

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD	A-ADDR	B-ADDR
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			IMOD	EQU	690 INTEGER MODULUS -- NUMBER OF DIGITS			0690					
116			MANTIS	EQU	692 FLOATING POINT MANTISSA DIGITS & 2			0692					
117			CONDNS	EQU	693 P FOR CONDENSED DECK			0693					
118			*										
119			EXT00		SNAPSH, LOADNX, CDOVLY, TPERR							MACRO	
120			SNAPSH	EQU	333			0333				GEN	
121			PHASLD	EQU	381			0381				GEN	
122			SNAPEX	EQU	564			0564				GEN	
123			LOADNX	EQU	700 CARD OVERLAY UNLESS NOP			0700				GEN	
124			CDOVLY	EQU	700 1 IF LOADING FROM CARDS, N IF FROM TAPE			0700				GEN	
125			TPREAD	EQU	704 LOAD OVERLAY FROM TAPE			0704				GEN	
126			TPERR	EQU	728			0728				GEN	
127			EXT03		START, TOP OF PHASE 3							MACRO	
128			BEGIN3	EQU	838			0838				GEN	
129			TOP3	EQU	2600			2600				GEN	
130			EXT57		STUFF IN PHASE 57							MACRO	
131			PUNCH	EQU	838			0838				GEN	
132			BEGN57	EQU	883 PUNCH CONDENSED DECK?			0883				GEN	
133			EXT59		STUFF IN PHASE 59ABC							MACRO	
134			FSIZE	EQU	831 STORE FLOAT SIZE			0831				GEN	
135			STSUB	EQU	1206			1206				GEN	
136			QFUNCX	EQU	1327 BRANCH TO FUNCTION SELECTION ROUTINE			1327				GEN	
137			XSIZE	EQU	1530 STORE FIX-SIZE			1530				GEN	
138			*										
139			PHAS58	LDPH	CONDECK2,LOADAD,BEGN58,,,58							MACRO	
			*	PHAZ	LDPH [PHASID],LOADAD,ENTAD[,SKIPFG,SKIP],[NUMBER][,HALT]							GEN	
			*	XFR	PHASZ PROHIBITED IN A MACRO							GEN	
			*									GEN	
			*	LOAD	A BLOCK							GEN	
			*									GEN	
140			)6J005	EQU	110 PHASE ID			0110				GEN	
141			)6K005	EQU	700 LOAD NEXT PHASE			0700				GEN	
142			)6L005	EQU	704 TAPE READ INSTRUCTION			0704				GEN	
143			)6M005	EQU	728 TAPE ERROR HANDLER			0728				GEN	
			*									GEN	
144			ORG		201				0201				

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD	A-ADDR	B-ADDR
195					* SETUP SECOND READER TO PUNCH								
196					*								
197	956			SBR	SWICH2&3,TEST2	7		0976	H |87 |88		7	1087	1088
198	977			A	KP1,W1	7		0983	A T86 U35		7	1386	1435
199	984		SKIPX1	BCE	*&5,CONDNS,P	8		0990	B |02 693 P		8	1002	693
200	992			B	R2	4		0998	B |80		8	1080	
201	996			BW	ERRMSG,GLOBER	8		1002	V /23 184 1		8	1123	184
202					*								
203					* CREATE A CARD TO SET ZEROES IN INDEX REGISTERS AND SENSE LIGHTS								
204					* PART OF ARITF DECK NOW								
205					*								
206	1	004		MCW	R40&3,171	7		1010	M T90 171		8	1390	171
207	1	011		MCW	LOAD1 TO SET INDEX REGISTERS AND SENSE LIGHTS	4		1017	M U18		8	1418	
208	1	015		CS		1		1021	/		8		
209	1	016		LCA	KZ14,114 ZEROES	7		1022	L U32 114		8	1432	114
210	1	023		MCW	BRANCH,SWICH1	7		1029	M U33 |76		9	1433	1076
211	1	030		B	PUNCH WHY BOTHER; IT'S IN ARITF DECK ???	4		1036	B 838		9	838	
212					*								
213					* LOAD TOPCOR, IMOD, MANTIS, GMWM								
214					*								
215	1	034		MCW	R40&3,171	7		1040	M T90 171		9	1390	171
216	1	041		MCW	LOAD	4		1047	M T83		9	1383	
217	1	045		CS		1		1051	/		9		
218	1	046		MCW	LOAD2,157 LOAD MANTIS, IMOD, TOPCOR FROM PHASE 0	7		1052	M T12 157		9	1312	157
219	1	053		SW	GMWM	4		1059	, U53		9	1453	
220	1	057		MCW	GMWM,108	7		1063	M U53 108		10	1453	108
221	1	064		MCW	MANTIS MANTIS FP SIZE	4		1070	M 692		10	692	
222	1	068		MCW	IMOD INTEGER SIZE	1		1074	M		10		
223	1	069		LCA	TOPCOR	1		1075	L		10		
224	1	070	SWICH1	NOF	PUNCH SOMETIMES BRANCH	4		1076	N 838		10	838	
225					*								
226					* COPY OR SKIP A DECK								
227					*								
228	1	074	R2	B	READCD	4		1080	B 883		10	883	
229	1	098	SWICH2	B	CHG2 SOMETIMES TEST2, SOMETIMES ENDEKS	4		1084	B /12		10	1112	
230	1	131	TEST2	BCE	END2,68,B	8		1088	B /46 068 B		11	1146	068
231	1	139		MCW	71,171	7		1096	M 071 171		11	071	171
232	1	146			CHAIN 5					MACRO			
233				MCW		1		1103	M	GEN	11		
234				MCW		1		1104	M	GEN	11		
235				MCW		1		1105	M	GEN	11		
236				MCW		1		1106	M	GEN	11		
237				MCW		1		1107	M	GEN	11		
238	1	151		B	SWICH1	4		1108	B |76		12	1076	
239	1	155	CHG2	SBR	SWICH2&3,TEST2 SKIP FIRST CARD, PUNCH THE REST	7		1112	H |87 |88		12	1087	1088
240	1	162		B	R2	4		1119	B |80		12	1080	
241					*								
242					* ERRORS PREVENT CONDENSED DECK								
243					*								
244	1	166	ERRMSG	CS	332	4		1123	/ 332		12	332	

