	5	040		BW	A0C, 0&X1		8	1784	V W67 0|0 1		17
207	5	050		BWZ	A0C, 1&X1, 2		8	1792	V W67 0|1 2		18
208	5	060	FOUND	C	3&X3, TWO		7	1800	C 0?3 N84		18
209	5	070		BE	FOUND1		5	1807	B Y27 S		18
210	5	080		MLC	0&X3, 0&X3		7	1812	M 0?0 0?0		18
211	5	090		SBR	X3		4	1819	H 099		18
212	5	100		B	FOUND		4	1823	B Y00		18
213	5	110	FOUND1	MLC	X1, HOLD#3		7	1827	M 089 N87		19
214	5	120		B	PUTX		4	1834	B 363		19
215	5	130		DCW	@0?0@		3	1840			19
216	5	140		MLC	HOLD, X1		7	1841	M N87 089		19
217	5	150		MLC	0&X3, HOLD		7	1848	M 0?0 N87		19
218	5	160		SAR	X3		4	1855	Q 099		19
219	5	170		BCE	NXT, 0&X3, ,		8	1859	B X65 0?0 ,		20
220	5	180		B	FOUND1		4	1867	B Y27		20
221	5	190	FIN	C	READ1, @06@		7	1871	C J42 N89		20
222	5	200		BE	FIN2		5	1878	B Z15 S		20
223	5	210		BH	DIOCS		5	1883	B N01 U		20
224	5	220	AAC	BEF	FIN2		5	1888	B Z15 K		20
225	5	230	COMMS	SW	AAC&4		4	1893	, Y92		20
226	5	240		MLC	KEEP, X2		7	1897	M N69 094		21
227	5	250	COMS	MLC	X2, SAVE		7	1904	M 094 N40		21
228	6	010		B	N12		4	1911	B U07		21
229	6	020	FIN2	B	PUTX		4	1915	B 363		21
230	6	030		DCW	&@.FS@		3	1921	N92		21
231	6	040	FINH1	CS	BEGIN		4	1922	/ 332		21
232	6	050		CS			1	1926	/		21
233	6	060		CS	2780		4	1927	/ P80		22
234	6	070		CW	NEXT&4, AAC&4		7	1931	) W16 Y92		22
235	6	080		B	S2		4	1938	B T08		22
236	6	090	FINSH	BEF	FSH		5	1942	B Z75 K		22
237	6	100		MLC	@.EE@, ENDSYM		7	1947	M N95 N24		22
238	6	110		SBR	DD1&3, FINDS		7	1954	H X29 K95		22
239	6	120		MLC	@14@, CONSTX		7	1961	M N97 N21		23
240	6	130		SBR	REDD&3, TABNT		7	1968	H J57 N65		23
241	6	140	FSH	C	READ1, CONSTX		7	1975	C J42 N21		23
242	6	150		BE	FINSH1		5	1982	B !22 S		23
243	6	160		BW	FINT, SWT01		8	1987	V Z99 N41 1		23
244	6	170	FINK	B	FINSH3		4	1995	B !07		23
245	6	180	FINT	CW	SWT01		4	1999	) N41		24
246	6	190		B	S3		4	2003	B T04		24
247	6	200	FINSH3	SBR	FINK&3, FINSH1		7	2007	H Z98 !22		24

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
248	6	210		SW	FINSH&4		4	2014	, Z46		24
249	6	220		B	FINT		4	2018	B Z99		24
250	6	230	FINSH1	B	GETX		4	2022	B 335		24
251	6	240		DCW	SX		3	2028	N37		24
252	6	250		DCW	EOP		3	2031	L31		25
253	7	010		B	SUPER		4	2032	B 351		25
254	7	020		DCW	@SP2@		3	2038			25
255	7	030	SKIPS1	BEF	SKIPS		5	2039	B !51 K		25
256	7	040		B	PUTX		4	2044	B 363		25
257	7	050		DCW	SX		3	2050	N37		25
258	7	060	SKIPS	B	GETSR		4	2051	B M76		25
259	7	070		C	SX, @.FS@		7	2055	C N37 N92		26
260	7	080		BU	SKIPS		5	2062	B !51 /		26
261	7	090		B	GET		4	2067	B L51		26
262	7	100	READ	SBR	X2		4	2071	H 094		26
263	7	110	READA	BW	0&X2,SWT01		8	2075	V 0!0 N41 1		26
264	7	120	READX1	BEF	SS4K		5	2083	B J85 K		26
265	7	130		SW	SWT01		4	2088	, N41		26
266	7	131		SBR	R&6,2790		7	2092	H J38 P90		27
267	7	140	READ0	A	@1@,READ1		7	2099	A N98 J42		27
268	7	150	READS	B	IORW		4	2106	B 343		27
269	7	160		RTW	1,HEADER		8	2110	L %U1 /35 R		27
270	7	170		DCW	*		3	2120	J20		27
271	7	180		S	@2@,1299		7	2121	S N99 S99		27
272	7	190		B	IORW		4	2128	B 343		28
273	7	200	R	RTW	1,2790		8	2132	L %U1 P90 R		28
274	7	210	READ1	DCW	@T01@		3	2142			28
275	7	220		MLC	IOSBR,X1		7	2143	M 940 089		28
276	7	230		CW	0&X1		4	2150	) 0|0		28
277	7	240	REDD	SAR	TABNT		4	2154	Q N65		28
278	7	250		SAR	REDD&3		4	2158	Q J57		28
279	8	010		C	READ1,CONSTX		7	2162	C J42 N21		29
280	8	020	READ4	BE	0&X2		5	2169	B 0!0 S		29
281	8	030		MLC	IOSBR,R&6		7	2174	M 940 J38		29
282	8	040		B	READ0		4	2181	B !99		29
283	8	050	SS4K	C	READ1,@13@		7	2185	C J42 O01		29
284	8	060		BU	SS4K1		5	2192	B K15 /		29
285	8	070		SBR	N127&3,FINH1		7	2197	H U17 Z22		30
286	8	080		MLC	@N@,N142		7	2204	M 002 T77		30
287	8	090		SW	SKIPS1&4		4	2211	, !43		30
288	8	100	SS4K1	MLC	@ @,TABNT		7	2215	M 003 N65		30
289	8	110		MLC	TABNT		4	2222	M N65		30
290	8	120		B	READ0		4	2226	B !99		30
291	8	130	PRINT	B	COMMON		4	2230	B T66		30
292	8	140		DCW	&PRT		3	2236	N47		31
293	8	150	READER	B	COMMON		4	2237	B T66		31
294	8	160		DCW	&RED		3	2243	N53		31
295	8	170	PUNCH	B	COMMON		4	2244	B T66		31
296	8	180		DCW	PNH		3	2250	N50		31
297	8	190	OUT	BW	VAROUT,DIOC&39		8	2251	V K81 P36 1		31

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
298	8	200		B	COMMON		4	2259	B T66		31
299	8	210		DCW	FIXOUT		3	2265	N62		32
300	8	220	IN	BW	VARIN,DIOC&39		8	2266	V K88 P36 1		32
301	8	230		B	COMMON		4	2274	B T66		32
302	8	240		DCW	&FIXIN		3	2280	N65		32
303	8	250	VAROUT	B	COMMON		4	2281	B T66		32
304	9	010		DCW	&VARIUT		3	2287	N56		32
305	9	020	VARIN	B	COMMON		4	2288	B T66		32
306	9	030		DCW	&VARINT		3	2294	N59		33
307	9	040	FINDS	BW	READER,DIOC&50		8	2295	V K37 P47 1		33
308	9	050		BW	PUNCH,DIOC&49		8	2303	V K44 P46 1		33
309	9	060		BW	PRINT,DIOC&48		8	2311	V K30 P45 1		33
310	9	070		BW	OUT,DIOC&52		8	2319	V K51 P49 1		33
311	9	080		B	IN		4	2327	B K66		33
312	9	090	EOP	C	READ1,@14@		7	2331	C J42 N97		34
313	9	100		BE	THEND		5	2338	B N25 S		34
314	9	110		B	FINT		4	2343	B Z99		34
315	9	120	GETSX	SBR	EXIT&3		4	2347	H M60		34
316	9	130	GET	B	GETX		4	2351	B 335		34
317	9	140		DCW	SX		3	2357	N37		34
318	9	150		DCW	EOP		3	2360	L31		34
319	9	160		C	SX,@***@		7	2361	C N37 O06		35
320	9	170		BE	DIAG		5	2368	B M61 S		35
321	9	180		C	SX,@.DI@		7	2373	C N37 O09		35
322	9	190		BE	GETS		5	2380	B M50 S		35
323	9	200		C	SX,@.DT@		7	2385	C N37 O12		35
324	9	210		BE	GETS		5	2392	B M50 S		35
325	9	220		C	SX,@.EE@		7	2397	C N37 N95		36
326	9	230		BE	GETS		5	2404	B M50 S		36
327	9	240		C	SX,ST0		7	2409	C N37 N34		36
328	9	250		BE	SKIPS1		5	2416	B !39 S		36
329	10	010		C	READ1,@06@		7	2421	C J42 N89		36
330	10	020		BE	EXIT		5	2428	B M57 S		36
331	10	030		BH	EXIT		5	2433	B M57 U		37
332	10	040		C	READ1,@14@		7	2438	C J42 N97		37
333	10	050		BE	EXIT		5	2445	B M57 S		37
334	10	060	GETS	B	PUTX		4	2450	B 363		37
335	10	070		DCW	SX		3	2456	N37		37
336	10	080	EXIT	B	*		4	2457	B M60		37
337	10	090	DIAG	B	PUTX		4	2461	B 363		37
338	10	100		DCW	SX		3	2467	N37		38
339	10	110		B	GETSR		4	2468	B M76		38
340	10	120		B	GET		4	2472	B L51		38
341	10	130	GETSR	SBR	SR&3		4	2476	H N00		38
342	10	140		B	GETX		4	2480	B 335		38
343	10	150		DCW	SX		3	2486	N37		38
344	10	160		DCW	EOP		3	2489	L31		38
345	10	170		B	PUTX		4	2490	B 363		39
346	10	180		DCW	SX		3	2496	N37		39
347	10	190	SR	B	*		4	2497	B N00		39

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
348	10	200	DIOCS	B	READ		4	2501	B !71		39
349	10	210	GOTO	MLC	TABNT,X2		7	2505	M N65 094		39
350	10	220		SAR	GOTO&3		4	2512	Q N08		39
351	10	230		B	COMS		4	2516	B Z04		39
352	10	240	CONSTX	DCW	@06@		2	2521			40
353	10	250	ENDSYM	DCW	@.DT@		3	2524			40
354	11	010	THEND	B	SUPER		4	2525	B 351		40
355	11	020		DCW	@J01@		3	2531			40
356	11	030	ST0	DCW	@.ST@		3	2534			40
357	11	040	SX	DCW	#3		3	2537			40
358	11	050	SAVE	DCW	#3		3	2540			40
359	11	060	SWT01	DC	#1		1	2541			41
360	11	070	COMTYP	DCW	#3		3	2544			41
361	11	080	PRT	DCW	#3		3	2547			41
362	11	090	PNH	DC	#3		3	2550			41
363	11	100	RED	DC	#3		3	2553			41
364	11	110	VARIUT	DC	#3		3	2556			41
365	11	120	VARINT	DC	#3		3	2559			41
366	11	130	FIXOUT	DC	#3		3	2562			41
367	11	140	FIXIN	DC	#3		3	2565			41
368	11	150	TABNT	EQU	*			2565			
369	11	160		LTORG					2566		
				DCW	@0@		1	2566		LIT	41
	131	KEEP			#03		3	2569		AREA	41
					@000@		3	2572		LIT	42
	169	KEEPS			#03		3	2575		AREA	42
					@.ST@		3	2578		LIT	42
					@.@		1	2579		LIT	42
					@.MC@		3	2582		LIT	42
	203	TWO			#02		2	2584		AREA	42
	213	HOLD			#03		3	2587		AREA	42
					@06@		2	2589		LIT	43
					@.FS@		3	2592		LIT	43
					@.EE@		3	2595		LIT	43
					@14@		2	2597		LIT	43
					@1@		1	2598		LIT	43
					@2@		1	2599		LIT	43
					@13@		2	2601		LIT	43
					@N@		1	2602		LIT	44
					@ @		1	2603		LIT	44
					@***@		3	2606		LIT	44
					@.DI@		3	2609		LIT	44
					@.DT@		3	2612		LIT	44
370	11	170		ORG	3000				3000		
371	11	180	STTA	MLCWA	@28@,1299		7	3000	L ?52 S99		45
372	11	190		CS	332		4	3007	/ 332		45
373	11	200		CS			1	3011	/		45
374	11	210		CS			1	3012	/		45
375	11	220		BCE	FOURK,SCRBKT,4		8	3013	B ?33 /26 4		45
376	11	230		BCE	FOURK,SCRBKT,8		8	3021	B ?33 /26 8		45

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
377	11	240		B	S3	4		3029	B T04		45
378	11	250	FOURK	SW	READX1&4,READ4&4	7		3033	, !87 J73		46
379	12	010		SBR	N123&3,FIN	7		3040	H U25 Y71		46
380	12	020		B	S3	4		3047	B T04		46
381	12	030		LTORG					3051		
				DCW	@28@	2		3052		LIT	46
382	12	040		DCW	@}@	1		3053			46
383	12	050		END					/ 000 080		47

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	010	000	JOB	1401 COBOL - S01						
102	1	020		CTL	661 11						
103	1	030		ORG	2500				2500		
104	1	040		DCW	@[@		1	2500			4
105	1	050			@)5#2I.3A%4|3E@		13	2513			4
106	1	060			@)4#2I.3A%4|3E@		13	2526			4
107	1	070			@)3#2I.3A%4|3E@		13	2539			5
108	1	080			@)2#1Z4|2I3E@		11	2550			5
109	1	090			@)1#2I.3A%4|3E@		13	2563			5
110	1	100			@)0#4|2I3E@		9	2572			6
111	1	110			@)Z#3D4|3E@		9	2581			6
112	1	120			@)Y\$@		3	2584			6
113	1	130			@)X#3D.3U4|3E@		12	2596			6
114	1	140			@)W#3D.3U4|3E@		12	2608			7
115	1	150			@)V#3Z3E@		7	2615			7
116	1	160			@)U#3V3D@		7	2622			7
117	1	170			@)T#3E@		5	2627			7
118	1	180			@)S#2I3E@		7	2634			7
119	1	190			@)|#3D.3U3C.3T3U3B%3E@		20	2654			8
120	1	200			@)R#2I3E@		7	2661			8
121	1	210			@)Q#2I.3A%3E@		11	2672			8
122	1	220			@)P#2I.3A.2I.3A%3E@		17	2689			9
123	1	230			@)O#2I.3A%3E@		11	2700			9
124	1	240			@)N#2I.3A%3Z3E@		13	2713			10
125	1	250			@)M#2I.3A%3Z3E@		13	2726			10
126	2	010			@)L#2I.3A%3Z3E@		13	2739			10
127	2	020			@)K#2I.3A%3E@		11	2750			11
128	2	030			@)J#2I.3A%3E@		11	2761			11
129	2	040			@)!#2I.3A%3Z3E@		13	2774			11
130	2	050			@)I#2I.3A%3E@		11	2785			12
131	2	060			@)H#2I.3A%3E@		11	2796			12
132	2	070			@)G#3/3|2I3E@		11	2807			12
133	2	080			@)F#2I3E@		7	2814			13
134	2	090			@)E#2I.3A%3E@		11	2825			13
135	2	100			@)D#2I.3A%3E@		11	2836			13
136	2	110			@)C#2I.3A%3E@		11	2847			14
137	2	120			@)B#3Z3E@		7	2854			14
138	2	130			@)A#4|3E@		7	2861			14
139	2	140			@)?#3D.3U3C.3U3T3B%3E@		20	2881			15
140	2	150			@)@\$@		3	2884			15
141	2	160			@)#\$@		3	2887			15
142	2	170			@)%\$@		3	2890			15
143	2	180			@)/\$@		3	2893			15
144	2	190			@)-\$@		3	2896			15
145	2	200			@)*\$@		3	2899			15
146	2	210			@)\$@\$@		3	2902			16
147	2	220			@)&\$@		3	2905			16

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	2	230			@))\$@		3	2908			16
149	2	240			@) . \$@		3	2911			16
150	2	250			@. 9\$@		3	2914			16
151	3	010			@. 8#3C@		5	2919			16
152	3	020			@. 7#3C@		5	2924			16
153	3	030			@. 6#3C@		5	2929			17
154	3	040			@. 5#3C@		5	2934			17
155	3	050			@. 4#3C@		5	2939			17
156	3	060			@. 3#3C@		5	2944			17
157	3	070			@. 2#3C@		5	2949			17
158	3	080			@. 1#3C@		5	2954			17
159	3	090			@. 0#3C@		5	2959			17
160	3	100			@. Z#3S3U3E. 3S3D. 3B%3C@		20	2979			18
161	3	110			@. Y#3Z3E@		7	2986			18
162	3	120			@. X#3Z3E@		7	2993			18
163	3	130			@. W#3Z3E@		7	3000			19
164	3	140			@. V#3Z3E@		7	3007			19
165	3	150			@. U#3Z3E@		7	3014			19
166	3	160			@. T#0/3Z3E@		9	3023			19
167	3	170			@. S#3Z3E@		7	3030			19
168	3	180			@. |#3U3T3B4?. 3U3C4?. 3D4?. 3T3S3D3Z4 | . 3S3C3Z4 | . 3B3Z4 |@		50	3080			21
169	3	190	DC		@%3E@		3	3083			21
170	3	200	DCW		@. R#3D. 3U3B@		10	3093			21
171	3	210			@. Q#3S3U3E. 3S3D. 3B%3C@		20	3113			22
172	3	220			@. P#3U3T3B4?. 3U3C4?. 3D4?. 3T3S3D3Z4 | . 3S3C3Z4 | . 3B3Z4 |@		50	3163			24
173	3	230	DC		@%3E@		3	3166			24
174	3	240	DCW		@. O#3U3T3S3I3E@		13	3179			24
175	3	250			@. N#3U3T3S3Z. 3T3S3D. 3S3C. 3B%4 | 3E@		31	3210			25
176	4	010			@. M\$@		3	3213			25
177	4	020			@. L\$@		3	3216			25
178	4	030			@. K\$@		3	3219			26
179	4	040			@. J\$@		3	3222			26
180	4	050			@. ! \$@		3	3225			26
181	4	060			@. I#4 | 3E@		7	3232			26
182	4	070			@. H#3U3T3S3I. 3U3T3S3Z4 | . 3T3S3D4 | . 3S3C4 | . 3B4 | %3E@		46	3278			28
183	4	080			@. G\$@		3	3281			28
184	4	090			@. F\$@		3	3284			28
185	4	100			@. E\$@		3	3287			28
186	4	110			@. D\$@		3	3290			28
187	4	120			@. C#0/@		5	3295			29
188	4	130			@. B\$@		3	3298			29
189	4	140			@. A\$@		3	3301			29
190	4	150			@. ? \$@		3	3304			29
191	4	160			@. @ \$@		3	3307			29
192	4	170			@. ##CG@		5	3312			29
193	4	180			@. %#3X@		5	3317			29
194	4	190			@. / \$@		3	3320			30
195	4	200			@. - \$@		3	3323			30
196	4	210			@. * \$@		3	3326			30
197	4	220			@. \$ \$@		3	3329			30

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
198	4	230			@.&\$@		3	3332			30
199	4	240			@.)\$@		3	3335			30
200	4	250			@..\$@		3	3338			30
201	5	010		DCW	@}\$@		1	3339			31
202	5	020		END					/ 000 080		32

CLEAR STORAGE 1 ,008015,022026,030037,044,049,053053N000000N00001026 1
 CLEAR STORAGE 2 L068116,105106,110117B101/I9I#071029C029056B026/B001/0991,001/001117I0? 2
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1401 COBOL - S02 PAGE 1

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
101	1	010	000	JOB	1401 COBOL - S02						
102	1	020		CTL	661 11						
103	1	030		ORG	2500				2500		
104	1	040		DCW	@[@		1	2500			4
105	1	050			@\$J#2I.3A%3Z3E@		13	2513			4
106	1	060			@\$!#2I.3A%3Z3E@		13	2526			4
107	1	070			@\$I#2I.3A%3Z3E@		13	2539			5
108	1	080			@\$H#2I3Z3E@		9	2548			5
109	1	090			@\$G#2I.3A%4|3Z3E@		15	2563			5
110	1	100			@\$F#2H.2Y2G%4|3E@		15	2578			6
111	1	110			@\$E#2Y2G.2H%4|3E@		15	2593			6
112	1	120			@\$D#2Y2G.2H%4|3E@		15	2608			7
113	1	130			@\$C#2Y2G.2H%4|3E@		15	2623			7
114	1	140			@\$B#2H.2Y2G%4|3E@		15	2638			8
115	1	150			@\$A#2H.2Y2G%4|3E@		15	2653			8
116	1	160			@\$?#2H.2Y2G%4|3E@		15	2668			9
117	1	170			@\$@#2H.2Y2G%4|3E@		15	2683			9
118	1	180			@\$##2H.2Y2G%4|3E@		15	2698			10
119	1	190			@\$%#2H.2Y2G%4|3E@		15	2713			10
120	1	200			@\$/#2H.2Y2G%4|3E@		15	2728			11
121	1	210			@\$-#2H.2Y2G%4|3E@		15	2743			11
122	1	220			@\$*#3A.2I%4|3E@		13	2756			12
123	1	230			@\$\$#2H3A.2Y2G3A.2I%4|3E@		22	2778			12
124	1	240			@\$H4 3E@		9	2787			13
125	1	250			@\$)#2H4|3E@		9	2796			13
126	2	010			@\$.#2H4|3E@		9	2805			13
127	2	020			@&9#2H4|3E@		9	2814			13
128	2	030			@&8#2H4|3E@		9	2823			14
129	2	040			@&7#2H4|3E@		9	2832			14
130	2	050			@&6#2H4|3E@		9	2841			14
131	2	060			@&5#2H4|3E@		9	2850			14
132	2	070			@&4#2H4|3E@		9	2859			15
133	2	080			@&3#2H.2Y2G%4|3E@		15	2874			15
134	2	090			@&2#2H.2Y2G%4|3E@		15	2889			15
135	2	100			@&1#2H.2Y2G%4|3E@		15	2904			16
136	2	110			@&0#4|2I3E@		9	2913			16
137	2	120			@&Z#2I.3A%4|3Z3E@		15	2928			16
138	2	1 30			@&Y#2I3E@		7	2935			17
139	2	140			@&X#2I.3A%4?3E@		13	2948			17
140	2	150			@&W#2I.3A%4?3E@		13	2961			17
141	2	160			@&V#2I.3A%4?3E@		13	2974			18
142	2	170			@&U#2I.3A%4?3E@		13	2987			18
143	2	180			@&T#2I.3A%4?3E@		13	3000			18
144	2	190			@&S#2I.3A%4|3E@		13	3013			19
145	2	200			@&|#2I.3A%4|3E@		13	3026			19
146	2	210			@&R#2I.3A%4|3E@		13	3039			19
147	2	220			@&Q#2I3E@		7	3046			20

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	2	230			@&P#3/3|2Z3E@		11	3057			20
149	2	240			@&O#2I3E@		7	3064			20
150	2	250			@&N#3E@		5	3069			20
151	3	010			@&M#2I.3A%3Z3E@		13	3082			21
152	3	020			@&L#1C.1B%3E@		11	3093			21
153	3	030			@&K#3E@		5	3098			21
154	3	040			@&J#3E@		5	3103			21
155	3	050			@&!#1C.1B%3E@		11	3114			22
156	3	060			@&I#3D.3U3C.3U3T3B%3E@		20	3134			22
157	3	070			@&H#3E@		5	3139			22
158	3	080			@&G#2E3E@		7	3146			23
159	3	090			@&F#2E3E@		7	3153			23
160	3	100			@&E#2E3E@		7	3160			23
161	3	110			@&D#2V3E@		7	3167			23
162	3	120			@&C#2E3E@		7	3174			23
163	3	130			@&B#3A.2I%3E@		11	3185			24
164	3	140			@&A#3E@		5	3190			24
165	3	150			@&?#1C.1B%3E@		11	3201			24
166	3	160			@&@#1B3E@		7	3208			24
167	3	170			@&##1B3E@		7	3215			25
168	3	180			@&%#1B3E@		7	3222			25
169	3	190			@&/#3E@		5	3227			25
170	3	200			@&-#3E@		5	3232			25
171	3	210			@&*#1B3E@		7	3239			25
172	3	220			@&\$#1C.1B%3E@		11	3250			26
173	3	230			@&E@		5	3255			26
174	3	240			@&)#3D.3U4|3E@		12	3267			26
175	3	250			@&.#2I.3A%4|3E@		13	3280			27
176	4	010			@)9#2I.3A%4|3E@		13	3293			27
177	4	020			@)8#2G.2X2H%4|3E@		15	3308			28
178	4	030			@)7#2G.2X2H%4 3E@		15	3323			28
179	4	040			@)6#2I.3A%4 3E@		13	3336			29
180	4	050		DCW	@} @		1	3337			29
181	4	060		END					/ 000 080		30


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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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1401 COBOL - S03 PAGE 1

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
101	1	010	000	JOB	1401 COBOL - S03						
102	1	020		CTL	661 11						
103	1	030		ORG	2500				2500		
104	1	040		DCW	@[@		1	2500			4
105	1	050			@*Z#2I.3A%4?3E@		13	2513			4
106	1	060			@*Y#2I.3A%4?3E@		13	2526			4
107	1	070			@*X#2I.3A%4?3E@		13	2539			5
108	1	080			@*W#3A.2I%3Z3E@		13	2552			5
109	1	090			@*V#3A.2I%3Z3E@		13	2565			5
110	1	100			@*U#3A.2I%3Z3E@		13	2578			6
111	1	110			@*T#2I3Z3E@		9	2587			6
112	1	120			@*S#3A.2I%3Z3E@		13	2600			6
113	1	130			@*|#2I.3A%3Z3E@		13	2613			7
114	1	140			@*R#3A.2I%3Z3E@		13	2626			7
115	1	150			@*Q#3A.2I%3Z3E@		13	2639			7
116	1	160			@*P#3A.2I%3Z3E@		13	2652			8
117	1	170			@*O#3A.2I%3Z3E@		13	2665			8
118	1	180			@*N#3A.2I%3Z3E@		13	2678			8
119	1	190			@*M#3A.2I%3Z3E@		13	2691			9
120	1	200			@*L#3A.2I%0V0U3Z3E@		17	2708			9
121	1	210			@*K#3A.2I%0V0U3Z3E@		17	2725			10
122	1	220			@*J#2I.3A%3Z3E@		13	2738			10
123	1	230			@*!#2I3Z3E@		9	2747			10
124	1	240			@*I#3/3|2Z3Z3E@		13	2760			11
125	1	250			@*H#2I3Z3E@		9	2769			11
126	2	010			@*G#3Z3E@		7	2776			11
127	2	020			@*F#3Z3E@		7	2783			11
128	2	030			@*E#3Z3E@		7	2790			12
129	2	040			@*D#2I.3A%3Z3E@		13	2803			12
130	2	050			@*C#2I.3A%3Z3E@		13	2816			12
131	2	060			@*B#2I.3A%3Z3E@		13	2829			13
132	2	070			@*A#3A.2I%3Z3E@		13	2842			13
133	2	080			@*?#2I3Z3E@		9	2851			13
134	2	090			@*@#2I.3A%3Z3E@		13	2864			14
135	2	100			@*##3A.2I%3Z3E@		13	2877			14
136	2	110			@*%#2I.3A%3Z3E@		13	2890			14
137	2	120			@*/#2I.3A%3Z3E@		13	2903			15
138	2	130			@*-#2I.3A%3Z3E@		13	2916			15
139	2	140			@**#2I.3A%3Z3E@		13	2929			15
140	2	150			@*\$#2I.3A%3Z3E@		13	2942			16
141	2	160			@*I.3A%3Z3E@		13	2955			16
142	2	170			@*)#2I.3A%3Z3E@		13	2968			16
143	2	180			@*.#2I.3A%3Z3E@		13	2981			17
144	2	190			@\$9#2I.3A%3Z3E@		13	2994			17
145	2	200			@\$8#2I.3A%3Z3E@		13	3007			17
146	2	210			@\$7#2I.3A%3Z3E@		13	3020			18
147	2	220			@\$6#2I.3A%3Z3E@		13	3033			18

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	2	230			@\$5#2I.3A%3Z3E@		13	3046			18
149	2	240			@\$4#2I.3A%3Z3E@		13	3059			19
150	2	250			@\$3#2I.3A%3Z3E@		13	3072			19
151	3	010			@\$2#2I.3A%3Z3E@		13	3085			19
152	3	020			@\$1#2I.3A%3Z3E@		13	3098			20
153	3	030			@\$0#2I.3A%3Z3E@		13	3111			20
154	3	040			@\$Z#2I.3A%3Z3E@		13	3124			20
155	3	050			@\$Y#2I.3A%3Z3E@		13	3137			21
156	3	060			@\$X#3A.2I%3Z3E@		13	3150			21
157	3	070			@\$W#2I.3A%3Z3E@		13	3163			21
158	3	080			@\$V#2I.3A%3Z3E@		13	3176			22
159	3	090			@\$U#2I.3A%3Z3E@		13	3189			22
160	3	100			@\$T#2I.3A%3Z3E@		13	3202			22
161	3	110			@\$S#2I.3A%3Z3E@		13	3215			23
162	3	120			@\$|#2I.3A%3Z3E@		13	3228			23
163	3	130			@\$R#2I.3A%3Z3E@		13	3241			23
164	3	140			@\$Q#2I.3A%3Z3E@		13	3254			24
165	3	150			@\$P#2I.3A.2I.3A%3Z3E@		19	3273			24
166	3	160			@\$O#2I.3A%3Z3E@		13	3286			25
167	3	170			@\$N#2I.3A%3Z3E@		13	3299			25
168	3	180			@\$M#2I.3A%3Z3E@		13	3312			25
169	3	190			@\$L#2I.3A%3Z3E@		13	3325			26
170	3	200			@\$K#2I.3A%3Z3E@		13	3338			26
171	3	210		DCW	@}@"		1	3339			26
172	3	220		END					/ 000 080		27

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

1401 COBOL - S04

PAGE 1

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
101	1	010	000	JOB	1401 COBOL - S04						
102	1	020		CTL	661 11						
103	1	030		ORG	2500				2500		
104	1	040		DCW	@[@		1	2500			4
105	1	050			@/R#1F@		5	2505			4
106	1	060			@/Q#1F@		5	2510			4
107	1	070			@/P#1F@		5	2515			4
108	1	080			@/O#1F@		5	2520			4
109	1	090			@/N#1F@		5	2525			4
110	1	100			@/M#1F@		5	2530			4
111	1	110			@/L#1F@		5	2535			5
112	1	120			@/K#1F@		5	2540			5
113	1	130			@/J#1F@		5	2545			5
114	1	140			@/!#1F@		5	2550			5
115	1	150			@/I#3V3T3D3B.3V3S3D3C.3V3C3B.3E@	30		2580			6
116	1	160			@/H#3E@		5	2585			6
117	1	170			@/G#2E3E@		7	2592			7
118	1	180			@/F#3D.4|3U3E@		12	2604			7
119	1	190			@/E#1C.1B%3E@		11	2615			7
120	1	200			@/D#3E@		5	2620			7
121	1	210			@/C#3A.2I%3Z3E@		13	2633			8
122	1	220			@/B#3A.2I%3Z3E@		13	2646			8
123	1	230			@/A#2I.3A%3E@		11	2657			8
124	1	240			@/?\$@		3	2660			9
125	1	250			@/@\$@		3	2663			9
126	2	010			@/##2I.3A%3E@		11	2674			9
127	2	020			@/%#2I.3A%3E@		11	2685			9
128	2	030			@/#2I.3A%3E@		11	2696			9
129	2	040			@/-#2I3Z.3A3Z.2H3I%3E@		20	2716			10
130	2	050			@/*#3A.2I%3E@		11	2727			10
131	2	060			@/\$#2H4|3E@		9	2736			11
132	2	070			@/I.3A%3E@		11	2747			11
133	2	080			@/)#2I.3A%3E@		11	2758			11
134	2	090			@/.#2I.3A%3E@		11	2769			12
135	2	100			@-9#2I.3A%0/3E@		13	2782			12
136	2	110			@-8#2I.3A%3E@		11	2793			12
137	2	120			@-7#2I.3A%3E@		11	2804			13
138	2	130			@-6#2I.3A%3E@		11	2815			13
139	2	140			@-5#3A.2I%3E@		11	2826			13
140	2	150			@-4#2I.3A%3E@		11	2837			14
141	2	160			@-3#2I.3A%4|3E@		13	2850			14
142	2	170			@-2#2I.3A%4|3E@		13	2863			14
143	2	180			@-1#2I.3A%4|3E@		13	2876			15
144	2	190			@-0#2I.3A%3E@		11	2887			15
145	2	200			@-Z#2I.3A%3E@		11	2898			15
146	2	210			@-Y#2I.3A%3E@		11	2909			16
147	2	220			@-X#2I.3A%3E@		11	2920			16

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	2	230			@-W#2I.3A%3E@		11	2931			16
149	2	240			@-V#2I.3A%3E@		11	2942			17
150	2	250			@-U\$@		3	2945			17
151	3	010			@-T#3E@		5	2950			17
152	3	020			@-S#3E@		5	2955			17
153	3	030			@-|#3E@		5	2960			17
154	3	040			@-R\$@		3	2963			17
155	3	050			@-Q\$@		3	2966			17
156	3	060			@-P\$@		3	2969			18
157	3	070			@-O\$@		3	2972			18
158	3	080			@-N\$@		3	2975			18
159	3	090			@-M\$@		3	2978			18
160	3	100			@-L\$@		3	2981			18
161	3	110			@-K\$@		3	2984			18
162	3	120			@-J\$@		3	2987			18
163	3	130			@-!\$@		3	2990			19
164	3	140			@-I\$@		3	2993			19
165	3	150			@-H\$@		3	2996			19
166	3	160			@-G#3D.3U3C.3U3T3B%3E@		20	3016			19
167	3	170			@-F#3A.2I%3E@		11	3027			20
168	3	180			@-E#2I3E@		7	3034			20
169	3	190			@-D#2I.3A%3E@		11	3045			20
170	3	200			@-C#2I.3A%3E@		11	3056			21
171	3	210			@-B#2I.3A%3E@		11	3067			21
172	3	220			@-A#2I3E@		7	3074			21
173	3	230			@-?#2I3E@		7	3081			21
174	3	240			@-@#3A.2I%3E@		11	3092			22
175	3	250			@-##3D.3U3C.3U3T3B%3E@		20	3112			22
176	4	010			@-#3A.2I%3E@		11	3123			23
177	4	020			@-/#3D.3U3E@		10	3133			23
178	4	030			@--#2I.3A%3Z3E@		13	3146			23
179	4	040			@-*#2I.3A%3Z3E@		13	3159			24
180	4	050			@-\$#2I.3A%3Z3E@		13	3172			24
181	4	060			@-I.3A%3Z3E@		13	3185			24
182	4	070			@-)#2I.3A%3Z3E@		13	3198			25
183	4	080			@-.#2I.3A%3Z3E@		13	3211			25
184	4	090			@*9#2I.3A%3Z3E@		13	3224			25
185	4	100			@*8#3A.2I%3Z3E@		13	3237			26
186	4	110			@*7#2I.3A%3Z3E@		13	3250			26
187	4	120			@*6#2I.3A%3Z3E@		13	3263			26
188	4	130			@*5#2I.3A%3Z3E@		13	3276			27
189	4	140			@*4#2I.3A%3Z3E@		13	3289			27
190	4	150			@*3#2I.3A%4?3E@		13	3302			27
191	4	160			@*2#2I.3A%4?3E@		13	3315			28
192	4	170			@*1#2I.3A%4?3E@		13	3328			28
193	4	180			@*0#2I.3A%4?3E@		13	3341			28
194	4	190		DCW	@} @		1	3342			29
195	4	200		END					/ 000 080		30

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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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1401 COBOL - S05 PAGE 1

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
101	1	010	000	JOB	1401 COBOL - S05						
102	1	020		CTL	661 11						
103	1	030		ORG	2500				2500		
104	1	040		DCW	@: @		1	2500			4
105	1	050			@#6#0H3E4 | @		9	2509			4
106	1	060			@#5#3E@		5	2514			4
107	1	070			@#4#3E3Z@		7	2521			4
108	1	080			@#3#3E3Z@		7	2528			4
109	1	090			@#2#3E3Z@		7	2535			4
110	1	100			@#1#3E3Z@		7	2542			5
111	1	110			@#0#3E3Z@		7	2549			5
112	1	120			@#Z#3E3Z@		7	2556			5
113	1	130			@#Y#3E@		5	2561			5
114	1	140			@#X#3E3Z@		7	2568			5
115	1	150			@#W#3E3Z@		7	2575			6
116	1	160			@#V#3E3Z@		7	2582			6
117	1	170			@#U#3E3Z@		7	2589			6
118	1	180			@#T#3E3Z@		7	2596			6
119	1	190			@#S#3E3Z@		7	2603			6
120	1	200			@# | #3E4 | @		7	2610			7
121	1	210			@#R#3E4 | @		7	2617			7
122	1	220			@#Q#3E4 @		7	2624			7
123	1	230			@#P#3E4 | @		7	2631			7
124	1	240			@#O#1?3E4 | @		9	2640			7
125	1	250			@#N#1?3E4 | @		9	2649			8
126	2	010			@#M#1?3E4 | @		9	2658			8
127	2	020			@#L#1?3E4 | @		9	2667			8
128	2	030			@#K#1?3E4 | @		9	2676			8
129	2	040			@#J#1?3E4 | @		9	2685			9
130	2	050			@#!#1?3E4 | @		9	2694			9
131	2	060			@#I#1?3E4 | @		9	2703			9
132	2	070			@#H#0Z1 | 3E4 | @		11	2714			9
133	2	080			@#G#0Y3E4 | @		9	2723			10
134	2	090			@#F#3E3Z@		7	2730			10
135	2	100			@#E#3E3Z@		7	2737			10
136	2	110			@#D#3E3Z@		7	2744			10
137	2	120			@#C#3E3Z@		7	2751			10
138	2	130			@#B#3E3Z@		7	2758			11
139	2	140			@#A#3E3Z@		7	2765			11
140	2	150			@#?#3Z3E@		7	2772			11
141	2	160			@#@#3E4 | @		7	2779			11
142	2	170			@###3E4 | @		7	2786			11
143	2	180			@#%#3E4 | @		7	2793			12
144	2	190			@#/#0/3E4 | @		9	2802			12
145	2	200			@#-#3E3Z4 | @		9	2811			12
146	2	210			@#*#3E3Z4 | @		9	2820			12
147	2	220			@#\$#3E3Z4 | @		9	2829			13

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	2	230			@#E@		5	2834			13
149	2	240			@#)#3E3Z4?@		9	2843			13
150	2	250			@#. #3E3Z4?@		9	2852			13
151	3	010			@%9#3E3I4|@		9	2861			14
152	3	020			@%8#3E3I4 @		9	2870			14
153	3	030			@%7#3E3Z4 @		9	2879			14
154	3	040			@%6#3E3Z4 @		9	2888			14
155	3	050			@%5#3E3Z4|@		9	2897			15
156	3	060			@%4#3E@		5	2902			15
157	3	070			@%3#3E3Z@		7	2909			15
158	3	080			@%2#4|3Z3E@		9	2918			15
159	3	090			@%1#0Y3E@		7	2925			15
160	3	100			@%0#0Y3E@		7	2932			16
161	3	110			@%Z#3I.3Z%0Y3E4|@		15	2947			16
162	3	120			@%Y#3E@		5	2952			16
163	3	130			@%X#0/3E@		7	2959			16
164	3	140			@%W#3E@		5	2964			16
165	3	150			@%V#3E@		5	2969			17
166	3	160			@%U#3E@		5	2974			17
167	3	170			@%T#0Z0Y1?3E4|@		13	2987			17
168	3	180			@%S#3E3Z@		7	2994			17
169	3	190			@%|#3I4|.4?%3E@		13	3007			18
170	3	200			@%R#3E3Z4|@		9	3016			18
171	3	210			@%Q#3E4 @		7	3023			18
172	3	220			@%P#3E4|@		7	3030			18
173	3	230			@%O#3E4 @		7	3037			19
174	3	240			@%N#3E3Z4|@		9	3046			19
175	3	250			@%M#0/3E4|@		9	3055			19
176	4	010			@%L#3E4|@		7	3062			19
177	4	020			@%K#3E@		5	3067			19
178	4	030			@%J#0/3Z3E@		9	3076			20
179	4	040			@%I#0/3E@		7	3083			20
180	4	050			@%I#0/0Z3E4|@		11	3094			20
181	4	060			@%H#0/3E4|@		9	3103			20
182	4	070			@%G#0/4|3E@		9	3112			21
183	4	080			@%F#0/4|3E@		9	3121			21
184	4	090			@%E#3Z0/3E@		9	3130			21
185	4	100			@%D#0/3E@		7	3137			21
186	4	110			@%C#0/3E@		7	3144			22
187	4	120			@%B#0/3E@		7	3151			22
188	4	130			@%A#0/3E@		7	3158			22
189	4	140			@%?#0/3E@		7	3165			22
190	4	150			@%@#0/0B3E@		9	3174			22
191	4	160			@%##0/0B3E@		9	3183			23
192	4	170			@%##3E@		5	3188			23
193	4	180			@%/#3U0B@		7	3195			23
194	4	190			@%-#3U0B@		7	3202			23
195	4	200			@%*#3T0B@		7	3209			23
196	4	210			@%\$#3T0B@		7	3216			24
197	4	220			@%F@		5	3221			24

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
198	4	230			@%)#1F@		5	3226			24
199	4	240			@% .#1F@		5	3231			24
200	4	250			@/9#1F@		5	3236			24
201	5	010			@/8#1F@		5	3241			24
202	5	020			@/7#1F@		5	3246			24
203	5	030			@/6#1F@		5	3251			25
204	5	040			@/5#1F@		5	3256			25
205	5	050			@/4#1F@		5	3261			25
206	5	060			@/3#1F@		5	3266			25
207	5	070			@/2#1F@		5	3271			25
208	5	080			@/1#1F@		5	3276			25
209	5	090			@/0#1F@		5	3281			25
210	5	100			@/Z#1F@		5	3286			26
211	5	110			@/Y#1F@		5	3291			26
212	5	120			@/X#1F@		5	3296			26
213	5	130			@/W#1F@		5	3301			26
214	5	140			@/V#1F@		5	3306			26
215	5	150			@/U#1F@		5	3311			26
216	5	160			@/T#1F@		5	3316			26
217	5	170			@/S#1F@		5	3321			27
218	5	180			@/ #1F@		5	3326			27
219	5	190		DCW	@}@		1	3327			27
220	5	200		END					/ 000 080		28

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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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1401 COBOL - T02 PAGE 1

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
101	1	010	000	JOB	1401 COBOL - T02						
102	1	020		CTL	661 11						
103	1	030		ORG	2500				2500		
104	1	040		DCW	@: @		1	2500			4
105	1	050			@.0#0/5C5A3Z@		11	2511			4
106	1	060			@.Z#0/4B5C5A3Z@		13	2524			4
107	1	070			@.Y#0/5C5A3Z@		11	2535			4
108	1	080			@.X#0/5C5A3Z@		11	2546			5
109	1	090			@.W#0/5C5A3Z@		11	2557			5
110	1	100			@.V#0/5C5A3ZED@		13	2570			5
111	1	110			@.U#0/5C5A3Z@		11	2581			6
112	1	120			@.T#0/5C5A3ZCD@		13	2594			6
113	1	130			@.S#0/5C5A3Z@		11	2605			6
114	1	140			@.|#0/5C5A3Z@		11	2616			7
115	1	150			@.R#4S.4B3S%0/5C5A3Z@		19	2635			7
116	1	160			@.Q#0/5C5A3Z@		11	2646			8
117	1	170			@.P#0/4X5C5A3ZCDDE@		17	2663			8
118	1	180			@.O#0/5C5A3Z@		11	2674			8
119	1	190			@.N#0/5C5A3Z@		11	2685			9
120	1	200			@.M#0/5C5A3Z@		11	2696			9
121	1	210			@.L#0/4B3S5C5A3Z@		15	2711			9
122	1	220			@.K#0/4S5C5A3Z@		13	2724			10
123	1	230			@.J#0/4B5C5A3Z@		13	2737			10
124	1	240			@.!#0/4S5C5A3Z@		13	2750			10
125	1	250			@.I#0/4S5C5A3Z@		13	2763			11
126	2	010			@.H#0/4S5C5A3Z@		13	2776			11
127	2	020			@.G#0/5C5A3ZED@		13	2789			11
128	2	030			@.F#3S0/4B5C5A3Z@		15	2804			12
129	2	040			@.E#0/5C5A3Z@		11	2815			12
130	2	050			@.D#0/5C5A3Z@		11	2826			12
131	2	060			@.C#0/4C5C5A3ZED@		15	2841			13
132	2	070			@.B#0/5C5A3Z@		11	2852			13
133	2	080			@.A#0/4B5C5A3Z@		13	2865			13
134	2	090			@.?#0/3S4B5C5A3ZCF@		17	2882			14
135	2	100			@.@#0/4B5C5A3Z@		13	2895			14
136	2	110			@.##0/3S4B5C5A3ZCF@		17	2912			15
137	2	120			@.%#0/5C5A3Z@		11	2923			15
138	2	130			@./#4S.4B3S%0/5C5A3Z@		19	2942			16
139	2	140			@.-#0/3T4S5C5A3ZCD@		17	2959			16
140	2	150			@.*#0/3T4S5C5A3Z@		15	2974			17
141	2	160			@.\$#0/4S5C5A3ZCCCD@		17	2991			17
142	2	170			@.�/4S5C5A3Z@		13	3004			18
143	2	180			@.[#0/4B3S3T5C5A3ZCH@		19	3023			18
144	2	190			@.)#0/4B3S3T5C5A3ZCD@		19	3042			19
145	2	200			@.#0/4B3S3T5C5A3Z@		17	3059			19
146	2	210			@.#0/4S5C5A3Z@		13	3072			20
147	2	220			@.9#0/3C4B3S5C5A3ZCH@		19	3091			20

