

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD	A-ADDR	B-ADDR
101			JOB		FORTRAN COMPILER -- INPUT/OUTPUT ONE -- PHASE 32								
102			CTL		6611								
103			*										
104			*		THE LINKAGE TO THE OBJECT FORMAT ROUTINE FROM THE INPUT-OUTPUT								
105			*		STATEMENTS IS GENERATED IN-LINE.								
106			*										
107			*		ON ENTRY, X1 IS THE TOP OF STATEMENTS, AND X3 IS ONE BELOW								
108			*		THE LABEL TABLE AT THE TOP OF CORE.								
109			*										
110			X1	EQU	89			0089					
111			X2	EQU	94			0094					
112			X3	EQU	99			0099					
113			*										
114			*		STUFF IN THE RESIDENT AREA								
115			*										
116			BOTFMT	EQU	154			0154					
117			GLOBER	EQU	184			0184					
118			*										
119				EXT00	SNAPSH, LOADNX, CDOVLY					MACRO			
120			SNAPSH	EQU	333			0333		GEN			
121			PHASLD	EQU	381			0381		GEN			
122			SNAPEX	EQU	564			0564		GEN			
123			LOADNX	EQU	700			0700		GEN			
124			CDOVLY	EQU	700			0700		GEN			
125			TPREAD	EQU	704			0704		GEN			
126			TPERR	EQU	728			0728		GEN			
127			*										
128				EXT03	START, TOP OF PHASE 3					MACRO			
129			BEGIN3	EQU	838			0838		GEN			
130			TOP3	EQU	2600			2600		GEN			
131			*										
132			PHAS32	LDPH	I/O ONE,LOADAD,BEGN32,,,32					MACRO			
			*	PHAZ	LDPH [PHASID],LOADAD,ENTAD[,SKIPFG,SKIP],[NUMBER][,HALT]					GEN			
			*	XFR	PHASZ PROHIBITED IN A MACRO					GEN			
			*							GEN			
			*	LOAD	A BLOCK					GEN			
			*							GEN			
133			)6J003	EQU	110			0110		GEN			
134			)6K003	EQU	700			0700		GEN			
135			)6L003	EQU	704			0704		GEN			
136			)6M003	EQU	728			0728		GEN			
			*							GEN			
137			ORG		201				0201				
138			PHAS32	EQU	*&1			0201		GEN			
139			LCA	)9J003,	)6J003	7	0201	L 250 110		GEN	1	250	110
140			BCE	)6K003,	)6K003,1	8	0208	B 700 700 1		GEN	1	700	700
141			BCE	)6K003,	)6L003&4,0	8	0216	B 700 708 0		GEN	1	700	708
142			RTW	1,LOADAD		8	0224	L %U1 838 R		GEN	1	%U1	838
143			BER	)6M003		5	0232	B 728 L		GEN	1	728	
144			CS	BEGN32,	)9R003	7	0237	/ 838 254		GEN	2	838	254



SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD	A-ADDR	B-ADDR
195			*										
196	981		CLR2	MN	0&X1	4		0981	D 0 0		7	000+1	
197	985			SAR	X1	4		0985	Q 089		8	089	
198	989			BSS	SNAPSH,C	5		0989	B 333 C		8	333	
199	1 008			B	LOADNX	4		0994	B 700		8	700	
200			*										
201			*		INTERESTING STATEMENT -- ONE CONTAINING A FORMAT REFERENCE								
202			*										
203	1 012		INTRST	SW	CODADR-2	4		0998	, W33		8	1633	
204	1 016			MCW	KLESS,2&X1	7		1002	M W43 0 2		8	1643	002+1
205	1 023			SBR	CHECK&6,2&X1	7		1009	H T41 0 2		8	1341	002+1
206	1 030			C	0&X1 GET TO TOP	4		1016	C 0 0		8	000+1	
207	1 034			SAR	X1 OF STATEMENT BODY	4		1020	Q 089		9	089	
