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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 -- CONDENSED DECK PHASE 2 -- 58 PAGE 1

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
101				JOB	FORTRAN COMPILER -- CONDENSED DECK PHASE 2 -- 58						
102				CTL	6611						
103				*							
104				*	THIS PHASE PUNCHES CARDS THAT WILL INITIALIZE THE INDEX						
105				*	REGISTERS AND SENSE LIGHTS, THE SNAPSHOT OR THE LINKAGE						
106				*	ROUTINE, THE ARITHMETIC ROUTINE, AND CERTAIN FINAL						
107				*	ADDRESSES AND CONSTANTS.						
108				*							
109				*	STUFF IN THE RESIDENT AREA						
110				*							
111				GLOBER	EQU 184 GLOBAL ERROR FLAG -- WM MEANS ERROR			0184			
112				GOTXL	EQU 185 XLINKF WAS REFERENCED IF NO WM			0185			
113				RELTAB	EQU 188 RELOCATABLE FUNCTION TABLE ENTRY ADDRESSES			0188			
114				SUBENT	EQU 191 ENTRY TO SUBSCRIPT ROUTINE			0191			
115				SNAPSH	EQU 333 CORE DUMP SNAPSHOT			0333			
116				IMOD	EQU 690 INTEGER MODULUS -- NUMBER OF DIGITS			0690			
117				MANTIS	EQU 692 FLOATING POINT MANTISSA DIGITS & 2			0692			
118				CONDNS	EQU 693 P FOR CONDENSED DECK			0693			
119				LOADNX	EQU 700 LOAD NEXT OVERLAY			0700			
120				CLEARL	EQU 707 CS AT START OF OVERLAY LOADER			0707			
121				CDOVLY	EQU 769 1 IF RUNNING FROM CARDS, N IF FROM TAPE			0769			
122				TPREAD	EQU 780 TAPE READ INSTRUCTION IN OVERLAY LOADER			0780			
123				LOADXX	EQU 793 EXIT FROM OVERLAY LOADER			0793			
124				CLRBOT	EQU 833 BOTTOM OF CORE TO CLEAR IN OVERLAY LOADER			0833			
125				*							
126				*	ADDRESS IN PHASE 57						
127				*							
128				PUNCH	EQU 838 PUNCH A CARD AND MAYBE PRINT IT TOO			0838			
129				*							
130				*	ADDRESSES IN ARITF						
131				*							
132				SETFP	EQU 831 PUT MANTISSA WIDTH INTO B			0831			
133				QFUNCT	EQU 1327 BRANCH TO FUNCTION SELECTOR			1327			
134				DOSUB	EQU 1206 BRANCH TO SUBSCRIPT ROUTINE			1206			
135				ARITI	EQU 1530 PUT INTEGER SIZE IN B			1530			
136				*							
137				ORG	884			0884			
138	884		BEGINN	MCW	CDOVLY,R2	7	0884	M 769	74		4
139	891		BW		SKIPX1,GOTXL NEED XLINKF IF NO WM, SKIP IF WM	8	0891	V 984	185 1		4
140				*							
141				*	SKIP SNAPSHOT						
142				*							
143	899			MCW	CDOVLY,R1 READ OR NOP	7	0899	M 769	920		4
144	906			SBR	TSTCNT&3,RT1	7	0906	H /17	931		4
145	913			SBR	TAPERX&3,RESET1	7	0913	H /30	924		4
146	920	R1		R	TEST1	4	0920	1 944			5
147	924		RESET1	MCW	KP9,ERRCNT	7	0924	M V36	V85		5

