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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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FORTRAN COMPILER -- STATEMENT NUMBERS PHASE -- 22 PAGE 1

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
101				JOB	FORTRAN COMPILER -- STATEMENT NUMBERS PHASE -- 22						
102				CTL	6611						
103				*							
104				*	ALL STATEMENT NUMBERS THAT APPEAR IN THE PROGRAM ARE REDUCED						
105				*	TO A UNIQUE THREE-CHARACTER REPRESENTATION. STATEMENT NUMBERS						
106				*	WITHIN THE STATEMENT ARE MOVED TO THE BEGINNING OF EACH SOURCE-						
107				*	PROGRAM STATEMENT (RIGHTMOST END OF STATEMENT IN STORAGE) THAT						
108				*	CONTAINS THOSE ELEMENTS.						
109				*							
110				*	ON ENTRY, X1 IS THE TOP OF THE PREFIX OF THE TOP STATEMENT,						
111				*	X2 IS ONE BELOW THE BOTTOM STATEMENT, AND 81-83 IS ONE BELOW						
112				*	THE BOTTOM OF THE NUMBER TABLE.						
113				*							
114			X1	EQU	89			0089			
115			X2	EQU	94			0094			
116			X3	EQU	99			0099			
117				*							
118				*	STUFF IN THE RESIDENT AREA						
119				*							
120			PHASID	EQU	110 PHASE ID, FOR SNAPSHOT DUMPS			0110			
121			GLOBER	EQU	184 GLOBAL ERROR FLAG -- WM MEANS ERROR			0184			
122			SNAPSH	EQU	333 CORE DUMP SNAPSHOT			0333			
123			LOADNX	EQU	700 LOAD NEXT OVERLAY			0700			
124			CLEARL	EQU	707 CS AT START OF OVERLAY LOADER			0707			
125			LOADXX	EQU	793 EXIT FROM OVERLAY LOADER			0793			
126				*							
127				ORG	838			0838			
128			LOADDD	EQU	*&1 LOAD ADDRESS			0838			
129	838		BEGINN	CS	0&X2 CLEAR BELOW BOTTOM OF STATEMENTS	4	0838	/ 0!0			4
130	842			MCW	83,X2 BELOW NUMBER TABLE	7	0842	M 083 094			4
131	849			SW	GM	4	0849	, Y83			4
132	853			LCA	GM,0&X2	7	0853	L Y83 0!0			4
133	860			SBR	X2	4	0860	H 094			4
134	864	LOOP		BCE	DONE,0&X1,	8	0864	B Y52 0!0			4
135	872			LCA	0&X1,PREFIX	7	0872	L 0!0 Z62			5
136	879			SAR	X1	4	0879	Q 089			5
137	883			CW	1&X1	4	0883	) 0!1			5
138	887			SW	PREFIX-3	4	0887	, Z59			5
139	891			LCA	PREFIX,0&X2 MOVE UP ONLY SEQ NUMBER AND CODE	7	0891	L Z62 0!0			5
140	898			SBR	X2	4	0898	H 094			5
141	902			CW	1&X2	4	0902	) 0!1			5
142	906			BWZ	LBLDEF,PREFIX-4,2	8	0906	V !03 Z58 2			6
143	914	NOLABL		LCA	GM,0&X2	7	0914	L Y83 0!0			6
144	921			SBR	X2	4	0921	H 094			6
145	925			MCW	PREFIX-3,*&8	7	0925	M Z59 939			6
146	932			BCE	LBLREF,STMTS,0 DOES STATEMENT HAVE LABEL REFS?	8	0932	B !26 Z73 0			6
147	940			CHAIN	10					MACRO	

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148				BCE		1		0940	B	GEN	6
149				BCE		1		0941	B	GEN	6
150				BCE		1		0942	B	GEN	7
151				BCE		1		0943	B	GEN	7
152				BCE		1		0944	B	GEN	7
153				BCE		1		0945	B	GEN	7
154				BCE		1		0946	B	GEN	7
155				BCE		1		0947	B	GEN	7
156				BCE		1		0948	B	GEN	7
157				BCE		1		0949	B	GEN	8
158	950			BCE	ENDSTM,PREFIX-3,/	8		0950	B 981 Z59 /		8
159	958	MOVEUP	LCA	0&X1,0&X2	MOVE (REST OF) STATEMENT UP	7		0958	L 010 010		8