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD	A-ADDR	B-ADDR
245	1	170		CS		1		1127	/		12		
246	1	171		MCW	ERRORS,243	7		1128	M T55 243		12	1355	243
247	1	178		W		1		1135	2		12		
248	1	179		CC	J	2		1136	F J		13		
249	1	181		B	R2	4		1138	B |80		13	1080	
250				*									
251				*	COPY ANOTHER DECK?								
252				*									
253			R3	B	SKIPDK	4		1142	B 908		13	908	
254	1	185	END2	A	KP1,W1	7		1146	A T86 U35		13	1386	1435
255	1	192		BCE	ENDECK,W1,3	8		1153	B /81 U35 3		13	1181	1435
256	1	200		BCE	R2,W1,2	8		1161	B |80 U35 2		13	1080	1435
257	1	208		BW	R3,GOTXL SKIP XLINKF IF WM	8		1169	V /42 185 1		14	1142	185
258	1	216		B	R2 GET XLINKF IF NO WM	4		1177	B |80		14	1080	
259				*									
260				*	FINISHED A DECK								
261				*									
262	1	295	ENDECK	SBR	SWICH2&3,ENDEKS	7		1181	H |87 /92		14	1087	1192
263	1	302		B	R2	4		1188	B |80		14	1080	
264	1	306	ENDEKS	BCE	DONE,SWICH1,N	8		1192	B S91 |76 N		14	1291	1076
265				*									
266				*	IMOD, MANTIS, RELTAB, SUBENT TO ARITF								
267				*									
268	1	314		CS	171	4		1200	/ 171		14	171	
269	1	318		SW	101	4		1204	, 101		14	101	
270	1	322		MCW	R40&3,171	7		1208	M T90 171		15	1390	171
271	1	329		MCW	LOAD	4		1215	M T83		15	1383	
272	1	333		MCW	MVIMOD&6,146 TO PUT IMOD INTO ARITF	7		1219	M U42 146		15	1442	146
273	1	340		MCW	IMOD,102	7		1226	M 690 102		15	690	102
274	1	347		B	PUNCH	4		1233	B 838		15	838	
275	1	351		MCW	WHERE,146 TO PUT MANTIS INTO ARITF	7		1237	M U45 146		15	1445	146
276	1	358		MCW	MANTIS,102	7		1244	M 692 102		16	692	102
277	1	365		B	PUNCH	4		1251	B 838		16	838	
278	1	369		MCW	FUNCE&3,146 MCW 3,QFUNC&3	7		1255	M U49 146		16	1449	146
279	1	376		MCW	RELTAB,103 RELOCATABLE FUNCTION TABLE ADDRESS	7		1262	M 188 103		16	188	103
280	1	383		B	PUNCH	4		1269	B 838		16	838	
281	1	387		MCW	SUBE,146	7		1273	M U52 146		16	1452	146
282	1	394		MCW	SUBENT,103	7		1280	M 191 103		17	191	103
283	1	401		B	PUNCH	4		1287	B 838		17	838	
284				*									
285	1	405	DONE	B	LOADNX	4		1291	B 700		17	700	
286				*									
287				*	DATA								
288				*									
289	1	463	LOAD2	DCW	@L008693,689691,693@ TOPCOR IMOD MANTIS GMWM	18		1312			17		
290	1	506	ERRORS	DCW	@CONDENSED DECK DEFERRED DUE TO INPUT ERRORS@	43		1355			19		
291	1	534	LOAD	DCW	@L039000,040040,040040,040040@	28		1383			19		
292	1	535		DC	@\$@	1		1384			19		
293	1	536	KP9	DCW	&9	1		1385			19		
294	1	537	KP1	DCW	&1	1		1386			19		