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148		931	RT1	RT	1,1	8		0931	M %U1 001 R		5
149		939		BER	TAPERR	5		0939	B /02 L		5
150		944	TEST1	BCE	*&5,68,B	8		0944	B 956 068 B		5
151		952		B	R1	4		0952	B 920		5
152			*								
153			*		SETUP SECOND READER TO PUNCH						
154			*								
155		956		SBR	SWICH2&3,TEST2	7		0956	H /01 /31		6
156		963		SBR	TSTCNT&3,RT2	7		0963	H /17 85		6
157		970		SBR	TAPERX&3,RESET2	7		0970	H /30 78		6
158		977		A	KP1,W1	7		0977	A V37 V86		6
159		984	SKIPX1	BCE	*&5,CONDNS,P	8		0984	B 996 693 P		6
160		992		B	R2	4		0992	B 74		7
161		996		BW	ERRMSG,GLOBER	8		0996	V /66 184 1		7
162			*								
163			*		SET INDEX REGISTERS AND SENSE LIGHTS WITH ZEROES						
164			*		PART OF ARITF DECK NOW						
165			*								
166	1	004		MCW	R40&3,171	7		1004	M V41 171		7
167	1	011		MCW	LOAD1 TO SET INDEX REGISTERS AND SENSE LIGHTS	4		1011	M V69		7
168	1	015		CS		1		1015	/		7
169	1	016		LCA	KZ14,114 ZEROES	7		1016	L V83 114		7
170	1	023		MCW	BRANCH,SWICH1	7		1023	M V84 70		7
171	1	030		NOP	PUNCH	4		1030	N 838		8
172			*								
173			*		LOAD TOPCOR, IMOD, MANTIS, GMWM						
174			*								
175	1	034		MCW	R40&3,171	7		1034	M V41 171		8
176	1	041		MCW	LOAD	4		1041	M V34		8
177	1	045		CS		1		1045	/		8
178	1	046		MCW	LOAD2,157 LOAD MANTIS, IMOD, TOPCOR	7		1046	M U63 157		8
179	1	053		SW	GMWM	4		1053	, W12		8
180	1	057		MCW	GMWM,108	7		1057	M W12 108		8
181	1	064		MCW	MANTIS FP SIZE	4		1064	M 692		9
182	1	068		MCW	INTEGER SIZE	1		1068	M		9
183	1	069		LCA	TOPCOR	1		1069	L		9
184	1	070	SWICH1	NOP	PUNCH SOMETIMES BRANCH	4		1070	N 838		9
185			*								
186			*		COPY OR SKIP A DECK						
187			*								
188	1	074	R2	R	SWICH2	4		1074	1 98		9
189	1	078	RESET2	MCW	KP9,ERRCNT	7		1078	M V36 V85		9
190	1	085	RT2	RT	1,1	8		1085	M %U1 001 R		9
191	1	093		BER	TAPERR	5		1093	B /02 L		10
192	1	098	SWICH2	B	CHG2 SOMETIMES TEST2, SOMETIMES ENDEKS	4		1098	B /55		10
193	1	102	TAPERR	BSP	1	5		1102	U %U1 B		10
194	1	107		S	KP1,ERRCNT	7		1107	S V37 V85		10
195	1	114	TSTCNT	BWZ	RT2,ERRCNT,B	8		1114	V 85 V85 B		10
196	1	122		NOP	3333	4		1122	N C33		10
197	1	126		H		1		1126	.		10

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
198	1	127	TAPERX	B	RESET2	4		1127	B 78		11
199	1	131	TEST2	BCE	END2,68,B	8		1131	B /85 068 B		11
200	1	139		MCW	71,171	7		1139	M 071 171		11
201	1	146		CHAIN	5					MACRO	
202				MCW		1		1146	M	GEN	11
203				MCW		1		1147	M	GEN	11
204				MCW		1		1148	M	GEN	11
205				MCW		1		1149	M	GEN	11
206				MCW		1		1150	M	GEN	12
207	1	151		B	SWICH1	4		1151	B 70		12
208	1	155	CHG2	SBR	SWICH2&3,TEST2	7		1155	H /01 /31		12
209	1	162		B	R2	4		1162	B 74		12
210				*							
211				*	ERRORS PREVENT CONDENSED DECK						
212				*							
213	1	166	ERRMSG	CS	332	4		1166	/ 332		12
214	1	170		CS		1		1170	/		12
215	1	171		MCW	ERRORS,243	7		1171	M V06 243		12
216	1	178		W		1		1178	2		13
217	1	179		CC	J	2		1179	F J		13
218	1	181		B	R2	4		1181	B 74		13
219				*							
220				*	COPY ANOTHER DECK						
221				*							
222	1	185	END2	A	KP1,W1	7		1185	A V37 V86		13
223	1	192		BCE	ENDECK,W1,3	8		1192	B S95 V86 3		13
224	1	200		BCE	R2,W1,2	8		1200	B 74 V86 2		13
225	1	208		BW	*&5,GOTXL	8		1208	V S20 185 1		13
226	1	216		B	R2	4		1216	B 74		14
227	1	220		MCW	CDOVLY,R3	7		1220	M 769 S41		14
228	1	227		SBR	TSTCNT&3,RT3	7		1227	H /17 S52		14
229	1	234		SBR	TAPERX&3,RESET3	7		1234	H /30 S45		14
230				*							
231				*	SKIP A DECK						
232				*							
233	1	241	R3	R	TEST3	4		1241	1 S65		14
234	1	245	RESET3	MCW	KP9,ERRCNT	7		1245	M V36 V85		14
235	1	252	RT3	RT	1,1	8		1252	M %U1 001 R		15
236	1	260		BER	TAPERR	5		1260	B /02 L		15
237	1	265	TEST3	BCE	*&5,68,B	8		1265	B S77 068 B		15
238	1	273		B	R3	4		1273	B S41		15
239	1	277		SBR	TSTCNT&3,RT2	7		1277	H /17 85		15
240	1	284		SBR	TAPERX&3,RESET2	7		1284	H /30 78		15
241	1	291		B	END2	4		1291	B /85		16
242	1	295	ENDECK	SBR	SWICH2&3,ENDEKS	7		1295	H /01 T06		16
243	1	302		B	R2	4		1302	B 74		16
244	1	306	ENDEKS	BCE	DONE,SWICH1,N	8		1306	B U05 70 N		16
245				*							
246				*	IMOD, MANTIS, RELTAB, SUBENT TO ARITF						
247				*							