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	2	230			@ 8#0/4B3S5C5A3ZCCCD@		19	3110			21
149	2	240			@ 7#0/4B3S5C5A3ZCD@		17	3127			21
150	2	250			@ 6#0/4B3S5C5A3Z@		15	3142			22
151	3	010			@ 5#0/3S3T5C5A3Z@		15	3157			22
152	3	020			@ 4#0/3S3T5C5A3Z@		15	3172			23
153	3	030			@ 3#0/3S3T5C5A3Z@		15	3187			23
154	3	040			@ 2#0/3S3T5W5C5A3Z@		17	3204			24
155	3	050			@ 1#0/3S3T5F5C5A3Z@		17	3221			24
156	3	060			@ 0#0/5F5C5A3ZED@		15	3236			25
157	3	070			@ Z#5W3S3T.5F%0/5C5A3Z@		21	3257			25
158	3	080			@ Y#5W3S3T.5F%0/5C5A3Z@		21	3278			26
159	3	090			@ X#5W3S3T.5F%0/5C5A3Z@		21	3299			27
160	3	100			@ W#4S.4B3S%0/5C5A3Z@		19	3318			28
161	3	110		DCW	@}@		1	3319			28
162	3	120		END					/ 000 080		29

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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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1401 COBOL - T03 PAGE 1

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
101	1	010	000	JOB	1401 COBOL - T03						
102	1	020		CTL	661 11						
103	1	030		ORG	2500				2500		
104	1	040		DCW	@: @		1	2500			4
105	1	050			@[-#0/4B5B5A3Z@		13	2513			4
106	1	060			@[*#0/4B5B5A3Z@		13	2526			4
107	1	070			@[\$#0/4B5B5A3Z@		13	2539			5
108	1	080			@[#0/4B5B5A3ZCC@		15	2554			5
109	1	090			@[[#0/3T3S4B5B5A3Z@		17	2571			6
110	1	100			@[]#0/3S4B5B5A3Z@		15	2586			6
111	1	110			@[.#0/3S4B5B5A3ZED@		17	2603			7
112	1	120			@[#0/3S4B5B5A3Z@		15	2618			7
113	1	130			@)9#0/3C4B5B5A3ZCHED@		19	2637			8
114	1	140			@)8#0/3T3S4B5B5A3ZCHED@		21	2658			9
115	1	150			@)7#0/3T4B5B5A3Z@		15	2673			9
116	1	160			@)6#0/3T3S4B5B5A3Z@		17	2690			10
117	1	170			@)5#0/3T3S4B5B5A3Z@		17	2707			10
118	1	180			@)4#0/3T3S4B5B5A3Z@		17	2724			11
119	1	190			@)3#0/3T3S4B5B5A3ZCD@		19	2743			11
120	1	200			@)2#0/4B5B5A3ZCC@		15	2758			12
121	1	210			@)1#0/3S4B5B5A3Z@		15	2773			12
122	1	220			@)0#0/4B5B5A3Z@		13	2786			13
123	1	230			@)Z#0/4B5B5A3Z@		13	2799			13
124	1	240			@)Y#0/4S5B5A3Z@		13	2812			13
125	1	250			@)X#0/5B5A3Z@		11	2823			14
126	2	010			@)W#0/5B5A3Z@		11	2834			14
127	2	020			@)V#0/5B5A3Z@		11	2845			14
128	2	030			@)U#0/5B5A3ZED@		13	2858			15
129	2	040			@)T#0/5B5A3Z@		11	2869			15
130	2	050			@)S#0/5B5A3Z@		11	2880			15
131	2	060			@)|#0/5B5A3Z@		11	2891			16
132	2	070			@)R#3T4S.4B3S%0/5B5A3Z@		21	2912			16
133	2	080			@)Q#0/5B5A3Z@		11	2923			17
134	2	090			@)P#0/4X5B5A3ZCDDE@		17	2940			17
135	2	100			@)O#0/5B5A3Z@		11	2951			17
136	2	110			@)N#0/5B5A3Z@		11	2962			18
137	2	120			@)M#0/5B5A3Z@		11	2973			18
138	2	130			@)L#0/5B5A3Z@		11	2984			18
139	2	140			@)K#0/4B5B5A3Z@		13	2997			19
140	2	150			@)J#0/5B5A3Z@		11	3008			19
141	2	160			@)!#0/5B5A3Z@		11	3019			19
142	2	170			@)I#0/5B5A3Z@		11	3030			20
143	2	180			@)H#0/4C5B5A3ZED@		15	3045			20
144	2	190			@)G#0/5B5A3ZED@		13	3058			20
145	2	200			@)F#0/4B5B5A3Z@		13	3071			21
146	2	210			@)E#0/5B5A3Z@		11	3082			21
147	2	220			@)D#0/4B5B5A3Z@		13	3095			21

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	2	230			@)C#0/5B5A3Z@		11	3106			22
149	2	240			@)B#0/5B5A3Z@		11	3117			22
150	2	250			@)A#0/3S4B5B5A3Z@		15	3132			22
151	3	010			@)?#0/4S5B5A3Z@		13	3145			23
152	3	020			@)@#0/3S4B5B5A3Z@		15	3160			23
153	3	030			@)##0/4S3T3S5B5A3ZCD@		19	3179			24
154	3	040			@)%#0/4S3T3S5B5A3Z@		17	3196			24
155	3	050			@)/#0/4S5B5A3ZCDCC@		17	3213			25
156	3	060			@)-#0/3S4B5B5A3ZCC@		17	3230			25
157	3	070			@)*#0/3T3S4B5B5A3Z@		17	3247			26
158	3	080			@)\$#0/3S4B5B5A3Z@		15	3262			26
159	3	090			@)T4S.3S4B%0/5B5A3Z@		21	3283			27
160	3	100			@)[#0/3S4B5B5A3ZCH@		17	3300			27
161	3	110			@))#0/3S4B5B5A3ZCHCD@		19	3319			28
162	3	120			@).#0/3S4B5B5A3ZCD@		17	3336			28
163	3	130			@) #0/4B3S5B5A3Z@		15	3351			29
164	3	140			@.9#0/4B5B5A3Z@		13	3364			29
165	3	150			@.8#0/3S3T5B5A3Z@		15	3379			30
166	3	160			@.7#0/3S3T5B5A3Z@		15	3394			30
167	3	170			@.6#0/3S3T5B5A3Z@		15	3409			31
168	3	180			@.5#0/3S3T5B5A3Z@		15	3424			31
169	3	190			@.4#0/3S3T5B5A3Z@		15	3439			32
170	3	200			@.3#0/3S3T5B5A3Z@		15	3454			32
171	3	210			@.2#3T4S.4B3S%0/5B5A3Z@		21	3475			33
172	3	220			@.1#0/4B5B5A3Z@		13	3488			33
173	3	230		DCW	@}@		1	3489			33
174	3	240		END					/ 000 080		34

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

1401 COBOL - T04 PAGE 1

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
101	1	010	000	JOB	1401 COBOL - T04						
102	1	020		CTL	661 11						
103	1	030		ORG	2500				2500		
104	1	040		DCW	@: @		1	2500			4
105	1	050			@�/4B5C5A3I@		13	2513			4
106	1	060			@&.#0/4B5C5A3ICD@		15	2528			4
107	1	070			@& #0/4B5C5A3I@		13	2541			5
108	1	080			@[9#0/4B5C5A3I@		13	2554			5
109	1	090			@[8#0/4B5C5A3IED@		15	2569			6
110	1	100			@[7#0/4B5C5A3I@		13	2582			6
111	1	110			@[6#0/4B5C5A3ICD@		15	2597			7
112	1	120			@[5#0/4B5C5A3I@		13	2610			7
113	1	130			@[4#0/4B5C5A3I@		13	2623			8
114	1	140			@[3#0/4B5C5A3I@		13	2636			8
115	1	150			@[2#0/4X4B5C5A3ICDDE@		19	2655			9
116	1	160			@[1#0/4B5C5A3I@		13	2668			9
117	1	170			@[0#0/4B5C5A3I@		13	2681			10
118	1	180			@[Z#0/4B5C5A3I@		13	2694			10
119	1	190			@[Y#0/4B5C5A3I@		13	2707			10
120	1	200			@[X#0/4B5C5A3IED@		15	2722			11
121	1	210			@[W#0/4B5C5A3I@		13	2735			11
122	1	220			@[V#0/4B5C5A3I@		13	2748			12
123	1	230			@[U#0/4B5C5A3I@		13	2761			12
124	1	240			@[T#0/4B5C5A3I@		13	2774			12
125	1	250			@[S#0/4C4B5C5A3IED@		17	2791			13
126	2	010			@[|#0/4B5C5A3I@		13	2804			13
127	2	020			@[R#0/4B5C5A3I@		13	2817			14
128	2	030			@[Q#0/4B5C5A3I@		13	2830			14
129	2	040			@[P#0/4B5C5A3I@		13	2843			14
130	2	050			@[O#0/3T4B5C5A3ICDCHCD@		21	2864			15
131	2	060			@[N#0/3T4B5C5A3ICHCD@		19	2883			16
132	2	070			@[M#0/3T4B5C5A3ICD@		17	2900			16
133	2	080			@[L#0/3T4B5C5A3I@		15	2915			17
134	2	090			@[K#0/4B5C5A3ICDCHCC@		19	2934			17
135	2	100			@[J#0/4B5C5A3ICHCC@		17	2951			18
136	2	110			@[!#0/4B5C5A3ICCCD@		17	2968			18
137	2	120			@[I#0/4B5C5A3I@		13	2981			19
138	2	130			@[H#0/4B5C5A3I@		13	2994			19
139	2	140			@[G#0/4B5C5A3ICD@		15	3009			20
140	2	150			@[F#0/4B5C5A3I@		13	3022			20
141	2	160			@[E#0/3T4B5C5A3I@		15	3037			21
142	2	170			@[D#0/3T4B5C5A3I@		15	3052			21
143	2	180			@[C#0/3T4B5C5A3I@		15	3067			22
144	2	190			@[B#0/5W3T4B5C5A3I@		17	3084			22
145	2	200			@[A#0/3T5F4B5C5A3I@		17	3101			23
146	2	210			@[?#0/5F4B5C5A3IED@		17	3118			23
147	2	220			@[#5W3T.5F%0/4B5C5A3I@		21	3139			24

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	2	230			@[#5W3T.5F%0/4B5C5A3I@	21		3160			25
149	2	240			@[%5W3T.5F%0/4B5C5A3I@	21		3181			26
150	2	250			@[#0/4B5C5A3I@	13		3194			26
151	3	010		DCW	@}@	1		3195			26
152	3	020		END					/ 000 080		27

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	3

1401 COBOL - T05 PAGE 1

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
101	1	010	000	JOB	1401 COBOL - T05						
102	1	020		CTL	661 11						
103	1	030		ORG	2500				2500		
104	1	040		DCW	@: @		1	2500			4
105	1	050			@\$A#0/4B5B5A3I@		13	2513			4
106	1	060			@\$?#0/4B5B5A3I@		13	2526			4
107	1	070			@\$@#0/1|4B5B5A3I@		15	2541			5
108	1	080			\$\$\$#0/4B5B5A3I@		13	2554			5
109	1	090			\$\$%#0/1|4B5B5A3I@		15	2569			6
110	1	100			\$/#0/4B5B5A3I@		13	2582			6
111	1	110			\$\$-#0/1|4B5B5A3I@		15	2597			7
112	1	120			\$\$*#0/1|4B5B5A3I@		15	2612			7
113	1	130			\$\$\$#0/4B5B5A3I@		13	2625			8
114	1	140			\$\$�/4B5B5A3I@		13	2638			8
115	1	150			\$\$[#0/4B5B5A3IED@		15	2653			9
116	1	160			\$\$)#0/4B5B5A3I@		13	2666			9
117	1	170			\$\$.#0/4B5B5A3I@		13	2679			10
118	1	180			\$\$ #0/4B5B5A3I@		13	2692			10
119	1	190			\$\$9#0/4B5B5A3I@		13	2705			10
120	1	200			\$\$8#0/4X4B5B5A3ICDDE@		19	2724			11
121	1	210			\$\$7#0/4B5B5A3I@		13	2737			11
122	1	220			\$\$6#0/4B5B5A3I@		13	2750			12
123	1	230			\$\$5#0/4B5B5A3I@		13	2763			12
124	1	240			\$\$4#0/4B5B5A3ICF@		15	2778			13
125	1	250			\$\$3#0/4B5B5A3I@		13	2791			13
126	2	010			\$\$2#0/1|4B5B5A3I@		15	2806			14
127	2	020			\$\$1#0/1|3T4B5B5A3I@		17	2823			14
128	2	030			\$\$0#0/1|3T4B5B5A3I@		17	2840			15
129	2	040			\$\$Z#0/4B5B5A3I@		13	2853			15
130	2	050			\$\$Y#0/4B5B5A3I@		13	2866			16
131	2	060			\$\$X#0/4B5B5A3ICD@		15	2881			16
132	2	070			\$\$W#0/1|4B5B5A3I@		15	2896			17
133	2	080			\$\$V#0/4B5B5A3I@		13	2909			17
134	2	090			\$\$U#0/4B5B5A3I@		13	2922			18
135	2	100			\$\$T#0/4B5B5A3I@		13	2935			18
136	2	110			\$\$S#0/4B5B5A3I@		13	2948			18
137	2	120			\$\$|#0/4C4B5B5A3IED@		17	2965			19
138	2	130			\$\$R#0/4B5B5A3IED@		15	2980			19
139	2	140			\$\$Q#0/4B5B5A3ICD@		15	2995			20
140	2	150			\$\$P#0/1|4B5B5A3ICD@		17	3012			20
141	2	160			\$\$O#0/4B5B5A3ICD@		15	3027			21
142	2	170			\$\$N#0/1|4B5B5A3ICD@		17	3044			21
143	2	180			\$\$M#0/4B5B5A3I@		13	3057			22
144	2	190			\$\$L#0/1|3T4B5B5A3I@		17	3074			22
145	2	200			\$\$K#0/4B5B5A3I@		13	3087			23
146	2	210			\$\$J#0/1|3T4B5B5A3ICH@		19	3106			23
147	2	220			\$\$!#0/4B5B5A3ICHCC@		17	3123			24

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	2	230			@&I#0/1 | 3T4B5B5A3ICD@	19		3142			24
149	2	240			@&H#0/4B5B5A3ICDCC@	17		3159			25
150	2	250			@&G#0/1 | 3T4B5B5A3ICDCH@	21		3180			25
151	3	010			@&F#0/4B5B5A3ICDCHCC@	19		3199			26
152	3	020			@&E#0/1 | 4B5B5A3I@	15		3214			26
153	3	030			@&D#0/1 | 4B5B5A3I@	15		3229			27
154	3	040			@&C#0/4B5B5A3I@	13		3242			27
155	3	050			@&B#0/1 | 3T4B5B5A3ICH@	19		3261			28
156	3	060			@&A#0/4B5B5A3ICHCC@	17		3278			28
157	3	070			@&?#0/1 | 3T4B5B5A3I@	17		3295			29
158	3	080			@&@#0/1 | 3T4B5B5A3I@	17		3312			29
159	3	090			@&##0/1 | 3T4B5B5A3I@	17		3329			30
160	3	100			@& %#0/1 | 3T4B5B5A3I@	17		3346			30
161	3	110			@&/#0/1 | 3T4B5B5A3I@	17		3363			31
162	3	120			@&-#0/1 | 3T4B5B5A3I@	17		3380			31
163	3	130			@& *#0/1 | 3T4B5B5A3I@	17		3397			32
164	3	140			@& \$#0/1 | 3T4B5B5A3I@	17		3414			32
165	3	150			@&�/4B5B5A3I@	13		3427			33
166	3	160			@&[#0/4B5B5A3I@	13		3440			33
167	3	170	DCW		@} @	1		3441			33
168	3	180	END						/ 000 080		34

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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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1401 COBOL - T06 PAGE 1

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
101	1	010	000	JOB	1401 COBOL - T06						
102	1	020		CTL	661 11						
103	1	030		ORG	2500				2500		
104	1	040		DCW	@: @		1	2500			4
105	1	050			@*A#5?@		5	2505			4
106	1	060			@*?#0B0/5?@		9	2514			4
107	1	070			@*#@#0B0/5?@		9	2523			4
108	1	080			@*##0B0/5?@		9	2532			4
109	1	090			@*%#0B0/5?DD@		11	2543			5
110	1	100			@*/#0B0/5?@		9	2552			5
111	1	110			@*-#0B0/5?@		9	2561			5
112	1	120			@**#0B0/5?@		9	2570			5
113	1	130			@*\$#0B0/5?@		9	2579			6
114	1	140			@*�B0/5?@		9	2588			6
115	1	150			@*[#5?ED@		7	2595			6
116	1	160			@*)#0/5?@		7	2602			6
117	1	170			@*.#0/5?@		7	2609			6
118	1	180			@* #0/5?@		7	2616			7
119	1	190			@\$9#0B0/5?@		9	2625			7
120	1	200			@\$8#5?@		5	2630			7
121	1	210			@\$7#0/5?@		7	2637			7
122	1	220			@\$6#5?@		5	2642			7
123	1	230			@\$5#0/5?@		7	2649			8
124	1	240			@\$4#0B0/5?@		9	2658			8
125	1	250			@\$3#0/5?@		7	2665			8
126	2	010			@\$2#0B0/5?@		9	2674			8
127	2	020			@\$1#0B0/5?@		9	2683			9
128	2	030			@\$0#0/5?@		7	2690			9
129	2	040			@\$Z#3T0/5?@		9	2699			9
130	2	050			@\$Y#3T0/5?@		9	2708			9
131	2	060			@\$X#0/5?CC@		9	2717			10
132	2	070			@\$W#0/5?4U@		9	2726			10
133	2	080			@\$V#0/5?DD@		9	2735			10
134	2	090			@\$U#0/5?@		7	2742			10
135	2	100			@\$T#0B0/5?@		9	2751			11
136	2	110			@\$S#0S0/5?@		9	2760			11
137	2	120			@\$|#0B0/5?@		9	2769			11
138	2	130			@\$R#0B0/5?@		9	2778			11
139	2	140			@\$Q#0B0/5?@		9	2787			12
140	2	150			@\$P#0B0/5?@		9	2796			12
141	2	160			@\$O#0B0/5?@		9	2805			12
142	2	170			@\$N#0B0/5?@		9	2814			12
143	2	180			@\$M#5W4D3T.5W4U.5F%5?@		20	2834			13
144	2	190			@\$L#3T5?@		7	2841			13
145	2	200			@\$K#3T5?@		7	2848			13
146	2	210			@\$J#4U.4D%3T5?@		13	2861			14
147	2	220			@\$!#0/4U5?@		9	2870			14

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	2	230			@\$I#4D3T.4U%5?@		13	2883			14
149	2	240			@\$H#4D3T.4U%5W5?@		15	2898			15
150	2	250			@\$G#5F5?ED@		9	2907			15
151	3	010			@\$F#5F.5W4U.5W4D3T%5?@		20	2927			16
152	3	020			@\$E#5W4D3T.5W4U.5F%5?@		20	2947			17
153	3	030			@\$D#5F.5W4U.5W4D3T%5?@		20	2967			18
154	3	040			@\$C#5W4D3T.5W4U.5F%5?@		20	2987			19
155	3	050			@\$B#0/5?@		7	2994			19
156	3	060		DCW	@}@		1	2995			19
157	3	070		END					/ 000 080		20

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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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1401 COBOL - T07 PAGE 1

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
101	1	010	000	JOB	1401 COBOL - T07						
102	1	020		CTL	661 11						
103	1	030		ORG	2500				2500		
104	1	040		DCW	@: @			1	2500		4
105	1	050			@-J#4I@			5	2505		4
106	1	060			@-!#0/0B4I@			9	2514		4
107	1	070			@-I#0/0B4I@			9	2523		4
108	1	080			@-H#0B0/4I@			9	2532		4
109	1	090			@-G#0B0/4I@			9	2541		5
110	1	100			@-F#0B0/4I@			9	2550		5
111	1	110			@-E#0B0/4I@			9	2559		5
112	1	120			@-D#0/0B4I@			9	2568		5
113	1	130			@-C#4I@			5	2573		6
114	1	140			@-B#4I@			5	2578		6
115	1	150			@-A#0B0/4I@			9	2587		6
116	1	160			@-?#0B0/4I@			9	2596		6
117	1	170			@-@#0B0/4I@			9	2605		6
118	1	180			@-##0S0/4I@			9	2614		7
119	1	190			@-%#4I@			5	2619		7
120	1	200			@-/#4I@			5	2624		7
121	1	210			@--#0B0/4I@			9	2633		7
122	1	220			@-*#0B0/4I@			9	2642		7
123	1	230			@-\$#0S0/4I@			9	2651		8
124	1	240			@-I@			5	2656		8
125	1	250			@-[#4I@			5	2661		8
126	2	010			@-)#4U4I@			7	2668		8
127	2	020			@-.#4U4I@			7	2675		8
128	2	030			@- #0/4IDD@			9	2684		9
129	2	040			@*9#4I@			5	2689		9
130	2	050			@*8#4I@			5	2694		9
131	2	060			@*7#0/4I@			7	2701		9
132	2	070			@*6#4I@			5	2706		9
133	2	080			@*5#0B0/4I@			9	2715		10
134	2	090			@*4#0/4U4I@			9	2724		10
135	2	100			@*3#0B0/4I@			9	2733		10
136	2	110			@*2#0/4U4I@			9	2742		10
137	2	120			@*1#0/4U4I@			9	2751		11
138	2	1 30			@*0#0/0B4U4I@			11	2762		11
139	2	140			@*Z#0/4IDD@			9	2771		11
140	2	150			@*Y#0/0B4D4I@			11	2782		12
141	2	160			@*X#0S0/4D4I@			11	2793		12
142	2	170			@*W#0/4I@			7	2800		12
143	2	180			@*V#0/4I@			7	2807		12
144	2	190			@*U#0B0/4I@			9	2816		13
145	2	200			@*T#0B0/4I@			9	2825		13
146	2	210			@*S#0B0/4I@			9	2834		13
147	2	220			@*|#0B0/4I@			9	2843		13

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	2	230			@*R#4I@		5	2848			14
149	2	240			@*Q#4I@		5	2853			14
150	2	250			@*P#4I@		5	2858			14
151	3	010			@*O#3T4I@		7	2865			14
152	3	020			@*N#3T4I@		7	2872			14
153	3	030			@*M#4ICC@		7	2879			14
154	3	040			@*L#0/4I@		7	2886			15
155	3	050			@*K#3C4U.3T%4I@		13	2899			15
156	3	060			@*J#0B0/4I@		9	2908			15
157	3	070			@*!#3T4I@		7	2915			15
158	3	080			@*I#3T4I@		7	2922			16
159	3	090			@*H#3T4D4I@		9	2931			16
160	3	100			@*G#4U4I@		7	2938			16
161	3	110			@*F#3C4U.3T%4I@		13	2951			16
162	3	120			@*E#3C4U.3T%4I@		13	2964			17
163	3	130			@*D#3C4U.3T%4I@		13	2977			17
164	3	140			@*C#3C4U.3T%4I@		13	2990			17
165	3	150			@*B#3C4U.3T%4I@		13	3003			18
166	3	160		DCW	@}@		1	3004			18
167	3	170		END					/ 000 080		19

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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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1401 COBOL - T08 PAGE 1

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
101	1	010	000	JOB	1401 COBOL - T08						
102	1	020		CTL	661 11						
103	1	030		ORG	2500				2500		
104	1	040		DCW	@: @		1	2500			4
105	1	050		DCW	@-8#4H@		5	2505			4
106	1	060			@-7#4H@		5	2510			4
107	1	070			@-6#4H@		5	2515			4
108	1	080			@-5#4H@		5	2520			4
109	1	090			@-4#4H@		5	2525			4
110	1	100			@-3#3T4H@		7	2532			4
111	1	110			@-2#3T4H@		7	2539			5
112	1	120			@-1#4HCC@		7	2546			5
113	1	130			@-0#0U4H@		7	2553			5
114	1	140			@-Z#0U4H@		7	2560			5
115	1	150			@-Y#0U4H@		7	2567			5
116	1	160			@-X#0U4H@		7	2574			6
117	1	170			@-W#4H@		5	2579			6
118	1	180			@-V#4H@		5	2584			6
119	1	190			@-U#0B0/4H@		9	2593			6
120	1	200			@-T#0/0B4H@		9	2602			6
121	1	210			@-S#3C0U.3T%4H@		13	2615			7
122	1	220			@-|#3T4H@		7	2622			7
123	1	230			@-R#3T4H@		7	2629			7
124	1	240			@-Q#0U4H@		7	2636			7
125	1	250			@-P#3C0U.3T%4H@		13	2649			8
126	2	010			@-O#0U4H@		7	2656			8
127	2	020			@-N#3C0U.3T%4H@		13	2669			8
128	2	030			@-M#3C0U.3T%4H@		13	2682			9
129	2	040			@-L#3C0U.3T%4H@		13	2695			9
130	2	050			@-K#3C0U.3T%4H@		13	2708			9
131	2	060		DCW	@} @		1	2709			10
132	2	070		END					/ 000 080		11

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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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1401 COBOL - T09 PAGE 1

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
101	1	010	000	JOB	1401 COBOL - T09						
102	1	020		CTL	661 11						
103	1	030		ORG	2500				2500		
104	1	040		DCW	@:@		1	2500			4
105	1	050			@ V\$@		3	2503			4
106	1	060			@ U#0/@		5	2508			4
107	1	070			@ T#ED@		5	2513			4
108	1	080			@ S#4X@		5	2518			4
109	1	090			@|# 5A5B@		7	2525			4
110	1	100			@ R#5A5C@		7	2532			4
111	1	110			@ Q#5?@		5	2537			5
112	1	120			@ P#4I@		5	2542			5
113	1	130			@ O#4H@		5	2547			5
114	1	140			@ N#4V@		5	2552			5
115	1	150			@ M#DE@		5	2557			5
116	1	160			@ L#4T@		5	2562			5
117	1	170			@ K#DC@		5	2567			5
118	1	180			@ J#2W2X@		7	2574			6
119	1	190			@ !#2U2T2G5C5A@		13	2587			6
120	1	200			@ I#2C2G5C5A@		11	2598			6
121	1	210			@ H#5B.2D5C%2G5A@		15	2613			7
122	1	220			@ G#3X@		5	2618			7
123	1	230			@ F#3/@		5	2623			7
124	1	240			@ E#0H@		5	2628			7
125	1	250			@ D#0I@		5	2633			7
126	2	010			@ C#0Z0Y@		7	2640			8
127	2	020			@ B\$@		3	2643			8
128	2	030			@ A#5A@		5	2648			8
129	2	040			@ ?#2|2G5A@		9	2657			8
130	2	050			@ @#2G5AB?@		9	2666			8
131	2	060			@ ##1Z2G5A@		9	2675			9
132	2	070			@ %#2G5AAI@		9	2684			9
133	2	080			@ /#0V2G5A@		9	2693			9
134	2	090			@ -#2G5A?E@		9	2702			9
135	2	100		DCW	@ *#5B.5C%2S2G5C@		15	2717			10
136	2	110		DCW	@ \$#5B.5C%5A2G5B@		15	2732			10
137	2	120		DCW	@ B.5C%2/2G5A@		15	2747			11
138	2	130		DCW	@)#5C2G5ABA@		11	2758			11
139	2	140			@ .#2Z5A@		7	2765			11
140	2	150			@ #2Y5A@		7	2772			12
141	2	160		DCW	@} @		1	2773			12
142	2	170		END					/ 000 080		13

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

1401 COBOL - SP2

PAGE 1

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
101	1	010	000	JOB	1401 COBOL - SP2						
102	1	020		CTL	661 11						
103	1	030	SUPER	EQU	351			0351			
104	1	040	X1	EQU	89			0089			
105	1	050	X2	EQU	94			0094			
106	1	060	X3	EQU	99			0099			
107	1	070	IORW	EQU	343			0343			
108	1	080	PUTX	EQU	363			0363			
109	1	090	BSPBKT	EQU	1299			1299			
110	1	091		ORG	2800				2800		
111	1	110	INIT	MLC	564,PBAD	7	2800	M 564	G36		4
112	1	120		MLC	448,PIAD	7	2807	M 448	G39		4
113	1	130		MLC	570,GBAD	7	2814	M 570	G42		4
114	1	140		MLC	665,GIAD	7	2821	M 665	G45		4
115	1	145		MLC	GIAD,X1	7	2828	M G45	089		4
116	2	171		SW	0&X1	4	2835	, 0|0			4
117	1	150		MLC	628,GETA	7	2839	M 628	G48		5
118	1	160		C	573,GETA	7	2846	C 573	G48		5
119	1	170		BU	INIT1	5	2853	B Q65	/		5
120	1	180		MLC	@T@,WMSW	7	2858	M G83	G79		5
121	1	190	INIT1	MLC	394,PUTA	7	2865	M 394	G51		5
122	1	210		MLC	GIAD,READAD	7	2872	M G45	G57		6
123	1	205		MLC	662	4	2879	M 662			6
124	1	220		MLC	READAD,RTR01&6	7	2883	M G57	B52		6
125	1	230		MLC	READAD,RTR03&6	7	2890	M G57	D04		6
126	1	240		MLC	READAD,RTR04&6	7	2897	M G57	D37		6
127	1	250		MLC	445,READAD-3	7	2904	M 445	G54		6
128	2	010		MLC	READAD,WRTG01&6	7	2911	M G57	B67		7
129	2	020		MLC	PIAD,READAD	7	2918	M G39	G57		7
130	2	030		MLC	READAD,WRT01&6	7	2925	M G57	E82		7
131	2	040		MLZS	PBAD,RZNSV	7	2932	Y G36	G60		7
132	2	050		MLZS		1	2939	Y			7
133	2	060		MLZS		1	2940	Y			7
134	2	070		MLZS	@ @,PIAD	7	2941	Y G84	G39		7
135	2	080		S	&1,PIAD	7	2948	S G85	G39		8
136	2	090		MLZS	RZNSV,PIAD	7	2955	Y G60	G39		8
137	2	100		MLZS		1	2962	Y			8
138	2	110		MLZS		1	2963	Y			8
139	2	120		MLZS	@ @,GIAD	7	2964	Y G84	G45		8
140	2	130		S	&1,GIAD	7	2971	S G85	G45		8
141	2	140		MLZS	RZNSV,GIAD	7	2978	Y G60	G45		8
142	2	150		MLZS		1	2985	Y			9
143	2	160		MLZS		1	2986	Y			9
144	2	170		MLC	GBAD,X1	7	2987	M G42	089		9
145	2	180	INIT2	C	0&X1	4	2994	C 0|0			9
146	2	190		SAR	X1	4	2998	Q 089			9
147	2	200		C	X1,GIAD	7	3002	C 089	G45		9

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	2	210		BE	INIT3		5	3009	B ?22 S		9
149	2	220		CW	1&X1		4	3014	) 0|1		10
150	2	230		B	INIT2		4	3018	B R94		10
151	2	240	INIT3	MLC	PBAD, X1		7	3022	M G36 089		10
152	2	250	INIT4	C	0&X1		4	3029	C 0|0		10
153	3	010		SAR	X1		4	3033	Q 089		10
154	3	020		C	X1, PIAD		7	3037	C 089 G39		10
155	3	030		BE	INIT5		5	3044	B ?57 S		10
156	3	040		CW	1&X1		4	3049	) 0|1		11
157	3	050		B	INIT4		4	3053	B ?29		11
158	3	060	INIT5	MLZS	@ @, GETA		7	3057	Y G84 G48		11
159	3	070		MLZS	@ @, PUTA		7	3064	Y G84 G51		11
160	3	080	ADCALC	MLC	GBAD, ADBUCK		7	3071	M G42 G63		11
161	3	090		MLZS	@ @, ADBUCK		7	3078	Y G84 G63		11
162	3	100		S	GETA, ADBUCK		7	3085	S G48 G63		12
163	3	110		MLC	ADBUCK, GL		7	3092	M G63 G66		12
164	3	120		A	&3, GL		7	3099	A G86 G66		12
165	3	130		MLZS	@ @, GL		7	3106	Y G84 G66		12
166	3	140		MLC	PBAD, ADBUCK		7	3113	M G36 G63		12
167	3	150		MLZS	@ @, ADBUCK		7	3120	Y G84 G63		13
168	3	160		S	PUTA, ADBUCK		7	3127	S G51 G63		13
169	3	170		A	&3, ADBUCK		7	3134	A G86 G63		13
170	3	180		MLC	ADBUCK, PL		7	3141	M G63 G69		13
171	3	190		MLZS	@ @, PL		7	3148	Y G84 G69		13
172	3	200		MLZS	RZNSV, GETA		7	3155	Y G60 G48		14
173	3	210		MLC	GETA, X1		7	3162	M G48 089		14
174	3	220		C	@ @, 0&X1		7	3169	C G89 0|0		14
175	3	230		SBR	X1		4	3176	H 089		14
176	3	240		SBR	SWSV		4	3180	H G78		14
177	3	250		SW	1&X1		4	3184	, 0|1		14
178	4	010	ADCL01	C	PL, GL		7	3188	C G69 G66		15
179	4	020		BH	GRTRNR		5	3195	B B76 U		15
180	4	030		BL	LSTRNR		5	3200	B C37 T		15
181	4	040	EQTRNR	MLC	GBAD, X2		7	3205	M G42 094		15
182	4	050		MLC	PBAD, X3		7	3212	M G36 099		15
183	4	060		MLC	0&X2, 0&X3		7	3219	M 0|0 0?0		15
184	4	070		BCE	EQTR02, WMSW, T		8	3226	B B38 G79 T		16
185	4	080		CW	1&X1		4	3234	) 0|1		16
186	4	090	EQTR02	B	WRITE		4	3238	B E68		16
187	4	100	EQTR01	B	IORW		4	3242	B 343		16
188	4	110	RTR01	RT	*, *		8	3246	M B53 B53 R		16
189	4	120		DCW	EXIT		3	3256	D50		16
190	4	130		B	IORW		4	3257	B 343		16
191	4	140	WRTG01	WT	*, *		8	3261	M B68 B68 W		17
192	4	150		DCW	EOTW		3	3271	E63		17
193	4	160		B	EQTR01		4	3272	B B42		17
194	4	170	GRTRNR	MLC	GETA, GX		7	3276	M G48 G72		17
195	4	180		MLZS	@ @, GX		7	3283	Y G84 G72		17
196	4	190		S	&3, GX		7	3290	S G86 G72		17
197	4	200		A	PL, GX		7	3297	A G69 G72		18

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
198	4	210		MLC	PIAD,PX	7		3304	M G39 G75		18
199	4	220		B	SETMVS	4		3311	B F59		18
200	4	230		MLC	GX,MVLB01&3	7		3315	M G72 C25		18
201	4	240	MVLB01	MLC	*,0&X3	7		3322	M C28 0?0		18
202	4	250		B	SWRTN	4		3329	B E91		18
203	5	010		B	LSTR01	4		3333	B D16		19
204	5	020	LSTRNR	MLC	PBAD,PX	7		3337	M G36 G75		19
205	5	030		MLC	GIAD,GX	7		3344	M G45 G72		19
206	5	040		MLZS	@ @,GX	7		3351	Y G84 G72		19
207	5	050		A	PL,GX	7		3358	A G69 G72		19
208	5	060		S	GL,GX	7		3365	S G66 G72		19
209	5	070		B	SETMVS	4		3372	B F59		20
210	5	080		MLC	PX,MVLB04&6	7		3376	M G75 C89		20
211	5	090	MVLB04	MLC	0&X2,*	7		3383	M 0!0 C89		20
212	5	100		B	SWRTN	4		3390	B E91		20
213	5	110		B	IORW	4		3394	B 343		20
214	5	120	RTR03	RT	*,*	8		3398	M D05 D05 R		20
215	5	130		DCW	EOTW1	3		3408	D46		20
216	5	140	MVLB05	MLC	*,0&X3	7		3409	M D15 0?0		21
217	5	150	LSTR01	B	WRITE	4		3416	B E68		21
218	5	160	MVLB06	MLC	0&X2,*	7		3420	M 0!0 D26		21
219	5	170		B	IORW	4		3427	B 343		21
220	5	180	RTR04	RT	*,*	8		3431	M D38 D38 R		21
221	5	190		DCW	EOTW1	3		3441	D46		21
222	5	200		B	MVLB05	4		3442	B D09		21
223	5	210	EOTW1	B	WRITE	4		3446	B E68		22
224	5	220	EXIT	MLC	GBAD,628	7		3450	M G42 628		22
225	5	230		MLC	701,*&4	7		3457	M 701 D67		22
226	5	240		RWD	1	5		3464	U %U1 R		22
227	5	250	TMRKXT	MLNS	445,TMR01&3	7		3469	D 445 D79		22
228	6	010	TMR01	WTM	1	5		3476	U %U1 M		22
229	6	020		BCE	EXIT1,WMSW,T	8		3481	B E00 G79 T		23
230	6	030		MLC	SWSV,X1	7		3489	M G78 089		23
231	6	040		CW	1&X1	4		3496	) 0|1		23
232	6	050	EXIT1	B	PUTX	4		3500	B 363		23
233	6	060		DCW	VEOP	3		3506	G82		23
234	6	070		MLC	BSPBKT,PX	7		3507	M S99 G75		23
235	6	080		MLZS	@ @,PX	7		3514	Y G84 G75		24
236	6	090		MLC	@0@,PX-2	7		3521	M G90 G73		24
237	6	100		MLC	@000@,GX	7		3528	M G93 G72		24
238	6	110	EXIT2	C	PX,GX	7		3535	C G75 G72		24
239	6	120		BE	2331	5		3542	B L31 S		24
240	6	130		BSP	1	5		3547	U %U1 B		24
241	6	140		A	@1@,GX	7		3552	A G94 G72		25
242	6	150		B	EXIT2	4		3559	B E35		25
243	6	160	EOTW	H		1		3563	.		25
244	6	170		B	*-4	4		3564	B E63		25
245	6	180	WRITE	SBR	WRT02&3	4		3568	H E90		25
246	6	190		B	IORW	4		3572	B 343		25
247	6	200	WRT01	WT	*,*	8		3576	M E83 E83 W		25

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
248	6	210		DCW	EOTW		3	3586	E63		26
249	6	220	WRT02	B	*		4	3587	B E90		26
250	6	230	SWRTN	SBR	SWRT02&3		4	3591	H F58		26
251	6	240		BCE	SWRT01,WMSW,T		8	3595	B F07 G79 T		26
252	6	250		CW	1&X1		4	3603	) 0|1		26
253	7	010	SWRT01	C	GIAD,GX		7	3607	C G45 G72		26
254	7	020		BU	SWRT03		5	3614	B F30 /		26
255	7	030		MLC	@T@,WMSW		7	3619	M G83 G79		27
256	7	040		B	SWRT02		4	3626	B F55		27
257	7	050	SWRT03	MLC	@F@,WMSW		7	3630	M G95 G79		27
258	7	060		MLC	GX,X1		7	3637	M G72 089		27
259	7	070		MLC	GX,SWSV		7	3644	M G72 G78		27
260	7	080		SW	1&X1		4	3651	, 0|1		27
261	7	090	SWRT02	B	*		4	3655	B F58		28
262	7	100	SETMVS	SBR	SETMV1&3		4	3659	H G33		28
263	7	110		MLZS	RZNSV,GX		7	3663	Y G60 G72		28
264	7	120		MLZS			1	3670	Y		28
265	7	130		MLZS			1	3671	Y		28
266	7	140		MLC	GBAD,X2		7	3672	M G42 094		28
267	7	150		MLC	PBAD,X3		7	3679	M G36 099		28
268	7	160		MLC	GX,MVLB05&3		7	3686	M G72 D12		29
269	7	170		MLZS	@ @,PX		7	3693	Y G84 G75		29
270	7	180		S	PL,PX		7	3700	S G69 G75		29
271	7	190		A	GL,PX		7	3707	A G66 G75		29
272	7	200		MLZS	RZNSV,PX		7	3714	Y G60 G75		29
273	7	210		MLZS			1	3721	Y		29
274	7	220		MLZS			1	3722	Y		29
275	7	230		MLC	PX,MVLB06&6		7	3723	M G75 D26		30
276	7	240	SETMV1	B	*		4	3730	B G33		30
277	7	250	PBAD	DCW	#3		3	3736			30
278	8	010	PIAD	DCW	#3		3	3739			30
279	8	020	GBAD	DCW	#3		3	3742			30
280	8	030	GIAD	DCW	#3		3	3745			30
281	8	040	GETA	DCW	#3		3	3748			30
282	8	050	PUTA	DCW	#3		3	3751			31
283	8	060	READAD	DCW	#6		6	3757			31
284	8	070		DCW	#1		1	3758			31
285	8	080		DCW	#1		1	3759			31
286	8	090	RZNSV	DCW	#1		1	3760			31
287	8	100	ADBUCK	DCW	#3		3	3763			31
288	8	110	GL	DCW	#3		3	3766			31
289	8	120	PL	DCW	#3		3	3769			32
290	8	130	GX	DCW	#3		3	3772			32
291	8	140	PX	DCW	#3		3	3775			32
292	8	150	SWSV	DCW	#3		3	3778			32
293	8	160	WMSW	DCW	@F@		1	3779			32
294	8	170	VEOP	DCW	@.EP@		3	3782			32
295	8	180		LTORG					3783		
				DCW	@T@		1	3783		LIT	32
					@ @		1	3784		LIT	33

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
					&1		1	3785		LIT	33
					&3		1	3786		LIT	33
					@ @		3	3789		LIT	33
					@0@		1	3790		LIT	33
					@000@		3	3793		LIT	33
					@1@		1	3794		LIT	33
					@F@		1	3795		LIT	34
296	8	190	GMRK	DCW	@} @		1	3796			34
					GROUP MARK						
297	8	200		END					/ 000 080		35

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

1401 COBOL - J01 PAGE 1

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
101	1	010	000	JOB	1401 COBOL - J01						
102	1	020		CTL	661 11						
103	1	030		ORG	1300				1300		
104	1	040	X1	EQU	89			0089			
105	1	050	X2	EQU	94			0094			
106	1	060	X3	EQU	99			0099			
107	1	070	PUTX	EQU	363			0363			
108	1	080	GETX	EQU	335			0335			
109	1	090	AREA	EQU	103			0103			
110	1	100	LIST	EQU	104			0104			
111	1	110	ENTER	EQU	166			0166			
112	1	120	TABLE	EQU	156			0156			
113	1	130	END31	EQU	274			0274			
114	1	140	SCRBKT	EQU	1126			1126			
115	1	150	SUPER	EQU	351			0351			
116	1	160	HEADER	EQU	1135			1135			
117	1	170	IORW	EQU	343			0343			
118	1	180	IOSBR	EQU	940			0940			
119	1	190	START	EQU	2750			2750			
120	1	200		B	STTA	4		1300	B ?00		4
121	1	210	A15	B	READ	4		1304	B K37		4
122	1	220	A14	MLC	@000@,X3	7		1308	M O82 099		4
123	1	230		ZA	&0,ENTER	7		1315	? O83 166		4
124	1	240		MLC	BEGIN,X2	7		1322	M N75 094		4
125	1	250		CW	NOTIN&4,T1&4	7		1329	) V93 U10		4
126	2	010		BW	B371,SWITCH	8		1336	V T48 N76 1		5
127	2	020	AR75	B	GETSX	4		1344	B Z22		5
128	2	030	B371	CW	SWITCH	4		1348	) N76		5
129	2	040		BCE	SKIPS,SX-2,[	8		1352	B W56 N63 [		5
130	2	050	SS	SBR	X1,TAB	7		1360	H 089 O78		5
131	2	060	S	BCE	OPT,0&X1,:	8		1367	B U25 0|0 :		5
132	2	070		C	0&X1,SX	7		1375	C 0|0 N65		6
133	2	080		SAR	X1	4		1382	Q 089		6
134	2	090		BU	S	5		1386	B T67 /		6
135	2	100		MLC	0&X1,X1	7		1391	M 0|0 089		6
136	2	110		B	0&X1	4		1398	B 0|0		6
137	2	120	T	B	GETSX	4		1402	B Z22		6
138	2	130	T1	BCE	OPT,SX-2,.	8		1406	B U25 N63 .		6
139	2	140	T7	SBR	X2,ENTER	7		1414	H 094 166		7
140	2	150		SW	T1&4	4		1421	, U10		7
141	2	160	OPT	MLC	SX,0&X2	7		1425	M N65 010		7
142	2	170		C	X2,&END31	7		1432	C 094 086		7
143	2	180		BE	A14	5		1439	B T08 S		7
144	2	190		A	@3@,X2	7		1444	A 087 094		7
145	2	200		C	SX,@.MC@	7		1451	C N65 090		8
146	2	210		BU	T	5		1458	B U02 /		8
147	2	220		SBR	X2,LIST	7		1463	H 094 104		8