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD	A-ADDR	B-ADDR
295	1	538	R40	R	40	4		1387	1 040		19	040	
296	1	569	LOAD1	DCW	@L014100,092097,081082,083084@	28		1418			20		
297	1	583	KZ14	DCW	@0000000000000000@	14		1432			21		
298	1	584	BRANCH	B		1		1433	B		21		
299	1	585	ERRCNT	DCW	#1 TAPE ERROR COUNT	1		1434			21		
300	1	586	W1	DCW	#1	1		1435			21		
301	1	587	MVIMOD	MCW	2,XSIZE&6 INTEGER SIZE TO ARITHMETIC ROUTINE	7		1436	M 002 V36		21	002	1536
302	1	596	WHERE	DSA	FSIZE&6 WHERE TO PUT FP SIZE	3		1445	837		21	837	
303	1	597	FUNCE	WR	QFUNCX&3 USED TO CREATE MCW 3,QFUNCT&3	4		1446	3 T30		21	1330	
304	1	603	SUBE	DSA	STSUB&3	3		1452	S09		22	1209	
305	1	612	GMWM	DCW	@}@	1		1453		GMARK	22		
306	*		GMWM58	EQU	GMWM			1453					
307			*										
308			* CLEAR ME		MOVED TO BEGINNING OF PHASE 60								
309			XFR		BEGN58				B 928		23	928	

SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS
)0J005	0207: 0	)1J005	0250: 0	)6J005	0110: 0	)6K005	0700: 0	)6L005	0704: 0	)6M005	0728: 0
)8J005	0257: 0	)8K005	0273: 0	)9J005	0280: 0	)9R005	0284: 0	BEGIN3	0838: 0	BEGN57	0883: 0
BEGN58	0928: 0	BRANCH	1433: 0	CDOVLY	0700: 0	CHG2	1112: 0	CONDNS	0693: 0	DONE	1291: 0
END2	1146: 0	ENDECK	1181: 0	ENDEKS	1192: 0	ERRCNT	1434: 0	ERRMSG	1123: 0	ERRORS	1355: 0
FSIZE	0831: 0	FUNCE	1446: 0	GLOBER	0184: 0	GMWM	1453: 0	GMWM58	1453: 0	GOTXL	0185: 0
IMOD	0690: 0	KP1	1386: 0	KP9	1385: 0	KZ14	1432: 0	LOAD	1383: 0	LOAD1	1418: 0
LOAD2	1312: 0	LOADAD	0883: 0	LOADNX	0700: 0	MANTIS	0692: 0	MVIMOD	1436: 0	PHAS58	0201: 0
PHASLD	0381: 0	PUNCH	0838: 0	QFUNCX	1327: 0	R1	0972: 0	R2	1080: 0	R3	1142: 0
R40	1387: 0	READCD	0883: 0	READIT	0887: 0	READX	0904: 0	RELTAB	0188: 0	SKIPCD	0912: 0
SKIPDK	0908: 0	SKIPX	0916: 0	SKIPX1	0990: 0	SNAPEX	0564: 0	SNAPSH	0333: 0	STSUB	1206: 0
SUBE	1452: 0	SUBENT	0191: 0	SWICH1	1076: 0	SWICH2	1084: 0	TEST2	1088: 0	TOP3	2600: 0
TPERR	0728: 0	TPREAD	0704: 0	W1	1435: 0	WHERE	1445: 0	XSIZE	1530: 0		

UNREFERENCED SYMBOLS

BEGIN3 ERRCNT GMWM58 KP9 PHASLD R1 SNAPEX SNAPSH TOP3 TPREAD