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
248	1	314		CS	171	4		1314	/ 171		16
249	1	318		SW	101	4		1318	, 101		16
250	1	322		MCW	R40&3,171	7		1322	M V41 171		16
251	1	329		MCW	LOAD	4		1329	M V34		17
252	1	333		MCW	MVIMOD&6,146 TO PUT IMOD INTO ARITF	7		1333	M V93 146		17
253	1	340		MCW	IMOD,102	7		1340	M 690 102		17
254	1	347		B	PUNCH	4		1347	B 838		17
255	1	351		MCW	WHERE,146 TO PUT MANTIS INTO ARITF	7		1351	M V96 146		17
256	1	358		MCW	MANTIS,102	7		1358	M 692 102		17
257	1	365		B	PUNCH	4		1365	B 838		18
258	1	369		MCW	FUNCE&3,146 MCW 3,QFUNC&3	7		1369	M W00 146		18
259	1	376		MCW	RELTAB,103 RELOCATABLE FUNCTION TABLE ADDRESS	7		1376	M 188 103		18
260	1	383		B	PUNCH	4		1383	B 838		18
261	1	387		MCW	SUBE,146	7		1387	M W03 146		18
262	1	394		MCW	SUBENT,103	7		1394	M 191 103		18
263	1	401		B	PUNCH	4		1401	B 838		19
264			*								
265	1	405	DONE	BSS	SNAPSH,C	5		1405	B 333 C		19
266	1	410		SBR	TPREAD&6,838	7		1410	H 786 838		19
267	1	417		SBR	CLRBOT	4		1417	H 833		19
268	1	421		SBR	LOADXX&3,838	7		1421	H 796 838		19
269	1	428		SBR	CLEARL&3,GMWM	7		1428	H 710 W12		19
270	1	435		LCA	CONDEK,110	7		1435	L W11 110		20
271	1	442		B	LOADNX	4		1442	B 700		20
272			*								
273			* DATA								
274			*								
275	1	463	LOAD2	DCW	@L008693,689691,693@ TOPCOR IMOD MANTIS GMWM	18		1463			20
276	1	506	ERRORS	DCW	@CONDENSED DECK DEFERRED DUE TO INPUT ERRORS@	43		1506			22
277	1	534	LOAD	DCW	@L039000,040040,040040,040040@	28		1534			22
278	1	535		DC	@\$\$@	1		1535			22
279	1	536	KP9	DCW	&9	1		1536			22
280	1	537	KP1	DCW	&1	1		1537			22
281	1	538	R40	R	40	4		1538	1 040		22
282	1	569	LOAD1	DCW	@L014100,092097,081082,083084@	28		1569			23
283	1	583	KZ14	DCW	@00000000000000@	14		1583			24
284	1	584	BRANCH	B		1		1584	B		24
285	1	585	ERRCNT	DCW	#1 TAPE ERROR COUNT	1		1585			24
286	1	586	W1	DCW	#1	1		1586			24
287	1	587	MVIMOD	MCW	2,ARITI&6 INTEGER SIZE TO ARITHMETIC ROUTINE	7		1587	M 002 V36		24
288	1	596	WHERE	DSA	SETFP&6 WHERE TO PUT FP SIZE	3		1596	837		24
289	1	597	FUNCE	WR	QFUNCT&3 USED TO CREATE MCW 3,QFUNCT&3	4		1597	3 T30		24
290	1	603	SUBE	DSA	DOSUB&3	3		1603	S09		25
291	1	611	CONDEK	DCW	@CONDECK3@	8		1611			25
292	1	612	GMWM	DCW	@}@	1		1612		GMARK	25
293			EX		BEGINN				B 884		26
294			END						/ 000 080		

SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS
ARITI	1530	BEGINN	884	BRANCH	1584	CDOVLY	769	CHG2	1155	CLEARL	707	CLRBOT	833
CONDEK	1611	CONDNS	693	DONE	1405	DOSUB	1206	END2	1185	ENDECK	1295	ENDEKS	1306
ERRCNT	1585	ERRMSG	1166	ERRORS	1506	FUNCE	1597	GLOBER	184	GMWM	1612	GOTXL	185
IMOD	690	KP1	1537	KP9	1536	KZ14	1583	LOAD	1534	LOAD1	1569	LOAD2	1463
LOADNX	700	LOADXX	793	MANTIS	692	MVIMOD	1587	PUNCH	838	QFUNCT	1327	R1	920
R2	1074	R3	1241	R40	1538	RELTAB	188	RESET1	924	RESET2	1078	RESET3	1245
RT1	931	RT2	1085	RT3	1252	SETFP	831	SKIPX1	984	SNAPSH	333	SUBE	1603
SUBENT	191	SWICH1	1070	SWICH2	1098	TAPERR	1102	TAPERX	1127	TEST1	944	TEST2	1131
TEST3	1265	TPREAD	780	TSTCNT	1114	W1	1586	WHERE	1596				