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	2	230	X301	BCE	XX301R,0&X2,\$	8		1470	B W38 0!0 \$		8
149	2	240		BCE	A14,0&X2,0	8		1478	B T08 0!0 0		8
150	2	250		C	2&X2,@.MC@	7		1486	C 0!2 090		9
151	3	010		BE	A14	5		1493	B T08 S		9
152	3	020		SBR	X1,STT	7		1498	H 089 N96		9
153	3	030	XAK	BCE	NOTIN,0&X1,	8		1505	B V89 0|0		9
154	3	040		SW	1&X2	4		1513	, 0!1		9
155	3	050		C	0&X1,2&X2	7		1517	C 0|0 0!2		9
156	3	060		SAR	X1	4		1524	Q 089		10
157	3	070		CW	1&X2	4		1528	) 0!1		10
158	3	080		BL	NON	5		1532	B V53 T		10
159	3	090		BE	NON	5		1537	B V53 S		10
160	31	00	ZAX1	MA	@920@,X3	7		1542	# 093 099		10
161	3	110		B	XAK	4		1549	B V05		10
162	3	120	NON	MLC	START&X3,START&X3	7		1553	M PE0 PE0		10
163	3	130		SBR	X3	4		1560	H 099		11
164	3	140		C	2&X2,2&X3	7		1564	C 0!2 0?2		11
165	3	150		SBR	MINE	4		1571	H N72		11
166	3	160		BH	G01X	5		1575	B Y25 U		11
167	3	170		BE	XX8X	5		1580	B Z55 S		11
168	3	180		B	SEARCH	4		1585	B X02		11
169	3	190	NOTIN	BEF	XX301R	5		1589	B W38 K		11
170	3	200		SW	NOTIN&4,SWT1	7		1594	, V93 N69		12
171	3	210		SBR	X3,AREA	7		1601	H 099 103		12
172	3	220	ONE	MLC	0&X3,SX1	7		1608	M 0?0 N99		12
173	3	230		B	PUTSX1	4		1615	B K10		12
174	3	240		A	@3@,X3	7		1619	A 087 099		12
175	3	250		C	SX1,@.MC@	7		1626	C N99 090		12
176	4	010		BU	ONE	5		1633	B W08 /		13
177	4	020	XX301R	A	@3@,X2	7		1638	A 087 094		13
178	4	030		MLC	@000@,X3	7		1645	M 082 099		13
179	4	040		B	X301	4		1652	B U70		13
180	4	050	SKIPS	MLC	@.MC@,HOLD	7		1656	M 090 N68		13
181	4	060		B	D66	4		1663	B W74		13
182	4	070	SKIPS1	MLC	SX,HOLD	7		1667	M N65 N68		14
183	4	080	D66	B	PUTSX	4		1674	B Z40		14
184	4	090		B	GETSX	4		1678	B Z22		14
185	4	100		C	SX,HOLD	7		1682	C N65 N68		14
186	4	110		BU	D66	5		1689	B W74 /		14
187	4	120	PASS	B	PUTSX	4		1694	B Z40		14
188	4	130		B	AR75	4		1698	B T44		14
189	4	140	SEARCH	MLC	102&X3,102&X3	7		1702	M 1?2 1?2		15
190	4	150		SBR	X3	4		1709	H 099		15
191	4	160		C	2&X2,2&X3	7		1713	C 0!2 0?2		15
192	4	170		BL	SEARCH	5		1720	B X02 T		15
193	4	180		BE	FOUND	5		1725	B Z62 S		15
194	4	190	LOOKUP	MLC	0&X3,0&X3	7		1730	M 0?0 0?0		15
195	4	200		SBR	X3	4		1737	H 099		15
196	4	210		C	2&X2,2&X3	7		1741	C 0!2 0?2		16
197	4	220		SBR	X3	4		1748	H 099		16

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
198	4	230		BE	FOUND	5		1752	B Z62 S		16
199	4	240		BL	RRR	5		1757	B X92 T		16
200	4	250		B	LOOKUP	4		1762	B X30		16
201	5	010	EOP	B	PUTSX	4		1766	B Z40		16
202	5	020		BW	READ1,SWT1	8		1770	V Y03 N69 1		16
203	5	030		MLCWA	3,188	7		1778	L 003 188		17
204	5	040		B	SUPER	4		1785	B 351		17
205	5	050		DCW	@JA7@	3		1791			17
206	5	060	RRR	B	PUTX	4		1792	B 363		17
207	5	070		DCW	@0!2@	3		1798			17
208	5	080		B	END	4		1799	B J81		17
209	5	090	READ1	MLC	@N@,T7	7		1803	M O94 U14		17
210	5	100		SBR	BEGIN,AREA	7		1810	H N75 103		18
211	51	05	CLSW	NOB	SWT1	4		1817	N N69		18
212	5	110		B	A15	4		1821	B T04		18
213	5	120	GO1X	BW	CBC1,SWITCH	8		1825	V Y43 N76 1		18
214	5	130		B	GETX	4		1833	B 335		18
215	5	140		DCW	SX	3		1839	N65		18
216	5	150		DCW	X701	3		1842	Y75		18
217	5	160	CBC1	BCE	CBC,SX-2,[	8		1843	B Y55 N63 [		19
218	5	170		B	X701	4		1851	B Y75		19
219	5	180	CBC	SW	SX-1	4		1855	, N64		19
220	5	190		C	2&X2,SX	7		1859	C 0!2 N65		19
221	5	200		CW	SX-1	4		1866	) N64		19
222	5	210		BE	OUTPUX	5		1870	B Y83 S		19
223	5	220	X701	SW	SWITCH	4		1875	, N76		19
224	5	230		B	SEARCH	4		1879	B X02		20
225	5	240	OUTPUX	MLC	@\$,0&X2	7		1883	M O95 0!0		20
226	5	250	OUTPT1	B	PUTSX	4		1890	B Z40		20
227	6	010		C	SX,@.MC@	7		1894	C N65 O90		20
228	6	020		BE	DXR	5		1901	B Z14 S		20
229	6	030		B	GETSX	4		1906	B Z22		20
230	6	040		B	OUTPT1	4		1910	B Y90		20
231	6	050	DXR	CW	SWITCH	4		1914	) N76		21
232	6	060		B	XX301R	4		1918	B W38		21
233	6	070	GETSX	SBR	EXIT&3	4		1922	H Z39		21
234	6	080		B	GETX	4		1926	B 335		21
235	6	090		DCW	SX	3		1932	N65		21
236	6	100		DCW	EOP	3		1935	X66		21
237	6	110	EXIT	B	*	4		1936	B Z39		21
238	6	120	PUTSX	SBR	EXIT3&3	4		1940	H Z54		22
239	6	130		B	PUTX	4		1944	B 363		22
240	6	140		DCW	SX	3		1950	N65		22
241	6	150	EXIT3	B	*	4		1951	B Z54		22
242	6	160	XX8X	MLC	MINE,X3	7		1955	M N72 099		22
243	6	170	FOUND	MLC	@\$,0&X2	7		1962	M O95 0!0		22
244	6	180		MLC	2&X3,SX1	7		1969	M 0?2 N99		22
245	6	190		MLC	@[@	4		1976	M O96		23
246	6	200		SBR	X3,3&X3	7		1980	H 099 0?3		23
247	6	220	OUTPUT	B	PUTSX1	4		1987	B K10		23

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
248	6	230	XX8	MLC	@ @,SX1		7	1991	M 099 N99		23
249	6	240		BCE	OP,0&X3,)		8	1998	B !72 0?0)		23
250	6	250		BCE	CONST,0&X3,@		8	2006	B J34 0?0 @		23
251	7	010		BCE	LAB3,0&X3,\$		8	2014	B J59 0?0 \$		24
252	7	020		BCE	END,0&X3,%		8	2022	B J81 0?0 %		24
253	7	030		BCE	PER,0&X3,.		8	2030	B J92 0?0 .		24
254	7	040		BCE	SUB,0&X3,:		8	2038	B J41 0?0 :		24
255	7	050		SW	SX1		4	2046	, N99		24
256	7	060		MLC	0&X3,SX1		7	2050	M 0?0 N99		25
257	7	070		CW	SX1		4	2057	) N99		25
258	7	080		SBR	X3,1&X3		7	2061	H 099 0?1		25
259	7	100		B	OUTPUT		4	2068	B Z87		25
260	7	110	OP	B	PUTX		4	2072	B 363		25
261	7	120		DCW	&@.LC@		3	2078	P02		25
262	7	130		MLC	2&X3,SX1-1		7	2079	M 0?2 N98		25
263	7	140		B	PUTSX1		4	2086	B K10		26
264	7	150		B	PUTX		4	2090	B 363		26
265	7	160		DCW	&@.OP@		3	2096	P05		26
266	7	170		BCE	NOTE,1&X3,*		8	2097	B J16 0?1 *		26
267	7	180		SBR	X3,3&X3		7	2105	H 099 0?3		26
268	7	200		B	XX8		4	2112	B Z91		26
269	7	210	NOTE	MLC	5&X3,SX1		7	2116	M 0?5 N99		26
270	7	220		SBR	X3,6&X3		7	2123	H 099 0?6		27
271	7	240		B	OUTPUT		4	2130	B Z87		27
272	7	250	CONST	B	PUTX		4	2134	B 363		27
273	8	010		DCW	&@ @@		3	2140	P08		27
274	8	020	SUB	MLC	3&X3,SX1		7	2141	M 0?3 N99		27
275	8	030	CONST1	SBR	X3,4&X3		7	2148	H 099 0?4		27
276	8	050		B	OUTPUT		4	2155	B Z87		27
277	8	060	LAB3	MLC	3&X3,SX1		7	2159	M 0?3 N99		28
278	8	070		B	PUTSX1		4	2166	B K10		28
279	8	080		MLC	LAB,SX1		7	2170	M 103 N99		28
280	8	090		B	CONST1		4	2177	B J48		28
281	8	100	END	B	PUTX		4	2181	B 363		28
282	8	130		DCW	&@.MC@		3	2187	O90		28
283	8	140		B	XX301R		4	2188	B W38		28
284	8	150	PER	MLC	3&X3,X1		7	2192	M 0?3 089		29
285	8	160		MLC	TABLE&X1,SX1		7	2199	M 1V6 N99		29
286	8	170		B	CONST1		4	2206	B J48		29
287	8	180	PUTSX1	SBR	PUTT&3		4	2210	H K24		29
288	8	190		B	PUTX		4	2214	B 363		29
289	8	200		DCW	SX1		3	2220	N99		29
290	8	210	PUTT	B	*		4	2221	B K24		29
291	8	220	NOTTS	B	PUTSX		4	2225	B Z40		30
292	8	230		B	GETSX		4	2229	B Z22		30
293	8	240		B	PASS		4	2233	B W94		30
294	8	250	READ	SBR	DONE&3		4	2237	H L90		30
295	9	010		MLC	665,X1		7	2241	M 665 089		30
296	9	020		CW	0&X1		4	2248	) 0|0		30
297	9	030		SAR	X1		4	2252	Q 089		30

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
298	9	040		SW	2800		4	2256	, Q00		31
299	9	050	REAL	CS	0&X1		4	2260	/ 0|0		31
300	9	060		SBR	X1		4	2264	H 089		31
301	9	070		BW	REAL, 2800		8	2268	V K60 Q00 1		31
302	9	080		SBR	AK&6, STT		7	2276	H L19 N96		31
303	9	090		MLC	@ @, STT		7	2283	M P09 N96		31
304	9	100		MLC	STT		4	2290	M N96		31
305	9	110	READ2	B	IORW		4	2294	B 343		32
306	9	120		RTW	1, HEADER		8	2298	L %U1 /35 R		32
307	9	130		DCW	*		3	2308	L08		32
308	9	140		SW	HEADER&1		4	2309	, /36		32
309	9	150	AK	MLC	HEADER&2, STT		7	2313	M /37 N96		32
310	9	160		SBR	AK&6		4	2320	H L19		32
311	9	170		CW	HEADER&1		4	2324	) /36		32
312	9	180		B	IORW		4	2328	B 343		33
313	9	190	R	RTW	1, START		8	2332	L %U1 P50 R		33
314	9	200		DCW	*		3	2342	L42		33
315	9	210		S	@2@, 1299		7	2343	S P10 S99		33
316	9	220		MLC	IOSBR, R&6		7	2350	M 940 L38		33
317	9	230		C	HEADER, SUBSC		7	2357	C /35 O79		33
318	9	240	R41	BE	R3		5	2364	B L73 S		34
319	9	250		B	READ2		4	2369	B K94		34
320	10	010	R3	SBR	R&6, START		7	2373	H L38 P50		34
321	10	020		MLC	@6@, SUBSC		7	2380	M P11 O79		34
322	10	030	DONE	B	*		4	2387	B L90		34
323	10	040	COBOL	BCE	COPY, HEADER&4, T		8	2391	B M31 /39 T		34
324	10	050	DIOCS	CW	SWT1		4	2399	) N69		34
325	10	060	DIOCSS	B	PUTSX		4	2403	B Z40		35
326	10	070		B	A14		4	2407	B T08		35
327	10	080	DTF	BCE	COPYR, HEADER&4, I		8	2411	B M23 /39 I		35
328	10	090	DTF1	B	DIOCS		4	2419	B L99		35
329	10	100	COPYR	BCE	READR, HEADER, 6		8	2423	B M89 /35 6		35
330	10	110	COPYS	BCE	READS, HEADER, 6		8	2431	B M82 /35 6		35
331	10	120		BW	COPY, SWT1		8	2439	V M75 N69 1		36
332	10	130		SW	R41&4		4	2447	, L68		36
333	10	140	SPINSS	B	READ		4	2451	B K37		36
334	10	150		BCE	SPINS2, HEADER, 6		8	2455	B M67 /35 6		36
335	10	160		B	SPINSS		4	2463	B M51		36
336	10	170	SPINS2	CW	R41&4		4	2467	) L68		36
337	10	180		B	SS		4	2471	B T60		36
338	10	190	COPY	B	SUPER		4	2475	B 351		37
339	10	200		DCW	@SP3@		3	2481			37
340	10	210	READS	SBR	DTF1&3, DIOCSS		7	2482	H M22 M03		37
341	10	220	READR	SBR	SXX1, DIOCSS		7	2489	H O51 M03		37
342	10	230		SBR	BEGIN, AREA&3		7	2496	H N75 106		37
343	10	240		MLC	SCRBKT, SUBSC		7	2503	M /26 O79		37
344	10	250		MLC	@H@, T7		7	2510	M P12 U14		38
345	11	010		B	READ		4	2517	B K37		38
346	11	020		B	DIOCSS		4	2521	B M03		38
347	11	030	LC	B	GETSX		4	2525	B Z22		38

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
348	11	040		B	GETSX		4	2529	B Z22		38
349	11	050	ST	A	@1@,AREA		7	2533	A P13 103		38
350	11	051		BCE	OUTFIX,AREA-2,|		8	2540	B N52 101 |		38
351	11	060		B	AR75		4	2548	B T44		39
352	11	061	OUTFIX	MLC	@J00@,AREA		7	2552	M P16 103		39
353	11	062		B	AR75		4	2559	B T44		39
354	11	070	SX	DCW	#3		3	2565			39
355	11	080	HOLD	DCW	#3		3	2568			39
356	11	090	SWT1	DC	#1		1	2569			39
357	11	100	MINE	DCW	#3		3	2572			39
358	11	110	BEGIN	DCW	&AREA&3		3	2575	106		39
359	11	120	SWITCH	DC	#1		1	2576			40
360	11	130	LAB	EQU	AREA			0103			
361	11	140		DCW	#2		2	2578			40
362	11	150		DC	#2		2	2580			40
363	11	160		DC	#2		2	2582			40
364	11	170		DC	#2		2	2584			40
365	11	180		DC	#2		2	2586			40
366	11	190		DC	#2		2	2588			40
367	11	200		DC	#2		2	2590			40
368	11	210		DC	#2		2	2592			40
369	11	220		DC	#2		2	2594			40
370	11	230	STT	DC	#2		2	2596			40
371	11	240	SX1	DCW	#3		3	2599			40
372	11	250		DCW	@:@		1	2600			40
373	12	010		DCW	&NOTTS		3	2603	K25		40
374	12	020		DCW	@***@		3	2606			41
375	12	030		DCW	&AR75		3	2609	T44		41
376	12	040		DCW	@.MC@		3	2612			41
377	12	050		DCW	&SKIPS1		3	2615	W67		41
378	12	060		DCW	@#DC@		3	2618			41
379	12	070		DCW	&PASS		3	2621	W94		41
380	12	080		DCW	@.SE@		3	2624			41
381	12	090		DCW	&PASS		3	2627	W94		42
382	12	100		DCW	@.DY@		3	2630			42
383	12	110		DCW	&SKIPS1		3	2633	W67		42
384	12	120		DCW	@*24@		3	2636			42
385	12	130		DCW	&EOP		3	2639	X66		42
386	12	140		DCW	@.EP@		3	2642			42
387	12	150		DCW	&DTF		3	2645	M11		42
388	12	160		DCW	@.DT@		3	2648			43
389	12	170	SXX1	DCW	&DIOCS		3	2651	L99		43
390	12	180		DCW	@.DI@		3	2654			43
391	12	190		DCW	&COBOL		3	2657	L91		43
392	12	200		DCW	@.EE@		3	2660			43
393	12	210		DCW	&ST		3	2663	N33		43
394	12	220		DCW	@.ST@		3	2666			43
395	12	230		DCW	&LC		3	2669	N25		44
396	12	240		DCW	@.LC@		3	2672			44
397	12	250		DCW	&AR75		3	2675	T44		44

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
398	13	010		DCW	\$.FS@		3	2678			44
399	13	020	TAB	EQU	*			2678			
400	13	030	SUBSC	DCW	#1		1	2679			44
401	13	040		LTORG					2680		
				DCW	@000@		3	2682		LIT	44
					&0		1	2683		LIT	44
	142				&END31		3	2686	274	ADCON	45
					@3@		1	2687		LIT	45
					\$.MC@		3	2690		LIT	45
					@920@		3	2693		LIT	45
					@N@		1	2694		LIT	45
					\$\$@		1	2695		LIT	45
					@[@		1	2696		LIT	45
					@ @		3	2699		LIT	46
					\$.LC@		3	2702		LIT	46
					\$.OP@		3	2705		LIT	46
					@ @@		3	2708		LIT	46
					@ @		1	2709		LIT	46
					@2@		1	2710		LIT	46
					@6@		1	2711		LIT	46
					@H@		1	2712		LIT	47
					@1@		1	2713		LIT	47
					@J00@		3	2716		LIT	47
402	13	050		ORG	3000				3000		
403	13	060	STTA	SBR	358,959		7	3000	H 358 959		48
404	13	070		MLCWA	@50@,1299		7	3007	L A49 S99		48
405	13	080		CS	299		4	3014	/ 299		48
406	13	090		CS			1	3018	/		48
407	13	100		MLCWA	@000@,103		7	3019	L A52 103		48
408	13	110		SW	104		4	3026	, 104		48
409	13	120		BW	TESTER,86		8	3030	V A36 086 1		48
410	13	130	TST	B	IORW		4	3038	B 343		49
411	13	140		RTW	1,HEADER		8	3042	L %U1 /35 R		49
412	13	150		DCW	*		3	3052	?52		49
413	13	151		MLC	@)@,CLSW		7	3053	M A53 Y17		49
414	13	160		SW	GMM		4	3060	, A71		49
415	13	170		B	IORW		4	3064	B 343		49
416	13	180		RT	1,SKIIPS		8	3068	M %U1 A56 R		49
417	13	190		DCW	*		3	3078	?78		50
418	13	200		C	HEADER&5,CONSTT		7	3079	C /40 A47		50
419	13	210		BU	TST		5	3086	B ?38 /		50
420	13	220	TSST	CW	GMM		4	3091	) A71		50
421	13	230		BCE	SS4K,SCRBKT,4		8	3095	B A07 /26 4		50
422	13	240		B	R4		4	3103	B A25		50
423	13	250	SS4K	SW	R41&4		4	3107	, L68		50
424	14	010		MLC	@A@,ZAX1		7	3111	M A54 V42		51
425	14	020		MLC	@N@,SPINS2		7	3118	M A55 M67		51
426	14	030	R4	MLC	SCRBKT,SUBSC		7	3125	M /26 O79		51
427	14	040		B	A15		4	3132	B T04		51
428	14	050	TESTER	BSS	TST,F		5	3136	B ?38 F		51

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
429	14	060		B	TSST		4	3141	B ?91		51
430	14	070	CONSTT	DCW	@DT0@		3	3147			51
431	14	080		LTOrg					3148		
				DCW	@50@		2	3149		LIT	52
					@000@		3	3152		LIT	52
					@)@		1	3153		LIT	52
					@A@		1	3154		LIT	52
					@N@		1	3155		LIT	52
432	14	090	SKIIPS	EQU	*&1			3156			
433	14	100		DC	#15		15	3170			52
434	14	110	GMM	DC	@}@		1	3171			52
435	14	120		ORG					3172		
436	14	130		DCW	@}@		1	3172			52
437	14	140		END					/ 000 080		53

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

1401 COBOL - DI1

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SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
101	1	010	000	JOB	1401 COBOL - DI1						
102	1	020		CTL	661 11						
103	1	030		ORG	2500				2500		
104	1	040		DCW	@. .)15@003%@	10		2509			4
105	1	050			@.)@006@009)17@012%@	18		2527			4
106	1	060			@.&)DC@015%@	10		2537			4
107	1	070			@.\$@006@018)17@012%@	18		2555			5
108	1	080			@.*)DC@015%@	10		2565			5
109	1	090			@.-@006@021)17@012%@	18		2583			6
110	1	100			@./)DC@024%@	10		2593			6
111	1	110			@.%)15@027%@	10		2603			6
112	1	120			@.#)15.010.013%@	14		2617			7
113	1	130			@.@)DC@030%@	10		2627			7
114	1	140			@.?@006@033)07@006@036&@039%@	27		2654			8
115	1	150			@.A)SW@006@042@030%@	18		2672			9
116	1	160			@.B)CW@006@045,@006@048%@	23		2695			10
117	1	170			@.C)B @006@051%@	14		2709			10
118	1	180			@.D)07@006@036&@039%@	19		2728			11
119	1	190			@.E)SW@006@048@030%@	18		2746			11
120	1	200			@.F)CW@006@042,@006@045%@	23		2769			12
121	1	210			@.G)B @006@051%@	14		2783			12
122	1	220			@.H\$)8L)BW\$)2L,@006@045%@	23		2806			13
123	1	230			@.I)B \$)8M%@	10		2816			13
124	1	240			@.!@006@054)07@006@036&@039%@	27		2843			14
125	1	250			@.J)SW@006@045@030%@	18		2861			15
126	2	010			@.K)CW@006@042,@006@048%@	23		2884			16
127	2	020			@.L)B @006@051%@	14		2898			16
128	2	030			@.M\$)0J)01@006@021,@006@057@060%@	31		2929			17
129	2	040			@.N)29\$)8L,@006@063,@066%@	24		2953			18
130	2	050			@.O)B \$)8L%@	10		2963			18
131	2	060			@.P)29\$)0K,@006@063,@069%@	24		2987			19
132	2	070			@.Q)29\$)0M,@006@063,@072%@	24		3011			20
133	2	080			@.R)B @006@075%@	14		3025			20
134	2	090			@.|\$)0K)19@078&@081%@	19		3044			21
135	2	100			@.S)07@006@084&@039,@078&@087%@	29		3073			22
136	2	110			@.T)07@078&@090,@093&@096%@	25		3098			23
137	2	120			@.U)20@006@099,@006@021%@	23		3121			24
138	2	130			@.V)B @024%@	10		3131			24
139	2	140			@.W)01@006@057,@006@021%@	23		3154			25
140	2	150			@.X)01@102&@096,@006@105%@	24		3178			26
141	2	160			@.Y)B \$)0N%@	10		3188			26
142	2	170			@.Z\$)0M)19@078&@081%@	19		3207			27
143	2	180			@.0)SW@006@108&@081%@	19		3226			27
144	2	190			@.1)07@006@084&@039,@078&@111%@	29		3255			28
145	2	200			@.2)B @114&@096%@	15		3270			29
146	2	210			@.3)17@117@120@117%@	18		3288			29
147	2	220			@.4)17@117@120@117%@	18		3306			30

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	2	230			@.5)17@117@120@117%@	18		3324			30
149	2	240			@.6)CW@006@108&@081%@	19		3343			31
150	2	250			@.7)01@006@057,@006@021%@	23		3366			32
151	3	010			@.8)B @006@075%@	14		3380			32
152	3	020			@.9@006@123)07@006@036&@039%@	27		3407			33
153	3	030			@).)CW@006@042,@006@045%@	23		3430			34
154	3	040			@))CW@006@048%@	14		3444			34
155	3	050			@)&@006@051)01@006@021,@006@099@126%@	35		3479			35
156	3	060	DCW		@}@	1		3480			35
157	3	070	END						/ 000 080		36

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

1401 COBOL - DI2 PAGE 1

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
101	1	010	000	JOB	1401 COBOL - DI2						
102	1	020		CTL	661 11						
103	1	030		ORG	2500				2500		
104	1	040		DCW	@)\$)01@006@036&@039,@006@021%@	28		2527			4
105	1	050			@)*01@039&@096,@006@021%@	24		2551			5
106	1	060			@)-01@129&@096,@006@132%@	24		2575			6
107	1	070			@)/)51@111%@	10		2585			6
108	1	080			@)%06@006@135@060%@	18		2603			7
109	1	090			@)#)BW\$)0J,@006@045%@	19		2622			7
110	1	100			@)@)BW\$)0J,@006@048%@	19		2641			8
111	1	110			@)?)08\$)0L,@006@063,@138%@	24		2665			9
112	1	120			@)A\$)8M)19@078&@081%@	19		2684			10
113	1	130			@)B\$)0N)19@078&@081%@	19		2703			10
114	1	140			@)C)MN@024&@096%@	15		2718			11
115	1	150			@)D)06@006@057%@	14		2732			11
116	1	160			@)E)07@006@021%@	14		2746			12
117	1	170			@)F)29\$)1L,@006@132-@072,@138%@	29		2775			13
118	1	180			@)G)29\$)1P,@006@132-@072,%@	25		2800			14
119	1	190			@)H)01@024&@096,@006@141%@	24		2824			15
120	1	200			@)I)06@006@021%@	14		2838			15
121	1	210			@)!)CW@006@144@030%@	18		2856			16
122	1	220			@)J)01@024&@096,@006@147%@	24		2880			17
123	1	230			@)K)06@006@021%@	14		2894			17
124	1	240			@)L)29\$)1K,@006@147,%@	20		2914			18
125	1	250			@)M)SW@006@144%@	14		2928			18
126	2	010			@)N\$)1K)19@078&@081%@	19		2947			19
127	2	020			@)O)01@024&@096,@006@150%@	24		2971			20
128	2	030			@)P)01%@	6		2977			20
129	2	040			@)Q)06@006@021%@	14		2991			21
130	2	050			@)R\$)1L)19@078&@081%@	19		3010			21
131	2	060			@)|\$)0L)19@078&@081%@	19		3029			22
132	2	070			@)S\$)1P)19@078&@081%@	19		3048			22
133	2	080			@)T)BW\$)2N,@006@042%@	19		3067			23
134	2	090			@)U)BW@006@153,@006@042%@	23		3090			24
135	2	100			@)V)29\$)4P,@006@063,@069%@	24		3114			25
136	2	110			@)W)01@006@156,\$)2K&@039%@	24		3138			26
137	2	120			@)X)01@117@159@117,\$)2K%@	23		3161			27
138	2	130			@)Y)01@006@099,@006@021%@	23		3184			28
139	2	140			@)Z)29\$)2K,@006@063,@081%@	24		3208			29
140	2	150			@)0)29\$)2K,@006@132-@072,%@	25		3233			30
141	2	160			@)1)BW\$)2L,@006@048%@	19		3252			31
142	2	170			@)2)29\$)2K,@006@132-@072,@138%@	29		3281			32
143	2	180			@)3)01@117@066@117,@006@162&@165%@	32		3313			33
144	2	190			@)4)01@117@168@117,@006@162&@102%@	32		3345			34
145	2	200			@)5)B @006@171%@	14		3359			35
146	2	210			@)6)29\$)1R,@006@132-@072,@174%@	29		3388			36
147	2	220			@)7)C @006@177&@180,@006@105-@081%@	33		3421			37

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	2	230			@)8)B \$)3L%@		10	3431			38
149	2	240			@)9\$)1R)19@078&@081%@		19	3450			38
150	2	250			@&.)29\$)2L,@006@177&@039,@066%@		29	3479			39
151	3	010			@&)\$)2K)B @024%@		14	3493			40
152	3	020		DCW	@}@		1	3494			40
153	3	030		END					/ 000 080		41

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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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1401 COBOL - DI3 PAGE 1

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
101	1	010	000	JOB	1401 COBOL - DI3						
102	1	020		CTL	661 11						
103	1	030		ORG	2500				2500		
104	1	040		DCW	@&&\$)2L)19@078&@081%@	19		2518			4
105	1	050			@&\$)29\$)2M,@006@183,%@	20		2538			4
106	1	060			@&*)29\$)8R,@006@183,@159%@	24		2562			5
107	1	070			@&-)MN@006@186,@078&@072%@	24		2586			6
108	1	080			@&/)33@024%@	10		2596			6
109	1	090			@&%B \$)2M%@	10		2606			7
110	1	100			@&#)\$)8R)MN@006@186,@078&@072%@	28		2634			7
111	1	110			@&@)34@024%@	10		2644			8
112	1	120			@&?\$)2M)19@078&@081%@	19		2663			8
113	1	130			@&A)BW@006@153,@006@045%@	23		2686			9
114	1	140			@&B)A &@081,@006@150%@	20		2706			10
115	1	150			@&C)29\$)3N,@006@189,%@	20		2726			11
116	1	160			@&D)B \$)3N%@	10		2736			11
117	1	170			@&E)MN@006@186,@006@192@030%@	27		2763			12
118	1	180			@&F)MN@006@189,@006@186%@	23		2786			13
119	1	190			@&G)MN@006@192,@006@189%@	23		2809			14
120	1	200			@&H)\$)2N)19@078&@081%@	19		2828			15
121	1	210			@&I)08@006@153,@006@063,@138%@	28		2856			16
122	1	220			@&!)29\$)2P,@006@183,%@	20		2876			17
123	1	230			@&J)MN@006@186,@078&@072%@	24		2900			18
124	1	240			@&K)33@024%@	10		2910			18
125	1	250			@&L)\$)2P)19@078&@081%@	19		2929			19
126	2	010			@&M)\$)2O)19@078&@081%@	19		2948			19
127	2	020			@&N)S @006@105%@	14		2962			20
128	2	030			@&O)29@006@153,@006@132-@072,%@	29		2991			21
129	2	040			@&P)B @006@153%@	14		3005			22
130	2	050			@&Q)29\$)2Q,@006@132-@072,@138%@	29		3034			23
131	2	060			@&R)01@117@066@117,@006@162&@165%@	32		3066			24
132	2	070			@&| )01@117@168@117,@006@162&@102%@	32		3098			25
133	2	080			@&S)B @006@171%@	14		3112			26
134	2	090			@&T)\$)0O)01&@180,\$)30@030%@	24		3136			26
135	2	100			@&U)\$)4O)05@117@195@117,@006@177&@198%@	36		3172			27
136	2	110			@&V)MN@006@186,@078&@072%@	24		3196			28
137	2	120			@&W)32@024,@006@177%@	19		3215			29
138	2	130			@&X)25\$)5Q%@	10		3225			29
139	2	140			@&Y)\$)2Q)19@078&@081%@	19		3244			30
140	2	150			@&Z)29\$)3P,@006@063,@069%@	24		3268			31
141	2	160			@&0)29\$)2R,@006@132-@072,@138%@	29		3297			32
142	2	170			@&1)29\$)2R,@006@132-@072,@174%@	29		3326			33
143	2	180			@&2)C @006@177&@201,@006@141%@	28		3354			34
144	2	190			@&3)B \$)3J%@	10		3364			34
145	2	200			@&4)29\$)2R,@006@132-@072,@204%@	29		3393			35
146	2	210			@&5)C @006@177&@207,@006@210%@	28		3421			36
147	2	220			@&6)B \$)3J%@	10		3431			36

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	2	230			@&7)C @006@177&@213,@006@216%@	28		3459			37
149	2	240			@&8)B \$)3J%@	10		3469			37
150	2	250			@&9)C @006@177&@219,@006@150%@	28		3497			38
151	3	010		DCW	@}@	1		3498			38
152	3	020		END					/ 000 080		39


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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	010	000	JOB	1401 COBOL - DI4						
102	1	020		CTL	661 11						
103	1	030		ORG	2500				2500		
104	1	040		DCW	@\$.)B \$)3J%@	10		2509			4
105	1	050			@\$)C @006@177&@222,@006@147%@	28		2537			4
106	1	060			@\$&)B \$)3J%@	10		2547			5
107	1	070			@\$\$\$)2R)19@078&@081%@	19		2566			5
108	1	080			@\$*)B @006@153%@	14		2580			6
109	1	090			@\$-\$)3J)07\$)3K&@039%@	19		2599			6
110	1	100			@\$/)BE\$)3K%@	10		2609			7
111	1	110			@\$%)H \$)2R%@	10		2619			7
112	1	120			@\$#)B \$)2N%@	10		2629			7
113	1	130			@\$@\$)3K)B @024%@	14		2643			8
114	1	140			@\$?\$)3L)07\$)3M&@039%@	19		2662			8
115	1	1 50			@\$A)BE\$)3M%@	10		2672			9
116	1	160			@\$B)H \$)1R%@	10		2682			9
117	1	170			@\$C)09@225@024%@	14		2696			9
118	1	180			@\$D)H %@	6		2702			10
119	1	190			@\$E)B @078-@072%@	15		2717			10
120	1	200			@\$F\$)3M)B @024%@	14		2731			10
121	1	210			@\$G\$)3P)19@078&@081%@	19		2750			11
122	1	220			@\$H)29\$)4L,@006@132-@072,@138%@	29		2779			12
123	1	230			@\$I)29@078&@165,@006@132-@180,%@	30		2809			13
124	1	240			@\$!)MN@006@186,@078&@072%@	24		2833			14
125	1	250			@\$J)33@024%@	10		2843			14
126	2	010			@\$K)MN@006@186,@078&@072%@	24		2867			15
127	2	020			@\$L)31@024%@	10		2877			15
128	2	030			@\$M)29\$)4J,@006@177&@081,@159%@	29		2906			16
129	2	040			@\$N)S @006@228@231%@	18		2924			17
130	2	050			@\$O)MN@006@177&@207,@006@228-@081%@	33		2957			18
131	2	060			@\$P)MN%@	6		2963			18
132	2	070			@\$Q)SW@006@177&@234%@	19		2982			19
133	2	080			@\$R)A @006@177&@213,@006@228-@081%@	33		3015			20
134	2	090			@\$|)CW@006@177&@234%@	19		3034			21
135	2	100			@\$S\$)3R)C @006@228-@081,@117@024@039@102@237@117%@	48		3082			23
136	2	110			@\$T)BL\$)4M%@	10		3092			23
137	2	120			@\$U)A @006@177&@240,@006@228-@072%@	33		3125			24
138	2	130			@\$V)C @006@228-@081,@006@243%@	28		3153			25
139	2	140			@\$W)BE\$)4J%@	10		3163			25
140	2	150			@\$X)BH\$)4J%@	10		3173			26
141	2	160			@\$Y)H \$)4J%@	10		3183			26
142	2	170			@\$Z)B \$)2O%@	10		3193			26
143	2	180			@\$0\$)4M)SW@006@177&@246%@	23		3216			27
144	2	190			@\$1)S @117@039@102@237@024@117,@006@228%@	39		3255			28
145	2	200			@\$2)A &@081,@006@177&@240%@	25		3280			29
146	2	210			@\$3)CW@006@177&@246%@	19		3299			30
147	2	220			@\$4)B \$)3R%@	10		3309			30

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	2	230			@\$5\$)4J)B \$)8P%@		14	3323			31
149	2	240			@\$6)01@117@249@117,@006@177&@252%@		32	3355			32
150	2	250			@\$7)01@006@216%@		14	3369			33
151	3	010			@\$8)01@117@255@117%@		18	3387			33
152	3	020			@\$9)01@006@243%@		14	3401			34
153	3	030			@*.)01@006@141%@		14	3415			34
154	3	040			@*)01@117@249@117%@		18	3433			35
155	3	050			@*&)01@006@150%@		14	3447			35
156	3	060			@*\$)01@117@255@117%@		18	3465			36
157	3	070			@***)BW\$)4N,@006@042%@		19	3484			36
158	3	080		DCW	@}@		1	3485			36
159	3	090		END					/ 000 080		37

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

1401 COBOL - DI5

PAGE 1

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
101	1	010	000	JOB	1401 COBOL - DI5						
102	1	020		CTL	661 11						
103	1	030		ORG	2500				2500		
104	1	040		DCW	@*-\$)4K)01@006@147,@006@177&@222%@	32		2531			4
105	1	050			@*/)01@117@081@258@261@066@249@117,@006@177&@072%@	48		2579			6
106	1	060			@*%)01@117@069@117,@006@162&@165%@	32		2611			7
107	1	070			@*#)01@117@264@117,@006@162&@102%@	32		2643			8
108	1	080			@*@)B @006@171%@	14		2657			9
109	1	090			@*?\$)4L)19@078&@081%@	19		2676			9
110	1	100			@*A)B @006@153%@	14		2690			10
111	1	110			@*B\$)4N)BW\$)4K,@006@144%@	23		2713			10
112	1	120			@*C)01@006@177&@180,@006@147%@	28		2741			11
113	1	130			@*D)B \$)4K%@	10		2751			11
114	1	140			@*E\$)4P)19@078&@081%@	19		2770			12
115	1	150			@*F)MN@006@186,@078&@072%@	24		2794			13
116	1	160			@*G)38@024%@	10		2804			13
117	1	170			@*H)29\$)2L,@006@132-@072,%@	25		2829			14
118	1	180			@*I)B \$)2L%@	10		2839			14
119	1	190			@*!)29\$)4R,@006@132-@072,@138%@	29		2868			15
120	1	200			@*J)B \$)8P%@	10		2878			15
121	1	210			@*K)01\$)8Q@267,@006@177&@201%@	28		2906			16
122	1	220			@*L)01\$)8Q%@	10		2916			16
123	1	230			@*M)01@006@105-@081%@	19		2935			17
124	1	240			@*N)01@117@081@270@273@066@249@117%@	34		2969			18
125	1	250			@*O)BW@078&@237,@006@045%@	24		2993			19
126	2	010			@*P)B @078&@111%@	15		3008			19
127	2	020			@*Q)01@117@276@117,@006@177&@039%@	32		3040			20
128	2	030			@*R)01@117@069@117,@006@162&@165%@	32		3072			21
129	2	040			@*|)01@117@264@117,@006@162&@102%@	32		3104			22
130	2	050			@*S)B @006@171%@	14		3118			23
131	2	060			@*T\$)4R)19@078&@081%@	19		3137			23
132	2	070			@*U)MN@006@186,@078&@072%@	24		3161			24
133	2	080			@*V)38@024%@	10		3171			24
134	2	090			@*W)B \$)2L%@	10		3181			25
135	2	100			@*X\$)5Q)MN@006@186,@078&@072%@	28		3209			25
136	2	110			@*Y)31@024%@	10		3219			26
137	2	120			@*Z)S &@081,\$)30%@	16		3235			26
138	2	130			@*0)08\$)40,\$)30,@159%@	20		3255			27
139	2	140			@*1)09@279@282%@	14		3269			27
140	2	150			@*2)H %@	6		3275			28
141	2	160			@*3)B \$)00%@	10		3285			28
142	2	170			@*4\$)8P)07\$)80&@039%@	19		3304			28
143	2	180			@*5)07\$)80-@081,@024&@096%@	25		3329			29
144	2	190			@*6)07@006@021,@006@177&@285%@	28		3357			30
145	2	200			@*7)20@006@177&@180,@006@288@291%@	32		3389			31
146	2	210			@*8\$)8N)CW@024&@096%@	19		3408			32
147	2	220			@*9)20@117@249@117,@024&@096%@	28		3436			33

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	2	230			@-.)07@006@021%@	14		3450			34
149	2	240			@-))C @006@021,&@006@177-@081%@	29		3479			35
150	2	250			@-&)BU\$)8N%@	10		3489			35
151	3	010		DCW	@}@	1		3490			36
152	3	020		END					/ 000 080		37

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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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1401 COBOL - DI6 PAGE 1

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
101	1	010	000	JOB	1401 COBOL - DI6						
102	1	020		CTL	661 11						
103	1	030		ORG	2500				2500		
104	1	040		DCW	@-\$)20@006@288,@006@177&@180%@	28		2527			4
105	1	050			@-*)07@006@021,@024%@	19		2546			5
106	1	060			@--\$)80)B @024%@	14		2560			5
107	1	070			@-/@006@153)19@078&@081%@	23		2583			6
108	1	080			@-%)BW\$)5L,@006@045%@	19		2602			7
109	1	090			@-#)08\$)5O,@006@063,@138%@	24		2626			8
110	1	100			@-@)01@006@057,@006@021%@	23		2649			9
111	1	110			@-?)29\$)5J,@006@132-@072,@138%@	29		2678			10
112	1	120			@-A)29\$)5L,@006@132-@072,%@	25		2703			11
113	1	130			@-B)01@006@141,@024&@096%@	24		2727			12
114	1	140			@-C)51@072%@	10		2737			12
115	1	150			@-D)07@006@021%@	14		2751			13
116	1	160			@-E\$)5J)19@078&@081%@	19		2770			13
117	1	170			@-F\$)5L)19@078&@081%@	19		2789			14
118	1	180			@-G\$)5O)19@078&@081%@	19		2808			14
119	1	190			@-H)01@006@135,@006@021%@	23		2831			15
120	1	200			@-I)01@006@132,@129&@096%@	24		2855			16
121	1	210			@-!)51@111%@	10		2865			16
122	1	220			@-J)BW@006@294,@006@042%@	23		2888			17
123	1	230			@-K)BW@006@075,@006@045%@	23		2911			18
124	1	240			@-L\$)5M)01@006@099,@006@021%@	27		2938			19
125	1	250			@-M@006@036)B @024%@	18		2956			20
126	2	010			@-N@006@294)01@117@297@117,@114&@096%@	36		2992			21
127	2	020			@-O)B \$)5M%@	10		3002			22
128	2	030			@-P@006@075)01@117@159@117,@114&@096%@	36		3038			23
129	2	040			@-Q)CW@006@045%@	14		3052			24
130	2	050			@-R)B \$)5M%@	10		3062			24
131	2	060			@-|\$)3N)09@300@282%@	18		3080			25
132	2	070			@-S)H %@	6		3086			25
133	2	080			@-T)B \$)2N%@	10		3096			25
134	2	090			@-U@006@084)B @024%@	18		3114			26
135	2	100			@-V@006@171)07\$)5P&@039%@	23		3137			27
136	2	110			@-W)01@006@303,@006@162%@	23		3160			28
137	2	120			@-X)05@117@195@117,@006@177&@198%@	32		3192			29
138	2	130			@-Y)MN@006@186,@006@162&@180%@	28		3220			30
139	2	140			@-Z)B @006@306%@	14		3234			31
140	2	150			@-0)09@006@162%@	14		3248			31
141	2	160			@-1)01@006@309,@078&@072%@	24		3272			32
142	2	170			@-2)MN@024%@	10		3282			32
143	2	180			@-3)CW%@	6		3288			33
144	2	190			@-4\$)5P)B @024%@	14		3302			33
145	2	200			@-5@006@303)17@117@312@117%@	26		3328			34
146	2	210			@-6@006@162)17@117@312@117%@	26		3354			35
147	2	220			@-7)17@117@138@180@117%@	22		3376			36