160	965		SAR	X1		4		0965	Q 089		8
161	969		C	0&X2		4		0969	C 010		8
162	973		SAR	X2		4		0973	Q 094		8
163	977		B	LOOP		4		0977	B 864		8
164			*								
165			*	END STATEMENT							
166			*								
167	981	ENDSTM	C	0&X1		4		0981	C 010		9
168	985		SAR	X1		4		0985	Q 089		9
169	989		MCM	4&X2		4		0989	P 014		9
170	993		MN			1		0993	D		9
171	994		MN			1		0994	D		9
172	995		SAR	X2		4		0995	Q 094		9
173	999		B	LOOP		4		0999	B 864		9
174			*								
175			*	GOT A STATEMENT LABEL DEFINITION							
176			*								
177	1 003	LBLDEF	LCA	PREFIX-4,LABEL		7		1003	L Z58 Z79		10
178	1 010		SBR	X3		4		1010	H 099		10
179	1 014		SW	2&X3		4		1014	, 022		10
180	1 018		B	CONV50		4		1018	B V63		10
181	1 022		B	NOLABL		4		1022	B 914		10
182			*								
183			*	STATEMENT IS ONE THAT CONTAINS LABEL REFERENCES							
184			*								
185	1 026	LBLREF	BCE	IF,PREFIX-3,E	IF STATEMENT	8		1026	B T62 Z59 E		10
186	1 034		BCE	DO,PREFIX-3,D	DO STATEMENT	8		1034	B S76 Z59 D		10
187	1 042		BCE	TAPE,PREFIX-3,5	READ INPUT TAPE STATEMENT	8		1042	B /30 Z59 5		11
188	1 050		BCE	TAPE,PREFIX-3,6	WRITE OUTPUT TAPE STATEMENT	8		1050	B /30 Z59 6		11
189	1 058		BCE	CGO,PREFIX-3,T	COMPUTED GO TO STATEMENT	8		1058	B 190 Z59 T		11
190	1 066		BCE	IFSS,PREFIX-3,W	IF (SENSE SWITCH ...)	8		1066	B /93 Z59 W		11
191	1 074		BCE	IFSS,PREFIX-3,K	IF (SENSE LIGHT ...)	8		1074	B /93 Z59 K		12
192	1 082		B	SAVLAB PUNCH, PRINT, READ, GOTO		4		1082	B U73		12
193	1 086		B	MOVEUP		4		1086	B 958		12
194			*								
195			*	COMPUTED GO TO STATEMENT							
196			*								
197	1 090	CGO	B	SAVLAB		4		1090	B U73		12

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
198	1	094		BCE	CGOFIN,0&X1,)	8		1094	B /18 0|0)		12
199	1	102		BCE	SYNTAX,0&X1,}	8		1102	B X55 0|0 } GMARK		12
200	1	110		SBR	X1	4		1110	H 089		13
201	1	114		B	CGO	4		1114	B |90		13
202	1	118	CGOFIN	MN	0&X1	4		1118	D 0|0		13
203	1	122		SAR	X1	4		1122	Q 089		13
204	1	126		B	MOVEUP	4		1126	B 958		13
205				*							
206				*	READ INPUT TAPE OR WRITE OUTPUT TAPE STATEMENT						
207				*							
208	1	130	TAPE	MCW	X1,STMFIN&3	7		1130	M 089 /77		13
209	1	137	GETCOM	BCE	GOTCOM,0&X1,, GET	8		1137	B /61 0|0 ,		13
210	1	145		BCE	SYNTAX,0&X1,} DOWN	8		1145	B X55 0|0 } GMARK		14
211	1	153		SBR	X1 TO	4		1153	H 089		14
212	1	157		B	GETCOM COMMA	4		1157	B /37		14
213	1	161	GOTCOM	SW	1&X1	4		1161	, 0|1		14
214	1	165		MN		1		1165	D		14
215	1	166		SAR	X1	4		1166	Q 089		14
216	1	170		B	SAVLAB	4		1170	B U73		14
217				*							
218	1	174	STMFIN	LCA	0,0&X2	7		1174	L 000 0!0		15
219	1	181		SBR	X2	4		1181	H 094		15
220	1	185		CW	1&X2	4		1185	) 0!1		15
221	1	189		B	MOVEUP	4		1189	B 958		15
222				*							
223				*	IF (SENSE SWITCH ...) OR IF (SENSE LIGHT ...) STATEMENT						
224				*							
225	1	193	IFSS	MCW	X1,STMFIN&3	7		1193	M 089 /77		15
226	1	200	GETRP	BCE	GOTRP,0&X1,} GET	8		1200	B S24 0|0 }		15
227	1	208		BCE	SYNTAX,0&X1,} DOWN	8		1208	B X55 0|0 } GMARK		16