208	1 038			LCA	CODADR,0&X3 MOVE UP CODE AND ADDRESS	7		1024	L W35 0?0		9	1635	000+3
209	1 045			LCA	GM AND PUT A GMWM BELOW IT	4		1031	L W13		9	1613	
210	1 049			SBR	X3	4		1035	H 099		9	099	
211	1 053			CW	2&X3 UNDER STATEMENT CODE	4		1039	) 0?2		9	002+3	
212	1 057			BWZ	NOFMT,CODADR-1,B	8		1043	V U25 W34 B		9	1425	1634
213	1 065			BCE	RWTP,CODADR-3,1 READ TAPE	8		1051	B /02 W32 1		9	1102	1632
214	1 073			BCE	RWTP,CODADR-3,3 WRITE TAPE	8		1059	B /02 W32 3		10	1102	1632
215	1 081			BCE	RDPRPU,CODADR-3,L READ	8		1067	B V18 W32 L		10	1518	1632
216	1 089			BCE	RDPRPU,CODADR-3,P PRINT	8		1075	B V18 W32 P		10	1518	1632
217	1 097			BCE	RDPRPU,CODADR-3,U PUNCH	8		1083	B V18 W32 U		10	1518	1632
218	1 105			MCW	0&X1,FORMAT READ/WRITE INPUT/OUTPUT TAPE	7		1091	M 0 0 W30		10	000+1	1630
219	1 112			SAR	X1	4		1098	Q 089		11	089	
220	1 116		RWTP	MCW	0&X1,TAPVAR TAPE VARIABLE OR CONSTANT	7		1102	M 0 0 W24		11	000+1	1624
221	1 123			SAR	X1	4		1109	Q 089		11	089	
222	1 127			MCW	0&X1,IOLSTG I/O LIST AND GMWM	7		1113	M 0 0 W21		11	000+1	1621
223	1 134			BCE	CONST,IOLSTG-1,} TAPE NUMBER CONST WITH I/O LIST	8		1120	B T77 W20 } GMARK		11	1377	1620
224	1 142			BCE	CONST,TAPVAR-1,} TAPE NUMBER CONST, NO I/O LIST	8		1128	B T77 W23 } GMARK		11	1377	1623
225	1 150			MN	K1,TAPCON	7		1136	D W44 W87		12	1644	1687
226	1 157			BCE	VARNOL,IOLSTG,} TAPE NUMBER VAR, NO I/O LIST	8		1143	B U14 W21 } GMARK		12	1414	1621
227	1 165		RWTP2	MCW	0&X1,IOLIST	7		1151	M 0 0 W27		12	000+1	1627
228	1 172			SAR	X1	4		1158	Q 089		12	089	
229	1 176		RWTP3	LCA	IOLIST,0&X3	7		1162	L W27 0?0		12	1627	000+3
230	1 183			SBR	X3	4		1169	H 099		12	099	
231	1 187			LCA	FORMAT,0&X3	7		1173	L W30 0?0		13	1630	000+3
232	1 194			SBR	X3	4		1180	H 099		13	099	
233	1 198			LCA	TAPCON,0&X3	7		1184	L W87 0?0		13	1687	000+3
234	1 205			LCA	DOIO&3 LOAD BRANCH TO START I/O ROUTINE	4		1191	L W17		13	1617	
235	1 209			SBR	X3	4		1195	H 099		13	099	
236	1 213			BCE	GOTZON,CODADR-3,L READ	8		1199	B S68 W32 L		13	1268	1632
237	1 221			BCE	GOTZON,CODADR-3,P PRINT	8		1207	B S68 W32 P		14	1268	1632
238	1 229			BCE	GOTZON,CODADR-3,U PUNCH	8		1215	B S68 W32 U		14	1268	1632
239	1 237			BCE	GOTZON,CODADR-3,1 READ TAPE	8		1223	B S68 W32 1		14	1268	1632
240	1 245			MZ	AZONE,5&X3	7		1231	Y W45 0?5		14	1645	005+3
241	1 252			BCE	GOTZON,CODADR-3,3 WRITE TAPE	8		1238	B S68 W32 3		14	1268	1632
242	1 260			MZ	BZONE,5&X3	7		1246	Y W46 0?5		15	1646	005+3
243	1 267			BCE	GOTZON,CODADR-3,5 READ INPUT TAPE	8		1253	B S68 W32 5		15	1268	1632
244	1 275			MZ	ABZONE,5&X3	7		1261	Y W47 0?5		15	1647	005+3

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD	A-ADDR	B-ADDR
245	1	282	GOTZON	BW	NOVAR, FLAG	8		1268	V T09 X34 1		15	1309	1734