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	2	230			@-8)17&\$)5P%@		11	3387			36
149	2	240			@-9)17@117@264@315@318@024@117%@		30	3417			37
150	2	250			@/.)DC&@006@177%@		15	3432			38
151	3	010			@/))DC@117@066@117%@		18	3450			38
152	3	020			@/&)17@291%@		10	3460			39
153	3	030			@/\$@006@210)19@078%@		18	3478			39
154	3	040			@/*)17@060%@		10	3488			39
155	3	050	DCW		@}@"		1	3489			39
156	3	060	END						/ 000 080		40

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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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1401 COBOL - DI7 PAGE 1

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
101	1	010	000	JOB	1401 COBOL - DI7						
102	1	020		CTL	661 11						
103	1	030		ORG	2500				2500		
104	1	040		DCW	@/-@006@216)19@078%@	18		2517			4
105	1	050			@//@006@150)17@060%@	18		2535			4
106	1	060			@/%@006@147)17@291%@	18		2553			5
107	1	070			@/#@006@141)17@267%@	18		2571			5
108	1	080			@/@@006@132)17@321%@	18		2589			6
109	1	090			@/?@006@324)17@060%@	18		2607			6
110	1	100			@/A@006@177)DA@327@024,@330,@333%@	32		2639			7
111	1	110			@/B@336)17@117@249@249@249@249@117%@	38		2677			8
112	1	120			@/C@006@243)19@336%@	18		2695			9
113	1	130			@/D@006@105)19@006@132-@339%@	27		2722			10
114	1	140			@/E@006@183)19@006@132-@180%@	27		2749			11
115	1	150			@/F@006@156)19@006@132-@102%@	27		2776			12
116	1	160			@/G@006@189)19@006@132-@039%@	27		2803			13
117	1	170			@/H@006@186)19@006@132-@138%@	27		2830			14
118	1	180			@/I@006@063)19@006@132-@081%@	27		2857			15
119	1	190			@/!@006@342)07@006@084&@039%@	27		2884			16
120	1	200			@/J)01@006@021,@006@099%@	23		2907			17
121	1	210			@/K)01@006@084&@039,@006@021%@	28		2935			18
122	1	220			@/L)01@039&@096,@006@021%@	24		2959			19
123	1	230			@/M)01@345&@096,@078&@111%@	25		2984			20
124	1	240			@/N)29\$)7K,@117@081@204@174@117,@024%@	36		3020			21
125	1	250			@/O)51@138%@	10		3030			22
126	2	010			@/P)H @024,@348@237%@	19		3049			22
127	2	020			@/Q)B @006@084%@	14		3063			23
128	2	030			@/R\$)7K)29\$)7J,@024&@096,@315%@	29		3092			24
129	2	040			@/|)C @024&@096%@	15		3107			25
130	2	050			@/S)06@006@021%@	14		3121			25
131	2	060			@/T)B \$)7K%@	10		3131			25
132	2	070			@/U\$)7J)CS@198%@	14		3145			26
133	2	080			@/V)R %@	6		3151			26
134	2	090			@/W)C @351,@117@066@261@168@354@297@117%@	39		3190			27
135	2	100			@/X)BE\$)7L%@	10		3200			28
136	2	110			@/Y)H @024,@357@081%@	19		3219			28
137	2	120			@/Z)B \$)7J%@	10		3229			28
138	2	130			@/0\$)7L)MN@024&@096%@	19		3248			29
139	2	140			@/1)06@006@021%@	14		3262			29
140	2	150			@/2)01@360,@024&@096%@	20		3282			30
141	2	160			@/3)07@006@021%@	14		3296			30
142	2	170			@/4)01@093,@024&@096%@	20		3316			31
143	2	180			@/5)07@006@021%@	14		3330			31
144	2	190			@/6)01@201,@024&@096%@	20		3350			32
145	2	200			@/7)07@006@021%@	14		3364			32
146	2	210			@/8)01@363,@024&@096%@	20		3384			33
147	2	220			@/9)07@006@021%@	14		3398			33

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	2	230			@%.)01@366,@024&@096%@	20		3418			34
149	2	240			@%))01@006@099,@006@021%@	23		3441			35
150	2	250			@%&)B @006@084%@	14		3455			35
151	3	010			@%\$@006@369)07@078&@072%@	23		3478			36
152	3	020			@%*)B @024%@	10		3488			36
153	3	030		DCW	@}@	1		3489			36
154	3	040		END					/ 000 080		37


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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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1401 COBOL - DI8 PAGE 1

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
101	1	010	000	JOB	1401 COBOL - DI8						
102	1	020		CTL	661 11						
103	1	030		ORG	2500				2500		
104	1	040		DCW	@%-@006@372)07@078&@072%@	23		2522			4
105	1	050			@%/)B @024%@	10		2532			4
106	1	060			@%#@006@306)07@006@375&@039%@	27		2559			5
107	1	070			@%#)B @006@372%@	14		2573			6
108	1	080			@%@)B @006@369%@	14		2587			6
109	1	090			@%?)01@006@021,@006@378@126%@	27		2614			7
110	1	100			@%A)01%@	6		2620			7
111	1	110			@%B)01@006@375&@039,@006@021%@	28		2648			8
112	1	120			@%C)01@039&@096,@006@021%@	24		2672			9
113	1	130			@%D)01@165&@096,@006@381&@282%@	29		2701			10
114	1	140			@%E)01@237&@096,@006@384&@039%@	29		2730			11
115	1	150			@%F)01@237&@096,@006@387&@039%@	29		2759			12
116	1	160			@%G)01@345&@096,@006@018%@	24		2783			13
117	1	170			@%H)07@006@390&@102,@345&@393%@	29		2812			14
118	1	180			@%I@006@396)A &@081,@024&@096%@	29		2841			15
119	1	190			@%!)01@117@180@180@117,@006@399%@	31		2872			16
120	1	200			@%J)01%@	6		2878			16
121	1	210			@%K@006@381)RT@024,@024%@	23		2901			17
122	1	220			@%L)07@006@309@060%@	18		2919			18
123	1	230			@%M)07@006@402&@102%@	19		2938			18
124	1	240			@%N)29@006@405,@006@381&@282,@069%@	33		2971			19
125	1	250			@%O@006@387)24@024%@	18		2989			20
126	2	010			@%P@006@390)29@006@402,@024,@195%@	32		3021			21
127	2	020			@%Q)51@345%@	10		3031			22
128	2	030			@%R@006@405)25@006@408%@	22		3053			22
129	2	040			@%|)25@006@408%@	14		3067			23
130	2	050			@%S@006@384)24@024%@	18		3085			23
131	2	060			@%T@006@411)19@078&@081%@	23		3108			24
132	2	070			@%U)01@006@378,@006@021%@	23		3131			25
133	2	080			@%V)01%@	6		3137			25
134	2	090			@%W@006@375)B @024%@	18		3155			26
135	2	100			@%X@006@408)29@006@414,@006@399,@180%@	36		3191			27
136	2	110			@%Y@006@417)S &@081,@006@399%@	28		3219			28
137	2	120			@%Z)BM@006@420&@072,@006@399%@	28		3247			29
138	2	130			@%0)MN@006@381&@039,@078&@072%@	29		3276			30
139	2	140			@%1)31@024%@	10		3286			30
140	2	150			@%2)29@078&@180,@006@381&@282,@066%@	34		3320			31
141	2	160			@%3)29@006@423,@006@399,@333%@	28		3348			32
142	2	170			@%4)B @006@381%@	14		3362			33
143	2	180			@%5@006@414)29@006@426,@006@381&@282,@066%@	41		3403			35
144	2	190			@%6)S &@081,@138&@096%@	21		3424			35
145	2	200			@%7)BM@006@429,@138&@096%@	24		3448			36
146	2	210			@%8@006@414)S &@081,@138&@096%@	29		3477			37
147	2	220		DCW	@}@	1		3478			37

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	2	230		END					/ 000 080		38

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

1401 COBOL - DI9 PAGE 1

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
101	1	010	000	JOB	1401 COBOL - DI9						
102	1	020		CTL	661 11						
103	1	030		ORG	2500				2500		
104	1	040		DCW	@%9)BM@006@432,@138&@096%@	24		2523			4
105	1	050			@#. @006@414)S &@081,@138&@096%@	29		2552			5
106	1	060			@#))BM@006@429,@138&@096%@	24		2576			6
107	1	070			@#&)B @006@417%@	14		2590			6
108	1	080			@#\$@006@426)S &@081,@138&@096%@	29		2619			7
109	1	090			@#*)BM@006@432,@138&@096%@	24		2643			8
110	1	100			@#-)B @006@417%@	14		2657			8
111	1	110			@#/@006@402)MN@117@180@180@117,@024%@	35		2692			9
112	1	120			@#%)MN%@	6		2698			10
113	1	130			@##)ZS&@138,@024&@096%@	21		2719			10
114	1	140			@#@)B @006@381%@	14		2733			11
115	1	150			@#?@006@423)24@006@435%@	22		2755			11
116	1	160			@#A)S &@081,@006@438%@	20		2775			12
117	1	170			@#B)BM@006@441,@006@438%@	23		2798			13
118	1	180			@#C@006@444)MN@006@381&@039,@078&@072%@	37		2835			14
119	1	190			@#D)35@024%@	10		2845			15
120	1	200			@#E)01@117@180@180@117,@006@399%@	31		2876			16
121	1	210			@#F)B @006@381%@	14		2890			17
122	1	220			@#G@006@420)19@078-@039%@	23		2913			17
123	1	230			@#H)B @006@396%@	14		2927			18
124	1	240			@#I)H @024,@447@072%@	19		2946			18
125	1	250			@#!)MN@006@381&@039,@078&@072%@	29		2975			19
126	2	010			@#J)31@024%@	10		2985			19
127	2	020			@#K)01@006@381&@102,@078&@282%@	29		3014			20
128	2	030			@#L)RT@024,@024%@	15		3029			21
129	2	040			@#M)H @024,@450@072%@	19		3048			21
130	2	050			@#N)30@006@411,@333%@	19		3067			22
131	2	060			@#O)B @006@396%@	14		3081			22
132	2	070			@#P@006@432)01@117@072@180@117,@138&@096%@	40		3121			24
133	2	080			@#Q)09@456@024%@	14		3135			24
134	2	090			@#R)H %@	6		3141			24
135	2	100			@#|)B @006@417%@	14		3155			24
136	2	110			@#S@006@429)01@117@138@180@117,@138&@096%@	40		3195			26
137	2	120			@#T)09@459@024%@	14		3209			26
138	2	130			@#U)H %@	6		3215			26
139	2	140			@#V)B @006@417%@	14		3229			26
140	2	150			@#W@006@441)01@117@180@117,@006@438%@	35		3264			27
141	2	160			@#X)09@462@024%@	14		3278			28
142	2	170			@#Y)H %@	6		3284			28
143	2	180			@#Z)B @006@444%@	14		3298			28
144	2	190			@#0@006@435)01@237&@096,@006@375&@039%@	37		3335			29
145	2	200			@#1)09@465@024%@	14		3349			30
146	2	210			@#2)H %@	6		3355			30
147	2	220			@#3)B @006@423&@237%@	19		3374			30

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	2	230			@#4@006@438)17@117@180@117%@	26		3400			31
149	2	240			@#5@006@399)17@117@180@117%@	26		3426			32
150	2	250			@#6@006@468)DC@030%@	18		3444			33
151	3	010		DCW	@}@	1		3445			33
152	3	020		END					/ 000 080		34

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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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1401 COBOL - DT1 PAGE 1

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
101	1	010	000	JOB	1401 COBOL - DT1						
102	1	020		CTL	661 11						
103	1	030		ORG	2500				2500		
104	1	040		DCW	@)17@003@006@003%@	18		2517			4
105	1	050			@ .)17@003@006@003%@	18		2535			4
106	1	060		DCW	@))17@003.010.013@003%@	22		2557			5
107	1	070		DCW	@ &)17@009%@	10		2567			5
108	1	080		DCW	@ \$)17@003.010@003%@	18		2585			6
109	1	090		DCW	@ *)17@012%@	10		2595			6
110	1	100			@ -)17@003.010@003%@	18		2613			7
111	1	110			@ /)17@003@015@015@018@003%@	26		2639			8
112	1	120			@ %)17@003.010.013@003%@	22		2661			9
113	1	130			@ #)17@009%@	10		2671			9
114	1	140			@ @)17@003.010.013.016.019.022@003%@	34		2705			10
115	1	150			@ ?)17@021%@	10		2715			11
116	1	160			@ A)17@003@024@003%@	18		2733			11
117	1	170			@ B)17&@027@027%@	15		2748			12
118	1	180			@ C)17@003@030@003%@	18		2766			12
119	1	190			@ D)17@003@033@003%@	18		2784			13
120	1	200			@ E)17@003@036@003%@	18		2802			13
121	1	210			@ F)17@003@036@036@036@003%@	26		2828			14
122	1	220			@ G)17@003@036@003%@	18		2846			15
123	1	230			@ H)17@003@018@003%@	18		2864			15
124	1	240			@ I)17@003@039@003%@	18		2882			16
125	1	250			@ !)17@003@030@003%@	18		2900			16
126	2	010			@ J)17@003@036@003%@	18		2918			17
127	2	020			@ K)17@003.010@003%@	18		2936			17
128	2	030			@ L)17@003@036@003%@	18		2954			18
129	2	040			@ M)17@003.010@003%@	18		2972			18
130	2	050			@ N)17@003@036@003%@	18		2990			19
131	2	060			@ O)17@003@042@003%@	18		3008			19
132	2	070			@ P)17@003@045@003%@	18		3026			20
133	2	080			@ Q)17@003@018@003%@	18		3044			20
134	2	090			@ R)17@003@048@003%@	18		3062			21
135	2	100			@ |)17@003@051@003%@	18		3080			21
136	2	110			@ S)17@003@054@003%@	18		3098			22
137	2	120			@ T.010.013)B @057@060%@	22		3120			23
138	2	130			@ U)B @006&@063%@	15		3135			23
139	2	140			@ V)B \$)2M%@	10		3145			24
140	2	150			@ W)01@057@066,@057@069%@	23		3168			24
141	2	160			@ X)01@057@060&@072,@057@066%@	28		3196			25
142	2	170			@ Y)MN@01 5&@075%@	15		3211			26
143	2	180			@ Z)06@057@066%@	14		3225			26
144	2	190			@ 0)01@015&@075,.010.013-@078%@	29		3254			27
145	2	200			@ 1)C %@	6		3260			27
146	2	210		DCW	@}@	1		3261			27
147	2	220		END					/ 000 080		28

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

1401 COBOL - DT2

PAGE 1

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
101	1	010	000	JOB	1401 COBOL - DT2						
102	1	020		CTL	661 11						
103	1	030		ORG	2500				2500		
104	1	040		DCW	@ 2)C @01 5&@075%@		15	2514			4
105	1	050			@ 3)C %@		6	2520			4
106	1	060			@ 4)06@057@066%@		14	2534			4
107	1	070			@ 5)01@015&@075,\$)1M&@081%@		25	2559			5
108	1	080			@ 6)01\$)2Q,@057@066%@		19	2578			6
109	1	090			@ 7)29\$)2L,.010.013&@075,@084%@		29	2607			7
110	1	100			@ 8\$)0M)02.010.013&@075,.016.019%@		32	2639			8
111	1	110			@ 9)07\$)2Q,.010&@075%@		20	2659			9
112	1	120			@.)B \$)2L%@		10	2669			9
113	1	130			@. .\$)0M)29@006&@087,\$)1M&@081,@090%@		34	2703			10
114	1	140			@.)\$)1M)02.010.013&@075,@015%@		28	2731			11
115	1	150			@. [)07\$)2Q,.010&@075%@		20	2751			12
116	1	160			@. &\$)7L)19@006&@018%@		19	2770			12
117	1	170			@. \$)02.010.013,.016.019%@		23	2793			13
118	1	180			@. *)29@006&@087,\$)1M&@081,@090%@		30	2823			14
119	1	190			@. -\$)1M)02.010.013,@015%@		23	2846			15
120	1	200			@. /)01@057@069,@057@066%@		23	2869			16
121	1	210			@. %)B @057@060%@		14	2883			16
122	1	220			@. #)09.010.013%@		14	2897			17
123	1	230			@. @\$)2Q)19@006%@		14	2911			17
124	1	240			@. ?)09.010.013%@		14	2925			18
125	1	250			@. A\$)4Q)19@006%@		14	2939			18
126	2	010			@. B\$)2L)19@006&@018%@		19	2958			19
127	2	020			@. C)MN.010.013-@072,\$)1K&@093%@		29	2987			20
128	2	030			@. D)B @057@096%@		14	3001			21
129	2	040			@. E)09\$)1K%@		10	3011			21
130	2	050			@. F)S @057@066&@018%@		19	3030			22
131	2	060			@. G)A @003@018@003,.010.013-@099%@		32	3062			23
132	2	070			@. H)01@057@102,@057@066%@		23	3085			24
133	2	080			@. I)MN@015&@075%@		15	3100			24
134	2	090			@. !)05@003@084@003%@		18	3118			25
135	2	100			@. J)07\$)2Q,@015%@		15	3133			25
136	2	110			@. K)B \$)7L%@		10	3143			26
137	2	120			@. L)B \$)0M%@		10	3153			26
138	2	130			@. M\$)1K)17@003@105@003%@		22	3175			27
139	2	140			@. N)17@003@045@093@003%@		22	3197			28
140	2	150			@. O)17\$)2K%@		10	3207			28
141	2	160			@. P)RT.010,.013.016&@108%@		24	3231			29
142	2	170			@. Q\$)2K)19@006&@018%@		19	3250			30
143	2	180			@. R)01@057@069,@057@066%@		23	3273			31
144	2	190		DCW	@}@"		1	3274			31
145	2	200		END					/ 000 080		32

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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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1401 COBOL - DT3 PAGE 1

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
101	1	010	000	JOB	1401 COBOL - DT3						
102	1	020		CTL	661 11						
103	1	030		ORG	2500				2500		
104	1	040		DCW	@. | )01@057@111,@057@114%@		23	2522			4
105	1	050			@.S)01%@		6	2528			4
106	1	060			@.T)01@003@036@003,.010.013&@018&@108%@		37	2565			5
107	1	070			@.U)B @057@117%@		14	2579			6
108	1	080			@.V)09.010.013-@120%@		19	2598			6
109	1	090			@.W)07\$)1K&@042,@123@093%@		24	2622			7
110	1	100			@.X)B \$)2L%@		10	2632			7
111	1	110			@.Y\$)2M)19@006&@018%@		19	2651			8
112	1	120			@.Z)01\$)4Q,\$)2Q%@		15	2666			8
113	1	130			@.0)B @057@060%@		14	2680			9
114	1	140			@.1)CW\$)9M%@		10	2690			9
115	1	150			@.2)01@057@066,@057@069%@		23	2713			10
116	1	160			@.3)01@057@060&@072,@057@066%@		28	2741			11
117	1	170			@.4)MN@015&@075%@		15	2756			12
118	1	180			@.5)C %@		6	2762			12
119	1	190			@.6)C %@		6	2768			12
120	1	200			@.7)06@057@066%@		14	2782			13
121	1	210			@.8)01@015&@075,\$)1M&@072%@		25	2807			13
122	1	220			@.9\$)3M)19@006&@018%@		19	2826			14
123	1	230			@))01\$)2Q,@057@066%@		19	2845			14
124	1	240			@))07\$)1M&@081,.010.013&@075%@		29	2874			15
125	1	250			@))07\$)5M&@081,.010.013&.016&@075%@		34	2908			16
126	2	010			@)[)07\$)2Q,.010&@075%@		20	2928			17
127	2	020			@)&)01@057@069,@057@066%@		23	2951			18
128	2	030			@)\$)\$)1M)19@006&@018%@		19	2970			19
129	2	040			@)*)02@015,@015%@		15	2985			19
130	2	050			@)-)02.010.013,@015%@		19	3004			20
131	2	060			@)/)02.010.013,.016.019%@		23	3027			21
132	2	070			@)%)29@006&@087,\$)1M&@072,@090%@		30	3057			22
133	2	080			@)#\$)1M)02@015,.010.013%@		23	3080			23
134	2	090			@)@\$)5M)29\$)2L,@015,@084%@		24	3104			24
135	2	100			@)?)B \$)2L%@		10	3114			24
136	2	110			@)A)BW\$)3M,\$)9M@126%@		19	3133			25
137	2	120			@)B\$)2P)19@006&@018%@		19	3152			25
138	2	130			@)C)B @057@060%@		14	3166			26
139	2	140			@)D\$)2Q)17@027%@		14	3180			26
140	2	150			@)E\$)2L)19@006&@018%@		19	3199			27
141	2	160			@)F)CW\$)9M%@		10	3209			27
142	2	170			@)G)A @003@018@003,.010.013-@099%@		32	3241			28
143	2	180			@)H)MN.010.013-@072,\$)1K&@093%@		29	3270			29
144	2	190		DCW	@} @		1	3271			29
145	2	200		END					/ 000 080		30

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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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1401 COBOL - DT4 PAGE 1

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
101	1	010	000	JOB	1401 COBOL - DT4						
102	1	020		CTL	661 11						
103	1	030		ORG	2500				2500		
104	1	040		DCW	@)I)B @057@096%@	14		2513			4
105	1	050			@)!)09\$)1K%@	10		2523			4
106	1	060			@)J\$)3L)19@006&@018%@	19		2542			5
107	1	070			@)K)07\$)2Q,@015%@	15		2557			5
108	1	080			@)L)B \$)2P%@	10		2567			6
109	1	090			@)M\$)1K)17@003@105@003%@	22		2589			6
110	1	100			@)N)17@003@042@093@003%@	22		2611			7
111	1	110			@)O)17\$)2K%@	10		2621			7
112	1	120			@)P)WT.010,.013.016&@108%@	24		2645			8
113	1	130			@)Q\$)2K)19@006&@018%@	19		2664			9
114	1	140			@)R)01@057@069,@057@066%@	23		2687			10
115	1	150			@)|)01@057@111,@057@114%@	23		2710			11
116	1	160			@)S)01%@	6		2716			11
117	1	170			@)T)B @057@117%@	14		2730			12
118	1	180			@)U)09.010.013-@120%@	19		2749			12
119	1	190			@)V)07\$)1K&@042,@129@093%@	24		2773			13
120	1	200			@)W)B \$)3L%@	10		2783			13
121	1	210			@)X\$)2M)19@006&@018%@	19		2802			14
122	1	220			@)Y)B @057@060%@	14		2816			14
123	1	230			@)Z)C \$)2Q,@003@015@015@015@003%@	31		2847			15
124	1	240			@)0)BE@057@060%@	14		2861			16
125	1	250			@)1)01@057@066,@057@069%@	23		2884			16
126	2	010			@)2)07@057@066,.010.013-@018%@	28		2912			17
127	2	020			@)3)07@057@066,.010.013&@108%@	28		2940			18
128	2	030			@)4)MA\$)2Q,@057@066%@	19		2959			19
129	2	040			@)5)07\$)1M&@072,@015&@075%@	25		2984			20
130	2	050			@)6)MN@015&@075%@	15		2999			21
131	2	060			@)7)06\$)2R@012%@	14		3013			21
132	2	070			@)8)01.010.013-@081,.016-@042&@075%@	34		3047			22
133	2	080			@)9)01.010.013-@081,.016-@018&@075%@	34		3081			23
134	2	090			@[)07@057@066%@	14		3095			24
135	2	100			@[.)\$)3P)01.010.013-@081,@015&@075%@	33		3128			25
136	2	110			@[)07@057@066%@	14		3142			26
137	2	120			@[()C @057@066,\$)2R%@	19		3161			26
138	2	130			@[&)C @057@066,&.010.013-@018%@	29		3190			27
139	2	140			@[\$)BU\$)3P%@	10		3200			27
140	2	150			@[*)SW\$)9M%@	10		3210			28
141	2	160			@[-)B \$)3M%@	10		3220			28
142	2	170			@[/)01@057@066,@057@069%@	23		3243			29
143	2	180			@[%)01@057@060&@072,@057@066%@	28		3271			30
144	2	190		DCW	@} @	1		3272			30
145	2	200		END					/ 000 080		31


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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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1401 COBOL - DT5 PAGE 1

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
101	1	010	000	JOB	1401 COBOL - DT5						
102	1	020		CTL	661 11						
103	1	030		ORG	2500				2500		
104	1	040		DCW	@(#)MN@015&@075%@	15		2514			4
105	1	050			@(@)06@057@066%@	14		2528			4
106	1	060			@(?)01@015&@075,.010.013-@078%@	29		2557			5
107	1	070			@(A)C %@	6		2563			5
108	1	080			@(B)C @015&@075%@	15		2578			6
109	1	090			@(C)C %@	6		2584			6
110	1	100			@(D)06@057@066%@	14		2598			6
111	1	110			@(E)01@015&@075,\$)1M&@081%@	25		2623			7
112	1	120			@(F)BW\$)2L,\$)9L@126%@	19		2642			8
113	1	130			@(G)C .010.013&@072,&@027@045%@	29		2671			9
114	1	140			@(H)BE\$)2L%@	10		2681			9
115	1	150			@(I\$)7L)01\$)2Q,@057@066%@	23		2704			10
116	1	160			@(!)02.010.013&@075,.016.019%@	28		2732			11
117	1	170			@(J)MA.010.013&.016-@018,\$)2Q%@	29		2761			12
118	1	180			@(K)S .010.013&.016-@018,.019.022&@072%@	38		2799			13
119	1	190			@(L)29@006&@087,\$)1M&@081,@090%@	30		2829			14
120	1	200			@(M\$)1M)02.010.013&@075,@015%@	28		2857			15
121	1	210			@(N)MA.010.013&.016-@018&@075,\$)2Q%@	34		2891			16
122	1	220			@(O)S .010.013&.016-@018&@075,.019.022&@072%@	43		2934			18
123	1	230			@(P)01@057@069,@057@066%@	23		2957			18
124	1	240			@(Q)B @057@060%@	14		2971			19
125	1	250			@(R\$)2Q)17@132%@	14		2985			19
126	2	010			@(|\$)2L)19@006&@018%@	19		3004			20
127	2	020			@(S)MN.010.013-@072,\$)1K&@093%@	29		3033			21
128	2	030			@(T)B @057@096%@	14		3047			22
129	2	040			@(U)09\$)1K%@	10		3057			22
130	2	050			@(V)CW\$)9L%@	10		3067			22
131	2	060			@(W)07\$)2Q,@045%@	15		3082			23
132	2	070			@(X)A @003@018@003,.010.013-@099%@	32		3114			24
133	2	080			@(Y)B \$)7L%@	10		3124			25
134	2	090			@(Z\$)1K)17@003@105@003%@	22		3146			25
135	2	100			@(0)17@003@045@093@003%@	22		3168			26
136	2	110			@(1)17\$)2K%@	10		3178			26
137	2	120			@(2)RT.010,.013.016&@108%@	24		3202			27
138	2	130			@(3\$)2K)01@057@069,@057@066%@	27		3229			28
139	2	140			@(4)01@057@111,@057@114%@	23		3252			29
140	2	150			@(5)01%@	6		3258			29
141	2	160			@(6)01@003@036@003,.010.013&@018&@108%@	37		3295			30
142	2	170		DCW	@}@"	1		3296			30
143	2	180		END					/ 000 080		31

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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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1401 COBOL - DT6 PAGE 1

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
101	1	010	000	JOB	1401 COBOL - DT6						
102	1	020		CTL	661 11						
103	1	030		ORG	2500				2500		
104	1	040		DCW	@(7)B @057@117%@	14		2513			4
105	1	050			@(8)09.010.013-@120%@	19		2532			4
106	1	060			@(9)07\$)1K&@042,@123@093%@	24		2556			5
107	1	070			@&)B \$)2L%@	10		2566			5
108	1	080			@&.\$)2M)01&@027@045,.010.013&@072%@	33		2599			6
109	1	090			@&))B @057@060%@	14		2613			7
110	1	100			@&[)SW\$)9J%@	10		2623			7
111	1	110			@&&)01@057@066,@057@069%@	23		2646			8
112	1	120			@&.\$)07\$)8J&@081,@015&@135%@	25		2671			9
113	1	130			@&*)01@057@060&@072,@057@066%@	28		2699			10
114	1	140			@&-)MN@015&@075%@	15		2714			11
115	1	150			@&/)C %@	6		2720			11
116	1	160			@&%)C %@	6		2726			11
117	1	170			@&#)06@057@066%@	14		2740			12
118	1	180			@&@)01@015&@075,@057@114%@	24		2764			12
119	1	190			@&?)29\$)9R,@057@114,@090%@	24		2788			13
120	1	200			@&A \$)7L)A .010.013&.016-@018,\$)4Q%@	33		2821			14
121	1	210			@&B\$)7L)A .010-@018&@135,\$)4Q%@	29		2850			15
122	1	220			@&C)01\$)2Q,@057@066%@	19		2869			16
123	1	230			@&D)C \$)5Q,\$)4Q%@	15		2884			16
124	1	240			@&E)BH\$)2L%@	10		2894			17
125	1	250			@&F)A .010.013&.016-@018,.019.022&@072%@	38		2932			18
126	2	010			@&G)A .010-@018&@135,.013.016&@072%@	34		2966			19
127	2	020			@&H)02.010.013,.016.019&@075%@	28		2994			20
128	2	030			@&I)02@015&@135,.010.013&@075%@	29		3023			21
129	2	040			@&!)MA.010.013&.016-@018,\$)2Q%@	29		3052			22
130	2	050			@&J)MA.010-@018&@135,\$)2Q%@	25		3077			23
131	2	060			@&K)01@057@069,@057@066%@	23		3100			24
132	2	070			@&L\$)8J)07@057@114,@015%@	23		3123			25
133	2	080			@&M)B @057@060%@	14		3137			25
134	2	090			@&N\$)2L)05@003@084@003,.010.013&@075%@	36		3173			26
135	2	100			@&O)A &@045,.010.013&@072%@	25		3198			27
136	2	110			@&P)07\$)3K&@072,.010.013&@075%@	29		3227			28
137	2	120		DCW	@} @	1		3228			28
138	2	130		END					/ 000 080		29

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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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1401 COBOL - DT7 PAGE 1

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
101	1	010	000	JOB	1401 COBOL - DT7						
102	1	020		CTL	661 11						
103	1	030		ORG	2500				2500		
104	1	040		DCW	@&Q)MZ@003@138@003,.010.013&@072%@	32		2531			4
105	1	050			@&R)A @003@018@003,.010.013-@099%@	32		2563			5
106	1	060			@&|)MN.010.013-@072,\$)1K&@093%@	29		2592			6
107	1	070			@&S)B @057@096%@	14		2606			7
108	1	080			@&T)09\$)1K%@	10		2616			7
109	1	090			@&U\$)3K)CW@015%@	14		2630			7
110	1	100			@&V)ZA&@045,\$)4Q%@	16		2646			8
111	1	110			@&W)07\$)2Q,@045%@	15		2661			8
112	1	120			@&X)S .010.013&@072%@	19		2680			9
113	1	130			@&Y)BW\$)7L,\$)9J%@	15		2695			9
114	1	140			@&Z)B \$)9K%@	10		2705			10
115	1	150			@&0\$)9R)H @015,@141@093%@	23		2728			10
116	1	160			@&1)B \$)9R%@	10		2738			11
117	1	170			@&2\$)2Q)17@132%@	14		2752			11
118	1	180			@&3\$)4Q)17&@027@045%@	19		2771			12
119	1	190			@&4\$)5Q)17&.010.013%@	19		2790			12
120	1	200			@&5\$)1K)17@003@105@003%@	22		2812			13
121	1	210			@&6)17@003@042@093@003%@	22		2834			14
122	1	220			@&7)17\$)2K%@	10		2844			14
123	1	230			@&8)WT.010,.013.016&@108%@	24		2868			15
124	1	240			@&9\$)2K)01@057@069,@057@066%@	27		2895			16
125	1	250			@\$)01@057@111,@057@114%@	23		2918			17
126	2	010			@\$.)01%@	6		2924			17
127	2	020			@\$)B @057@117%@	14		2938			18
128	2	030			@\$[)09.010.013-@120%@	19		2957			18
129	2	040			@\$&)07\$)1K&@042,@129@093%@	24		2981			19
130	2	050			@\$\$)B \$)3K%@	10		2991			19
131	2	060			@\$*\$)2M)C \$)2Q,@003@015@015@045@003%@	35		3026			20
132	2	070			@\$-)BE@057@060%@	14		3040			21
133	2	080			@\$/)01@057@066,@057@069%@	23		3063			21
134	2	090			@\$%)01\$)2Q,@057@066%@	19		3082			22
135	2	100			@\$#)CW\$)9J@126%@	14		3096			22
136	2	110			@\$@)B \$)2L%@	10		3106			23
137	2	120			@\$?\$)9K)01@057@069,@057@066%@	27		3133			23
138	2	130			@\$A)B @057@060%@	14		3147			24
139	2	140			@\$B\$)0N)09\$)5Q%@	14		3161			24
140	2	150			@\$C)01@057@066,@057@069%@	23		3184			25
141	2	160			@\$D)01@057@060&@072,@057@066%@	28		3212			26
142	2	170			@\$E)MN@015&@075%@	15		3227			27
143	2	180			@\$F)06@057@066%@	14		3241			27
144	2	190			@\$G)01@015&@075,.010.013-@078%@	29		3270			28
145	2	200		DCW	@}@"	1		3271			28
146	2	210		END					/ 000 080		29

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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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1401 COBOL - DT8 PAGE 1

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
101	1	010	000	JOB	1401 COBOL - DT8						
102	1	020		CTL	661 11						
103	1	030		ORG	2500				2500		
104	1	040		DCW	@@\$H)C @015&@075%@	15		2514			4
105	1	050			@@\$I)06@057@066%@	14		2528			4
106	1	060			@@\$!)01@015&@075,\$)2R%@	20		2548			5
107	1	070			@@\$J)C @015&@075%@	15		2563			5
108	1	080			@@\$K)06@057@066%@	14		2577			6
109	1	090			@@\$L)01@015&@075,\$)3R&@081%@	25		2602			6
110	1	100			@@\$M)20@057@069,@057@066%@	23		2625			7
111	1	110			@@\$N)BW\$)OR,\$)0K@126%@	19		2644			8
112	1	120			@@\$O)BW\$)OM,@057@144%@	19		2663			8
113	1	130			@@\$P\$)OR)CW\$)0K%@	14		2677			9
114	1	140			@@\$Q)B @057@147%@	14		2691			9
115	1	150			@@\$R)R %@	6		2697			9
116	1	160			@@\$|)01@003@150@003,\$)4J%@	23		2720			10
117	1	170			@@\$S\$)OR)R %@	10		2730			10
118	1	180			@@\$T\$)OM)19@006&@018%@	19		2749			11
119	1	190			@@\$U)26\$)0J,@153%@	15		2764			11
120	1	200			@@\$V)SS.010%@	10		2774			12
121	1	210			@@\$W\$)2R)17@003@150@015@003%@	26		2800			12
122	1	220			@@\$X)02@018,.010.013%@	19		2819			13
123	1	230			@@\$Y)29@006&@087,@006&@078,@090%@	30		2849			14
124	1	240			@@\$Z\$)3R)02@018,@015%@	19		2868			15
125	1	250			@@\$0)27\$)0P%@	10		2878			15
126	2	010			@@\$1\$)4J)09\$)0L%@	14		2892			16
127	2	020			@@\$2)12%@	6		2898			16
128	2	030			@@\$3\$)0L)19@006&@018%@	19		2917			16
129	2	040			@@\$4)CW@057@144%@	14		2931			17
130	2	050			@@\$5\$)2M)B @057@060%@	18		2949			17
131	2	060			@@\$6\$)0J)H @015,@156@018%@	23		2972			18
132	2	070			@@\$7)B \$)OR%@	10		2982			18
133	2	080			@@\$8\$)0P)01@003@033@003,\$)0N%@	27		3009			19
134	2	090			@@\$9)SW@057@144%@	14		3023			20
135	2	100			@@*\$)B \$)0L%@	10		3033			20
136	2	110			@@*.\$)5Q)20@003@150@003,\$)0N%@	27		3060			21
137	2	120			@@*)B @057@117%@	14		3074			22
138	2	130			@@*[)09.010.013-@120%@	19		3093			22
139	2	140			@@*&@057@159)07\$)6Q&@072%@	23		3116			23
140	2	150			@@*\$)BW\$)6Q,@057@144@126%@	23		3139			24
141	2	160			@@**\$)B @057@147%@	14		3153			24
142	2	170			@@*-)27\$)7Q%@	10		3163			25
143	2	180			@@*/)R %@	6		3169			25
144	2	190			@@*%)SS.010%@	10		3179			25
145	2	200			@@*#)\$)7Q)01@003@033@003,\$)4J%@	27		3206			26
146	2	210			@@*@\$)SW@057@144%@	14		3220			27
147	2	220			@@*?\$)6Q)B @015%@	14		3234			27

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	2	230			@*A@162)17@003@165@003%@		22	3256			28
149	2	240		DCW	@}@		1	3257			28
150	2	250		END					/ 000 080		29

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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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1401 COBOL - DT9 PAGE 1

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
101	1	010	000	JOB	1401 COBOL - DT9						
102	1	020		CTL	661 11						
103	1	030		ORG	2500				2500		
104	1	040		DCW	@*B)01@138@168@171,@057@069%@	27		2526			4
105	1	050			@*C)01@057@060&@072,@057@066%@	28		2554			5
106	1	060			@*D)MN@015&@075%@	15		2569			6
107	1	070			@*E)C %@	6		2575			6
108	1	080			@*F)06@057@066%@	14		2589			6
109	1	090			@*G)20@015&@075,\$)2R%@	20		2609			7
110	1	100			@*H)MN@015&@075%@	15		2624			7
111	1	110			@*I)06@057@066%@	14		2638			8
112	1	120			@*!)01@015&@075,\$)1M&@072%@	25		2663			8
113	1	130			@*J)B @057@159%@	14		2677			9
114	1	140			@*K)20@057@069,@057@066%@	23		2700			9
115	1	150			@*L\$)1L)19@006&@018%@	19		2719			10
116	1	160			@*M)02.010.013,@174%@	19		2738			10
117	1	170			@*N)29@006&@087,\$)1M&@072,@090%@	30		2768			11
118	1	180			@*O\$)1M)02@015,@174%@	19		2787			12
119	1	190			@*P@057@177)09@180@087%@	22		2809			13
120	1	200			@*Q)DC@003@015@003%@	18		2827			14
121	1	210			@*R)P %@	6		2833			14
122	1	220			@*|)BW@006&@063,\$)4K%@	20		2853			15
123	1	230			@*S)B \$)5K%@	10		2863			15
124	1	240			@*T\$)5L)19@006&@018%@	19		2882			16
125	1	250			@*U)SW\$)4K@126%@	14		2896			16
126	2	010			@*V)26\$)0K,@183%@	15		2911			17
127	2	020			@*W)02@174,\$)1Q%@	15		2926			17
128	2	030			@*X)BW@006&@072,@057@177&@018%@	29		2955			18
129	2	040			@*Y)BW@006&@045,@057@177&@018%@	29		2984			19
130	2	050			@*Z)SS.010%@	10		2994			19
131	2	060			@*0)BW@006&@099,@057@177&@018%@	29		3023			20
132	2	070			@*1)29@006&@072,\$)2R,@090%@	25		3048			21
133	2	080			@*2\$)2R)17@003@105@015@003%@	26		3074			22
134	2	090			@*3)13%@	6		3080			22
135	2	100			@*4)20\$)2R,\$)3R%@	15		3095			23
136	2	110			@*5)CW@057@186%@	14		3109			23
137	2	120			@*6\$)2M)B @057@060%@	18		3127			24
138	2	130			@*7\$)0K)02\$)1Q,@174%@	19		3146			24
139	2	140			@*8)P %@	6		3152			25
140	2	150			@*9)26@006&@018,@183%@	20		3172			25
141	2	160			@-)SS.010%@	10		3182			25
142	2	170			@-.)29@006&@072,\$)3R,@090%@	25		3207			26
143	2	180			@-) \$)3R)17@003@105@015@003%@	26		3233			27
144	2	190			@-[)A @003@018@003,\$)0M@189%@	27		3260			28
145	2	200			@-&)29\$)0N,\$)0M-@018,@018%@	25		3285			29
146	2	210			@-\$)B \$)1L%@	10		3295			29
147	2	220			@-*\$)2N)BW\$)1L,\$)4K%@	19		3314			30

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	2	230			@--)B \$)3J%@		10	3324			30
149	2	240			@-/\$)0N)S \$)0M%@		14	3338			31
150	2	250			@-%)H @015,@192@045%@		19	3357			31
151	3	010			@-#)B \$)1L%@		10	3367			32
152	3	020			@-@)B \$)2N%@		10	3377			32
153	3	030		DCW	@}@"		1	3378			32
154	3	040		END					/ 000 080		33

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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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1401 COBOL - DT0 PAGE 1

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
101	1	010	000	JOB	1401 COBOL - DT0						
102	1	020		CTL	661 11						
103	1	030		ORG	2500				2500		
104	1	040		DCW	@-? \$)5K)26@006&@018,@183%@	24		2523			4
105	1	050			@-A)B \$)5L%@	10		2533			4
106	1	060			@-B \$)1Q)DA@195@015,@198%@	23		2556			5
107	1	070			@-C)17@003@165@003%@	18		2574			6
108	1	080			@-D@057@147)07 \$)3J&@078%@	23		2597			7
109	1	090			@-E)BW \$)3J,@057@186@126%@	23		2620			8
110	1	100			@-F)P %@	6		2626			8
111	1	110			@-G)CW \$)4K%@	10		2636			8
112	1	120			@-H)26 \$)0K,@183%@	15		2651			9
113	1	130			@-I \$)3J)SW@057@186%@	18		2669			9
114	1	140			@-!)B @015%@	10		2679			10
115	1	150			@-J@201)17@003@165@003%@	22		2701			10
116	1	160			@-K)01@057@066,@057@069%@	23		2724			11
117	1	170			@-L)01@057@060&@072,@057@066%@	28		2752			12
118	1	180			@-M)MN@015&@075%@	15		2767			13
119	1	190			@-N)06@057@066%@	14		2781			13
120	1	200			@-O)01@015&@075,\$)1L&@018%@	25		2806			14
121	1	210			@-P)06@057@066%@	14		2820			14
122	1	220			@-Q)01@015&@075,\$)2L%@	20		2840			15
123	1	230			@-R)06@057@066%@	14		2854			15
124	1	240			@-|)01@015&@075,\$)1M&@072%@	25		2879			16
125	1	250			@-S)20@057@069,@057@066%@	23		2902			17
126	2	010			@-T)B @057@159%@	14		2916			17
127	2	020			@-U)B @057@147%@	14		2930			18
128	2	030			@-V)26 \$)0K,@165%@	15		2945			18
129	2	040			@-W \$)0L)19@006&@018%@	19		2964			19
130	2	050			@-X)29@006&@072,\$)2L,@090%@	25		2989			20
131	2	060			@-Y \$)2L)17@003@204@015@003%@	26		3015			21
132	2	070			@-Z)29@006&@072,\$)1L&@018,@090%@	30		3045			22
133	2	080			@-0 \$)1L)CC@015%@	14		3059			23
134	2	090			@-1)02.010.013,@207%@	19		3078			23
135	2	100			@-2)29@006&@087,\$)1M&@072,@090%@	30		3108			24
136	2	110			@-3 \$)1M)02@015,@207%@	19		3127			25
137	2	120			@-4)W %@	6		3133			25
138	2	130			@-5)B @057@060%@	14		3147			25
139	2	140			@-6 \$)0K)H @015,@210@042%@	23		3170			26
140	2	150			@-7)B \$)0L%@	10		3180			26
141	2	160		DCW	@-8 \$)2M)B @057@060%@	18		3198			27
142	2	170		DCW	@} @	1		3199			27
143	2	180		END					/ 000 080		28


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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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1401 COBOL - JE2 PAGE 1