228	1	216		SBR	X1 TO RIGHT	4		1216	H 089		16
229	1	220		B	GETRP PARENTHESIS	4		1220	B S00		16
230	1	224	GOTRP	SW	1&X1	4		1224	, 0|1		16
231	1	228		MN		1		1228	D		16
232	1	229		SAR	X1	4		1229	Q 089		16
233	1	233		B	SAVLAB	4		1233	B U73		16
234	1	237		MN	0&X1	4		1237	D 0|0		17
235	1	241		SAR	X1	4		1241	Q 089		17
236	1	245		BCE	SYNTAX,0&X1,}	8		1245	B X55 0|0 } GMARK		17
237	1	253		B	SAVLAB	4		1253	B U73		17
238	1	257	SETCOM	LCA	COMMA,0&X2	7		1257	L Z80 0!0		17
239	1	264		SBR	X2	4		1264	H 094		17
240	1	268		CW	1&X2	4		1268	) 0!1		17
241	1	272		B	STMFIN	4		1272	B /74		18
242				*							
243				*	DO STATEMENT						
244				*							
245	1	276	DO	MCW	X1,X3	7		1276	M 089 099		18
246	1	283	GETEQ	BCE	GOTEQ,0&X3,# FIND THE	8		1283	B S99 0?0 #		18
247	1	291		SBR	X3 EQUAL SIGN	4		1291	H 099		18

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
248	1	295		B	GETEQ	4		1295	B S83		18
249	1	299	GOTEQ	MCW	3&X3,CH2	7		1299	M 0?3 Z81		18
250	1	306		MCW	COMMA,3&X3	7		1306	M Z80 0?3		19
251	1	313		SBR	W3,3&X3	7		1313	H Z84 0?3		19
252	1	320		B	SAVLAB	4		1320	B U73		19
253	1	324		C	W3,X1	7		1324	C Z84 089		19
254	1	331		BU	SYNTAX	5		1331	B X55 /		19
255	1	336		MCW	CH2,0&X1	7		1336	M Z81 0|0		19
256	1	343		LCA	COMMA,0&X2	7		1343	L Z80 0!0		20
257	1	350		SBR	X2	4		1350	H 094		20
258	1	354		CW	1&X2	4		1354	) 0!1		20
259	1	358		B	MOVEUP	4		1358	B 958		20
260				*							
261				*	IF STATEMENT						
262				*							
263	1	362	IF	MCW	X1,STMFIN&3	7		1362	M 089 /77		20
264	1	369	IFLOOP	BCE	IFRP,0&X1,)	8		1369	B T93 0|0)		20
265	1	377		BCE	SYNTAX,0&X1,}	8		1377	B X55 0|0 } GMARK		21
266	1	385		SBR	X1	4		1385	H 089		21
267	1	389		B	IFLOOP	4		1389	B T69		21
268	1	393	IFRP	MN	0&X1	4		1393	D 0|0		21
269	1	397		SAR	X1	4		1397	Q 089		21
270	1	401		BWZ	*&5,0&X1,2 FOLLOWED BY A DIGIT	8		1401	V U13 0|0 2		21
271	1	409		B	IFLOOP	4		1409	B T69		21
272	1	413		BCE	IFLOOP,0&X1,@	8		1413	B T69 0|0 @		22
273	1	421		SW	1&X1	4		1421	, 0|1		22
274	1	425		B	SAVLAB	4		1425	B U73		22
275	1	429		MN	0&X1	4		1429	D 0|0		22
276	1	433		SAR	X1	4		1433	Q 089		22
277	1	437		BCE	SYNTAX,0&X1,}	8		1437	B X55 0|0 } GMARK		22
278	1	445		B	SAVLAB	4		1445	B U73		22
279	1	449		MN	0&X1	4		1449	D 0|0		23
280	1	453		SAR	X1	4		1453	Q 089		23
281	1	457		BCE	SYNTAX,0&X1,}	8		1457	B X55 0|0 } GMARK		23
282	1	465		B	SAVLAB	4		1465	B U73		23
283	1	469		B	SETCOM	4		1469	B S57		23
284				*							
285				*	MOVE THE LABEL TO THE LABEL WORK AREA						
286				*							
287	1	473	SAVLAB	SBR	SAVLBX&3	4		1473	H V62		23
288	1	477		MCW	X1,LABMOV&3	7		1477	M 089 V47		23
289	1	484		BWZ	*&5,0&X1,2	8		1484	V U96 0|0 2		24
290	1	492		B	SYNTAX2	4		1492	B Y01		24
291	1	496	SAVLL	MN	0&X1	4		1496	D 0|0		24
292	1	500		SAR	X1	4		1500	Q 089		24
293	1	504		BWZ	SAVLL,0&X1,2	8		1504	V U96 0|0 2		24
294	1	512		BCE	ENDLAB,0&X1,,	8		1512	B V40 0|0 ,		24
295	1	520		BCE	ENDLAB,0&X1,}	8		1520	B V40 0|0 } GMARK		25