246	1	290		BWZ	NOVAR, TAPVAR-1, 2	8		1276	V T09 W23 2		15	1309	1623
247	1	298		MCW	TAPVAR, MN-3	7		1284	M W24 W09		16	1624	1609
248	1	305		MZ	KB1, MN-4 CLOBBER INTEGER ZONE TAG	7		1291	Y W88 W08		16	1688	1608
249	1	312		LCA	MN, 0&X3	7		1298	L W12 0?0		16	1612	000+3
250	1	319		SBR	X3	4		1305	H 099		16	099	
251	1	323	NOVAR	MCW	KB3, IOLSTG	7		1309	M W50 W21		16	1650	1621
252	1	330		LCA	GM, 0&X3	7		1316	L W13 0?0		16	1613	000+3
253	1	337		SBR	X3	4		1323	H 099		17	099	
254	1	341		C	0&X1	4		1327	C 0 0		17	000+1	
255	1	345		SAR	X1	4		1331	Q 089		17	089	
256	1	349	CHECK	BCE	LOOP, 0, < LESS SIGN MEANS CODE NOT CLOBBERED YET	8		1335	B 842 000 <		17	842	000
257				*									
258				*	PROGRAM TOO BIG								
259				*									
260	1	357		CS	332	4		1343	/ 332		17	332	
261	1	361		CS		1		1347	/		17		
262	1	362		CC	1	2		1348	F 1		17		
263	1	364		MCW	ERROR2, 270	7		1350	M W86 270		18	1686	270
264	1	371		W		1		1357	2		18		
265	1	372		CC	1	2		1358	F 1		18		
266	1	374		BCE	HALT, CDOVLY, 1	8		1360	B T73 700 1		18	1373	700
267	1	382		RWD	1	5		1368	U %U1 R		18	%U1	
268	1	387	HALT	H	HALT	4		1373	. T73		18	1373	
269				*									
270				*	TAPE NUMBER IS A CONSTANT								
271				*									
272	1	391	CONST	MN	TAPVAR, TAPCON	7		1377	D W24 W87		18	1624	1687
273	1	398		SW	FLAG	4		1384	, X34		19	1734	
274	1	402		BCE	CONST2, TAPVAR-1, }	8		1388	B U07 W23 } GMARK		19	1407	1623
275	1	410		SBR	X1, 2&X1	7		1396	H 089 0 2		19	089	002+1
276	1	417		B	RWTP2	4		1403	B /51		19	1151	
277	1	421	CONST2	SBR	X1, 1&X1	7		1407	H 089 0 1		19	089	001+1
278				*									
279				*	TAPE IS VARIABLE, BUT THERE IS NO LIST								
280				*									
281	1	428	VARNOL	MCW	BOTFMT, IOLIST	7		1414	M 154 W27		19	154	1627
282	1	435		B	RWTP3	4		1421	B /62		20	1162	
283				*									
284				*	NO FORMAT								
285				*									
286	1	439	NOFMT	MZ	KB1, 3&X3	7		1425	Y W88 0?3		20	1688	003+3
287	1	446		MCW	4&X3, SEQNO	7		1432	M 0?4 W91		20	004+3	1691
288	1	453		BWZ	*&5, SEQNO, 2	8		1439	V U51 W91 2		20	1451	1691
289	1	461		B	*&9	4		1447	B U59		20	1459	
290	1	465		BWZ	NOFMTM, SEQNO-2, 2	8		1451	V U73 W89 2		20	1473	1689
291	1	473		MCW	SEQNO, *&4	7		1459	M W91 U69		21	1691	1469
292	1	480		MCW	0, SEQNO	7		1466	M 000 W91		21	000	1691
293	1	487	NOFMTM	CS	332	4		1473	/ 332		21	332	
294	1	491		CS		1		1477	/		21		

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD	A-ADDR	B-ADDR
295	1	492		SW	GLOBER	4		1478	, 184		21	184	
296	1	496		MN	SEQNO,242	7		1482	D W91 242		21	1691	242
297	1	503		MN		1		1489	D		21		
298	1	504		MN		1		1490	D		22		
299	1	505		MCW	ERR22	4		1491	M X30		22	1730	
300	1	509		W		1		1495	2		22		
301	1	510		BCV	* &5	5		1496	B V05 @		22	1505	
302	1	515		B	* &3	4		1501	B V07		22	1507	