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
101	1	010	000	JOB	1401 COBOL - JE2						
102	1	020		CTL	661111						
103	1	030		ORG	2500				2500		
104	1	040		DCW	@A0)SW.010-.016@003,.055-.061@003%@	33		2532			4
105	1	050		DCW	@A1)SW.010-.016@003%@	19		2551			5
106	1	060		DCW	@A2)SW.055-.061@003%@	19		2570			5
107	1	070		DCW	@A3)ZA@006,@009@012%@	19		2589			6
108	1	080		DCW	@A4)A .010&.097,.076&.019%@	25		2614			7
109	1	090		DCW	@A5)A .055&.100,.076&.064%@	25		2639			8
110	1	100		DCW	@A6)MZ.076&.064,.076&.019%@	25		2664			9
111	1	110		DCW	@A7)MZ.076&.019,.076&.064%@	25		2689			10
112	1	120		DCW	@A8)A .010&.097,@009&.019%@	25		2714			11
113	1	130		DCW	@A9)ZA.055&.100,.076%@	20		2734			12
114	1	140		DCW	@B0)A .055&.100,@009&.064%@	25		2759			13
115	1	150		DCW	@B1)ZA.010&.097,.076%@	20		2779			14
116	1	160		DCW	@B2)A .055&.100,.076%@	20		2799			15
117	1	170		DCW	@B3)S .055&.100,.076&.064%@	25		2824			16
118	1	180		DCW	@B4)MZ.055&.100,.055&.019%@	25		2849			17
119	1	190		DCW	@B5)S .055&.100,@009&.019%@	25		2874			18
120	1	200		DCW	@B6)S .055&.100,.076%@	20		2894			19
121	1	202		DCW	@B7)ZA.055,@015%@	15		2909			19
122	1	210		DCW	@B8)A .010&.097,.055&.100%@	25		2934			20
123	1	220		DCW	@B9)A .010&.097,.055&.019%@	25		2959			21
124	1	230		DCW	@C0)MZ.010&.097,.010&.100%@	25		2984			22
125	1	240		DCW	@C1)A .010&.100,.055&.100%@	25		3009			23
126	1	250		DCW	@C2)MZ.055&.019,.055&.100%@	25		3034			24
127	2	010		DCW	@C4)S .010&.097,.055&.100%@	25		3059			25
128	2	020		DCW	@C5)MZ.055&.100,.055&.019%@	25		3084			26
129	2	030		DCW	@C6)S .010&.097,.055&.019%@	25		3109			27
130	2	040		DCW	@C7)MZ.010&.097,.010&.100%@	25		3134			28
131	2	050		DCW	@C8)S .010&.100,.055&.100%@	25		3159			29
132	2	060		DCW	@C9)A .010&.097,@01 5&.019%@	25		3184			30
133	2	070		DCW	@D0:ZAX.022.013%@	15		3199			31
134	2	080		DCW	@D1)M .055&.100,@018-.091%@	25		3224			32
135	2	090		DCW	@D2)ZA@018-.091,.076%@	20		3244			33
136	2	100		DCW	@D3)A @018-.091,.076&.019&.064%@	30		3274			34
137	2	110		DCW	@D4)ZA@006,.076@012%@	19		3293			35
138	2	120		DCW	@D5)SW@018-.085%@	15		3308			35
139	2	130		DCW	@D6)ZA.010&.097,@018-.088%@	25		3333			36
140	2	140		DCW	@D7)D .055&.100,@018-.091%@	25		3358			37
141	2	150		DCW	@D8)ZA@018-.094,.076%@	20		3378			38
142	2	160		DCW	@D9)CW@018-.085%@	15		3393			38
143	2	170		DCW	@E0)A @018-.094,.076&.019@003%@	29		3422			39
144	2	180		DCW	@E1:XMN.010.013.016.022.025.028.019%@	35		3457			40
145	2	190		DCW	@E2) G@084.010,@123%@	19		3476			41
146	2	200		DCW	@E4)B @027%@	10		3486			41
147	2	210		DCW	@E5)H @090,@021%@	15		3501			42

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	2	220		DCW	@E6)B @144@147%@		14	3515			42
149	2	230		DCW	@F0\$L02) B@027%@		14	3529			43
150	2	240		DCW	@}@"		1	3530			43
151	2	250		END					/ 000 080		44

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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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1401 COBOL - JE3 PAGE 1

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
101	1	010	000	JOB	1401 COBOL - JE3						
102	1	020		CTL	661111						
103	1	030		ORG	2500				2500		
104	1	040		DCW	@F1)A .055&.019,.010%@	20		2519			4
105	1	050		DCW	@F2)SW.076-.082@003%@	19		2538			4
106	1	060		DCW	@F3)CW.076-.082@003%@	19		2557			5
107	1	070		DCW	@F4)CW.010-.016@003,.055-.061@003%@	33		2590			6
108	1	080		DCW	@F5)CW.010-.016@003%@	19		2609			7
109	1	090		DCW	@F6)CW.055-.061@003%@	19		2628			7
110	1	100		DCW	@F7) C.010&.097,@030%@	20		2648			8
111	1	110		DCW	@F8) C.055&.100,@030%@	20		2668			9
112	1	120		DCW	@F9) C@015,@030%@	15		2683			9
113	1	130		DCW	@G0) D\$L03@033,.010-.016&.061%@	29		2712			10
114	1	140		DCW	@G1:XXJ.055.061.076.085.088%@	27		2739			11
115	1	150		DCW	@G2:XXK.055.061.067.076.079.085.088%@	35		2774			12
116	1	160		DCW	@G3:XXL.055.061.067.073.076.079.082.085.088%@	43		2817			14
117	1	170		DCW	@G4:YFM.010.082.016.055.082.061.088.106.079%@	43		2860			16
118	1	180		DCW	@G5:YCL.010.082.016.055.082.061.088.106.079%@	43		2903			18
119	1	190		DCW	@G6:YAQ.010.082.016.055.082.061.088.106%@	39		2942			19
120	1	200		DCW	@G7:YNQ.010.082.016.055.082.061.088.106%@	39		2981			20
121	1	210		DCW	@G8:YIP.010.082.016.106.079%@	27		3008			21
122	1	220		DCW	@G9:ZFZ.010.097.103.019.055.100.103.064.076.016@	46		3054			23
123	1	230		DC	@.061%@	5		3059			23
124	1	240		DCW	@H0:ZML.010.082.016.055.061%@	27		3086			23
125	1	250		DCW	@H1:ZMR.010.082.016.055.082.061.076%@	35		3121			24
126	2	010		DCW	@H2:ZET.076.082.043.046.049.010.082.016.061%@	43		3164			26
127	2	020		DCW	@H3) F.106,@030,@036%@	20		3184			26
128	2	030		DCW	@H4) F\$L02,@030,@036%@	20		3204			27
129	2	040		DCW	@H5) G.055,@015@039&.016%@	24		3228			28
130	2	050		DCW	@H6) G@015@039&.016%@	19		3247			29
131	2	060		DCW	@H7)C .010,.055%@	15		3262			29
132	2	070		DCW	@H8)BM\$L02,.010&.097%@	20		3282			30
133	2	080		DCW	@H9)BM.106,.055&.100%@	20		3302			31
134	2	090		DCW	@I0)BM.106,.010&.097%@	20		3322			32
135	2	100		DCW	@I1)BM\$L02,.055&.100%@	20		3342			33
136	2	110		DCW	@I2)BM\$L02,@015%@	15		3357			33
137	2	120		DCW	@I3)BM.106,@015%@	15		3372			34
138	2	130		DCW	@I4)BU.106%@	10		3382			34
139	2	140		DCW	@I5)B .106%@	10		3392			34
140	2	150		DCW	@I6) /.103.106%@	14		3406			35
141	2	160		DCW	@I8)A @120,.055&.100-.064&.019@003%@	34		3440			36
142	2	170		DCW	@I9) 1.055-.061@003,.010-.016@003%@	33		3473			37
143	2	180		DCW	@J0)ZA.010&.097,@015%@	20		3493			38
144	2	190		DCW	@J1)S .055&.100,@015%@	20		3513			39
145	2	200		DCW	@} @	1		3514			39
146	2	210		END					/ 000 080		40

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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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1401 COBOL - JE4 PAGE 1

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
101	1	010	000	JOB	1401 COBOL - JE4						
102	1	020		CTL	661111						
103	1	030		ORG	2500				2500		
104	1	040		DCW	@J2)ZA@006,@015%@	15		2514			4
105	1	050		DCW	@J3)A .010&.097,@015-.064&.019%@	30		2544			5
106	1	060		DCW	@J4)MZ.010&.097,@015%@	20		2564			6
107	1	070		DCW	@J5)A .055&.100,@015-.019&.064%@	30		2594			7
108	1	080		DCW	@J6)MZ.055&.100,@015%@	20		2614			8
109	1	090		DCW	@J7)S .010&.097,@015%@	20		2634			9
110	1	100		DCW	@J8)BU\$L02%@	10		2644			9
111	1	110		DCW	@J9)BL\$L02%@	10		2654			10
112	1	120		DCW	@K0)BH\$L02%@	10		2664			10
113	1	130		DCW	@K1)BU\$L03%@	10		2674			10
114	1	140		DCW	@K2) G@045,@015%@	15		2689			11
115	1	150		DCW	@K3) G@015%@	10		2699			11
116	1	160		DCW	@K4)C .010-.016&.061,.055%@	25		2724			12
117	1	170		DCW	@K5)C .010,.055-.061&.016%@	25		2749			13
118	1	180		DCW	@K6) D\$L03@033,.055-.061&.016%@	29		2778			14
119	1	190		DCW	@K7) G@048.016@048,@051%@	23		2801			15
120	1	200		DCW	@K8)S @048.061@048,@051%@	23		2824			16
121	1	210		DCW	@K9\$L03)MA@048@054@048,\$L03@033%@	31		2855			17
122	1	220		DCW	@L0)C .010-.016&.061,@045%@	25		2880			18
123	1	230		DCW	@L1)S @003,@051%@	15		2895			19
124	1	240		DCW	@L2)C @051,@048@093@138%@	23		2918			19
125	1	250		DCW	@L3) G@048.061@048,@051%@	23		2941			20
126	2	010		DCW	@L4)S @048.016@048,@051%@	23		2964			21
127	2	020		DCW	@L5)C .055-.061&.016,@045%@	25		2989			22
128	2	030		DCW	@L6) G.055,@015@039&.061%@	24		3013			23
129	2	040		DCW	@L7)C .010,@015@039&.016%@	24		3037			24
130	2	050		DCW	@L8) G.010,@015@039&.016%@	24		3061			25
131	2	060		DCW	@L9)C @015@039&.061,.055%@	24		3085			26
132	2	070		DCW	@M0) G.010,@015@039&.061%@	24		3109			27
133	2	080		DCW	@M1) G@015@039&.061%@	19		3128			28
134	2	090		DCW	@M2) 4\$L02,.010,@060%@	20		3148			28
135	2	100		DCW	@M3)C .010,@045%@	15		3163			29
136	2	110		DCW	@M4)BL.106%@	10		3173			29
137	2	120		DCW	@M5:YIN.010.082.016.106.079%@	27		3200			30
138	2	130		DCW	@M6) 4.106,.010,@060%@	20		3220			31
139	2	140		DCW	@M7) F.106,.010,@063%@	20		3240			32
140	2	150		DCW	@M8) F.106,.010,@066%@	20		3260			33
141	2	160		DCW	@M9)C .010,@075%@	15		327 5			33
142	2	170		DCW	@N1) F\$L02,.010,@063%@	20		3295			34
143	2	180		DCW	@N2) F\$L02,.010,@066%@	20		3315			35
144	2	190		DCW	@N3)C .010,@072%@	15		3330			35
145	2	200		DCW	@N4)C @075,.010%@	15		3345			36
146	2	210		DCW	@N5)ZA@006,@030%@	15		3360			36
147	2	220		DCW	@N6)C @015,.055-.085%@	20		3380			37

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	2	230		DCW	@N7) F@078,@030,@036%@		20	3400			38
149	2	240		DCW	@N8) G@048@135@048,.010@003%@		27	3427			39
150	2	250		DCW	@N9) G@045,.010%@		15	3442			40
151	3	010		DCW	@00) G.010%@		10	3452			40
152	3	020		DCW	@01) G.055,.010%@		15	3467			41
153	3	030		DCW	@03) G.055-.061&.016,.010%@		25	3492			42
154	3	040		DCW	@04) G.055-.061&.082,.010%@		25	3517			43
155	3	050		DCW	@}@		1	3518			43
156	3	060		END					/ 000 080		44

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	3

1401 COBOL - JE5 PAGE 1

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
101	1	010	000	JOB	1401 COBOL - JE5						
102	1	020		CTL	661111						
103	1	030		ORG	2500				2500		
104	1	040		DCW	@05) G.055,.010-.082%@	20		2519			4
105	1	050		DCW	@06)BW@081,.010-.082-.061@003%@	29		2548			5
106	1	060		DCW	@07) G.010-.082,.010-.082-.061%@	30		2578			6
107	1	070		DCW	@08)ZA.055&.100,.010%@	20		2598			7
108	1	080		DCW	@09)MZ.055&.100,.010%@	20		2618			8
109	1	090		DCW	@P0)ZA.055&.100-.064&.019,.010%@	30		2648			9
110	1	100		DCW	@P1)ZA@006,.010%@	15		2663			10
111	1	110		DCW	@P2)A .055&.100,.010-.019&.064%@	30		2693			11
112				DCW	@P3) 3.040,.010%@	15		2708			12
113	1	130		DCW	@P4) I.055&.100,.010%@	20		2728			12
114	1	140		DCW	@P5) G.055,@015%@	15		2743			13
115	1	150		DCW	@P6)ZA.055&.019,.010%@	20		2763			13
116	1	160		DCW	@P7) G@084@015,@027@087%@	23		2786			14
117	1	170		DCW	@P8)ZA.055&.100-.064&.019,@015%@	30		2816			15
118	1	180		DCW	@Q0)* IOB%@	9		2825			15
119	1	190		DCW	@Q1:ZDY.019.022.010%@	19		2844			16
120	1	200		DCW	@Q2:ZGP.010.013.019%@	19		2863			16
121	1	210		DCW	@Q3) G.055,.010-.016&.061%@	25		2888			17
122	1	220		DCW	@Q4)* IO0%@	9		2897			17
123	1	230		DCW	@Q5)* IO1%@	9		2906			18
124	1	240		DCW	@Q6:ZXZ.010.097.103.019.055.100.103.064.076@	42		2948			20
125	1	250		DC	@.016.061%@	9		2957			20
126	2	010		DCW	@Q7)* IO0%@	9		2966			20
127	2	020		DCW	@Q8)* IOE%@	9		2975			20
128	2	030		DCW	@Q9)* IOF%@	9		2984			20
129	2	040		DCW	@R0)* IOG%@	9		2993			21
130	2	050		DCW	@R1)* IOH%@	9		3002			21
131	2	060		DCW	@R2)* IO9%@	9		3011			21
132	2	070		DCW	@R3)S .055&.100,@009&.064%@	25		3036			22
133	2	080		DCW	@R4)* I11%@	9		3045			22
134	2	090		DCW	@R5)* I12%@	9		3054			23
135	2	100		DCW	@R6)* I13%@	9		3063			23
136	2	110		DCW	@R7)* I13%@	9		3072			23
137	2	120		DCW	@R8)* I15%@	9		3081			23
138	2	130		DCW	@S0)ZS.055&.100,.076%@	20		3101			24
139	2	140		DCW	@S1)S .010&.097,@009&.019%@	25		3126			25
140	2	150		DCW	@S2)ZA@006,.076%@	15		3141			26
141	2	160		DCW	@S3)BH.106%@	10		3151			26
142	2	170		DCW	@S4.010) B@027%@	14		3165			26
143	2	180		DCW	@S5)B .013%@	10		3175			27
144	2	190		DCW	@S6)B .010%@	10		3185			27
145	2	200		DCW	@S7.010) 5.013%@	14		3199			27
146	2	210		DCW	@S8.010)B @093%@	14		3213			28
147	2	220		DCW	@S9) G@096,.010%@	15		3228			28

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	2	230		DCW	@T0) G@084.013,.010@099%@		23	3251			29
149	2	240		DCW	@T1.016) G@102,.013%@		19	3270			30
150	2	250		DCW	@T2.010) B.013%@		14	3284			30
151	3	010		DCW	@T3) G@102,.016%@		15	3299			31
152	3	020		DCW	@T4.019) B.028%@		14	3313			31
153	3	030		DCW	@T5.025) B.022%@		14	3327			32
154	3	040		DCW	@T6)B .025@105%@		14	3341			32
155	3	050		DCW	@T7.034) G@102,.016%@		19	3360			33
156	3	060		DCW	@T8.028) B.022%@		14	3374			33
157	3	070		DCW	@T9.019) B.031%@		14	3388			34
158	3	080		DCW	@U0.019) G@102,.022%@		19	3407			34
159	3	090		DCW	@U1.013) B.016%@		14	3421			35
160	3	100		DCW	@U2)B .016%@		10	3431			35
161	3	110		DCW	@U3.010) G@084.019,.013@099%@		27	3458			36
162	3	120		DCW	@U4.016)B .010%@		14	3472			37
163	3	130		DCW	@U5) G@096,.016%@		15	3487			37
164	3	140		DCW	@U6)B .013%@		10	3497			37
165	3	150		DCW	@U7.019) B@027%@		14	3511			38
166	3	160		DCW	@}@		1	3512			38
167	3	170		END					/ 000 080		39

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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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1401 COBOL - JE6 PAGE 1

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
101	1	010	000	JOB	1401 COBOL - JE6						
102	1	020		CTL	661111						
103	1	030		ORG	2500				2500		
104	1	040		DCW	@U8)ZA.010,\$L01%@	15		2514			4
105	1	050		DCW	@U9.043)S @003,\$L01%@	19		2533			4
106	1	060		DCW	@V0)BM\$L02,\$L01%@	15		2548			5
107	1	070		DCW	@V1\$L01) 6@108%@	14		2562			5
108	1	080		DCW	@V2\$L02) G@102,.040%@	19		2581			6
109	1	090		DCW	@V3) G@102,.016%@	15		2596			6
110	1	091		DCW	@V4) I@015,.010%@	15		2611			7
111	1	100		DCW	@V7)CW.055&.100-.052@003%@	24		2635			7
112	1	110		DCW	@V9)ZA.076,@009&.100%@	20		2655			8
113	1	120		DCW	@W0)A @120,@009&.019@003%@	24		2679			9
114	1	130		DCW	@W1)MZ@045,@015-.019&.064%@	25		2704			10
115	1	140		DCW	@W2) D@150@153@099,@027@147@156)B @132.010@	41		2745			12
116	1	150		DC	@@156) 8@165.010@156) 6@159@156) 6@159%@	38		2783			13
117	1	160		DCW	@W3) D@150@153@099,@027@087@156)B @114.010@156@	45		2828			15
118	1	170		DC	@) 6@159@156) 6@162@048@156) 6.013%@	34		2862			16
119	1	180		DCW	@W4)* I17%@	9		2871			17
120	1	190		DCW	@W5)* I18%@	9		2880			17
121	1	200		DCW	@W6\$L02)H %@	10		2890			17
122	1	210		DCW	@W7)ZA@018-.094,.076@012%@	24		2914			18
123	1	220		DCW	@W8)H @027,.010%@	15		2929			18
124	1	230		DCW	@W9)B \$L02%@	10		2939			19
125	1	240		DCW	@X0)A .055,.010-.019&.064%@	25		2964			19
126	1	250		DCW	@X1)ZA.055,.010%@	15		2979			20
127	2	010		DCW	@X2)MZ.055,.010%@	15		2994			20
128	2	020		DCW	@X3)MZ@018-.091,.076@012%@	24		3018			21
129	2	030		DCW	@X5)H @129%@	10		3028			21
130	2	040		DCW	@X6)B @027%@	10		3038			22
131	2	050		DCW	@X7)B .010@105%@	14		3052			22
132	2	060		DCW	@X8)B .037%@	10		3062			22
133	2	070		DCW	@X9)* I1I%@	9		3071			23
134	2	080		DCW	@Y0)SW.034-.040@003%@	19		3090			23
135	2	090		DCW	@Y1)CW.034-.040@003%@	19		3109			24
136	2	100		DCW	@Y2)MZ@045,.010-.019&.064%@	25		3134			25
137	2	110		DCW	@Y3)ZA.055-.064&.019,.010%@	25		3159			26
138	2	120		DCW	@Y4)MZ@015&.019,@015&.100%@	25		3184			27
139	2	130		DCW	@Y5)S @015&.100,.055&.100%@	25		3209			28
140	2	140		DCW	@Y6)* I2?%@	9		3218			28
141	2	150		DCW	@Y7)* I1?%@	9		3227			29
142	2	160		DCW	@Y8)ZA@006,@018%@	15		3242			29
143	2	170		DCW	@Y9)MZ@018-.088,@018%@	20		3262			30
144	2	180		DCW	@Z0)MZ@045,@018-.088%@	20		3282			31
145	2	190		DCW	@Z1)B @150@168@156) 5@114.010@171%@	33		3315			32
146	2	200		DCW	@Z2)B @150@174@156) 5@114.010@171%@	33		3348			33
147	2	210		DCW	@Z3)A @015&.100,.055&.100%@	25		3373			34

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	2	220		DCW	@Z4)* I2A%@		9	3382			34
149	2	230		DCW	@Z5)SW.010-.016@003,.022-.028@003%@		33	3415			35
150	2	240		DCW	@Z6)CW.010-.016@003,.022-.028@003%@		33	3448			36
151	2	250		DCW	@Z7)SW@015-.052@003%@		19	3467			37
152	3	010		DCW	@Z8)CW@015-.052@003%@		19	3486			37
153	3	020		DCW	@Z9)SW.055&.100-.052@003%@		24	3510			38
154	3	030		DCW	@}@		1	3511			38
155	3	040		END					/ 000 080		39

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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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1401 COBOL - SP3 PAGE 1

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
101	1	010	000	JOB	1401 COBOL - SP3						
102	1	020		CTL	661 11						
103	1	030	SUPER	EQU	351			0351			
104	1	040	X1	EQU	89			0089			
105	1	050	X2	EQU	94			0094			
106	1	060	X3	EQU	99			0099			
107	1	070	IORW	EQU	343			0343			
108	1	080	PUTX	EQU	363			0363			
109	1	090	BSPBKT	EQU	1299			1299			
110	1	100		ORG	2730				2730		
111	1	110	INIT	MLC	564,PBAD	7	2730	M 564	F69		4
112	1	120		MLC	448,PIAD	7	2737	M 448	F72		4
113	1	130		MLC	570,GBAD	7	2744	M 570	F75		4
114	1	140		MLC	665,GIAD	7	2751	M 665	F78		4
115	1	145		MLC	GIAD,X1	7	2758	M F78	089		4
116	2	171		SW	0&X1	4	2765	,	0|0		4
117	1	150		MLC	628,GETA	7	2769	M 628	F81		5
118	1	160		C	573,GETA	7	2776	C 573	F81		5
119	1	170		BU	INIT1	5	2783	B P95	/		5
120	1	180		MLC	@T@,WMSW	7	2788	M G16	G12		5
121	1	190	INIT1	MLC	394,PUTA	7	2795	M 394	F84		5
122	1	200		MLC	662,READAD-3	7	2802	M 662	F87		6
123	1	210		MLC	GIAD,READAD	7	2809	M F78	F90		6
124	1	220		MLC	READAD,RTR01&6	7	2816	M F90	A85		6
125	1	230		MLC	READAD,RTR03&6	7	2823	M F90	C37		6
126	1	240		MLC	READAD,RTR04&6	7	2830	M F90	C70		6
127	1	250		MLC	445,READAD-3	7	2837	M 445	F87		7
128	2	010		MLC	READAD,WRTG01&6	7	2844	M F90	B00		7
129	2	020		MLC	PIAD,READAD	7	2851	M F72	F90		7
130	2	030		MLC	READAD,WRT01&6	7	2858	M F90	E15		7
131	2	040		MLZS	PBAD,RZNSV	7	2865	Y F69	F93		7
132	2	050		MLZS		1	2872	Y			7
133	2	060		MLZS		1	2873	Y			7
134	2	070		MLZS	@ @,PIAD	7	2874	Y G17	F72		8
135	2	080		S	&1,PIAD	7	2881	S G18	F72		8
136	2	090		MLZS	RZNSV,PIAD	7	2888	Y F93	F72		8
137	2	100		MLZS		1	2895	Y			8
138	2	110		MLZS		1	2896	Y			8
139	2	120		MLZS	@ @,GIAD	7	2897	Y G17	F78		8
140	2	130		S	&1,GIAD	7	2904	S G18	F78		8
141	2	140		MLZS	RZNSV,GIAD	7	2911	Y F93	F78		9
142	2	150		MLZS		1	2918	Y			9
143	2	160		MLZS		1	2919	Y			9
144	2	170		MLC	GBAD,X1	7	2920	M F75	089		9
145	2	180	INIT2	C	0&X1	4	2927	C 0|0			9
146	2	190		SAR	X1	4	2931	Q 089			9
147	2	200		C	X1,GIAD	7	2935	C 089	F78		9

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	2	210		BE	INIT3		5	2942	B R55 S		10
149	2	220		CW	1&X1		4	2947	) 0|1		10
150	2	230		B	INIT2		4	2951	B R27		10
151	2	240	INIT3	MLC	PBAD, X1		7	2955	M F69 089		10
152	2	250	INIT4	C	0&X1		4	2962	C 0|0		10
153	3	010		SAR	X1		4	2966	Q 089		10
154	3	020		C	X1, PIAD		7	2970	C 089 F72		10
155	3	030		BE	INIT5		5	2977	B R90 S		11
156	3	040		CW	1&X1		4	2982	) 0|1		11
157	3	050		B	INIT4		4	2986	B R62		11
158	3	060	INIT5	MLZS	@ @, GETA		7	2990	Y G17 F81		11
159	3	070		MLZS	@ @, PUTA		7	2997	Y G17 F84		11
160	3	080	ADCALC	MLC	GBAD, ADBUCK		7	3004	M F75 F96		11
161	3	090		MLZS	@ @, ADBUCK		7	3011	Y G17 F96		12
162	3	100		S	GETA, ADBUCK		7	3018	S F81 F96		12
163	3	110		MLC	ADBUCK, GL		7	3025	M F96 F99		12
164	3	120		A	&3, GL		7	3032	A G19 F99		12
165	3	130		MLZS	@ @, GL		7	3039	Y G17 F99		12
166	3	140		MLC	PBAD, ADBUCK		7	3046	M F69 F96		13
167	3	150		MLZS	@ @, ADBUCK		7	3053	Y G17 F96		13
168	3	160		S	PUTA, ADBUCK		7	3060	S F84 F96		13
169	3	170		A	&3, ADBUCK		7	3067	A G19 F96		13
170	3	180		MLC	ADBUCK, PL		7	3074	M F96 G02		13
171	3	190		MLZS	@ @, PL		7	3081	Y G17 G02		14
172	3	200		MLZS	RZNSV, GETA		7	3088	Y F93 F81		14
173	3	210		MLC	GETA, X1		7	3095	M F81 089		14
174	3	220		C	@ @, 0&X1		7	3102	C G22 0|0		14
175	3	230		SBR	X1		4	3109	H 089		14
176	3	240		SBR	SWSV		4	3113	H G11		14
177	3	250		SW	1&X1		4	3117	, 0|1		15
178	4	010	ADCL01	C	PL, GL		7	3121	C G02 F99		15
179	4	020		BH	GRTRNR		5	3128	B B09 U		15
180	4	030		BL	LSTRNR		5	3133	B B70 T		15
181	4	040	EQTRNR	MLC	GBAD, X2		7	3138	M F75 094		15
182	4	050		MLC	PBAD, X3		7	3145	M F69 099		15
183	4	060		MLC	0&X2, 0&X3		7	3152	M 0|0 0?0		16
184	4	070		BCE	EQTR02, WMSW, T		8	3159	B A71 G12 T		16
185	4	080		CW	1&X1		4	3167	) 0|1		16
186	4	090	EQTR02	B	WRITE		4	3171	B E01		16
187	4	100	EQTR01	B	IORW		4	3175	B 343		16
188	4	110	RTR01	RT	*, *		8	3179	M A86 A86 R		16
189	4	120		DCW	EXIT		3	3189	C83		16
190	4	130		B	IORW		4	3190	B 343		17
191	4	140	WRTG01	WT	*, *		8	3194	M B01 B01 W		17
192	4	150		DCW	EOTW		3	3204	D96		17
193	4	160		B	EQTR01		4	3205	B A75		17
194	4	170	GRTRNR	MLC	GETA, GX		7	3209	M F81 G05		17
195	4	180		MLZS	@ @, GX		7	3216	Y G17 G05		17
196	4	190		S	&3, GX		7	3223	S G19 G05		18
197	4	200		A	PL, GX		7	3230	A G02 G05		18

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
198	4	210		MLC	PIAD,PX		7	3237	M F72 G08		18
199	4	220		B	SETMVS		4	3244	B E92		18
200	4	230		MLC	GX,MVLB01&3		7	3248	M G05 B58		18
201	4	240	MVLB01	MLC	*,0&X3		7	3255	M B61 0?0		18
202	4	250		B	SWRTN		4	3262	B E24		19
203	5	010		B	LSTR01		4	3266	B C49		19
204	5	020	LSTRNR	MLC	PBAD,PX		7	3270	M F69 G08		19
205	5	030		MLC	GIAD,GX		7	3277	M F78 G05		19
206	5	040		MLZS	@ @,GX		7	3284	Y G17 G05		19
207	5	050		A	PL,GX		7	3291	A G02 G05		19
208	5	060		S	GL,GX		7	3298	S F99 G05		20
209	5	070		B	SETMVS		4	3305	B E92		20
210	5	080		MLC	PX,MVLB04&6		7	3309	M G08 C22		20
211	5	090	MVLB04	MLC	0&X2,*		7	3316	M 0!0 C22		20
212	5	100		B	SWRTN		4	3323	B E24		20
213	5	110		B	IORW		4	3327	B 343		20
214	5	120	RTR03	RT	*,*		8	3331	M C38 C38 R		21
215	5	130		DCW	EOTW1		3	3341	C79		21
216	5	140	MVLB05	MLC	*,0&X3		7	3342	M C48 0?0		21
217	5	150	LSTR01	B	WRITE		4	3349	B E01		21
218	5	160	MVLB06	MLC	0&X2,*		7	3353	M 0!0 C59		21
219	5	170		B	IORW		4	3360	B 343		21
220	5	180	RTR04	RT	*,*		8	3364	M C71 C71 R		22
221	5	190		DCW	EOTW1		3	3374	C79		22
222	5	200		B	MVLB05		4	3375	B C42		22
223	5	210	EOTW1	B	WRITE		4	3379	B E01		22
224	5	220	EXIT	MLC	GBAD,628		7	3383	M F75 628		22
225	5	230		MLC	701,*&4		7	3390	M 701 D00		22
226	5	240		RWD	1		5	3397	U %U1 R		22
227	5	250	TMRKXT	MLNS	445,TMR01&3		7	3402	D 445 D12		23
228	6	010	TMR01	WTM	1		5	3409	U %U1 M		23
229	6	020		BCE	EXIT1,WMSW,T		8	3414	B D33 G12 T		23
230	6	030		MLC	SWSV,X1		7	3422	M G11 089		23
231	6	040		CW	1&X1		4	3429	) 0|1		23
232	6	050	EXIT1	B	PUTX		4	3433	B 363		23
233	6	060		DCW	VEOP		3	3439	G15		23
234	6	070		MLC	BSPBKT,PX		7	3440	M S99 G08		24
235	6	080		MLZS	@ @,PX		7	3447	Y G17 G08		24
236	6	090		MLC	@0@,PX-2		7	3454	M G23 G06		24
237	6	100		MLC	@000@,GX		7	3461	M G26 G05		24
238	6	110	EXIT2	C	PX,GX		7	3468	C G08 G05		24
239	6	120		BE	1770		5	3475	B X70 S		25
240	6	130		BSP	1		5	3480	U %U1 B		25
241	6	140		A	@1@,GX		7	3485	A G27 G05		25
242	6	150		B	EXIT2		4	3492	B D68		25
243	6	160	EOTW	H			1	3496	.		25
244	6	170		B	*-4		4	3497	B D96		25
245	6	180	WRITE	SBR	WRT02&3		4	3501	H E23		25
246	6	190		B	IORW		4	3505	B 343		26
247	6	200	WRT01	WT	*,*		8	3509	M E16 E16 W		26

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
248	6	210		DCW	EOTW		3	3519	D96		26
249	6	220	WRT02	B	*		4	3520	B E23		26
250	6	230	SWRTN	SBR	SWRT02&3		4	3524	H E91		26
251	6	240		BCE	SWRT01,WMSW,T		8	3528	B E40 G12 T		26
252	6	250		CW	1&X1		4	3536	) 0|1		26
253	7	010	SWRT01	C	GIAD,GX		7	3540	C F78 G05		27
254	7	020		BU	SWRT03		5	3547	B E63 /		27
255	7	030		MLC	@T@,WMSW		7	3552	M G16 G12		27
256	7	040		B	SWRT02		4	3559	B E88		27
257	7	050	SWRT03	MLC	@F@,WMSW		7	3563	M G28 G12		27
258	7	060		MLC	GX,X1		7	3570	M G05 089		27
259	7	070		MLC	GX,SWSV		7	3577	M G05 G11		28
260	7	080		SW	1&X1		4	3584	, 0|1		28
261	7	090	SWRT02	B	*		4	3588	B E91		28
262	7	100	SETMVS	SBR	SETMV1&3		4	3592	H F66		28
263	7	110		MLZS	RZNSV,GX		7	3596	Y F93 G05		28
264	7	120		MLZS			1	3603	Y		28
265	7	130		MLZS			1	3604	Y		28
266	7	140		MLC	GBAD,X2		7	3605	M F75 094		29
267	7	150		MLC	PBAD,X3		7	3612	M F69 099		29
268	7	160		MLC	GX,MVLB05&3		7	3619	M G05 C45		29
269	7	170		MLZS	@ @,PX		7	3626	Y G17 G08		29
270	7	180		S	PL,PX		7	3633	S G02 G08		29
271	7	190		A	GL,PX		7	3640	A F99 G08		30
272	7	200		MLZS	RZNSV,PX		7	3647	Y F93 G08		30
273	7	210		MLZS			1	3654	Y		30
274	7	220		MLZS			1	3655	Y		30
275	7	230		MLC	PX,MVLB06&6		7	3656	M G08 C59		30
276	7	240	SETMV1	B	*		4	3663	B F66		30
277	7	250	PBAD	DCW	#3		3	3669			30
278	8	010	PIAD	DCW	#3		3	3672			31
279	8	020	GBAD	DCW	#3		3	3675			31
280	8	030	GIAD	DCW	#3		3	3678			31
281	8	040	GETA	DCW	#3		3	3681			31
282	8	050	PUTA	DCW	#3		3	3684			31
283	8	060	READAD	DCW	#6		6	3690			31
284	8	070		DCW	#1		1	3691			31
285	8	080		DCW	#1		1	3692			32
286	8	090	RZNSV	DCW	#1		1	3693			32
287	8	100	ADBUCK	DCW	#3		3	3696			32
288	8	110	GL	DCW	#3		3	3699			32
289	8	120	PL	DCW	#3		3	3702			32
290	8	130	GX	DCW	#3		3	3705			32
291	8	140	PX	DCW	#3		3	3708			32
292	8	150	SWSV	DCW	#3		3	3711			33
293	8	160	WMSW	DCW	@F@		1	3712			33
294	8	170	VEOP	DCW	@.EP@		3	3715			33
295	8	180		LTORG					3716		
				DCW	@T@		1	3716		LIT	33
					@ @		1	3717		LIT	33

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
					&1		1	3718		LIT	33
					&3		1	3719		LIT	33
					@ @		3	3722		LIT	34
					@0@		1	3723		LIT	34
					@000@		3	3726		LIT	34
					@1@		1	3727		LIT	34
					@F@		1	3728		LIT	34
296	8	190	GMRK	DCW	@}@		1	3729			34
					GROUP MARK						
297	8	200		END					/ 000 080		35

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

1401 COBOL - JA7

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SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
101	1	010	000	JOB	1401 COBOL - JA7						
102	1	020		CTL	661 11						
103	1	030		ORG	1300				1300		
104	1	040	X1	EQU	89			0089			
105	1	050	X2	EQU	94			0094			
106	1	060	X3	EQU	99			0099			
107	1	070	PUTX	EQU	363			0363			
108	1	080	GETX	EQU	335			0335			
109	1	090	SUPER	EQU	351			0351			
110	1	100	START	BW	IOCC,86	8		1300	V T15	086 1	4
111	1	110	BACK	B	SUPER	4		1308	B 351		4
112	1	120		DCW	@J07@	3		1314			4
113	1	130	IOCC	BSS	BACK,F	5		1315	B T08	F	4
114	1	140	IOCS	B	GETSX	4		1320	B V19		4
115	1	150		BCE	IOCS,SX-2,[	8		1324	B T20	Y11 [	4
116	1	160		C	SX,@ @@	7		1332	C Y13	P48	4
117	1	170		BE	SUB	5		1339	B U30	S	5
118	1	180		BCE	TEST,SX-2,	8		1344	B U71	Y11	5
119	1	190		C	SX,@.DI@	7		1352	C Y13	P51	5
120	1	200		BE	DIOCS	5		1359	B U08	S	5
121	1	210		C	SX,@.DT@	7		1364	C Y13	P54	5
122	1	220		BE	DTF	5		1371	B U19	S	5
123	1	230		C	SX,@.EE@	7		1376	C Y13	P57	6
124	1	240		BE	COBOL	5		1383	B X01	S	6
125	1	250		C	SX,@.LC@	7		1388	C Y13	P60	6
126	2	010		BE	OPCODE	5		1395	B V48	S	6
127	2	020	IOCS2	B	PUTSX	4		1400	B V04		6
128	2	030		B	IOCS	4		1404	B T20		6
129	2	040	DIOCS	MLC	&TABLE1&X2,AZ&3	7		1408	M P63	U43	6
130	2	050		B	IOCS	4		1415	B T20		7
131	2	060	DTF	MLC	&TABLE2&X2,AZ&3	7		1419	M P66	U43	7
132	2	070		B	IOCS	4		1426	B T20		7
133	2	080	SUB	B	GETX	4		1430	B 335		7
134	2	090		DCW	X2	3		1436	094		7
135	2	100		DCW	BACK	3		1439	T08		7
136	2	110	AZ	MLC	*,SX	7		1440	M U46	Y13	7
137	2	120		C	SX,@ }@	7		1447	C Y13	P69	8
138	2	130		BE	GM	5		1454	B V37	S	8
139	2	140		BCE	TEST,SX-2,	8		1459	B U71	Y11	8
140	2	150		B	IOCS2	4		1467	B U00		8
141	2	160	TEST	BCE	IOCS2,SX-1,	8		1471	B U00	Y12	8
142	2	170		MLC	SX-1,BUCK	7		1479	M Y12	Y10	8
143	2	180		B	PUTX	4		1486	B 363		9
144	2	190		DCW	BUCK	3		1492	Y10		9
145	2	200		MLC	@ @,SX-1	7		1493	M P70	Y12	9
146	2	210		B	IOCS2	4		1 500	B U00		9
147	2	220	PUTSX	SBR	LEAVE&3	4		1504	H V18		9

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	2	230		B	PUTX		4	1508	B 363		9
149	2	240		DCW	SX		3	1514	Y13		9
150	2	250	LEAVE	B	*		4	1515	B V18		10
151	3	010	GETSX	SBR	EXIT&3		4	1519	H V36		10
152	3	020		B	GETX		4	1523	B 335		10
153	3	030		DCW	SX		3	1529	Y13		10
154	3	040		DCW	BACK		3	1532	T08		10
155	3	050	EXIT	B	*		4	1533	B V36		10
156	3	060	GM	MLC	@ GM@,SX		7	1537	M P73 Y13		10
157	3	070		B	IOCS2		4	1544	B U00		11
158	3	080	OPCODE	B	PUTX		4	1548	B 363		11
159	3	090		DCW	&.LC@		3	1554	P60		11
160	3	100		B	GETSX		4	1555	B V19		11
161	3	110		BWZ	LOOK,SX-2,2		8	1559	V V71 Y11 2		11
162	3	120		B	IOCS2		4	1567	B U00		11
163	3	130	LOOK	SBR	X3,TABL		7	1571	H 099 P43		11
164	3	140	LOOK1	C	SX-1,2&X3		7	1578	C Y12 0?2		12
165	3	150		MLC	0&X3,0&X3		7	1585	M 0?0 0?0		12
166	3	160		SBR	X3		4	1592	H 099		12
167	3	170		BU	LOOK1		5	1596	B V78 /		12
168	3	180		BW	THREE,6&X3		8	1601	V W75 0?6 1		12
169	3	190		BW	FOUR,7&X3		8	1609	V W46 0?7 1		12
170	3	200		MLC	5&X3,SX		7	1617	M 0?5 Y13		13
171	3	210		B	PUTSX		4	1624	B V04		13
172	3	220		MLC	@ @,SX		7	1628	M P76 Y13		13
173	3	230		MLC	7&X3,SX-1		7	1635	M 0?7 Y12		13
174	3	240		B	IOCS2		4	1642	B U00		13
175	3	250	FOUR	MLC	5&X3,SX		7	1646	M 0?5 Y13		13
176	4	010		B	PUTSX		4	1653	B V04		14
177	4	020		MLC	@ @,SX		7	1657	M P76 Y13		14
178	4	030		MLC	6&X3,SX-2		7	1664	M 0?6 Y11		14
179	4	040		B	IOCS2		4	1671	B U00		14
180	4	050	THREE	MLC	5&X3,SX		7	1675	M 0?5 Y13		14
181	4	060		B	IOCS2		4	1682	B U00		14
182	4	070	BACK1	MLC	@.EE@,SX		7	1686	M P57 Y13		15
183	4	080		B	PUTSX		4	1693	B V04		15
184	4	090		B	BACK		4	1697	B T08		15
185	4	100	COBOL	SBR	X3,CONST		7	1701	H 099 Y07		15
186	4	110	COBOL1	BCE	BACK1,0&X3,|		8	1708	B W86 0?0 |		15
187	4	120		MLC	0&X3,SX		7	1716	M 0?0 Y13		15
188	4	130		SAR	X3		4	1723	Q 099		16
189	4	140		B	PUTSX		4	1727	B V04		16
190	4	150		B	COBOL1		4	1731	B X08		16
191	4	160		DCW	@|@		1	1735			16
192	4	170		DCW	@.MC@		3	1738			16
193	4	180		DCW	@END@		3	1741			16
194	4	190		DCW	@IOC@		3	1744			16
195	4	200		DCW	@.OP@		3	1747			17
196	4	210		DCW	@ORG@		3	1750			17
197	4	220		DCW	@.LC@		3	1753			17

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
198	4	230		DCW	@.MC@		3	1756			17
199	4	240		DCW	@*&1@		3	1759			17
200	4	250		DCW	@.OP@		3	1762			17
201	5	010		DCW	@EQU@		3	1765			17
202	5	020		DCW	@.LC@		3	1768			18
203	5	030		DCW	@END@		3	1771			18
204	5	040		DCW	@IOC@		3	1774			18
205	5	050		DCW	@.MC@		3	1777			18
206	5	060		DCW	@ *@		3	1780			18
207	5	070		DCW	@.OP@		3	1783			18
208	5	080		DCW	@RG @		3	1786			18
209	5	090		DCW	@LTO@		3	1789			19
210	5	100		DCW	@.LC@		3	1792			19
211	5	110		DCW	@.MC@		3	1795			19
212	5	120		DCW	@#1 @		3	1798			19
213	5	130		DCW	@.OP@		3	1801			19
214	5	140		DCW	@DCW@		3	1804			19
215	5	150	CONST	DCW	@.LC@		3	1807			19
216	5	160	BUCK	DCW	#3		3	1810			20
217	5	170	SX	DCW	#3		3	1813			20
218	5	180	TABLE1	EQU	*			1813			
219	5	190		DCW	@ 87@		3	1816			20
220	5	200			@IOC@		3	1819			20
221	5	210			@XR1@		3	1822			20
222	5	220			@000@		3	1825			20
223	5	230			@ 00@		3	1828			20
224	5	240			@XR2@		3	1831			21
225	5	250			@XR3@		3	1834			21
226	6	010			@ 0@		3	1837			21
227	6	020			@333@		3	1840			21
228	6	030			@ #1@		3	1843			21
229	6	040			@OPN@		3	1846			21
230	6	050			@QUT@		3	1849			21
231	6	060			@ 3@		3	1852			22
232	6	070			@OPS@		3	1855			22
233	6	080			@LOS@		3	1858			22
234	6	090			@FES@		3	1861			22
235	6	100			@ENT@		3	1864			22
236	6	110			@LOZ@		3	1867			22
237	6	120			@SV3@		3	1870			22
238	6	130			@ #3@		3	1873			23
239	6	140			@TYP@		3	1876			23
240	6	150			@ R@		3	1879			23
241	6	160			@ W@		3	1882			23
242	6	170			@ 4@		3	1885			23
243	6	180			@DAC@		3	1888			23
244	6	190			@ *@		3	1891			23
245	6	200			@ 1@		3	1894			24
246	6	210			@UXT@		3	1897			24
247	6	220			@ 19@		3	1900			24