296	1	528		BCE	ENDLAB,0&X1,)	8		1528	B V40 0|0)		25
297	1	536		B	SYNTAX2	4		1536	B Y01		25

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
348					* STATEMENT NUMBER SYNTAX ERROR						
349					*						
350	1	755	SYNTAX	CS	332	4		1755	/ 332		32
351	1	759		CS		1		1759	/		32
352	1	760		SW	GLOBER	4		1760	, 184		32
353	1	764		MN	PREFIX,249	7		1764	D Z62 249		32
354	1	771		MN		1		1771	D		32
355	1	772		MN		1		1772	D		32
356	1	773		MCW	ERR13	4		1773	M !48		33
357	1	777		W		1		1777	2		33
358	1	778		BCV	*&5	5		1778	B X87 @		33
359	1	783		B	*&3	4		1783	B X89		33
360	1	787		CC	1	2		1787	F 1		33
361	1	789		BW	MORE,FLAG	8		1789	V Y09 Y95 1		33
362	1	797		B	GETUP	4		1797	B Y30		33
363	1	801	SYNTAX2	SW	FLAG	4		1801	, Y95		34
364	1	805		B	SYNTAX	4		1805	B X55		34
365	1	809	MORE	MCM	1&X2	4		1809	P 0!1		34
366	1	813		MN		1		1813	D		34
367	1	814		SAR	X2	4		1814	Q 094		34
368	1	818		BCE	MORE,0&X2,|	8		1818	B Y09 0!0 |		34
369	1	826		CW	FLAG	4		1826	) Y95		34
370	1	830	GETUP	MCM	4&X2 MOVE X2 UP TO GMWM	4		1830	P 0!4		35
371	1	834		MN		1		1834	D		35
372	1	835		MN		1		1835	D		35
373	1	836		SAR	X2	4		1836	Q 094		35
374	1	840		C	0&X1 GET X1 DOWN TO WM	4		1840	C 0!0		35
375	1	844		SAR	X1	4		1844	Q 089		35
376	1	848		B	LOOP	4		1848	B 864		35
377					*						
378					* REACHED BOTTOM OF STATEMENTS						
379					*						
380	1	852	DONE	BSS	SNAPSH,C	5		1852	B 333 C		36
381	1	857		SBR	LOADXX&3,980	7		1857	H 796 980		36
382	1	864		SBR	CLEARL&3,1599	7		1864	H 710 V99		36
383	1	871		LCA	FORMT1,PHASID	7		1871	L !58 110		36
384	1	878		B	LOADNX	4		1878	B 700		36
385					*						
386					* DONE						
387					*						
388	1	882		DCW	#1	1		1882			36
389	1	883	GM	DC	@}@	1		1883		GMARK	36
390	1	884	DOT	DC	@.@	1		1884			36
391	1	890	LBLWRK	DCW	#6	6		1890			36
392	1	891	CH	DCW	#1	1		1891			37
393	1	894	SX1	DCW	#3	3		1894			37
394	1	895	FLAG	DC	#1	1		1895			37
395			CHARS	EQU	*&1			1896			
396	1	941		DC	@.")&\$*-%#@?ABCDEFGHIJKLMN_PQR_/STUVWXYZ012345@	46		1941			39
397	1	946		DC	@6789.@	5		1946			39

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
398	1	952	KZ6	DCW	@000000@	6		1952			39
399	1	962	PREFIX	DCW	#10	10		1962			39
400	1	973	STMTS	DCW	@WT65UPLDEGK@ CODES FOR STATEMENTS HAVING LABELS	11		1973			39
401	1	979	LABEL	DCW	#6	6		1979			40
402	1	980	COMMA	DCW	,@	1		1980			40
403	1	981	CH2	DCW	#1	1		1981			40
404	1	984	W3	DCW	#3	3		1984			40
405	1	985	K1	DCW	1	1		1985			40
406	1	989	K5050	DCW	5050	4		1989			40
407	1	990	K2	DCW	2	1		1990			40
408	1	996	X1TAGS	DCW	@Z Z Z @	6		1996			41
409	1	999	ACHARS	DSA	CHARS	3		1999	Y96		41
410	2	002	ALBLWK	DSA	LBLWRK	3		2002	Y90		41
411	2	048	ERR13	DCW	@ERROR 13 - STATEMENT NUMBER SYNTAX, STATEMENT @	46		2048			43
412	2	058	FORMT1	DCW	@TAMROF ONE@	10		2058			43
413	2	059	GMWM	DCW	@j@	1		2059		GMARK	43
414				ORG	201				0201		
415		203		DSA	LOADDD LOAD ADDRESS FOR CARD-TO-TAPE PROGRAM	3		0203	838		44
416				EX	BEGINN				B 838		45
417				END					/ 000 080		