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
248	6	230			@ 11@		3	1903			24
249	6	240			@ 25@		3	1906			24
250	6	250			@ X3@		3	1909			24
251	7	010			@XSV@		3	1912			24
252	7	020			@ 6@		3	1915			25
253	7	030			@BLK@		3	1918			25
254	7	040			@PLC@		3	1921			25
255	7	050			@ 8@		3	1924			25
256	7	060			@ 17@		3	1927			25
257	7	070			@ @@		3	1930			25
258	7	080			@ \$@		3	1933			25
259	7	090			@EOR@		3	1936			26
260	7	100			@ #8@		3	1939			26
261	7	110			@ 16@		3	1942			26
262	7	120			@PSV@		3	1945			26
263	7	130			@SVA@		3	1948			26
264	7	140			@ 2@		3	1951			26
265	7	150			@IDT@		3	1954			26
266	7	160			@FSW@		3	1957			27
267	7	170			@SER@		3	1960			27
268	7	180			@SEQ@		3	1963			27
269	7	190			@LVE@		3	1966			27
270	7	200			@EOF@		3	1969			27
271	7	210			@ B@		3	1972			27
272	7	220			@TDF@		3	1975			27
273	7	230			@ 13@		3	1978			28
274	7	240			@ L@		3	1981			28
275	7	250			@RWR@		3	1984			28
276	8	010			@ A@		3	1987			28
277	8	020			@SLB@		3	1990			28
278	8	030			@ 9@		3	1993			28
279	8	040			@RWD@		3	1996			28
280	8	050			@TAP@		3	1999			29
281	8	060			@ALT@		3	2002			29
282	8	070			@SV1@		3	2005			29
283	8	080			@ }@		3	2008			29
284	8	090			@ 80@		3	2011			29
285	8	100			@ 29@		3	2014			29
286	8	110			@ J@		3	2017			29
287	8	120			@ 34@		3	2020			30
288	8	130			@CRD@		3	2023			30
289	8	140			@ 38@		3	2026			30
290	8	150			@RCY@		3	2029			30
291	8	160			@ 18@		3	2032			30
292	8	170			@ 14@		3	2035			30
293	8	180			@380@		3	2038			30
294	8	190			@SV6@		3	2041			31
295	8	200			@ #6@		3	2044			31
296	8	210			@ 36@		3	2047			31
297	8	220			@ 5@		3	2050			31

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
298	8	230			@ 31@		3	2053			31
299	8	240			@TDY@		3	2056			31
300	8	250			@ 30@		3	2059			31
301	9	010			@ @		3	2062			32
302	9	020			@ 39@		3	2065			32
303	9	030			@ -@		3	2068			32
304	9	040			@ H@		3	2071			32
305	9	050			@ D@		3	2074			32
306	9	060			@ M@		3	2077			32
307	9	070			@#10@		3	2080			32
308	9	080			@ E@		3	2083			33
309	9	090			@ O@		3	2086			33
310	9	100			@ F@		3	2089			33
311	9	110			@377@		3	2092			33
312	9	120			@ 7@		3	2095			33
313	9	130			@ 79@		3	2098			33
314	9	140			@TSS@		3	2101			33
315	9	150			@ #5@		3	2104			34
316	9	160			@ACT@		3	2107			34
317	9	170			@ N@		3	2110			34
318	9	180			@302@		3	2113			34
319	9	190			@KOP@		3	2116			34
320	9	200			@SRW@		3	2119			34
321	9	210			@TBR@		3	2122			34
322	9	220			@ K@		3	2125			35
323	9	230			@ %@		3	2128			35
324	9	240			@ U@		3	2131			35
325	9	250			@#16@		3	2134			35
326	10	010			@SAV@		3	2137			35
327	10	020			@1X8@		3	2140			35
328	10	030			@ C@		3	2143			35
329	10	040			@ G@		3	2146			36
330	10	050			@199@		3	2149			36
331	10	060			@ 10@		3	2152			36
332	10	070			@RDL@		3	2155			36
333	10	080			@ 12@		3	2158			36
334	10	090			@334@		3	2161			36
335	10	100			@ 20@		3	2164			36
336	10	110			@ I@		3	2167			37
337	10	120			@300@		3	2170			37
338	10	130			@ 40@		3	2173			37
339	10	140			@ 49@		3	2176			37
340	10	150			@ 45@		3	2179			37
341	10	160			@PNX@		3	2182			37
342	10	170			@RDX@		3	2185			37
343	10	180			@NPR@		3	2188			38
344	10	190			@TNT@		3	2191			38
345	10	200			@TRW@		3	2194			38
346	10	210			@RCL@		3	2197			38
347	10	220			@ORC@		3	2200			38

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
348	10	230			@MPR@		3	2203			38
349	10	240			@ X2@		3	2206			38
350	10	250			@ECK@		3	2209			39
351	11	010			@ERR@		3	2212			39
352	11	020			@CLE@		3	2215			39
353	11	030			@RKS@		3	2218			39
354	11	040			@RED@		3	2221			39
355	11	050			@RXR@		3	2224			39
356	11	060			@DRR@		3	2227			39
357	11	070			@NRR@		3	2230			40
358	11	080			@LEN@		3	2233			40
359	11	090			@ROW@		3	2236			40
360	11	100			@TTM@		3	2239			40
361	11	110			@ER2@		3	2242			40
362	11	120			@ER1@		3	2245			40
363	11	130			@CHE@		3	2248			40
364	11	140			@ASC@		3	2251			41
365	11	150			@ER3@		3	2254			41
366	11	160			@RAS@		3	2257			41
367	11	170			@313@		3	2260			41
368	11	180			@323@		3	2263			41
369	11	190			@TDE@		3	2266			41
370	11	200			@305@		3	2269			41
371	11	210			@303@		3	2272			42
372	11	220			@301@		3	2275			42
373	11	230			@390@		3	2278			42
374	11	240		DCW	@DSW@		3	2281			42
375	11	250	TABLE2	EQU	*			2281			
376	12	010		DCW	@ @@		3	2284			42
377	12	020			@ *@		3	2287			42
378	12	030			@ # 5@		3	2290			42
379	12	040			@ #3@		3	2293			43
380	12	050			@ 0@		3	2296			43
381	12	060			@ 1@		3	2299			43
382	12	070			@#10@		3	2302			43
383	12	080			@ %@		3	2305			43
384	12	090			@000@		3	2308			43
385	12	100			@ A@		3	2311			43
386	12	110			@ B@		3	2314			44
387	12	120			@ @		3	2317			44
388	12	130			@ J@		3	2320			44
389	12	140			@ 2@		3	2323			44
390	12	150			@ 4@		3	2326			44
391	12	160			@ R@		3	2329			44
392	12	170			@ W@		3	2332			44
393	12	180			@ M@		3	2335			45
394	12	190			@IOC@		3	2338			45
395	12	200			@UXT@		3	2341			45
396	12	210			@ 5@		3	2344			45
397	12	220			@XR1@		3	2347			45

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
398	12	230			@SAV@		3	2350			45
399	12	240			@ 3@		3	2353			45
400	12	250			@ X1@		3	2356			46
401	13	010			@ 7@		3	2359			46
402	13	020			@ 6@		3	2362			46
403	13	030			@ }@		3	2365			46
404	13	040			@ 8@		3	2368			46
405	13	050			@ \$@		3	2371			46
406	13	060			@ 9@		3	2374			46
407	13	070			@SRW@		3	2377			47
408	13	080			@ 12@		3	2380			47
409	13	090			@TBR@		3	2383			47
410	13	100			@ K@		3	2386			47
411	13	110			@ X0@		3	2389			47
412	13	120			@TNT@		3	2392			47
413	13	130			@XR3@		3	2395			47
414	13	140			@EOR@		3	2398			48
415	13	150			@ 17@		3	2401			48
416	13	160			@224@		3	2404			48
417	13	170			@ #1@		3	2407			48
418	13	180			@222@		3	2410			48
419	13	190			@004@		3	2413			48
420	13	200			@ X3@		3	2416			48
421	13	210			@ I@		3	2419			49
422	13	220			@399@		3	2422			49
423	13	230			@NRD@		3	2425			49
424	13	240			@PNX@		3	2428			49
425	13	250			@ N@		3	2431			49
426	14	010			@ ?@		3	2434			49
427	14	020			@311@		3	2437			49
428	14	030			@RDX@		3	2440			50
429	14	040			@ 81@		3	2443			50
430	14	050			@ |@		3	2446			50
431	14	060			@OCX@		3	2449			50
432	14	070			@ R1@		3	2452			50
433	14	080			@101@		3	2455			50
434	14	090			@PLC@		3	2458			50
435	14	100			@111@		3	2461			51
436	14	110			@ !@		3	2464			51
437	14	120			@NPN@		3	2467			51
438	14	130			@ #2@		3	2470			51
439	14	140			@344@		3	2473			51
440	14	150			@1X8@		3	2476			51
441	14	160			@ C@		3	2479			51
442	14	170			@181@		3	2482			52
443	14	180			@ F@		3	2485			52
444	14	190			@201@		3	2488			52
445	14	200			@322@		3	2491			52
446	14	210		DCW	#2		2	2493			52
447	14	220		DC	@MCW@		3	2496			52

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
448	14	230		DCW	@01@		2	2498			52
449	14	240		DC	@MCM@		3	2501			52
450	14	250		DCW	@02@		2	2503			52
451	15	010		DC	@MCS@		3	2506			53
452	15	020		DCW	@03@		2	2508			53
453	15	030		DC	@MCE@		3	2511			53
454	15	040		DCW	@04@		2	2513			53
455	15	050		DC	@LCA@		3	2516			53
456	15	060		DCW	@05@		2	2518			53
457	15	070		DC	@SAR@		3	2521			53
458	15	080		DCW	@06@		2	2523			53
459	15	090		DC	@SBR@		3	2526			54
460	15	100		DCW	@07@		2	2528			54
461	15	110		DC	@BWZ@		3	2531			54
462	15	120		DCW	@08@		2	2533			54
463	15	130		DC	@NOP@		3	2536			54
464	15	140		DCW	@09@		2	2538			54
465	15	150		DC	@BBE@		3	2541			54
466	15	160		DCW	@10@		2	2543			54
467	15	170		DC	@WRP@		3	2546			55
468	15	180		DCW	@11@		2	2548			55
469	15	190		DC	@SRF@		3	2551			55
470	15	200		DCW	@12@		2	2553			55
471	15	210		DC	@SPF@		3	2556			55
472	15	220		DCW	@13@		2	2558			55
473	15	230		DC	@CTL@		3	2561			55
474	15	240		DCW	@14@		2	2563			55
475	15	250		DC	@ORG@		3	2566			56
476	16	010		DCW	@15@		2	2568			56
477	16	020		DC	@END@		3	2571			56
478	16	030		DCW	@16@		2	2573			56
479	16	040		DC	@DCW@		3	2576			56
480	16	050		DCW	@17@		2	2578			56
481	16	060		DC	@DSA@		3	2581			56
482	16	070		DCW	@18@		2	2583			56
483	16	080		DC	@EQU@		3	2586			57
484	16	090		DCW	@19@		2	2588			57
485	16	100		DC	@MLC@		3	2591			57
486	16	110		DCW	@20@		2	2593			57
487	16	120		DC	@BAV@		3	2596			57
488	16	1 30		DCW	@21@		2	2598			57
489	16	140		DC	@BC9@		3	2601			57
490	16	150		DCW	@22@		2	2603			57
491	16	160		DC	@BCV@		3	2606			58
492	16	170		DCW	@23@		2	2608			58
493	16	180		DC	@BEF@		3	2611			58
494	16	190		DCW	@24@		2	2613			58
495	16	200		DC	@BER@		3	2616			58
496	16	210		DCW	@25@		2	2618			58
497	16	220		DC	@BIN@		3	2621			58

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
498	16	230		DCW	@26@		2	2623			58
499	16	240		DC	@BLC@		3	2626			59
500	16	250		DCW	@27@		2	2628			59
501	17	010		DC	@BPB@		3	2631			59
502	17	020		DCW	@28@		2	2633			59
503	17	030		DC	@BCE@		3	2636			59
504	17	040		DCW	@29@		2	2638			59
505	17	050		DC	@BSS@		3	2641			59
506	17	060		DCW	@30@		2	2643			59
507	17	070		DC	@BSP@		3	2646			60
508	17	080		DCW	@31@		2	2648			60
509	17	090		DC	@RTW@		3	2651			60
510	17	100		DCW	@32@		2	2653			60
511	17	110		DC	@RWD@		3	2656			60
512	17	120		DCW	@33@		2	2658			60
513	17	130		DC	@RWU@		3	2661			60
514	17	140		DCW	@34@		2	2663			60
515	17	150		DC	@SKP@		3	2666			61
516	17	160		DCW	@35@		2	2668			61
517	17	170		DC	@WRF@		3	2671			61
518	17	180		DCW	@36@		2	2673			61
519	17	190		DC	@WRP@		3	2676			61
520	17	200		DCW	@37@		2	2678			61
521	17	210		DC	@WTM@		3	2681			61
522	17	220		DCW	@38@		2	2683			61
523	17	230		DC	@WTW@		3	2686			62
524	17	240		DCW	@39@		2	2688			62
525	17	250		DC	@CCB@		3	2691			62
526	18	010		DCW	@40@		2	2693			62
527	18	020		DC	@SSB@		3	2696			62
528	18	030		DCW	@41@		2	2698			62
529	18	040		DCW	@#@		1	2699			62
530	18	050		DC	@MLCWA@		5	2704			63
531	18	060		DCW	@50@		2	2706			63
532	18	070		DC	@CHAIN@		5	2711			63
533	18	080		DCW	@51@		2	2713			63
534	18	090		DC	@LTORG@		5	2718			63
535	18	100		DCW	@52@		2	2720			63
536	18	110		DCW	@#@		1	2721			63
537	18	120		DC	@MLNS@		4	2725			64
538	18	130		DCW	@60@		2	2727			64
539	18	140		DC	@MLZS@		4	2731			64
540	18	150		DCW	@61@		2	2733			64
541	18	160		DC	@MRCM@		4	2737			64
542	18	170		DCW	@62@		2	2739			64
543	18	180	TABL	DC	@BPCB@		4	2743			64
544	18	190		DCW	@63@		2	2745			64
545	18	200		LTORG					2746		
				DCW	@ @@		3	2748		LIT	65
					@.DI@		3	2751		LIT	65

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
					@.DT@		3	2754		LIT	65
					@.EE@		3	2757		LIT	65
					@.LC@		3	2760		LIT	65
		129			&TABLE1&X2		3	2763	YJ3	ADCON	65
		131			&TABLE2&X2		3	2766	KQ1	ADCON	65
					@ }@		3	2769		LIT	66
					@ @		1	2770		LIT	66
					@ GM@		3	2773		LIT	66
					@ @		3	2776		LIT	66
546	18	210		DCW	@}@		1	2777			66
547	18	220		END					/ 000 080		67

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	010	000	JOB	1401 COBOL - J07						
102	1	020		CTL	661111						
103	1	030		ORG	1300				1300		
104	1	040	X2	EQU	94			0094			
105	1	050	X3	EQU	99			0099			
106	1	060	PUTX	EQU	363			0363			
107	1	070	GETX	EQU	335			0335			
108	1	080	SCRBKT	EQU	1126			1126			
109	1	090	SUPER	EQU	351			0351			
110	1	100	T1	DC	#1	1		1300			4
111	1	110	T2	DC	#1	1		1301			4
112	1	120	T3	DC	#1	1		1302			4
113	1	130	T4	DC	#1	1		1303			4
114	1	140	T5	DC	#1	1		1304			4
115	1	150	T6	DC	#1	1		1305			4
116	1	160	T7	DC	#1	1		1306			4
117	1	170	T8	DC	#1	1		1307			4
118	1	180	T9	DC	#1	1		1308			4
119	1	190	T10	DC	#1	1		1309			4
120	1	200	T11	DC	#1	1		1310			4
121	1	210	T12	DC	#1	1		1311			4
122	1	220	T13	DC	#1	1		1312			4
123	1	230	T14	DC	#1	1		1313			4
124	1	240	T15	DC	#1	1		1314			4
125	1	250	T16	DC	#1	1		1315			4
126	2	010	T17	DC	#1	1		1316			4
127	2	020	T18	DC	#1	1		1317			4
128	2	030		MLC	&N1,X3	7		1318	M E06 099		4
129	2	040	A40	B	GETSX	4		1325	B B09		4
130	2	050		BCE	A40,SY-2,[	8		1329	B T25 C27 [		4
131	2	060		C	SY,@#DC@	7		1337	C C29 E09		5
132	2	070		BE	A41	5		1344	B K87 S		5
133	2	080		C	SY,@.SE@	7		1349	C C29 E12		5
134	2	090		BE	RE	5		1356	B W73 S		5
135	2	100		C	SY,@.DY@	7		1361	C C29 E15		5
136	2	110		BE	DSY	5		1368	B X16 S		5
137	2	120	S	C	SY,@*24@	7		1373	C C29 E18		6
138	2	130		BE	QQ1	5		1380	B Y87 S		6
139	2	140		BCE	SCALE,SY,-	8		1385	B B27 C29 -		6
140	2	150		BCE	SCALE1,SY,&	8		1393	B B50 C29 &		6
141	2	160		BWZ	BKB,SY-1,2	8		1401	V W49 C28 2		6
142	2	170		C	SY,@.LC@	7		1409	C C29 E21		7
143	2	180		BE	A1	5		1416	B Q82 S		7
144	2	190		C	SY,@.MC@	7		1421	C C29 E24		7
145	2	200		BE	R98	5		1428	B W65 S		7
146	2	210		C	SY,@XXJ@	7		1433	C C29 E27		7
147	2	220		BE	SUB1	5		1440	B L56 S		7

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	2	230		C	SY,@XXK@	7		1445	C C29 E30		8
149	2	240		BE	SUB2	5		1452	B L34 S		8
150	2	250		C	SY,@XXL@	7		1457	C C29 E33		8
151	3	010		BE	SUB3	5		1464	B J77 S		8
152	3	020		C	SY,@ZET@	7		1469	C C29 E36		8
153	3	030		BE	KZ1	5		1476	B Z50 S		8
154	3	040		C	SY,@YIN@	7		1481	C C29 E39		9
155	3	050		BE	KZ2	5		1488	B Z58 S		9
156	3	060		C	SY,@ZAX@	7		1493	C C29 E42		9
157	3	070		BE	KZ3	5		1500	B Z66 S		9
158	3	080		C	SY,@YFM@	7		1505	C C29 E45		9
159	3	090		BE	KZ4	5		1512	B Z81 S		9
160	3	100		C	SY,@YAQ@	7		1517	C C29 E48		10
161	3	110		BE	KZ5	5		1524	B Z89 S		10
162	3	120		C	SY,@YNQ@	7		1529	C C29 E51		10
163	3	130		BE	KZ6	5		1536	B Z97 S		10
164	3	140		C	SY,@YIP@	7		1541	C C29 E54		10
165	3	150		BE	KZ7	5		1548	B !05 S		10
166	3	160		C	SY,@ZML@	7		1553	C C29 E57		11
167	3	170		BE	KZ8	5		1560	B !13 S		11
168	3	180		C	SY,@ZMR@	7		1565	C C29 E60		11
169	3	190		BE	KZ9	5		1572	B !21 S		11
170	3	200		C	SY,@ZDY@	7		1577	C C29 E63		11
171	3	210		BE	KZ10	5		1584	B !29 S		11
172	3	220		C	SY,@ZGP@	7		1589	C C29 E66		12
173	3	230		BE	KZ11	5		1596	B !37 S		12
174	3	240		C	SY,@YCL@	7		1601	C C29 E69		12
175	3	250		BE	KZ12	5		1608	B !45 S		12
176	4	010		C	SY,@ZFX@	7		1613	C C29 E72		12
177	4	020		BE	KZ13	5		1620	B !53 S		12
178	4	030		C	SY,@XMN@	7		1625	C C29 E75		13
179	4	040		BE	KZ14	5		1632	B !61 S		13
180	4	050		C	SY,@ZZZ@	7		1637	C C29 E78		13
181	4	060		BE	KZ15	5		1644	B !69 S		13
182	4	070	BKB	BCE	A2,SY,@	8		1649	B Q61 C29 @		13
183	4	080		BWZ	A3,SY,B	8		1657	V M89 C29 B		14
184	4	090	R98	B	PUTSX	4		1665	B A94		14
185	4	100		B	A40	4		1669	B T25		14
186	4	110	RE	SBR	X3,N1	7		1673	H 099 C08		14
187	4	120		MLC	@0@,INDEX	7		1680	M E79 C20		14
188	4	130		CW	STK	4		1687	) C17		14
189	4	140		MLC	@B@,QQQ	7		1691	M E80 K53		15
190	4	150		MLC	@V@,QQQ1	7		1698	M E81 K61		15
191	4	160		MLC	@V@,X0X	7		1705	M E81 Y35		15
192	4	170		B	A40	4		1712	B T25		15
193	4	180	DSY	MLC	@N@,QQQ	7		1716	M E82 K53		15
194	4	190		MLC	@N@,QQQ1	7		1723	M E82 K61		15
195	4	200		MLC	@N@,X0X	7		1730	M E82 Y35		16
196	4	210		B	A40	4		1737	B T25		16
197	4	220	RB1	MLC	@0@,HOLD	7		1741	M E79 C13		16

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
198	4	230		MLC	@B @,SYM		7	1748	M E85	C16	16
199	4	240		B	GOR1		4	1755	B X82		16
200	4	250	GOR	B	GETSX		4	1759	B B09		16
201	5	010		C	SY,@.MC@		7	1763	C C29	E24	17
202	5	020		BE	XX99		5	1770	B Z11	S	17
203	5	030	CCD	A	@1@,HOLD		7	1775	A E86	C13	17
204	5	040	GOR1	B	PUTX		4	1782	B 363		17
205	5	050		DCW	&@.LC@		3	1788	E21		17
206	5	060		B	PUTX		4	1789	B 363		17
207	5	070		DCW	&SYM		3	1795	C16		17
208	5	080		B	PUTX		4	1796	B 363		18
209	5	090		DCW	&@.OP@		3	1802	E89		18
210	5	100	X11	BCE	OUT,HOLD,4		8	1803	B Y65	C13 4	18
211	5	110	X21	BCE	OUT,HOLD,5		8	1811	B Y65	C13 5	18
212	5	120	X41	BCE	OUT,HOLD,7		8	1819	B Y65	C13 7	18
213	5	130	X51	BCE	OUT,HOLD,8		8	1827	B Y65	C13 8	18
214	5	140	X0X	BWZ	MOM,SY,B		8	1835	V J04	C29 B	19
215	5	150	M0K1	B	PUTSX		4	1843	B A94		19
216	5	160	XR1	B	PUTX		4	1847	B 363		19
217	5	170		DCW	&@.MC@		3	1853	E24		19
218	5	180		MLC	@DCW@,SYM		7	1854	M E92	C16	19
219	5	190		B	GOR		4	1861	B X59		19
220	5	200	OUT	B	PUTX		4	1865	B 363		19
221	5	210		DCW	&@ @@		3	1871	E95		20
222	5	220		B	PUTSX		4	1872	B A94		20
223	5	230		B	PUTX		4	1876	B 363		20
224	5	240		DCW	&@ @@		3	1882	E95		20
225	5	250		B	XR1		4	1883	B Y47		20
226	6	010	QQ1	B	PUTSX		4	1887	B A94		20
227	6	020		B	GETSX		4	1891	B B09		20
228	6	030		C	SY,@*24@		7	1895	C C29	E18	21
229	6	040		BU	QQ1		5	1902	B Y87	/	21
230	6	050		B	R98		4	1907	B W65		21
231	6	060	XX99	MLC	@B@,X11		7	1911	M E80	Y03	21
232	6	070		MLC	@B@,X21		7	1918	M E80	Y11	21
233	6	080		MLC	@B@,X41		7	1925	M E80	Y19	21
234	6	090		MLC	@B@,X51		7	1932	M E80	Y27	22
235	6	100		MLC	@A@,CCD		7	1939	M E96	X75	22
236	6	110		B	A40		4	1946	B T25		22
237	6	120	KZ1	SW	T1		4	1950	, T00		22
238	6	130		B	K5		4	1954	B N72		22
239	6	140	KZ2	SW	T2		4	1958	, T01		22
240	6	150		B	K3		4	1962	B N65		22
241	6	160	KZ3	SW	T3		4	1966	, T02		23
242	6	170	KRB	MLC	@N@,CCD		7	1970	M E82	X75	23
243	6	180		B	RB1		4	1977	B X41		23
244	6	190	KZ4	SW	T4		4	1981	, T03		23
245	6	200		B	K1		4	1985	B N29		23
246	6	210	KZ5	SW	T5		4	1989	, T04		23
247	6	220		B	K1		4	1993	B N29		23

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
248	6	230	KZ6	SW	T6		4	1997	, T05		24
249	6	240		B	K1		4	2001	B N29		24
250	6	250	KZ7	SW	T7		4	2005	, T06		24
251	7	010		B	K3		4	2009	B N65		24
252	7	020	KZ8	SW	T8		4	2013	, T07		24
253	7	030		B	KRB		4	2017	B Z70		24
254	7	040	KZ9	SW	T9		4	2021	, T08		24
255	7	050		B	K1		4	2025	B N29		25
256	7	060	KZ10	SW	T10		4	2029	, T09		25
257	7	070		B	KRB		4	2033	B Z70		25
258	7	080	KZ11	SW	T11		4	2037	, T10		25
259	7	090		B	KRB		4	2041	B Z70		25
260	7	100	KZ12	SW	T12		4	2045	, T11		25
261	7	110		B	K1		4	2049	B N29		25
262	7	120	KZ13	SW	T16		4	2053	, T15		26
263	7	130		B	KRB		4	2057	B Z70		26
264	7	140	KZ14	SW	T17		4	2061	, T16		26
265	7	150		B	K5		4	2065	B N72		26
266	7	160	KZ15	SW	T18		4	2069	, T17		26
267	7	170		B	KRB		4	2073	B Z70		26
268	7	180	B1	B	PUTX		4	2077	B 363		26
269	7	190		DCW	&@***@		3	2083	E99		27
270	7	200		B	G ETSX		4	2084	B B09		27
271	7	210		B	GETSX		4	2088	B B09		27
272	7	220		B	PUTSX		4	2092	B A94		27
273	7	230		B	GETSX		4	2096	B B09		27
274	7	240		B	A40		4	2100	B T25		27
275	7	250	MOM	C	SY,N1		7	2104	C C29 C08		27
276	8	010		BE	MOM1		5	2111	B J44 S		28
277	8	020		C	SY,N2		7	2116	C C29 B99		28
278	8	030		BE	MOM2		5	2123	B J55 S		28
279	8	040		C	SY,N3		7	2128	C C29 B90		28
280	8	050		BE	MOM3		5	2135	B J66 S		28
281	8	060		B	R98		4	2140	B W65		28
282	8	070	MOM1	MLC	INDX1,SY		7	2144	M C05 C29		29
283	8	080		B	M0KA		4	2151	B M78		29
284	8	090	MOM2	MLC	INDX2,SY		7	2155	M B96 C29		29
285	8	100		B	M0KA		4	2162	B M78		29
286	8	110	MOM3	MLC	INDX3,SY		7	2166	M B87 C29		29
287	8	120		B	M0KA		4	2173	B M78		29
288	8	130	SUB3	MLC	@8@,QQQ&7		7	2177	M F00 K60		30
289	8	140		MLC	@9@,PPP&7		7	2184	M F01 K41		30
290	8	150		SW	T15		4	2191	, T14		30
291	8	160	KRK	MLC	@ B@,SYM		7	2195	M F04 C16		30
292	8	170		MLC	@0@,COUNT		7	2202	M E79 C12		30
293	8	180	GO	B	PUTX		4	2209	B 363		30
294	8	190		DCW	&@.LC@		3	2215	E21		30
295	8	200		B	PUTX		4	2216	B 363		31
296	8	210		DCW	SYM		3	2222	C16		31
297	8	220		B	PUTX		4	2223	B 363		31

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
298	8	230		DCW	&@.OP@		3	2229	E89		31
299	8	240		B	PUTSX		4	2230	B A94		31
300	8	250	PPP	BCE	A40,COUNT,*		8	2234	B T25 C12 *		31
301	9	010		B	PUTX		4	2242	B 363		31
302	9	020		DCW	&@.MC@		3	2248	E24		32
303	9	030		B	GETSX		4	2249	B B09		32
304	9	040	QQQ	BCE	R2,COUNT,*		8	2253	B L78 C12 *		32
305	9	050	QQQ1	BWZ	R1,SY,B		8	2261	V M15 C29 B		32
306	9	060	RON	MLC	@DCW@,SYM		7	2269	M E92 C16		32
307	9	070		A	@1@,COUNT		7	2276	A E86 C12		32
308	9	080		B	GO		4	2283	B K09		33
309	9	090	A41	MLC	&@#DC@,XB&6		7	2287	M F07 L20		33
310	9	100	AAA	B	GETSX		4	2294	B B09		33
311	9	110		C	SY,@.XF@		7	2298	C C29 F10		33
312	9	120		BU	XB		5	2305	B L14 /		33
313	9	130		SW	1283		4	2310	, S83		33
314	9	140	XB	C	SY,*		7	2314	C C29 L20		33
315	9	150		BE	A40		5	2321	B T25 S		34
316	9	160		B	PUTSX		4	2326	B A94		34
317	9	170		B	AAA		4	2330	B K94		34
318	9	180	SUB2	MLC	@6@,QQQ&7		7	2334	M F11 K60		34
319	9	190		MLC	@7@,PPP&7		7	2341	M F12 K41		34
320	9	200		SW	T14		4	2348	, T13		34
321	9	210		B	KRK		4	2352	B J95		34
322	9	220	SUB1	MLC	@4@,QQQ&7		7	2356	M F13 K60		35
323	9	230		MLC	@5@,PPP&7		7	2363	M F14 K41		35
324	9	240		SW	T13		4	2370	, T12		35
325	9	250		B	KRK		4	2374	B J95		35
326	10	010	R2	MLC	SY,0&X3		7	2378	M C29 0?0		35
327	10	020		SBR	X3		4	2385	H 099		35
328	10	030		B	RON		4	2389	B K69		35
329	10	040	RES	SBR	X3,N2		7	2393	H 099 B99		36
330	10	050		MLC	@1@,INDEX		7	2400	M E86 C20		36
331	10	060		SW	STK		4	2407	, C17		36
332	10	070		B	R2A		4	2411	B M31		36
333	10	080	R1	BCE	RES,0&X3,\$		8	2415	B L93 0?0 \$		36
334	10	090		BW	RES,STK		8	2423	V L93 C17 1		36
335	10	100	R2A	A	@1@,INDEX		7	2431	A E86 C20		37
336	10	110		MLC	SY,0&X3		7	2438	M C29 0?0		37
337	10	120		SBR	X3		4	2445	H 099		37
338	10	130		MLC	INDEX,0&X3		7	2449	M C20 0?0		37
339	10	140		SBR	X3		4	2456	H 099		37
340	10	150		MLC	INDEX,SY		7	2460	M C20 C29		37
341	10	160		MLC	@&X@,SY-1		7	2467	M F16 C28		38
342	10	170		B	RON		4	2474	B K69		38
343	10	180	M0KA	MLC	@&X@,SY-1		7	2478	M F16 C28		38
344	10	190		B	M0K1		4	2485	B Y43		38
345	10	200	A3	C	SY,N1		7	2489	C C29 C08		38
346	10	210		BE	Z12		5	2496	B O26 S		38
347	10	220		C	SY,N2		7	2501	C C29 B99		39

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
348	10	230		BE	Z2		5	2508	B N90 S		39
349	10	240		C	SY,N3		7	2513	C C29 B90		39
350	10	250		BE	Z3		5	2520	B O08 S		39
351	11	010		B	R98		4	2525	B W65		39
352	11	020	K1	MLC	@N@,X51		7	2529	M E82 Y27		39
353	11	030	K01	MLC	@N@,X21		7	2536	M E82 Y11		40
354	11	040		MLC	@N@,X11		7	2543	M E82 Y03		40
355	11	050		B	RB1		4	2550	B X41		40
356	11	060	K2	MLC	@N@,X41		7	2554	M E82 Y19		40
357	11	070		B	K01		4	2561	B N36		40
358	11	080	K3	MLC	@N@,X11		7	2565	M E82 Y03		40
359	11	090	K5	MLC	@N@,X41		7	2572	M E82 Y19		41
360	11	100		MLC	@N@,X51		7	2579	M E82 Y27		41
361	11	110		B	RB1		4	2586	B X41		41
362	11	120	Z2	MLC	&INDX2,CRC&3		7	2590	M F19 Q21		41
363	11	130		MLC	S2,TOTAL		7	2597	M B93 C11		41
364	11	140		B	Z1		4	2604	B O40		41
365	11	150	Z3	MLC	&INDX3,CRC&3		7	2608	M F22 Q21		42
366	11	160		MLC	S3,TOTAL		7	2615	M B84 C11		42
367	11	170		B	Z1		4	2622	B O40		42
368	11	180	Z12	MLC	S1,TOTAL		7	2626	M C02 C11		42
369	11	190		MLC	&INDX1,CRC&3		7	2633	M F25 Q21		42
370	11	200	Z1	B	GETSX		4	2640	B B09		42
371	11	210		BCE	D1,SY,@		8	2644	B P44 C29 @		43
372	11	220		BCE	B7,SY,,		8	2652	B P97 C29 ,		43
373	11	230		C	SY,@.MC@		7	2660	C C29 E24		43
374	11	240		BE	DONE		5	2667	B Q50 S		43
375	11	250		BCE	AQ1,SY,-		8	2672	B P33 C29 -		43
376	12	010		BCE	AQ1,SY,&		8	2680	B P33 C29 &		44
377	12	020		BWZ	B3,SY,2		8	2688	V P79 C29 2		44
378	12	030		MLZS	SY,RR1&7		7	2696	Y C29 P10		44
379	12	040	RR1	BCE	R7,SYM,*		8	2703	B P22 C16 *		44
380	12	050		MLZS	@-@,SY		7	2711	Y F26 C29		44
381	12	060		B	B10		4	2718	B P86		45
382	12	070	R7	MLZS	@&@,SY		7	2722	Y F27 C29		45
383	12	080		B	B10		4	2729	B P86		45
384	12	090	AQ1	MLC	SY,SYM		7	2733	M C29 C16		45
385	12	100		B	Z1		4	2740	B O40		45
386	12	110	D1	B	GETX		4	2744	B 335		45
387	12	120		DCW	X2		3	2750	094		45
388	12	130		DCW	ERR		3	2753	B80		46
389	12	140		MLC	TABLE&X2,SY		7	2754	M CK9 C29		46
390	12	150		MLZS	SY-2,SY		7	2761	Y C27 C29		46
391	12	160		MLC	@0@,SY-2		7	2768	M E79 C27		46
392	12	170		B	B10		4	2775	B P86		46
393	12	180	B3	MLZS	SYM,SY		7	2779	Y C16 C29		46
394	12	190	B10	A	SY,TOTAL		7	2786	A C29 C11		47
395	12	200		B	Z1		4	2793	B O40		47
396	12	210	B7	MLC	@ ,@,CONT		7	2797	M F30 C26		47
397	12	220	BB1	MLZS	@ @,TOTAL		7	2804	Y F31 C11		47

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
398	12	230		B	PUTX		4	2811	B 363		47
399	12	240		DCW	TOTAL		3	2817	C11		47
400	12	250	CRC	MLC	*, PLACE		7	2818	M Q24 C23		47
401	13	010		MLC	@&X@, PLACE-1		7	2825	M F16 C22		48
402	13	020		B	PUTX		4	2832	B 363		48
403	13	030		DCW	PLACE		3	2838	C23		48
404	13	040		B	PUTX		4	2839	B 363		48
405	13	050		DCW	CONT		3	2845	C26		48
406	13	060		B	A40		4	2846	B T25		48
407	13	070	DONE	MLC	!.MC@,CONT		7	2850	M E24 C26		48
408	13	080		B	BB1		4	2857	B Q04		49
409	13	090	A2	B	GETX		4	2861	B 335		49
410	13	100		DCW	X2		3	2867	094		49
411	13	110		DCW	ERR		3	2870	B80		49
412	13	120		MLC	TABLE&X2, SY		7	2871	M CK9 C29		49
413	13	130		B	R98		4	2878	B W65		49
414	13	140	A1	B	GETSX		4	2882	B B09		49
415	13	150		BCE	B1, SY-2, *		8	2886	B !77 C27 *		50
416	13	160		B	PUTX		4	2894	B 363		50
417	13	170		DCW	&!.LC@		3	2900	E21		50
418	13	180		BCE	AROT, SY-1, /		8	2901	B A60 C28 /		50
419	13	190	Q1	BCE	A5, SY-1, 1		8	2909	B ?17 C28 1		50
420	13	200		BCE	A8, SY-1, 4		8	2917	B ?28 C28 4		50
421	13	210		BCE	A9, SY-1, 5		8	2925	B ?39 C28 5		51
422	13	220		BCE	A20, SY-1, 3		8	2933	B A49 C28 3		51
423	13	230		BCE	A10, SY-1, 6		8	2941	B ?50 C28 6		51
424	13	240		BCE	A11, SY-1, 7		8	2949	B ?61 C28 7		51
425	13	250		BCE	A12, SY-1, 8		8	2957	B ?72 C28 8		52
426	14	010		BCE	A14, SY-1, B		8	2965	B ?83 C28 B		52
427	14	020		BCE	A15, SY-1, C		8	2973	B ?94 C28 C		52
428	14	030		BCE	A16, SY-1, D		8	2981	B A05 C28 D		52
429	14	040		BCE	A17, SY-1, F		8	2989	B A16 C28 F		53
430	14	050		BCE	A18, SY-1, G		8	2997	B A27 C28 G		53
431	14	060		BCE	A19, SY-1, I		8	3005	B A38 C28 I		53
432	14	070		B	R98		4	3013	B W65		53
433	14	080	A5	B	PUTX		4	3017	B 363		53
434	14	090		DCW	&@MCM@		3	3023	F34		53
435	14	100		B	A40		4	3024	B T25		53
436	14	110	A8	B	PUTX		4	3028	B 363		54
437	14	120		DCW	&@BWZ@		3	3034	F37		54
438	14	130		B	A40		4	3035	B T25		54
439	14	140	A9	B	PUTX		4	3039	B 363		54
440	14	150		DCW	&@NOP@		3	3045	F40		54
441	14	160		B	A40		4	3046	B T25		54
442	14	170	A10	B	PUTX		4	3050	B 363		54
443	14	180		DCW	&@DCW@		3	3056	E92		55
444	14	190		B	A40		4	3057	B T25		55
445	14	200	A11	B	PUTX		4	3061	B 363		55
446	14	210		DCW	&@ORG@		3	3067	F43		55
447	14	220		B	A40		4	3068	B T25		55

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
448	14	230	A12	B	PUTX		4	3072	B 363		55
449	14	240		DCW	&@DSA@		3	3078	F46		55
450	14	250		B	A40		4	3079	B T25		56
451	15	010	A14	B	PUTX		4	3083	B 363		56
452	15	020		DCW	&@EQU@		3	3089	F49		56
453	15	030		B	A40		4	3090	B T25		56
454	15	040	A15	B	PUTX		4	3094	B 363		56
455	15	050		DCW	&@MCS@		3	3100	F52		56
456	15	060		B	A40		4	3101	B T25		56
457	15	070	A16	B	PUTX		4	3105	B 363		57
458	15	080		DCW	&@SBR@		3	3111	F55		57
459	15	090		B	A40		4	3112	B T25		57
460	15	100	A17	B	PUTX		4	3116	B 363		57
461	15	110		DCW	&@BCE@		3	3122	F58		57
462	15	120		B	A40		4	3123	B T25		57
463	15	130	A18	B	PUTX		4	3127	B 363		57
464	15	140		DCW	&@MLC@		3	3133	F61		58
465	15	150		B	A40		4	3134	B T25		58
466	15	160	A19	B	PUTX		4	3138	B 363		58
467	15	170		DCW	&@MCE@		3	3144	F64		58
468	15	180		B	A40		4	3145	B T25		58
469	15	190	A20	B	PUTX		4	3149	B 363		58
470	15	200		DCW	&@LCA@		3	3155	F67		58
471	15	210		B	A40		4	3156	B T25		59
472	15	220	AROT	B	GETSX		4	3160	B B09		59
473	15	230		B	GETSX		4	3164	B B09		59
474	15	240		B	PUTSX		4	3168	B A94		59
475	15	250		B	PUTX		4	3172	B 363		59
476	16	010		DCW	&@.OP@		3	3178	E89		59
477	16	020		B	A40		4	3179	B T25		59
478	16	030	EOP	B	PUTSX		4	3183	B A94		60
479	16	040		B	SUPER		4	3187	B 351		60
480	16	050		DCW	@J08@		3	3193			60
481	16	060	PUTSX	SBR	ZZZ&3		4	3194	H B08		60
482	16	070		B	PUTX		4	3198	B 363		60
483	16	080		DCW	SY		3	3204	C29		60
484	16	090	ZZZ	B	*		4	3205	B B08		60
485	16	100	GETSX	SBR	EEE&3		4	3209	H B26		61
486	16	110		B	GETX		4	3213	B 335		61
487	16	120		DCW	SY		3	3219	C29		61
488	16	130		DCW	EOP		3	3222	A83		61
489	16	140	EEE	B	*		4	3223	B B26		61
490	16	150	SCALE	B	GETSX		4	3227	B B09		61
491	16	160		BWZ	SCC,SY,2		8	3231	V B62	C29 2	61
492	16	170	RRR	B	PUTX		4	3239	B 363		62
493	16	180		DCW	&@ &@		3	3245	F70		62
494	16	190		B	SALS		4	3246	B B69		62
495	16	200	SCALE1	B	GETSX		4	3250	B B09		62
496	16	210		BWZ	RRR,SY,2		8	3254	V B39	C29 2	62
497	16	220	SCC	B	PUTX		4	3262	B 363		62

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
498	16	230		DCW	&@ -@		3	3268	F73		62
499	16	240	SALS	MLZS	@ @,SY		7	3269	Y F31 C29		63
500	16	250		B	R98		4	3276	B W65		63
501	17	010	ERR	H			1	3280	.		63
502	17	020	RESET	EQU	*&1			3281			
503	17	030		DCW	@\$@		1	3281			63
504	17	040	S3	DCW	#3		3	3284			63
505	17	050	INDX3	DCW	#3		3	3287			63
506	17	060	N3	DCW	#3		3	3290			63
507	17	070	S2	DCW	#3		3	3293			64
508	17	080	INDX2	DCW	#3		3	3296			64
509	17	090	N2	DCW	#3		3	3299			64
510	17	100	S1	DCW	#3		3	3302			64
511	17	110	INDX1	DCW	#3		3	3305			64
512	17	120	N1	DCW	# 3		3	3308			64
513	17	130	TOTAL	DCW	@000@		3	3311			64
514	17	140	COUNT	DCW	@0@		1	3312			65
515	17	150	HOLD	DCW	#1		1	3313			65
516	17	160	SYM	DCW	#3		3	3316			65
517	17	170	STK	DC	#1		1	3317			65
518	17	180	INDEX	DCW	@000@		3	3320			65
519	17	190	PLACE	DCW	#3		3	3323			65
520	17	200	CONT	DCW	#3		3	3326			65
521	17	210	SY	DCW	#3		3	3329			65
522	17	220	TABLE	EQU	*			3329			
523	17	230		DCW	@&01@		3	3332			66
524	17	240		DCW	@&00@		3	3335			66
525	17	250		DCW	@GNN@		3	3338			66
526	18	010		DCW	@&20@		3	3341			66
527	18	020		DCW	@SHR@		3	3344			66
528	18	030		DCW	@DA1@		3	3347			66
529	18	040		DCW	@444@		3	3350			66
530	18	050		DCW	@CNT@		3	3353			67
531	18	060		DCW	@*&1@		3	3356			67
532	18	070		DCW	@ACM@		3	3359			67
533	18	080		DCW	@&10@		3	3362			67
534	18	090		DCW	@ @		3	3365			67
535	18	100		DCW	@-20@		3	3368			67
536	18	110		DCW	@@E@@		3	3371			67
537	18	120		DCW	@@ @@		3	3374			68
538	18	130		DCW	@ @@		3	3377			68
539	18	140		DCW	@CNR@		3	3380			68
540	18	150		DCW	@001@		3	3383			68
541	18	160		DCW	@-21@		3	3386			68
542	18	170		DCW	@ S@		3	3389			68
543	18	180		DCW	@ |@		3	3392			68
544	18	190		DCW	@ -@		3	3395			69
545	18	200		DCW	@@Z@@		3	3398			69
546	18	210		DCW	@@A@@		3	3401			69
547	18	220		DCW	@@0@@		3	3404			69

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
548	18	230		DCW	@*&5@		3	3407			69
549	18	240		DCW	@*&8@		3	3410			69
550	18	250		DCW	@ &@		3	3413			69
551	19	010		DCW	@ 1@		3	3416			70
552	19	020		DCW	@*-6@		3	3419			70
553	19	030		DCW	@000@		3	3422			70
554	19	040		DCW	@@B@@		3	3425			70
555	19	050		DCW	@&03@		3	3428			70
556	19	060		DCW	@@N@@		3	3431			70
557	19	070		DCW	@&07@		3	3434			70
558	19	080		DCW	@#05@		3	3437			71
559	19	090		DCW	@040@		3	3440			71
560	19	100		DCW	@ I@		3	3443			71
561	19	110		DCW	@&80@		3	3446			71
562	19	120		DCW	@&05@		3	3449			71
563	19	130		DCW	@*&7@		3	3452			71
564	19	140		DCW	@ *@		3	3455			71
565	19	150		DCW	@*-4@		3	3458			72
566	19	160		DCW	@ F@		3	3461			72
567	19	170		DCW	@ GM@		3	3464			72
568	19	180		DCW	@0?@@		3	3467			72
569	19	190		DCW	@00A@		3	3470			72
570	19	200		DCW	@*-1@		3	3473			72
571	19	210		DCW	@ 0@		3	3476			72
572	19	220		DCW	@IOC@		3	3479			73
573	19	230		DCW	@UXT@		3	3482			73
574	19	240		DCW	@.MC@		3	3485			73
575	19	250		DCW	@@\$@@		3	3488			73
576	20	010		DCW	@@NO@		3	3491			73
577	20	020		DCW	@ L@		3	3494			73
578	20	030		DCW	@OPN@		3	3497			73
579	20	040		DCW	@-17@		3	3500			74
580	20	050		DCW	@LOZ@		3	3503			74
581	20	060		LTORG					3504		
		128		DCW	&N1		3	3506	C08	ADCON	74
					@#DC@		3	3509		LIT	74
					@.SE@		3	3512		LIT	74
					@.DY@		3	3515		LIT	74
					@*24@		3	3518		LIT	74
					@.LC@		3	3521		LIT	75
					@.MC@		3	3524		LIT	75
					@XXJ@		3	3527		LIT	75
					@XXK@		3	3530		LIT	75
					@XXL@		3	3533		LIT	75
					@ZET@		3	3536		LIT	75
					@YIN@		3	3539		LIT	75
					@ZAX@		3	3542		LIT	76
					@YFM@		3	3545		LIT	76
					@YAQ@		3	3548		LIT	76
					@YNQ@		3	3551		LIT	76

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
					@YIP@		3	3554		LIT	76
					@ZML@		3	3557		LIT	76
					@ZMR@		3	3560		LIT	76
					@ZDY@		3	3563		LIT	77
					@ZGP@		3	3566		LIT	77
					@YCL@		3	3569		LIT	77
					@ZFFZ@		3	3572		LIT	77
					@XMN@		3	3575		LIT	77
					@ZZXZ@		3	3578		LIT	77
					@0@		1	3579		LIT	77
					@B@		1	3580		LIT	78
					@V@		1	3581		LIT	78
					@N@		1	3582		LIT	78
					@B @		3	3585		LIT	78
					@1@		1	3586		LIT	78
					@.OP@		3	3589		LIT	78
					@DCW@		3	3592		LIT	78
					@ @@		3	3595		LIT	79
					@A@		1	3596		LIT	79
					@***@		3	3599		LIT	79
					@8@		1	3600		LIT	79
					@9@		1	3601		LIT	79
					@ B@		3	3604		LIT	79
309					&@#DC@		3	3607	E09	ADCON	79
					@.XF@		3	3610		LIT	80
					@6@		1	3611		LIT	80
					@7@		1	3612		LIT	80
					@4@		1	3613		LIT	80
					@5@		1	3614		LIT	80
					@&X@		2	3616		LIT	80
362					&INDX2		3	3619	B96	ADCON	80
365					&INDX3		3	3622	B87	ADCON	81
369					&INDX1		3	3625	C05	ADCON	81
					@-@		1	3626		LIT	81
					@&@		1	3627		LIT	81
					@ ,@		3	3630		LIT	81
					@ @		1	3631		LIT	81
					@MCM@		3	3634		LIT	81
					@BWZ@		3	3637		LIT	82
					@NOP@		3	3640		LIT	82
					@ORG@		3	3643		LIT	82
					@DSA@		3	3646		LIT	82
					@EQU@		3	3649		LIT	82
					@MCS@		3	3652		LIT	82
					@SBR@		3	3655		LIT	82
					@BCE@		3	3658		LIT	83
					@MLC@		3	3661		LIT	83
					@MCE@		3	3664		LIT	83
					@LCA@		3	3667		LIT	83
					@ &@		3	3670		LIT	83

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
					@ -@		3	3673		LIT	83
582	20	070		ORG					3674		
583	20	080		DCW	@}@		1	3674			83
584	20	090		END					/ 000 080		84

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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	010	000	JOB	1401 COBOL - J08						
102	1	020		CTL	631 11						
103	1	030		ORG	1320				1320		
104	1	040	SUPER	EQU	351			0351			
105	1	050	T1	EQU	1300			1300			
106	1	060	T2	EQU	T1&1			1301			
107	1	070	T3	EQU	T1&2			1302			
108	1	080	T4	EQU	T1&3			1303			
109	1	090	T5	EQU	T1&4			1304			
110	1	100	T6	EQU	T1&5			1305			
111	1	110	T7	EQU	T1&6			1306			
112	1	120	T8	EQU	T1&7			1307			
113	1	130	T9	EQU	T1&8			1308			
114	1	140	T10	EQU	T1&9			1309			
115	1	150	T11	EQU	T1&10			1310			
116	1	160	T12	EQU	T1&11			1311			
117	1	170	T13	EQU	T1&12			1312			
118	1	180	T14	EQU	T1&13			1313			
119	1	190	T15	EQU	T1&14			1314			
120	1	200	T16	EQU	T1&15			1315			
121	1	210	T17	EQU	T1&16			1316			
122	1	220	T18	EQU	T1&17			1317			
123	1	230	X2	EQU	94			0094			
124	1	240	GETX	EQU	335			0335			
125	1	250	X1	EQU	89			0089			
126	2	010	PUTX	EQU	363			0363			
127	2	020	IORW	EQU	343			0343			
128	2	030		BW	IOCS,86	8		1320	V L06	086 1	4
129	2	040	X01	B	GETBLK	4		1328	B P40		4
130	2	050		DCW	SY	3		1334	Q98		4
131	2	060		DCW	X01	3		1337	T28		4
132	2	070		C	SY,@.SN@	7		1338	C Q98	F56	4
133	2	080		BE	LRXR	5		1345	B W63	S	4
134	2	090	XXX5	C	SY,@.DD@	7		1350	C Q98	F59	4
135	2	100	XR1	BE	X01	5		1357	B T28	S	5
136	2	110		C	SY,@.IC@	7		1362	C Q98	F62	5
137	2	120	XR2	BU	X01	5		1369	B T28	/	5
138	2	130	X03	B	GETTP	4		1374	B P55		5
139	2	140		DCW	SY	3		1380	Q98		5
140	2	150		DCW	X03	3		1383	T74		5
141	2	160		C	SY,@.DT@	7		1384	C Q98	F65	5
142	2	170	XR5	BE	X06	5		1391	B V16	S	6
143	2	180		C	SY,@.DI@	7		1396	C Q98	F68	6
144	2	190	XR6	BE	X06	5		1403	B V16	S	6
145	2	200		C	SY,@.IE@	7		1408	C Q98	F71	6
146	2	210	XR7	BE	X01B	5		1415	B Z41	S	6
147	2	220		C	SY,@.IS@	7		1420	C Q98	F74	6

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	2	230	XR8	BE	X01B		5	1427	B Z41 S		7
149	2	240		C	SY,@.ED@		7	1432	C Q98 F77		7
150	2	250	XR13	BE	X06		5	1439	B V16 S		7
151	3	010		C	SY,@.LT@		7	1444	C Q98 F80		7
152	3	020	XR12	BE	X07		5	1451	B V49 S		7
153	3	030		C	SY,@.DL@		7	1456	C Q98 F83		7
154	3	040	XR14	BE	X06		5	1463	B V16 S		8
155	3	050		C	SY,@.DA@		7	1468	C Q98 F86		8
156	3	060	XR3	BE	X08		5	1475	B V79 S		8
157	3	070		C	SY,@.LD@		7	1480	C Q98 F89		8
158	3	080	XR15	BE	X10		5	1487	B Z56 S		8
159	3	090		C	SY,@.LL@		7	1492	C Q98 F92		8
160	3	100	XR16	BE	X06		5	1499	B V16 S		9
161	3	110		C	SY,@.CC@		7	1504	C Q98 F95		9
162	3	120	XR9	BU	X03		5	1511	B T74 /		9
163	3	130	X06	B	GETTP		4	1516	B P55		9
164	3	140		DCW	SY		3	1522	Q98		9
165	3	150		DCW	X06		3	1525	V16		9
166	3	160		C	SY,@.DE@		7	1526	C Q98 F98		9
167	3	170		BE	X03		5	1533	B T74 S		10
168	3	180		B	PUTX		4	1538	B 363		10
169	3	190		DCW	SY		3	1544	Q98		10
170	3	200		B	X06		4	1545	B V16		10
171	3	210	X07	B	GETTP		4	1549	B P55		10
172	3	220		DCW	SY		3	1555	Q98		10
173	3	230		DCW	X07		3	1558	V49		10
174	3	240		C	SY,@.DE@		7	1559	C Q98 F98		11
175	3	250		BE	X03		5	1566	B T74 S		11
176	4	010		SW	SWITCH		4	1571	, R00		11
177	4	020		B	X03		4	1575	B T74		11
178	4	030	X08	B	GETTP		4	1579	B P55		11
179	4	040		DCW	SY		3	1585	Q98		11
180	4	050		DCW	X08		3	1588	V79		11
181	4	060		C	SY,@.DE@		7	1589	C Q98 F98		12
182	4	070		BE	X03		5	1596	B T74 S		12
183	4	080		SW	SWT11		4	1601	, R01		12
184	4	090		B	X03		4	1605	B T74		12
185	4	100	AR7	CW	XR2&4		4	1609	) T73		12
186	4	110		MLC	@N@,XR1		7	1613	M F99 T57		12
187	4	120		MLC	@N@,XR5		7	1620	M F99 T91		12
188	4	130		MLC	@N@,XR6		7	1627	M F99 U03		13
189	4	140		SBR	XR7&3,D0X		7	1634	H U18 Z64		13
190	4	150		MLC	@N@,XR8		7	1641	M F99 U27		13
191	4	160		SBR	XR3&3,X06		7	1648	H U78 V16		13
192	4	170		SW	XR9&4		4	1655	, V15		13
193	4	180		B	X01		4	1659	B T28		13
194	4	190	LRXR	CW	SWW		4	1663	) Q99		14
195	4	200		B	XXX5		4	1667	B T50		14
196	4	210	B1	SBR	X2		4	1671	H 094		14
197	4	220		MLC	@ZET@,INCL		7	1675	M G02 E24		14

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
198	4	230		B	OUTPUT		4	1682	B K30		14
199	4	240	B2	SBR	X2		4	1686	H 094		14
200	4	250		MLC	@YIN@, INCL		7	1690	M G05 E24		14
201	5	010		B	OUTPUT		4	1697	B K30		15
202	5	020	B3	SBR	X2		4	1701	H 094		15
203	5	030		MLC	@ZAX@, INCL		7	1705	M G08 E24		15
204	5	040		B	OUTPUT		4	1712	B K30		15
205	5	050	B4	SBR	X2		4	1716	H 094		15
206	5	060		MLC	@YFM@, INCL		7	1720	M G11 E24		15
207	5	070		B	OUTPUT		4	1727	B K30		15
208	5	080	B5	SBR	X2		4	1731	H 094		16
209	5	090		MLC	@YAQ@, INCL		7	1735	M G14 E24		16
210	5	100		B	OUTPUT		4	1742	B K30		16
211	5	110	B6	SBR	X2		4	1746	H 094		16
212	5	120		MLC	@YNQ@, INCL		7	1750	M G17 E24		16
213	5	130		B	OUTPUT		4	1757	B K30		16
214	5	140	B7	SBR	X2		4	1761	H 094		16
215	5	150		MLC	@YIP@, INCL		7	1765	M G20 E24		17
216	5	160		B	OUTPUT		4	1772	B K30		17
217	5	170	B8	SBR	X2		4	1776	H 094		17
218	5	180		MLC	@ZML@, INCL		7	1780	M G23 E24		17
219	5	190		B	OUTPUT		4	1787	B K30		17
220	5	200	B9	SBR	X2		4	1791	H 094		17
221	5	210		MLC	@ZMR@, INCL		7	1795	M G26 E24		17
222	5	220		B	OUTPUT		4	1802	B K30		18
223	5	230	B10	SBR	X2		4	1806	H 094		18
224	5	240		MLC	@ZDY@, INCL		7	1810	M G29 E24		18
225	5	250		B	OUTPUT		4	1817	B K30		18
226	6	010	B11	SBR	X2		4	1821	H 094		18
227	6	020		MLC	@ZGP@, INCL		7	1825	M G32 E24		18
228	6	030		B	OUTPUT		4	1832	B K30		18
229	6	040	B12	SBR	X2		4	1836	H 094		19
230	6	050		MLC	@YCL@, INCL		7	1840	M G35 E24		19
231	6	060		B	OUTPUT		4	1847	B K30		19
232	6	070	B13	SBR	X2		4	1851	H 094		19
233	6	080		MLC	@XXJ@, INCL		7	1855	M G38 E24		19
234	6	090		B	OUTPUT		4	1862	B K30		19
235	6	100	B14	SBR	X2		4	1866	H 094		19
236	6	110		MLC	@XXK@, INCL		7	1870	M G41 E24		20
237	6	120		B	OUTPUT		4	1877	B K30		20
238	6	130	B15	SBR	X2		4	1881	H 094		20
239	6	140		MLC	@XXL@, INCL		7	1885	M G44 E24		20
240	6	150		B	OUTPUT		4	1892	B K30		20
241	6	160	B16	SBR	X2		4	1896	H 094		20
242	6	170		MLC	@ZFZ@, INCL		7	1900	M G47 E24		20
243	6	180		B	OUTPUT		4	1907	B K30		21
244	6	190	B17	SBR	X2		4	1911	H 094		21
245	6	200		MLC	@XMN@, INCL		7	1915	M G50 E24		21
246	6	210		B	OUTPUT		4	1922	B K30		21
247	6	220	B18	SBR	X2		4	1926	H 094		21

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
248	6	230		MLC	@ZXX@, INCL	7		1930	M G53 E24		21
249	6	240		B	OUTPUT	4		1937	B K30		21
250	6	250	X01B	SBR	XR1&3, X03	7		1941	H T60 T74		22
251	7	010		SW	XR2&4	4		1948	, T73		22
252	7	020		B	X01	4		1952	B T28		22
253	7	030	X10	BW	AR7, SWT11, 1	8		1956	V W09 R01 1		22
254	7	040	DOX	BW	B17, T17	8		1964	V Z11 T16 1		22
255	7	050		BW	B13, T13	8		1972	V Y51 T12 1		22
256	7	060		BW	B14, T14	8		1980	V Y66 T13 1		23
257	7	070		BW	B15, T15	8		1988	V Y81 T14 1		23
258	7	080		BW	B5, T5	8		1996	V X31 T04 1		23
259	7	090		BW	B12, T12	8		2004	V Y36 T11 1		23
260	7	100		BW	B2, T2	8		2012	V W86 T01 1		24
261	7	110		BW	B7, T7	8		2020	V X61 T06 1		24
262	7	120		BW	B3, T3	8		2028	V X01 T02 1		24
263	7	130		BW	B10, T10	8		2036	V Y06 T09 1		24
264	7	140		BW	B1, T1	8		2044	V W71 T00 1		25
265	7	150		BW	B16, T16	8		2052	V Y96 T15 1		25
266	7	160		BW	B11, T11	8		2060	V Y21 T10 1		25
267	7	170		BW	B8, T8	8		2068	V X76 T07 1		25
268	7	180		BW	B9, T9	8		2076	V X91 T08 1		26
269	7	190		BW	B18, T18	8		2084	V Z26 T17 1		26
270	7	200		C	INCL, @ @	7		2092	C E24 G56		26
271	7	210		BE	NXT1	5		2099	B J15 S		26
272	7	220		MLC	@ZZZ@, INCL	7		2104	M G59 E24		26
273	7	230		B	OXRQ	4		2111	B K26		26
274	7	240	NXT1	BWZ	NXTA, 85, 1	8		2115	V J32 085 1		27
275	7	250		MLC	BAA, BEE-1	7		2123	M F43 F06		27
276	8	010		MLC		1		2130	M		27
277	8	020		MLC		1		2131	M		27
278	8	030	NXTA	SBR	OUTPUT&3, BEG1	7		2132	H K33 E19		27
279	8	040		B	OXRQ	4		2139	B K26		27
280	8	050		SBR	OUTPUT&3, LIST	7		2143	H K33 E48		27
281	8	060		B	OXRQ	4		2150	B K26		28
282	8	070		BWZ	K1, SWITCH, 1	8		2154	V J66 R00 1		28
283	8	080		B	XXX	4		2162	B O23		28
284	8	090	K1	SBR	XR1&3, X03	7		2166	H T60 T74		28
285	8	100		MLC	@B@, XR1	7		2173	M G60 T57		28
286	8	110		MLC	@N@, XR13	7		2180	M F99 U39		28
287	8	120		SBR	XR12&3, X06	7		2187	H U54 V16		29
288	8	130		MLC	@N@, XR14	7		2194	M F99 U63		29
289	8	140		MLC	@N@, XR3	7		2201	M F99 U75		29
290	8	150		SBR	XR15&3, XXX	7		2208	H U90 O23		29
291	8	160		MLC	@N@, XR16	7		2215	M F99 U99		29
292	8	170		B	X01	4		2222	B T28		29
293	8	180	OXRQ	SBR	X2	4		2226	H 094		30
294	8	190	OUTPUT	MLC	BET, SX	7		2230	M E32 Q89		30
295	8	200		SAR	OUTPUT&3	4		2237	Q K33		30
296	8	210		BCE	DXQ, SX, .	8		2241	B K84 Q89 .		30
297	8	220		BCE	Q1, SX, #	8		2249	B K95 Q89 #		30

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
298	8	230		BCE	Q2 ,SX ,)		8	2257	B L59 Q89)		30
299	8	240		BCE	Q3 ,SX , %		8	2265	B L70 Q89 %		31
300	8	250	RZ	B	PUTX		4	2273	B 363		31
301	9	010		DCW	SX		3	2279	Q89		31
302	9	020		B	OUTPUT		4	2280	B K30		31
303	9	030	DXQ	SBR	OUTPUT&3 ,BET		7	2284	H K33 E32		31
304	9	040		B	0&X2		4	2291	B 010		31
305	9	050	Q1	MLC	@.OP@ ,SX		7	2295	M G63 Q89		31
306	9	060		B	RZ		4	2302	B K73		32
307	9	070	IOCS	BSS	X01 ,F		5	2306	B T28 F		32
308	9	080		SBR	XR6&3 ,MERG		7	2311	H U06 L26		32
309	9	090		SW	SWT11		4	2318	, R01		32
310	9	100		B	X01		4	2322	B T28		32
311	9	110	MERG	B	GETX		4	2326	B 335		32
312	9	120		DCW	SX		3	2332	Q89		32
313	9	130		DCW	EOF		3	2335	M40		33
314	9	140		C	SX ,@.EE@		7	2336	C Q89 G66		33
315	9	150		BE	X01B		5	2343	B Z41 S		33
316	9	160		B	PUTX		4	2348	B 363		33
317	9	170		DCW	SX		3	2354	Q89		33
318	9	180		B	MERG		4	2355	B L26		33
319	9	190	Q2	MLC	@.LC@ ,SX		7	2359	M G69 Q89		33
320	9	200		B	RZ		4	2366	B K73		34
321	9	210	Q3	MLC	@.MC@ ,SX		7	2370	M G72 Q89		34
322	9	220		B	RZ		4	2377	B K73		34
323	9	230	DONE	B	GETX		4	2381	B 335		34
324	9	240		DCW	SY		3	2387	Q98		34
325	9	250		DCW	*-1		3	2390	L89		34
326	10	010	RRR	MLC	CONST ,LONE		7	2391	M Q92 B30		34
327	10	020		SBR	OUTPUT&3 ,LONE		7	2398	H K33 B30		35
328	10	030		B	OXRQ		4	2405	B K26		35
329	10	040		C	CONST ,SY		7	2409	C Q92 Q98		35
330	10	050		BE	XRK1		5	2416	B O46 S		35
331	10	060		SW	CONST-1		4	2421	, Q91		35
332	10	070		A	@1@ ,CONST		7	2425	A G73 Q92		35
333	10	080		CW	CONST-1		4	2432	) Q91		35
334	10	090		B	RRR		4	2436	B L91		36
335	10	100	EOF	BCE	TTT ,998 ,		8	2440	B M97 998		36
336	10	110	BCK1	SBR	OUTPUT&3 ,DEC		7	2448	H K33 F36		36
337	10	120		MLC	SIT ,DEC		7	2455	M Q95 F36		36
338	10	130		B	OXRQ		4	2462	B K26		36
339	10	140		C	998 ,SIT		7	2466	C 998 Q95		36
340	10	150		BE	TTT		5	2473	B M97 S		37
341	10	160		SW	SIT-1		4	2478	, Q94		37
342	10	170		A	@1@ ,SIT		7	2482	A G73 Q95		37
343	10	180		CW	SIT-1		4	2489	) Q94		37
344	10	190		B	BCK1		4	2493	B M48		37
345	10	200	TTT	BW	EEE ,SWW		8	2497	V N98 Q99 1		37
346	10	210	MMN	B	GETBLK		4	2505	B P40		37
347	10	220		DCW	SY		3	2511	Q98		38

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
348	10	230		DCW	MMN		3	2514	N05		38
349	10	240		C	SY,@.SN@		7	2515	C Q98	F56	38
350	10	250		BU	MMN		5	2522	B N05	/	38
351	11	010	MMM	B	GETTP		4	2527	B P55		38
352	11	020		DCW	SY		3	2533	Q98		38
353	11	030		DCW	MMM		3	2536	N27		38
354	11	040		C	SY,@.EQ@		7	2537	C Q98	G76	39
355	11	050		BE	LEO		5	2544	B N65	S	39
356	11	060		C	SY,@.SN@		7	2549	C Q98	F56	39
357	11	070		BE	EEE		5	2556	B N98	S	39
358	11	080		B	MMM		4	2561	B N27		39
359	11	090	LEO	B	GETTP		4	2565	B P55		39
360	11	100		DCW	SY		3	2571	Q98		39
361	11	110		DCW	MMM		3	2574	N27		40
362	11	120		C	SY,@.DE@		7	2575	C Q98	F98	40
363	11	130		BE	MMM		5	2582	B N27	S	40
364	11	140		B	PUTX		4	2587	B 363		40
365	11	150		DCW	SY		3	2593	Q98		40
366	11	160		B	LEO		4	2594	B N65		40
367	11	170	EEE	SBR	OUTPUT&3,LIST1		7	2598	H K33	B43	40
368	11	180		B	OXRQ		4	2605	B K26		41
369	11	190		B	PUTX		4	2609	B 363		41
370	11	200		DCW	SSK1		3	2615	R04		41
371	11	210		B	SUPER		4	2616	B 351		41
372	11	220		DCW	@J09@		3	2622			41
373	11	230	XXX	SBR	OUTPUT&3,DEG		7	2623	H K33	E64	41
374	11	240		B	OXRQ		4	2630	B K26		41
375	11	250		BW	XRK1,1283		8	2634	V O46	S83 1	42
376	12	010		B	EDD		4	2642	B P10		42
377	12	020	XRK1	B	GETX		4	2646	B 335		42
378	12	030		DCW	SY		3	2652	Q98		42
379	12	040		DCW	EOF		3	2655	M40		42
380	12	050		C	SY,@.XF@		7	2656	C Q98	G79	42
381	12	060		BE	OVR		5	2663	B O91	S	42
382	12	070		C	SY,@#ZA@		7	2668	C Q98	G82	43
383	12	080		BE	DONE		5	2675	B L81	S	43
384	12	090		B	PUTX		4	2680	B 363		43
385	12	100		DCW	SY		3	2686	Q98		43
386	12	110		B	XRK1		4	2687	B O46		43
387	12	120	OVR	BWZ	ASSTAP,85,1		8	2691	V P25	O85 1	43
388	12	130	OVR1	SBR	OUTPUT&3,BEE		7	2699	H K33	F07	43
389	12	140		B	OXRQ		4	2706	B K26		44
390	12	150	EDD	SBR	OUTPUT&3,BEE1		7	2710	H K33	F23	44
391	12	160		B	OXRQ		4	2717	B K26		44
392	12	170		B	XRK1		4	2721	B O46		44
393	12	180	ASSTAP	SBR	OUTPUT&3,BDA		7	2725	H K33	F53	44
394	12	190		B	OXRQ		4	2732	B K26		44
395	12	200		B	OVR1		4	2736	B O99		44
396	12	210	GETBLK	SBR	X1		4	2740	H 089		45
397	12	220		SBR	GET1&3,CMAX		7	2744	H Q10	B07	45

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
398	12	230		B	GETT1		4	2751	B P59		45
399	12	240	GETTP	SBR	X1		4	2755	H 089		45
400	12	250	GETT1	SBR	GET3&3,6&X1		7	2759	H Q36 0|6		45
401	13	010		MLC	2&X1,GET2&6		7	2766	M 0|2 Q20		45
402	13	020		MLC	5&X1,GET7&3		7	2773	M 0|5 Q86		46
403	13	030		C	GET1&3,&CMAX		7	2780	C Q10 G85		46
404	13	040		BE	GET4		5	2787	B Q37 S		46
405	13	050		MA	@003@,GET1&3					MACRO	
406				SW	GET1&3-2		4	2792	, Q08	GEN	46
407				A	@003@,GET1&3		7	2796	A G88 Q10	GEN	46
408				CW	GET1&3-2		4	2803	) Q08	GEN	46
409	13	060	GET1	MLC	CMAX,C1		7	2807	M B07 R07		47
410	13	070	GET2	MLC	C1,*		7	2814	M R07 Q20		47
411	13	080		C	C1,@.EB@		7	2821	C R07 G91		47
412	13	090		BE	GET6		5	2828	B Q76 S		47
413	13	100	GET3	B	0		4	2833	B 000		47
414	13	110	GET4	SW	GETGM		4	2837	, B08		47
415	13	120		B	IORW		4	2841	B 343		47
416	13	130		RT	4,CIN1		8	2845	M %U4 R08 R		48
417	13	140		DCW	GET5		3	2855	Q67		48
418	13	150		SBR	GET1&3,CIN2		7	2856	H Q10 R10		48
419	13	160		B	GET1		4	2863	B Q07		48
420	13	170	GET5	RWD	4		5	2867	U %U4 R		48
421	13	180		B	GET4		4	2872	B Q37		48
422	13	190	GET6	SBR	GET1&3,CMAX		7	2876	H Q10 B07		48
423	13	200	GET7	B	0		4	2883	B 000		49
424	13	210	SX	DCW	#3		3	2889			49
425	13	220	CONST	DCW	@ZA1@		3	2892			49
426	13	230	SIT	DCW	@I0A@		3	2895			49
427	13	240	SY	DCW	#3		3	2898			49
428	13	250	SWW	DCW	#1		1	2899			49
429	14	010	SWITCH	DC	#1		1	2900			49
430	14	020	SWT11	DC	#1		1	2901			49
431	14	030	SSK1	DCW	@.EP@		3	2904			49
432	14	040	C1	DCW	#3		3	2907			50
433	14	050	CIN1	DA	1X300			2908	3207		50
434	14	060	CIN2		1,3			2910		FIELD	50
435	14	070	CMAX		300			3207		SBFLD	50
436	14	080	GETGM	DC	@}@		1	3208			51
437	14	090		DCW	@.@		1	3209			51
438	14	100		DCW	@%@		1	3210			51
439	14	110		DCW	@#20@		3	3213			51
440	14	120		DCW	@#@		1	3214			51
441	14	130		DCW	@DC @		3	3217			52
442	14	140		DCW	@)@		1	3218			52
443	14	150		DCW	@%@		1	3219			52
444	14	160		DCW	@#20@		3	3222			52
445	14	170		DCW	@#@		1	3223			52
446	14	180		DCW	@DCW@		3	3226			52
447	14	190		DCW	@)@		1	3227			52

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
448	14	200	LONE	DCW	@ @		3	3230			53
449	14	210		DCW	@.@		1	3231			53
450	14	220		DCW	@%@		1	3232			53
451	14	230		DCW	@RTS@		3	3235			53
452	14	240		DCW	@STA@		3	3238			53
453	14	250		DCW	@#@		1	3239			53
454	15	010		DCW	@END@		3	3242			53
455	15	020	LIST1	DCW	@)@		1	3243			54
456	15	030		DCW	@.@		1	3244			54
457	15	040		DCW	@%@		1	3245			54
458	15	050		DCW	@#50@		3	3248			54
459	15	060		DCW	@#@		1	3249			54
460	15	070		DCW	@DC @		3	3252			54
461	15	080		DCW	@)@		1	3253			54
462	15	090		DCW	@DA1@		3	3256			55
463	15	100		DCW	@%@		1	3257			55
464	15	110		DCW	@#15@		3	3260			55
465	15	120		DCW	@#@		1	3261			55
466	15	130		DCW	@DCW@		3	3264			55
467	15	140		DCW	@)@		1	3265			55
468	15	150		DCW	@%@		1	3266			55
469	15	160		DCW	@ @@		3	3269			56
470	15	170		DCW	@ 9@		3	3272			56
471	15	180		DCW	@ @@		3	3275			56
472	15	190		DCW	@#@		1	3276			56
473	15	200		DCW	@DCW@		3	3279			56
474	15	210		DCW	@)@		1	3280			56
475	15	220		DCW	@A0J@		3	3283			56
476	15	230		DCW	@%@		1	3284			57
477	15	240		DCW	@ @@		3	3287			57
478	15	250		DCW	@ @		3	3290			57
479	16	010		DCW	@ @@		3	3293			57
480	16	020		DCW	@#@		1	3294			57
481	16	030		DCW	@DCW@		3	3297			57
482	16	040		DCW	@)@		1	3298			57
483	16	050		DCW	@A0K@		3	3301			58
484	16	060		DCW	@%@		1	3302			58
485	16	070		DCW	@ @@		3	3305			58
486	16	080		DCW	@ @@		3	3308			58
487	16	090		DCW	@ @@		3	3311			58
488	16	100		DCW	@#@		1	3312			58
489	16	110		DCW	@DCW@		3	3315			58
490	16	120		DCW	@)@		1	3316			59
491	16	130		DCW	@A0R@		3	3319			59
492	16	140		DCW	@%@		1	3320			59
493	16	150		DCW	@ @@		3	3323			59
494	16	160		DCW	@ 0@		3	3326			59
495	16	170		DCW	@ @@		3	3329			59
496	16	180		DCW	@#@		1	3330			59
497	16	190		DCW	@DCW@		3	3333			60

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
498	16	200		DCW	@)@		1	3334			60
499	16	210		DCW	@A0Q@		3	3337			60
500	16	220		DCW	@%@		1	3338			60
501	16	230		DCW	@#03@		3	3341			60
502	16	240		DCW	@#@		1	3342			60
503	16	250		DCW	@DCW@		3	3345			60
504	17	010		DCW	@)@		1	3346			61
505	17	020		DCW	@CNT@		3	3349			61
506	17	030		DCW	@%@		1	3350			61
507	17	040		DCW	@#05@		3	3353			61
508	17	050		DCW	@#@		1	3354			61
509	17	060		DCW	@DCW@		3	3357			61
510	17	070		DCW	@)@		1	3358			61
511	17	080		DCW	@CNR@		3	3361			62
512	17	090		DCW	@%@		1	3362			62
513	17	100		DCW	@#20@		3	3365			62
514	17	110		DCW	@#@		1	3366			62
515	17	120		DCW	@DC @		3	3369			62
516	17	130		DCW	@)@		1	3370			62
517	17	140		DCW	@%@		1	3371			62
518	17	150		DCW	@#20@		3	3374			63
519	17	160		DCW	@#@		1	3375			63
520	17	170		DCW	@DCW@		3	3378			63
521	17	180		DCW	@)@		1	3379			63
522	17	190		DCW	@GNN@		3	3382			63
523	17	200		DCW	@%@		1	3383			63
524	17	210		DCW	@#20@		3	3386			63
525	17	220		DCW	@#@		1	3387			64
526	17	230		DCW	@DC @		3	3390			64
527	17	240		DCW	@)@		1	3391			64
528	17	250		DCW	@ACM@		3	3394			64
529	18	010		DCW	@%@		1	3395			64
530	18	020		DCW	@#20@		3	3398			64
531	18	030		DCW	@#@		1	3399			64
532	18	040		DCW	@DCW@		3	3402			65
533	18	050		DCW	@)@		1	3403			65
534	18	060		DCW	@SHR@		3	3406			65
535	18	070		DCW	@%@		1	3407			65
536	18	080		DCW	@00 @		3	3410			65
537	18	090		DCW	@000@		3	3413			65
538	18	100		DCW	@#@		1	3414			65
539	18	110		DCW	@DCW@		3	3417			66
540	18	120		DCW	@)@		1	3418			66
541	18	130		DCW	@A05@		3	3421			66
542	18	140		DCW	@%@		1	3422			66
543	18	150		DCW	@RGX@		3	3425			66
544	18	160		DCW	@LTO@		3	3428			66
545	18	170		DCW	@#@		1	3429			66
546	18	180		DCW	@ORG@		3	3432			67
547	18	190		DCW	@)@		1	3433			67

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
548	18	200		DCW	@%@		1	3434			67
549	18	210		DCW	@#03@		3	3437			67
550	18	220		DCW	@#@		1	3438			67
551	18	230		DCW	@DCW@		3	3441			67
552	18	240		DCW	@)@		1	3442			67
553	18	250		DCW	@X3 @		3	3445			68
554	19	010		DCW	@%@		1	3446			68
555	19	020		DCW	@#02@		3	3449			68
556	19	030		DCW	@#@		1	3450			68
557	19	040		DCW	@DC @		3	3453			68
558	19	050		DCW	@)@		1	3454			68
559	19	060		DCW	@%@		1	3455			68
560	19	070		DCW	@#03@		3	3458			69
561	19	080		DCW	@#@		1	3459			69
562	19	090		DCW	@DCW@		3	3462			69
563	19	100		DCW	@)@		1	3463			69
564	19	110		DCW	@X2 @		3	3466			69
565	19	120		DCW	@%@		1	3467			69
566	19	130		DCW	@#02@		3	3470			69
567	19	140		DCW	@#@		1	3471			70
568	19	150		DCW	@DC @		3	3474			70
569	19	160		DCW	@)@		1	3475			70
570	19	170		DCW	@%@		1	3476			70
571	19	180		DCW	@#03@		3	3479			70
572	19	190		DCW	@#@		1	3480			70
573	19	200		DCW	@DCW@		3	3483			70
574	19	210		DCW	@)@		1	3484			71
575	19	220		DCW	@X1 @		3	3487			71
576	19	230		DCW	@%@		1	3488			71
577	19	240		DCW	@87 @		3	3491			71
578	19	250		DCW	@#@		1	3492			71
579	20	010		DCW	@ORG@		3	3495			71
580	20	020		DCW	@)@		1	3496			71
581	20	030		DCW	@%@		1	3497			72
582	20	040		DCW	@*&1@		3	3500			72
583	20	050		DCW	@#@		1	3501			72
584	20	060		DCW	@EQU@		3	3504			72
585	20	070		DCW	@)@		1	3505			72
586	20	080		DCW	@RGX@		3	3508			72
587	20	090		DCW	@LTO@		3	3511			72
588	20	100		DCW	@%@		1	3512			73
589	20	110		DCW	@RG @		3	3515			73
590	20	120		DCW	@LTO@		3	3518			73
591	20	130	BEG1	DCW	@)@		1	3519			73
592	20	140		DCW	@.@		1	3520			73
593	20	150		DCW	@%@		1	3521			73
594	20	160	INCL	DCW	@ @		3	3524			73
595	20	170		DCW	@#@		1	3525			74
596	20	180		DCW	@LD @		3	3528			74
597	20	190		DCW	@INC@		3	3531			74

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
598	20	200	BET	DCW	@)@		1	3532			74
599	20	210		DCW	@.@		1	3533			74
600	20	220		DCW	@%@		1	3534			74
601	20	230		DCW	@*&1@		3	3537			74
602	20	240		DCW	@#@		1	3538			75
603	20	250		DCW	@EQU@		3	3541			75
604	21	010		DCW	@)@		1	3542			75
605	21	020		DCW	@LAY@		3	3545			75
606	21	030	LIST	DCW	@OVR@		3	3548			75
607	21	040		DCW	@.@		1	3549			75
608	21	050		DCW	@%@		1	3550			75
609	21	060		DCW	@*&1@		3	3553			76
610	21	070		DCW	@#@		1	3554			76
611	21	080		DCW	@EQU@		3	3557			76
612	21	090		DCW	@)@		1	3558			76
613	21	100		DCW	@OVR@		3	3561			76
614	21	110	DEG	DCW	@MVE@		3	3564			76
615	21	120		DCW	@.@		1	3565			76
616	21	130		DCW	@%@		1	3566			77
617	21	140		DCW	@LAY@		3	3569			77
618	21	150		DCW	@OVR@		3	3572			77
619	21	160		DCW	@#@		1	3573			77
620	21	170		DCW	@ORG@		3	3576			77
621	21	180		DCW	@)@		1	3577			77
622	21	190		DCW	@%@		1	3578			77
623	21	200		DCW	@OVR@		3	3581			78
624	21	210		DCW	@MVE@		3	3584			78
625	21	220		DCW	@#@		1	3585			78
626	21	230		DCW	@EX @		3	3588			78
627	21	240		DCW	@)@		1	3589			78
628	21	250		DCW	@%@		1	3590			78
629	22	010		DCW	@#01@		3	3593			78
630	22	020		DCW	@#@		1	3594			79
631	22	030		DCW	@DCW@		3	3597			79
632	22	040		DCW	@)@		1	3598			79
633	22	050		DCW	@%@		1	3599			79
634	22	060		DCW	@007@		3	3602			79
635	22	070		DCW	@#@		1	3603			79
636	22	080		DCW	@B @		3	3606			79
637	22	090	BEE	DCW	@)@		1	3607			80
638	22	100		DCW	@.@		1	3608			80
639	22	110		DCW	@%@		1	3609			80
640	22	120		DCW	@*&1@		3	3612			80
641	22	130		DCW	@#@		1	3613			80
642	22	140		DCW	@EQU@		3	3616			80
643	22	150		DCW	@)@		1	3617			80
644	22	160		DCW	@RTS@		3	3620			81
645	22	170	BEE1	DCW	@STA@		3	3623			81
646	22	180		DCW	@.@		1	3624			81
647	22	190		DCW	@%@		1	3625			81

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
648	22	200		DCW	@#03@		3	3628			81
649	22	210		DCW	@#@		1	3629			81
650	22	220		DCW	@DCW@		3	3632			81
651	22	230		DCW	@)@		1	3633			82
652	22	240	DEC	DCW	@ @		3	3636			82
653	22	250	BAA	DCW	@040#R @		7	3643			82
654	23	010		DCW	@.@		1	3644			82
655	23	020		DCW	@%@		1	3645			82
656	23	030		DCW	@1,1@		3	3648			82
657	23	040		DCW	@#@		1	3649			82
658	23	050		DCW	@RTW@		3	3652			83
659	23	060	BDA	DCW	@)@		1	3653			83
660	23	070		LTORG					3654		
				DCW	@.SN@		3	3656		LIT	83
					@.DD@		3	3659		LIT	83
					@.IC@		3	3662		LIT	83
					@.DT@		3	3665		LIT	83
					@.DI@		3	3668		LIT	83
					@.IE@		3	3671		LIT	84
					@.IS@		3	3674		LIT	84
					@.ED@		3	3677		LIT	84
					@.LT@		3	3680		LIT	84
					@.DL@		3	3683		LIT	84
					@.DA@		3	3686		LIT	84
					@.LD@		3	3689		LIT	84
					@.LL@		3	3692		LIT	85
					@.CC@		3	3695		LIT	85
					@.DE@		3	3698		LIT	85
					@N@		1	3699		LIT	85
					@ZET@		3	3702		LIT	85
					@YIN@		3	3705		LIT	85
					@ZAX@		3	3708		LIT	85
					@YFM@		3	3711		LIT	86
					@YAQ@		3	3714		LIT	86
					@YNQ@		3	3717		LIT	86
					@YIP@		3	3720		LIT	86
					@ZML@		3	3723		LIT	86
					@ZMR@		3	3726		LIT	86
					@ZDY@		3	3729		LIT	86
					@ZGP@		3	3732		LIT	87
					@YCL@		3	3735		LIT	87
					@XXJ@		3	3738		LIT	87
					@XXK@		3	3741		LIT	87
					@XXL@		3	3744		LIT	87
					@ZFZ@		3	3747		LIT	87
					@XMN@		3	3750		LIT	87
					@ZXZ@		3	3753		LIT	88
					@ @		3	3756		LIT	88
					@ZZZ@		3	3759		LIT	88
					@B@		1	3760		LIT	88

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
					@.OP@	3		3763		LIT	88
					@.EE@	3		3766		LIT	88
					@.LC@	3		3769		LIT	88
					@.MC@	3		3772		LIT	89
					@1@	1		3773		LIT	89
					@.EQ@	3		3776		LIT	89
					@.XF@	3		3779		LIT	89
					@#ZA@	3		3782		LIT	89
	403				&CMAX	3		3785	B07	ADCON	89
					@003@	3		3788		LIT	89
					@.EB@	3		3791		LIT	90
661	23	080		ORG					3792		
662	23	090		DCW	@}@	1		3792			90
663	23	100		END					/ 000 080		91

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CLEAR STORAGE 1      ,008015,019026,030,034041,045,053,0570571026      1
CLEAR STORAGE 2      L068112,102106,113/101099/I99,027A070028)027B0010270B0261,001/001113I0      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	010	000	JOB	1401 COBOL - J09						
102	1	020		CTL	631 11						
103	1	030		ORG	1300				1300		
104	1	040	X1	EQU	89			0089			
105	1	050	IORW	EQU	343			0343			
106	1	060	GETX	EQU	335			0335			
107	1	070	PUTX	EQU	363			0363			
108	1	080	SUPER	EQU	351			0351			
109	1	090	X2	EQU	94			0094			
110	1	100	LOOK	EQU	3400			3400			
111	1	110		B	SUPER	4		1300	B 351		4
112	1	120		DCW	@JT1@	3		1306			4
113	1	130	START	B	GETSX	4		1307	B V53		4
114	1	140		C	SX,@***@	7		1311	C J89 J95		4
115	1	150		BE	NOTE	5		1318	B T43 S		4
116	1	160		C	SX,@.AC@	7		1323	C J89 J98		4
117	1	170		BE	AUTO	5		1330	B W00 S		4
118	1	180		B	PUTSX	4		1335	B V71		5
119	1	190		B	START	4		1339	B T07		5
120	1	200	NOTE	B	GETSX	4		1343	B V53		5
121	1	210		BCE	READ,SX-2,D	8		1347	B V26 J87 D		5
122	1	220		BCE	READ1,SX-2,C	8		1355	B U99 J87 C		5
123	1	230		BCE	READ1,SX-2,F	8		1363	B U99 J87 F		5
124	1	240		BCE	READ1,SX-2,I	8		1371	B U99 J87 I		6
125	1	250		B	LOOKUP	4		1379	B U28		6
126	2	010		B	OUTPUT	4		1383	B T95		6
127	2	020	OUTT	BCE	STARTS,1&X2,|	8		1387	B U17 0!1 |		6
128	2	030	OUTPUT	MLC	3&X2,SX	7		1395	M 0!3 J89		6
129	2	040		A	@3@,X2	7		1402	A J99 094		6
130	2	050		B	PUTSX	4		1409	B V71		7
131	2	060		B	OUTT	4		1413	B T87		7
132	2	070	STARTS	B	PUTX	4		1417	B 363		7
133	2	080		DCW	&*24@	3		1423	K02		7
134	2	090		B	START	4		1424	B T07		7
135	2	100	LOOKUP	SBR	EXITT&3	4		1428	H U98		7
136	2	110	LKK	MLC	&LOOK,X2	7		1432	M K05 094		7
137	2	120	LKC1	BCE	START,0&X2,\$	8		1439	B T07 0!0 \$		8
138	2	130		MLC	0&X2,0&X2	7		1447	M 0!0 0!0		8
139	2	140		SBR	X2	4		1454	H 094		8
140	2	150		C	3&X2,SX	7		1458	C 0!3 J89		8
141	2	160		BU	LKC1	5		1465	B U39 /		8
142	2	170		B	PUTX	4		1470	B 363		8
143	2	180		DCW	&.DG@	3		1476	K08		8
144	2	190		B	PUTX	4		1477	B 363		9
145	2	200		DCW	SX	3		1483	J89		9
146	2	210		MLC	0&X2,0&X2	7		1484	M 0!0 0!0		9
147	2	220		SBR	X2	4		1491	H 094		9

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	2	230	EXITT	B	*		4	1495	B U98		9
149	2	240	READ1	SBR	EXITS&3		4	1499	H V25		9
150	2	250		BW	EXITS,SWK		8	1503	V V22 J85	1	9
151	3	010		B	SUPER		4	1511	B 351		10
152	3	020		DCW	@JT3@		3	1517			10
153	3	030		SW	SWK		4	1518	, J85		10
154	3	040	EXITS	B	*		4	1522	B V25		10
155	3	050	READ	SBR	EXX&3		4	1526	H V52		10
156	3	060		BW	EXX,SWK1		8	1530	V V49 J84	1	10
157	3	070		B	SUPER		4	1538	B 351		10
158	3	080		DCW	@JT2@		3	1544			11
159	3	090		SW	SWK1		4	1545	, J84		11
160	3	100	EXX	B	*		4	1549	B V52		11
161	3	110	GETSX	SBR	EXTR&3		4	1553	H V70		11
162	3	120		B	GETX		4	1557	B 335		11
163	3	130		DCW	SX		3	1563	J89		11
164	3	140		DCW	EOP		3	1566	V86		11
165	3	150	EXTR	B	*		4	1567	B V70		12
166	3	160	PUTSX	SBR	EXB1&3		4	1571	H V85		12
167	3	170		B	PUTX		4	1575	B 363		12
168	3	180		DCW	SX		3	1581	J89		12
169	3	190	EXB1	B	*		4	1582	B V85		12
170	3	200	EOP	B	PUTX		4	1586	B 363		12
171	3	210		DCW	SX		3	1592	J89		12
172	3	220		B	SUPER		4	1593	B 351		13
173	3	230		DCW	@J10@		3	1599			13
174	3	240	AUTO	B	GETSX		4	1600	B V53		13
175	3	250		BW	YYY,SWXR		8	1604	V W48 J86	1	13
176	4	010	XXX	B	GETBLK		4	1612	B X33		13
177	4	020		DCW	SY		3	1618	J92		13
178	4	030		DCW	XXX		3	1621	W12		13
179	4	040		C	SY,@.AC@		7	1622	C J92 J98		14
180	4	050		BU	XXX		5	1629	B W12 /		14
181	4	060		SW	SWXR		4	1634	, J86		14
182	4	070	X315	B	GETTP		4	1638	B X48		14
183	4	080		DCW	SY		3	1644	J92		14
184	4	090		DCW	X315		3	1647	W38		14
185	4	100	YYY	C	SX,SY		7	1648	C J89 J92		14
186	4	110		BE	ZZZ		5	1655	B W74 S		15
187	4	120	YYY1	B	GETTP		4	1660	B X48		15
188	4	130		DCW	SY		3	1666	J92		15
189	4	140		DCW	YYY1		3	1669	W60		15
190	4	150		B	YYY		4	1670	B W48		15
191	4	160	ZZZ	B	PUTX		4	1674	B 363		15
192	4	165		DCW	&@.AC@		3	1680	J98		15
193	4	167	ZZK	B	GETTP		4	1681	B X48		16
194	4	170		DCW	SY		3	1687	J92		16
195	4	180		DCW	ZZZ		3	1690	W74		16
196	4	190		BCE	PUT,SY-2,		8	1691	B X22 J90		16
197	4	200		C	SY,@.MC@		7	1699	C J92 K11		16

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
198	4	210		BE	PUT		5	1706	B X22 S		16
199	4	215		B	PUTX		4	1711	B 363		16
200	4	217		DCW	&@.AC@		3	1717	J98		17
201	4	220		B	START		4	1718	B T07		17
202	4	230	PUT	B	PUTX		4	1722	B 363		17
203	4	240		DCW	SY		3	1728	J92		17
204	4	250		B	ZZK		4	1729	B W81		17
205	5	010	GETBLK	SBR	X1		4	1733	H 089		17
206	5	020		MLC	&CMAX,GET1&3		7	1737	M K14 Y03		17
207	5	030		B	GETT1		4	1744	B X52		18
208	5	040	GETTP	SBR	X1		4	1748	H 089		18
209	5	050	GETT1	SBR	GET 3&3,6&X1		7	1752	H Y29 0|6		18
210	5	060		MLC	2&X1,GET2&6		7	1759	M 0|2 Y13		18
211	5	070		MLC	5&X1,GET7&3		7	1766	M 0|5 Y79		18
212	5	080		C	GET1&3,&CMAX		7	1773	C Y03 K17		18
213	5	090		BE	GET4		5	1780	B Y30 S		19
214	5	100		MA	@003@,GET1&3					MACRO	
215				SW	GET1&3-2		4	1785	, Y01	GEN	19
216				A	@003@,GET1&3		7	1789	A K20 Y03	GEN	19
217				CW	GET1&3-2		4	1796	) Y01	GEN	19
218	5	110	GET1	MLC	CMAX,C1		7	1800	M J82 Y82		19
219	5	120	GET2	MLC	C1,*		7	1807	M Y82 Y13		19
220	5	130		C	C1,@.EB@		7	1814	C Y82 K23		20
221	5	140		BE	GET6		5	1821	B Y69 S		20
222	5	150	GET3	B	0		4	1826	B 000		20
223	5	160	GET4	SW	GETGM		4	1830	, J83		20
224	5	170		B	IORW		4	1834	B 343		20
225	5	180		RT	4,CIN1		8	1838	M %U4 Y83 R		20
226	5	190		DCW	GET5		3	1848	Y60		20
227	5	200		MLC	&CIN2,GET1&3		7	1849	M K26 Y03		21
228	5	210		B	GET1		4	1856	B Y00		21
229	5	220	GET5	RWD	4		5	1860	U %U4 R		21
230	5	230		B	GET4		4	1865	B Y30		21
231	5	240	GET6	MLC	&CMAX,GET1&3		7	1869	M K29 Y03		21
232	5	250	GET7	B	0		4	1876	B 000		21
233	6	010	C1	DCW	#3		3	1882			21
234	6	020	CIN1	DA	1X300			1883	2182		22
235	6	030	CIN2		1,3			1885		FIELD	22
236	6	040	CMAX		300			2182		SBFLD	
237	6	050	GETGM	DC	@} @		1	2183			23
238	6	060	SWK1	DC	#1		1	2184			23
239	6	070	SWK	DC	#1		1	2185			23
240	6	080	SWXR	DC	#1		1	2186			23
241	6	090	SX	DCW	#3		3	2189			23
242	6	100	SY	DCW	#3		3	2192			23
243	6	110		LTORG					2193		
				DCW	@***@		3	2195		LIT	23
					@.A C@		3	2198		LIT	23
					@3@		1	2199		LIT	24
					@*24@		3	2202		LIT	24

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
		136			&LOOK	3		2205	D00	ADCON	24
					@.DG@	3		2208		LIT	24
					@.MC@	3		2211		LIT	24
		206			&CMAX	3		2214	J82	ADCON	24
		212			&CMAX	3		2217	J82	ADCON	24
					@003@	3		2220		LIT	25
					@.EB@	3		2223		LIT	25
		227			&CIN2	3		2226	Y85	ADCON	25
		231			&CMAX	3		2229	J82	ADCON	25
244	6	120		ORG					2230		
245	6	130		DCW	@}@	1		2230			25
246	6	140		END					/ 000 080		26

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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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1401 COBOL - JT1 PAGE 1

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
101	1	010	000	JOB	1401 COBOL - JT1						
102	1	020		CTL	661111						
103	1	030		ORG	2400				2400		
104	1	040		DCW	@\$@	1		2400			4
105	1	050		DCW	@HARDWARE DEVICE MULTI-DEFINED |@	31		2431			4
106	1	060		DCW	@E0A@	3		2434			4
107	1	070		DCW	@BLOCK SIZE MUST NOT EXCEED OBJECT-COMPUTER SIZE |@	49		2483			6
108	1	080		DCW	@E0B@	3		2486			6
109	1	090		DCW	@FORM 3 RECORDS NOT PERMITTED |@	31		2517			7
110	1	100		DCW	@E0C@	3		2520			7
111	1	110		DCW	@BLANKS IN HEADER-LABEL ID NOT PERMITTED|@	40		2560			9
112	1	120		DCW	@E04@	3		2563			9
113	1	130		DCW	@UNIT RECORD FILES MUST HAVE STANDARD RECORD SIZE@	48		2611			11
114	1	140		DC	@S |@	4		2615			11
115	1	150		DCW	@E0E@	3		2618			11
116	1	160		DCW	@FORM 4 RECORDS - BLOCK SIZE MUST BE IN CHARACTER@	48		2666			13
117	1	170		DC	@S |@	4		2670			13
118	1	180		DCW	@E0F@	3		2673			13
119	1	190		DCW	@FILE MUST BE SELECTED|@	22		2695			13
120	1	200		DCW	@E0G@	3		2698			14
121	1	210		DCW	@BLOCK SIZE MUST NOT EXCEED 4 DIGITS |@	37		2735			15
122	1	220		DCW	@E0H@	3		2738			16
123	1	230		DCW	@RECORD SIZE MUST NOT EXCEED BLOCK SIZE |@	40		2778			18
124	1	240		DCW	@E0I@	3		2781			18
125	1	250		DCW	@UNIT RECORD FILES MUST HAVE FORM 1 RECORDS|@	43		2824			20
126	2	010		DCW	@E1?@	3		2827			20
127	2	020		DCW	@UNIT RECORD FILE- LABEL RECORDS MUST BE OMITTED |@	49		2876			22
128	2	030		DCW	@E1A@	3		2879			22
129	2	040		DCW	@FILE MUST BE OPENED |@	22		2901			22
130	2	050		DCW	@E1B@	3		2904			22
131	2	060		DCW	@UNIT RECORD FILES MUST NOT RESERVE ALTERNATE @	45		2949			24
132	2	070		DC	@AREAS |@	7		2956			24
133	2	080		DCW	@E1C@	3		2959			24
134	2	090		DCW	@LOAD MODE RESTRICTED IN THIS PROCESSOR |@	40		2999			26
135	2	100		DCW	@E1D@	3		3002			26
136	2	110		DCW	@NUMBER OF FD-S UNEQUAL TO NUMBER OF OPEN-S AN@	45		3047			28
137	2	120		DC	@D/OR CLOSE-S|@	13		3060			28
138	2	130		DCW	@E15@	3		3063			28
139	2	140		LTORG					3064		
140	2	150		ORG					3064		
141	2	160		DCW	@}@	1		3064			28
142	2	170		END					/ 000 080		29

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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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1401 COBOL - JT2 PAGE 1

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
101	1	010	000	JOB	1401 COBOL - JT2						
102	1	020		CTL	661111						
103	1	030		ORG	2400				2400		
104	1	040		DCW	@\$@	1		2400			4
105	1	050		DCW	@PICTURE EXCEEDS 30 CHARACTERS |@	31		2431			4
106	1	060		DCW	@D01@	3		2434			4
107	1	070		DCW	@CONFLICTING EDITING CLAUSES|@	28		2462			5
108	1	080		DCW	@D02@	3		2465			5
109	1	090		DCW	@MUST NOT SPECIFY DECIMAL AT GROUP LEVEL|@	40		2505			7
110	1	100		DCW	@D03@	3		2508			7
111	1	110		DCW	@MUST NOT SPECIFY EDITING AT GROUP LEVEL|@	40		2548			9
112	1	120		DCW	@D04@	3		2551			9
113	1	130		DCW	@CONFLICT BETWEEN PICTURE AND SIZE CLAUSE |@	43		2594			11
114	1	140		DCW	@D05@	3		2597			11
115	1	150		DCW	@CONFLICT BETWEEN PICTURE AND POINT LOCATION @	44		2641			13
116	1	160		DC	@CLAUSE |@	8		2649			13
117	1	170		DCW	@D06@	3		2652			13
118	1	180		DCW	@CONFLICT BETWEEN PICTURE AND CLASS CLAUSE |@	43		2695			15
119	1	190		DCW	@D07@	3		2698			15
120	1	200		DCW	@CONFLICT BETWEEN PICTURE AND EDITING CLAUSE |@	46		2744			17
121	1	210		DCW	@D08@	3		2747			17
122	1	220		DCW	@ELEMENTARY ITEM MUST HAVE SIZE OR PICTURE CLAUSE|@	49		2796			19
123	1	230		DCW	@D0I@	3		2799			19
124	1	240		DCW	@I/O AREA MUST NOT EXCEED 999 CHARACTERS|@	40		2839			21
125	1	250		DCW	@D1A@	3		2842			21
126	2	010		DCW	@RLI MUST BE 4 CHARACTERS|@	25		2867			21
127	2	020		DCW	@D1B@	3		2870			21
128	2	030		DCW	@RECORD SIZES WITHIN THIS FD MUST NOT CONFLICT|@	46		2916			23
129	2	040		DCW	@D13@	3		2919			23
130	2	050		DCW	@INVALID EDITING|@	16		2935			23
131	2	060		DCW	@D14@	3		2938			23
132	2	070		DCW	@PICTURE CLAUSE INVALID WITH GROUP ITEM |@	40		2978			25
133	2	080		DCW	@D99@	3		2981			25
134	2	090		LTORG					2982		
135	2	100		ORG					2982		
136	2	110		DCW	@}@	1		2982			25
137	2	120		END					/ 000 080		26

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CLEAR STORAGE 1      ,008015,022026,030037,044,049,053053N000000N00001026      1
CLEAR STORAGE 2      L068116,105106,110117B101 /I9I#071029C029056B026/B001/0991,001/001117I0?  2
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1401 COBOL - JT3 PAGE 1

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
101	1	010	000	JOB	1401 COBOL - JT3						
102	1	020		CTL	661111						
103	1	030		ORG	2400				2400		
104	1	040		DCW	@\$@	1		2400			4
105	1	050		DCW	@END STATEMENTS NOT ASSOCIATED WITH THE FOLLOWING@	48		2448			6
106	1	060		DC	@ FILES- |@	10		2458			6
107	1	070		DCW	@F0A@	3		2461			6
108	1	080		DCW	@INVALID USE OF SUBSCRIPTING|@	28		2489			7
109	1	090		DCW	@H0A@	3		2492			7
110	1	100		DCW	@A-FIELD EXCEEDS B-FIELD |@	25		2517			8
111	1	110		DCW	@I00@	3		2520			8
112	1	120		DCW	@NON-NUMERIC FIELD USED IN COMPUTATION |@	40		2560			10
113	1	130		DCW	@I01@	3		2563			10
114	1	140		DCW	@EDIT MASK TOO SMALL |@	22		2585			10
115	1	150		DCW	@I0B@	3		2588			10
116	1	160		DCW	@A-FIELD EXCEEDS 18 DIGITS |@	28		2616			11
117	1	170		DCW	@I0C@	3		2619			11
118	1	180		DCW	@B-FIELD EXCEEDS 18 DIGITS |@	28		2647			12
119	1	190		DCW	@I0E@	3		2650			12
120	1	200		DCW	@NON-NUMERIC FIGCON USED IN COMPUTATION |@	40		2690			14
121	1	210		DCW	@I0F@	3		2693			14
122	1	220		DCW	@INVAL ID SOURCE |@	16		2709			14
123	1	230		DCW	@I0G@	3		2712			14
124	1	240		DCW	@INTERMEDIATE RESULTS MUST NOT EXCEED 20 DIGITS |@	49		2761			16
125	1	250		DCW	@I0H@	3		2764			16
126	2	010		DCW	@ALPHANUMERIC TO NUMERIC MOVE |@	31		2795			17
127	2	020		DCW	@I09@	3		2798			17
128	2	030		DCW	@INVALID SOURCE- IN PRECEDING STATEMENT |@	40		2838			19
129	2	040		DCW	@I1?@	3		2841			19
130	2	050		DCW	@ROUNDED EXCLUDES LEFT JUSTIFY CLAUSE|@	37		2878			20
131	2	060		DCW	@I11@	3		2881			21
132	2	070		DCW	@DECIMAL ALIGNMENT WILL BE IGNORED|@	34		2915			21
133	2	080		DCW	@I12@	3		2918			22
134	2	090		DCW	@GROUP ITEM MUST NOT BE USED IN COMPUTATION|@	43		2961			24
135	2	100		DCW	@I13@	3		2964			24
136	2	110		DCW	@INVALID USE OF GROUP ITEM |@	28		2992			24
137	2	120		DCW	@I15@	3		2995			24
138	2	130		DCW	@ITEM EXCEEDS 20 DIGITS |@	25		3020			25
139	2	140		DCW	@I17@	3		3023			25
140	2	150		DCW	@CLASS CONTRADICTION |@	22		3045			26
141	2	160		DCW	@I18@	3		3048			26
142	2	170		DCW	@INVAL ID USE OF EDITING |@	25		3073			27
143	2	180		DCW	@I1I@	3		3076			27
144	2	190		DCW	@SIZE OF LITERAL MUST EQUAL 1 |@	31		3107			28
145	2	200		DCW	@I2?@	3		3110			28
146	2	210		DCW	@INVALID SUBSCRIPTING |@	22		3132			29
147	2	220		DCW	@I2A@	3		3135			29

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	2	230		DCW	@CONDITION NAMES MUST NOT BE USED AS SUBJECTS |@	46		3181			31
149	2	240		DCW	@C0A@	3		3184			31
150	2	250		L'TORG					3185		
151	3	010		ORG					3185		
152	3	020		DCW	@}@	1		3185			31
153	3	030		END					/ 000 080		32

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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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1401 COBOL - J10 PAGE 1

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
101	1	010	000	JOB	1401 COBOL - J10						
102	1	020		CTL	661111						
103	1	030		ORG	1300				1300		
104	1	040	X2	EQU	94			0094			
105	1	050	GETX	EQU	335			0335			
106	1	060	IORW	EQU	343			0343			
107	1	070	CARD	EQU	100			0100			
108	1	080	OUT1	EQU	200			0200			
109	1	090	PRINT	EQU	200			0200			
110	1	100		CC	1	2		1300	F 1		4
111	1	110		RWD	4	5		1302	U %U4 R		4
112	1	120	C1RB	B	GET X	4		1307	B 335		4
113	1	130		DCW	SX	3		1313	A93		4
114	1	140		DCW	EOP	3		1316	P20		4
115	1	145		C	SX,@.AC@	7		1317	C A93 C53		4
116	1	147		BE	AUTCDE	5		1324	B W61 S		4
117	1	150		BWZ	REMOVE,SX-2,S	8		1329	V W30 A91 S		5
118	1	160	XYZ	B	OUT	4		1337	B T48		5
119	1	170		DCW	SX	3		1343	A93		5
120	1	180		B	C1RB	4		1344	B T07		5
121	1	190	OUT	SBR	X2	4		1348	H 094		5
122	1	200		SBR	EXIT1&3,3&X2	7		1352	H U99 0!3		5
123	1	210		MLC	2&X2,*&4	7		1359	M 0!2 T69		5
124	1	220		MLC	0,SYM	7		1366	M 000 B15		6
125	1	230		BCE	CLEAR,SW,4	8		1373	B L61 A69 4		6
126	1	240	STSW	MLC	@0@,SW	7		1381	M C54 A69		6
127	1	250		C	SYM,@ GM@	7		1388	C B15 C57		6
128	2	010		BE	SUB2	5		1395	B V23 S		6
129	2	020		C	SYM,@ RM@	7		1400	C B15 C60		7
130	2	030		BE	SUB1	5		1407	B V12 S		7
131	2	040		C	SYM,@.DG@	7		1412	C B15 C63		7
132	2	050		BE	DIOG	5		1419	B Y73 S		7
133	2	060		C	SYM,VNOTE	7		1424	C B15 A57		7
134	2	070		BE	A7	5		1431	B W04 S		7
135	2	080		BCE	A4,SYM-2,.	8		1436	B V42 B13 .		8
136	2	090		BCE	A1,SYM-2,	8		1444	B V00 B13		8
137	2	100	C1	A	@2@,COL	7		1452	A C64 A68		8
138	2	110	C2	MLC	COL,*&7	7		1459	M A68 U72		8
139	2	120		MLC	SYM,0	7		1466	M B15 000		8
140	2	130		CW	SYM	4		1473	) B15		9
141	2	140		C	COL,&CARD&72	7		1477	C A68 C67		9
142	2	150		BL	OUTCD	5		1484	B K08 T		9
143	2	160	EXIT	A	@1@,COL	7		1489	A C68 A68		9
144	2	170	EXIT1	B	0	4		1496	B 000		9
145	2	180	A1	BCE	A2,SYM-1,	8		1500	B V34 B14		9
146	2	190		B	C1	4		1508	B U52		9
147	2	200	SUB1	MLC	RM,SYM	7		1512	M B16 B15		10

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	2	210		B	A2		4	1519	B V34		10
149	2	220	SUB2	MLC	GM,SYM		7	1523	M B18 B15		10
150	2	230		B	A2		4	1530	B V34		10
151	2	240	A2	SW	SYM		4	1534	, B15		10
152	2	250		B	C2		4	1538	B U59		10
153	3	010	A4	C	SYM,@.LC@		7	1 542	C B15 C71		10
154	3	020		BU	A5		5	1549	B V65 /		11
155	3	030		MLC	&CARD&16,COL		7	1554	M C74 A68		11
156	3	040		B	EXIT1		4	1561	B U96		11
157	3	050	A5	C	SYM,@.OP@		7	1565	C B15 C77		11
158	3	060		BU	A6		5	1572	B V88 /		11
159	3	070		MLC	&CARD&21,COL		7	1577	M C80 A68		11
160	3	080		B	EXIT1		4	1584	B U96		11
161	3	090	A6	C	SYM,@.MC@		7	1588	C B15 C83		12
162	3	100		BU	C1		5	1595	B U52 /		12
163	3	110		B	OUTCX		4	1600	B X00		12
164	3	120	A7	BCE	OUTCD1,CARD&6,*		8	1604	B X08 106 *		12
165	3	130		MLC	@*@,CARD&6		7	1612	M C84 106		12
166	3	140		MLC	&CARD&9,COL		7	1619	M C87 A68		12
167	3	150		B	EXIT1		4	1626	B U96		13
168	3	160	REMOVE	BWZ	MVE,SX-1,2		8	1630	V W42 A92 2		13
169	3	170		B	XYZ		4	1638	B T37		13
170	3	180	MVE	BCE	XYZ,CARD&6,*		8	1642	B T37 106 *		13
171	3	190		MLZS	@ @,SX		7	1650	Y C88 A93		13
172	3	200		B	XYZ		4	1657	B T37		13
173	3	201	AUTCDE	BW	JJK,SW49		8	1661	V W84 W99 1		14
174	3	202		SW	SW49		4	1669	, W99		14
175	3	203		MLC	@N@,MRG1		7	1673	M C89 X22		14
176	3	204		B	C1RB		4	1680	B T07		14
177	3	205	JJK	MLC	@B@,MRG1		7	1684	M C90 X22		14
178	3	206		CW	SW49		4	1691	) W99		14
179	3	207		B	C1RB		4	1695	B T07		14
180	3	208	SW49	DC	#1		1	1699			15
181	3	210	OUTCX	BCE	CK,CARD&21,#		8	1700	B L76 121 #		15
182	3	220	OUTCD1	A	@1@,SEQ		7	1708	A C68 A61		15
183	3	230		MLC	SEQ,CARD&4		7	1715	M A61 104		15
184	3	240	MRG1	BSS	MERG,G		5	1722	B N06 G		15
185	3	250	OUTB	CS	PRINT&132		4	1727	/ 332		16
186	4	010		CS			1	1731	/		16
187	4	020		SW	CARD&6,CARD&1		7	1732	, 106 101		16
188	4	030		BCE	COMT,CARD&6,*		8	1739	B J97 106 *		16
189	4	040		SW	CARD&21,CARD&16		7	1747	, 121 116		16
190	4	050		MLC	CARD&80,PRINT&100		7	1754	M 180 300		16
191	4	060		MLC	CARD&20,PRINT&38		7	1761	M 120 238		17
192	4	070		MLC	CARD&15,PRINT&32		7	1768	M 115 232		17
193	4	080	COM1	MLC	CARD&5,PRINT&24		7	1775	M 105 224		17
194	4	090		BW	DIOGX,DIGG		8	1782	V Z05 R75 1		17
195	4	100	WRITE	NOP			1	1790	N		17
196	4	110		BCV	OVFL		5	1791	B L56 @		17
197	4	120	OUTCD2	SW	CARD&81		4	1796	, 181		17

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
198	4	130		MLC	@N@,WRITE		7	1800	M C89 X90		18
199	4	140		B	IORW		4	1807	B 343		18
200	4	150		WT	4,CARD&1		8	1811	M %U4 101 W		18
201	4	160		DCW	ERROR		3	1821	O99		18
202	4	170		CS	CARD&80		4	1822	/ 180		18
203	4	180		BCE	OUTCD3,SW,1		8	1826	B K70 A69 1		18
204	4	190		BCE	OUTCD6,SW,2		8	1834	B L24 A69 2		19
205	4	200		MLC	&CARD&6,COL		7	1842	M C93 A68		19
206	4	210		BCE	CK9,SW,9		8	1849	B M60 A69 9		19
207	4	220		BCE	CK10,SW,7		8	1857	B O02 A69 7		19
208	4	230		CW	DIGG		4	1865	) R75		19
209	4	240		B	EXIT1		4	1869	B U96		19
210	4	250	DIOG	MLC	@*24@,SYM		7	1873	M C96 B15		20
211	5	010		SW	DIGG		4	1880	, R75		20
212	5	020		B	GETX		4	1884	B 335		20
213	5	030		DCW	SX		3	1890	A93		20
214	5	040		DCW	EOP		3	1893	P20		20
215	5	050		MLC	SX,KEEX		7	1894	M A93 R78		20
216	5	060		B	A7		4	1901	B W04		20
217	5	070	DIOGX	BW	ARND,SWW		8	1905	V Z85 A94 1		21
218	5	080		SW	SWW		4	1913	, A94		21
219	5	090		MLC	PRINT&132,HOLDB		7	1917	M 332 C50		21
220	5	100		CS	332		4	1924	/ 332		21
221	5	110		CS			1	1928	/		21
222	5	120		MLC	@*** DIAGNOSTICS ***@,OUT1&57		7	1929	M D15 257		21
223	5	130		W			1	1936	2		21
224	5	140		CC	J		2	1937	F J		22
225	5	150		CS	299		4	1939	/ 299		22
226	5	160		MLC	@FLAG@,OUT1&8		7	1943	M D19 208		22
227	5	170		MLC	@REF@,OUT1&16		7	1950	M D22 216		22
228	5	180		MLC	@PG LINE@,OUT1&26		7	1957	M D30 226		22
229	5	190		MLC	@MESSAGE@,OUT1&43		7	1964	M D37 243		22
230	5	200		W			1	1971	2		22
231	5	210		CC	J		2	1972	F J		23
232	5	220		CS	299		4	1974	/ 299		23
233	5	230		MLC	HOLDB,PRINT&132		7	1978	M C50 332		23
234	5	240	ARND	BWZ	NOZONE,KEEX,2		8	1985	V !43 R78 2		23
235	5	250		A	@1@,HANG		7	1993	A C68 R81		23
236	6	010		SW	HANGER		4	2000	, R82		23
237	6	020		MLC	@**@,PRINT&7		7	2004	M D39 207		23
238	6	030	DIOGY	MLZS	@ @,KEEX		7	2011	Y C88 R78		24
239	6	040		MLC	KEEX,PRINT&16		7	2018	M R78 216		24
240	6	050		MLC	@2@,WRITE		7	2025	M C64 X90		24
241	6	060		MLC	@ @,OUT1&28		7	2032	M C88 228		24
242	6	070		B	WRITE		4	2039	B X90		24
243	6	080	NOZONE	A	@1@,NONHAG		7	2043	A C68 R85		24
244	6	090		SW	NHANG		4	2050	, R86		25
245	6	100		B	DIOGY		4	2054	B !11		25
246	6	110	OVFLA	CCB	COMAN,1		5	2058	F J71 1		25
247	6	120	PUU	SBR	COMAN&3,PUNCH1		7	2063	H J74 J05		25

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
248	6	130	PUNCH	CS	180		4	2070	/ 180		25
249	6	140		SW	CARD&81		4	2074	, 181		25
250	6	150		MLC	GM, CARD&81		7	2078	M B18 181		25
251	6	160		B	IORW		4	2085	B 343		26
252	6	170		RT	4, CARD&1		8	2089	M %U4 101 R		26
253	6	180		DCW	ALLFIN		3	2099	Q82		26
254	6	190		BSS	PRTA, D		5	2100	B J10 D		26
255	6	200	PUNCH1	P			1	2105	4		26
256	6	210		B	PUNCH		4	2106	B !70		26
257	6	220	PRTA	CS	332		4	2110	/ 332		26
258	6	230		CS			1	2114	/		27
259	6	240		SW	CARD&6, CARD&1		7	2115	, 106 101		27
260	6	250		BCE	COMTA, CARD&6, *		8	2122	B J75 106 *		27
261	7	010		SW	CARD&21, CARD&16		7	2130	, 121 116		27
262	7	020		MLC	CARD&80, PRINT&100		7	2137	M 180 300		27
263	7	030		MLC	CARD&20, PRINT&38		7	2144	M 120 238		27
264	7	040		MLC	CARD&15, PRINT&32		7	2151	M 115 232		28
265	7	050	COM1A	MLC	CARD&5, PRINT&20		7	2158	M 105 220		28
266	7	060		W			1	2165	2		28
267	7	070		BCV	OVFLA		5	2166	B !58 @		28
268	7	080	COMAN	B	*		4	2171	B J74		28
269	7	090	COMTA	MLC	CARD&80, PRINT&95		7	2175	M 180 295		28
270	7	100		B	COM1A		4	2182	B J58		28
271	7	110	PRINTK	SBR	COMAN&3, PRINTS		7	2186	H J74 J93		29
272	7	120	PRINTS	B	PUNCH		4	2193	B !70		29
273	7	130	COMT	MLC	CARD&80, PRINT&102		7	2197	M 180 302		29
274	7	140		B	COM1		4	2204	B X75		29
275	7	150	OUTCD	BCE	OUTCD4, CARD&6, *		8	2208	B L09 106 *		29
276	7	160		MLC	CARD&17, SVLAB		7	2216	M 117 A86		29
277	7	170		CS	CARD&15		4	2223	/ 115		30
278	7	180		MLC	@1@, SW		7	2227	M C68 A69		30
279	7	190		SW	CARD&72		4	2234	, 172		30
280	7	200	OUTCD5	MLC	COL, *&4		7	2238	M A68 K48		30
281	7	210		MLCWA	0, SAVE		7	2245	L 000 A90		30
282	7	220		MLC	VAT, CARD&75		7	2252	M A65 175		30
283	7	230		CW	CARD&72, CARD&73		7	2259	) 172 173		31
284	7	240		B	OUTCD1		4	2266	B X08		31
285	7	250	OUTCD3	MLC	SVLAB, CARD&17		7	2270	M A86 117		31
286	8	010		MLC	VAT-3, CARD&21		7	2277	M A62 121		31
287	8	020		A	@I50@, COL		7	2284	A D42 A68		31
288	8	030		MLC	COL, *&7		7	2291	M A68 L04		31
289	8	040		MLC	SAVE, 0		7	2298	M A90 000		32
290	8	050		B	EXIT		4	2305	B U89		32
291	8	060	OUTCD4	SW	CARD&73		4	2309	, 173		32
292	8	070		MLC	@2@, SW		7	2313	M C64 A69		32
293	8	080		B	OUTCD5		4	2320	B K38		32
294	8	090	OUTCD6	MLC	@*@, CARD&6		7	2324	M C84 106		32
295	8	100		A	@I36@, COL		7	2331	A D45 A68		33
296	8	110		MLC	COL, *&7		7	2338	M A68 L51		33
297	8	120		MLC	SAVE, 0		7	2345	M A90 000		33

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
298	8	130		B	EXIT		4	2352	B U89		33
299	8	140	OVFL	CCB	OUTCD2,1		5	2356	F X96 1		33
300	8	150	CLEAR	CS	CARD&81		4	2361	/ 181		33
301	8	160		MLC	@ }@,CA RD&81		7	2365	M D47 181		34
302	8	170		B	STSW		4	2372	B T81		34
303	8	180	CK	SW	CARD&6,CARD&22		7	2376	, 106 122		34
304	8	190		MLC	@00000@,CHECK		7	2383	M D52 B05		34
305	8	200		MLC	CARD&11,KEEP		7	2390	M 111 B12		34
306	8	210		MLC	COL,*&4		7	2397	M A68 M07		34
307	8	220		MLC	*,CHECK&1		7	2404	M M10 B06		35
308	8	230		C	@00050@,CHECK		7	2411	C D57 B05		35
309	8	240		BL	CK7		5	2418	B M49 T		35
310	8	250		BE	CK7		5	2423	B M49 S		35
311	9	010		MLC	BLANK,CARD&11		7	2428	M B00 111		35
312	9	020		MLC	@50 @,CARD&26		7	2435	M D62 126		35
313	9	030		MLC	@9@,SW		7	2442	M D63 A69		36
314	9	040	CK7	CW	CARD&6,CARD&22		7	2449	) 106 122		36
315	9	050		B	OUTCD1		4	2456	B X08		36
316	9	060	CK9	MLC	KEEP,CARD&11		7	2460	M B12 111		36
317	9	070		MLC	@DS@,CARD&17		7	2467	M D65 117		36
318	9	080		S	@50@,CHECK		7	2474	S D67 B05		36
319	9	090		MLZS	@ @,CHECK		7	2481	Y C88 B05		37
320	9	100		MLC	CHECK,CARD&25		7	2488	M B05 125		37
321	9	110		MLC	@0@,SW		7	2495	M C54 A69		37
322	9	120		B	OUTCD1		4	2502	B X08		37
323	9	130	MERG	BW	MERG1,SWX1		8	2506	V O43 R87 1		37
324	9	140		C	CARD&11,@STARTS@		7	2514	C 111 D73		38
325	9	150		BU	OUTB		5	2521	B X27 /		38
326	9	160		SW	SWX1		4	2526	, R87		38
327	9	170		MLC	CARD&4,SAVV		7	2530	M 104 R90		38
328	9	180		A	@1@,SAV V		7	2537	A C68 R90		38
329	9	190		B	IORW		4	2544	B 343		38
330	9	200		RT	3,IN		8	2548	M %U3 R91 R		39
331	9	210		DCW	MGG7		3	2558	O25		39
332	9	220	MERGG	SW	IN&7,CARD		7	2559	, R98 100		39
333	9	230		MLC	CARD&80,SRX		7	2566	M 180 A54		39
334	9	240	MERG3	CS	CARD&80		4	2573	/ 180		39
335	9	250		MLC	IN&79,CARD&80		7	2577	M ?70 180		39
336	10	010		MLC	@*@,CARD&6		7	2584	M C84 106		40
337	10	020		MLC	@7@,SW		7	2591	M D74 A69		40
338	10	030		B	OUTB		4	2598	B X27		40
339	10	040	CK10	B	IORW		4	2602	B 343		40
340	10	050		RT	3,IN		8	2606	M %U3 R91 R		40
341	10	060		DCW	MGG7		3	2616	O25		40
342	10	070		BCE	MERG3,IN&7,		8	2617	B N73 R98		41
343	10	080	MGG7	MLC	SRX,CARD&80		7	2625	M A54 180		41
344	10	090		MLC	@0@,SW		7	2632	M C54 A69		41
345	10	100		B	OUTB		4	2639	B X27		41
346	10	110	MERG1	BCE	OUTB,CARD&6,*		8	2643	B X27 106 *		41
347	10	120		BWZ	MERG7,CARD&6,K		8	2651	V O63 106 K		42

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
348	10	130		B	OUTB		4	2659	B X27		42
349	10	140	MERG7	BCE	MERGG1,CARD&9,		8	2663	B O75 109		42
350	10	150		B	OUTB		4	2671	B X27		42
351	10	160	MERGG1	C	CARD&4,SAVV		7	2675	C 104 R90		42
352	10	170		BE	OUTB		5	2682	B X27 S		42
353	10	180		BWZ	MERGG,CARD&7,2		8	2687	V N59 107 2		43
354	10	190		B	OUTB		4	2695	B X27		43
355	10	200	ERROR	CS	332		4	2699	/ 332		43
356	10	210		CS			1	2703	/		43
357	10	220		MLC	@END OF REEL@,250		7	2704	M D85 250		43
358	10	230		CC	J		2	2711	F J		43
359	10	240		W			1	2713	2		43
360	10	250		CC	1		2	2714	F 1		44
361	11	010		H	*-3		4	2716	. P16		44
362	11	020	EOP	CC	K		2	2720	F K		44
363	11	030		BW	HH1,HANGER		8	2722	V Q91 R82 1		44
364	11	040		BW	HH2,NHANG		8	2730	V R24 R86 1		44
365	11	050	AFTN	CC	1		2	2738	F 1		44
366	11	060		CS	332		4	2740	/ 332		44
367	11	070		CS			1	2744	/		45
368	11	080		MLC	@IF EXTRA OUTPUT DESIRED@,247		7	2745	M E08 247		45
369	11	090		W			1	2752	2		45
370	11	100		CC	K		2	2753	F K		45
371	11	110		CS	299		4	2755	/ 299		45
372	11	120		MLC	@B ON FOR PUNCHED AUTOCODER@,250		7	2759	M E34 250		45
373	11	130		W			1	2766	2		45
374	11	140		CS	299		4	2767	/ 299		46
375	11	150		MLC	@D ON FOR PRINTED LISTING@,248		7	2771	M E58 248		46
376	11	160		W			1	2778	2		46
377	11	170		CC	K		2	2779	F K		46
378	11	180		CS	299		4	2781	/ 299		46
379	11	190		MLC	@AND PRESS START@,238		7	2785	M E73 238		46
380	11	200		W			1	2792	2		46
381	11	210		CS	299		4	2793	/ 299		47
382	11	220		MLC	@IF NO EXTRA OUTPUT DESIRED, PRESS START@,263		7	2797	M F12 263		47
383	11	230		W			1	2804	2		47
384	11	240		CC	1		2	2805	F 1		47
385	11	250		WTM	4		5	2807	U %U4 M		47
386	12	010		RWD	4		5	2812	U %U4 R		47
387	12	020		H			1	2817	.		47
388	12	030		BSS	PUU,B		5	2818	B !63 B		48
389	12	040		BSS	PRINTK,D		5	2823	B J86 D		48
390	12	050		CS	332		4	2828	/ 332		48
391	12	060		CS			1	2832	/		48
392	12	070		MLC	@END OF COMPILATION-AUTOCODER ON TAPE UNIT 4@,280		7	2833	M F55 280		48
393	12	080		CC	1		2	2840	F 1		48
394	12	090		W			1	2842	2		48
395	12	100		CC	1		2	2843	F 1		49
396	12	110		RWD	1		5	2845	U %U1 R		49
397	12	120		RWD	5		5	2850	U %U5 R		49

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
398	12	130		RWD	6		5	2855	U %U6	R	49
399	12	140		RWD	4		5	2860	U %U4	R	49
400	12	150		H	*-3		4	2865	.	Q65	49
401	12	160		B	*-7		4	2869	B	Q65	49
402	12	170	PKT	CS	180		4	2873	/	180	50
403	12	180		P			1	2877	4		50
404	12	190		B	AFTN		4	2878	B	P38	50
405	12	200	ALLFIN	BSS	PKT,B		5	2882	B	Q73 B	50
406	12	210		B	AFTN		4	2887	B	P38	50
407	12	220	HH1	SBR	EXI&3		4	2891	H	R23	50
408	12	230	HHH	CS	332		4	2895	/	332	50
409	12	240		CS			1	2899	/		51
410	12	250		MLC	@NUMBER OF ERRORS NEEDING CORRECTION-@,275		7	2900	M	F91 275	51
411	13	010		MCS	HANG,280		7	2907	Z	R81 280	51
412	13	020		W			1	2914	2		51
413	13	030		BCV	OVV		5	2915	B	R64 @	51
414	13	040	EXI	B	*		4	2920	B	R23	51
415	13	050	HH2	SBR	EXRI&3		4	2924	H	R63	51
416	13	060		CS	332		4	2928	/	332	52
417	13	070		CS			1	2932	/		52
418	13	080		MLC	@TOTAL NUMBER OF DIAGNOSTICS-@,267		7	2933	M	G19 267	52
419	13	090		A	NONHAG,HANG		7	2940	A	R85 R81	52
420	13	100		MCS	HANG,272		7	2947	Z	R81 272	52
421	13	110		W			1	2954	2		52
422	13	120		BCV	OVK		5	2955	B	R69 @	52
423	13	130	EXRI	B	*		4	2960	B	R63	53
424	13	140	OVV	CCB	EXI,1		5	2964	F	R20 1	53
425	13	150	OVK	CCB	EXRI,1		5	2969	F	R60 1	53
426	13	160		H			1	2974	.		53
427	13	170	DIGG	DC	#1		1	2975			53
428	13	180	KEEX	DCW	#3		3	2978			53
429	13	190	HANG	DCW	@000@		3	2981			53
430	13	200	HANGER	DC	#1		1	2982			53
431	13	210	NONHAG	DCW	@000@		3	2985			53
432	13	220	NHANG	DC	#1		1	2986			54
433	13	230	SWX1	DC	#1		1	2987			54
434	13	240	SAVV	DCW	#3		3	2990			54
435	13	250	IN	DA	1X82			2991	3072		54
436	14	010		DA	1X82			3073	3154		54
437	14	020	SRX	EQU	*			3154			54
438	14	030	VNOTE	DCW	@*24@		3	3157			55
439	14	040	SEQ	DCW	@0100@		4	3161			55
440	14	050	VAT	DCW	@@ @		4	3165			55
441	14	060	COL	DCW	CARD&6		3	3168	106		55
442	14	070	SW	DCW	@4@		1	3169			55
443	14	080	SVLAB	DCW	#17		17	3186			55
444	14	090	SAVE	DCW	#4		4	3190			55
445	14	100	SX	DCW	#3		3	3193			56
446	14	110	SWW	DC	#1		1	3194			56
447	14	120	BLANK	DCW	#6		6	3200			56

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
448	14	130	CHECK	DCW	#5		5	3205			56
449	14	140		DC	#1		1	3206			56
450	14	150	KEEP	DCW	#6		6	3212			56
451	14	160	SYM	DCW	#3		3	3215			56
452	14	170	RM	DCW	@|@		1	3216			56
453	14	180	GM	DCW	@ }@		2	3218			56
454	14	190		DA	1X132			3219	3350		57
455	14	200	HOLDB	EQU	*			3350			
456	14	210		LTORG					3351		
				DCW	@@.AC@		3	3353		LIT	57
					@0@		1	3354		LIT	57
					@ GM@		3	3357		LIT	57
					@ RM@		3	3360		LIT	57
					@.DG@		3	3363		LIT	57
					@2@		1	3364		LIT	57
	141				&CARD&72		3	3367	172	ADCON	58
					@1@		1	3368		LIT	58
					@.LC@		3	3371		LIT	58
	155				&CARD&16		3	3374	116	ADCON	58
					@.OP@		3	3377		LIT	58
	159				&CARD&21		3	3380	121	ADCON	58
					@.MC@		3	3383		LIT	58
					@*@		1	3384		LIT	59
	166				&CARD&9		3	3387	109	ADCON	59
					@ @		1	3388		LIT	59
					@N@		1	3389		LIT	59
					@B@		1	3390		LIT	59
	205				&CARD&6		3	3393	106	ADCON	59
					@*24@		3	3396		LIT	59
	222				@*** DIAGNOSTICS ***@		19	3415		LIT	60
					@FLAG@		4	3419		LIT	60
					@REF@		3	3422		LIT	60
	228				@PG LINE@		8	3430		LIT	60
	229				@MESSAGE@		7	3437		LIT	61
					@**@		2	3439		LIT	61
					@I50@		3	3442		LIT	61
					@I36@		3	3445		LIT	61
					@ }@		2	3447		LIT	61
	304				@00000@		5	3452		LIT	61
	308				@00050@		5	3457		LIT	61
	312				@50 @		5	3462		LIT	62
					@9@		1	3463		LIT	62
					@DS@		2	3465		LIT	62
					@50@		2	3467		LIT	62
	324				@STARTS@		6	3473		LIT	62
					@7@		1	3474		LIT	62
	357				@END OF REEL@		11	3485		LIT	62
	368				@IF EXTRA OUTPUT DESIRED@		23	3508		LIT	63
	372				@B ON FOR PUNCHED AUTOCODER@		26	3534		LIT	64
	375				@D ON FOR PRINTED LISTING@		24	3558		LIT	65

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
		379			@AND PRESS START@	15		3573		LIT	65
		382			@IF NO EXTRA OUTPUT DESIRED, PRESS START@	39		3612		LIT	66
		392			@END OF COMPILATION-AUTOCODER ON TAPE UNIT 4@	43		3655		LIT	68
		410			@NUMBER OF ERRORS NEEDING CORRECTION-@	36		3691		LIT	69
		418			@TOTAL NUMBER OF DIAGNOSTICS-@	28		3719		LIT	70
457	14	220		ORG					3720		
458	14	230		DCW	@}@	1		3720			70
459	14	240		END					/ 000 080		71