303	1	519		CC	1	2		1505	F 1		22		
304	1	521		MZ	*-4,CODADR-1	7		1507	Y V09 W34		22	1509	1634
305	1	528		B	RWTP	4		1514	B /02		23	1102	
306				*									
307				*	READ, PRINT, PUNCH								
308				*									
309	1	532	RDPRPU	MCW	0&X1,FORMAT	7		1518	M 0 0 W30		23	000+1	1630
310	1	539		SAR	X1	4		1525	Q 089		23	089	
311	1	543		MCW	BOTFMT,IOLIST	7		1529	M 154 W27		23	154	1627
312	1	550		BCE	RDPRP2,0&X1,}	8		1536	B V55 0 0 } GMARK		23	1555	000+1
313	1	558		MCW	0&X1,IOLIST	7		1544	M 0 0 W27		23	000+1	1627
314	1	565		SAR	X1	4		1551	Q 089		24	089	
315	1	569	RDPRP2	MCW	RDUNIT,TAPCON ASSUME READ	7		1555	M X31 W87		24	1731	1687
316	1	576		BCE	RDPRP3,CODADR-3,L READ	8		1562	B V92 W32 L		24	1592	1632
317	1	584		MCW	PUUNIT,TAPCON ASSUME PUNCH	7		1570	M X32 W87		24	1732	1687
318	1	591		BCE	RDPRP3,CODADR-3,U PUNCH	8		1577	B V92 W32 U		24	1592	1632
319	1	599		MCW	PRUNIT,TAPCON	7		1585	M X33 W87		25	1733	1687
320	1	606	RDPRP3	SW	FLAG	4		1592	, X34		25	1734	
321	1	610		B	RWTP3	4		1596	B /62		25	1162	
322				*									
323				*	DATA								
324				*									
325	1	616	K999X3	DSA	999	3		1602	999		25	999	
326	1	619	K999X1	DSA	999	3		1605	999		25	999	
327	1	626	MN	DCW	@DXXX0?5@	7		1612			25		
328	1	627	GM	DC	@}@	1		1613		GMARK	25		
329	1	628	DOIO	B	1697 ENTRY FOR I/O ROUTINE	4		1614	B W97		25	1697	
330	1	635	IOLSTG	DCW	#4	4		1621			26		
331	1	638	TAPVAR	DCW	#3 TAPE VARIABLE OR CONSTANT	3		1624			26		
332	1	641	IOLIST	DCW	000	3		1627			26		
333	1	644	FORMAT	DCW	000	3		1630			26		
334	1	649	CODADR	DCW	#5 GM, STATEMENT CODE, ADDRESS	5		1635			26		
335	1	656	STMTS	DCW	@1356LPU@ CODES FOR STATEMENTS WITH FORMATS	7		1642			26		
336	1	666	KLESS	DCW	@<@	1		1643			26		
337	1	667	K1	DCW	1	1		1644			27		
338	1	668	AZONE	DCW	@S@	1		1645			27		
339	1	669	BZONE	DCW	@K@	1		1646			27		
340	1	670	ABZONE	DCW	@B@	1		1647			27		
341	1	673	KB3	DCW	#3	3		1650			27		
342	1	709	ERROR2	DCW	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@	36		1686			28		
343	1	710	TAPCON	DCW	#1 TAPE NUMBER CONSTANT	1		1687			28		
344	1	711	KB1	DCW	#1	1		1688			28		

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD	A-ADDR	B-ADDR
345	1	714	SEQNO	DCW	#3		3	1691				29	
346	1	753	ERR22	DCW	@ERROR 22 - UNDEFINED FORMAT, STATEMENT @		39	1730				30	
347	1	754	RDUNIT	DCW	@&@ READ UNIT		1	1731				31	
348	1	755	PUUNIT	DCW	@-@ PUNCH UNIT		1	1732				31	
349	1	756	PRUNIT	DCW	@*@ PRINT UNIT		1	1733				31	
350	1	757	FLAG	DCW	#1		1	1734				31	
351	1	758	GMWM	DCW	@}@		1	1735				31	
352			XFR		BEGN32				B 838			31	838
353			CLRME	CLRA	BEGN32,GMWM					MACRO			
				CLRA	CLRBOT,CLRTOP[,ORG,GMWMAD]					GEN			
			*							GEN			
			*							GEN			
			*	CLEAR CORE	AFTER A PHASE USING THE CLRTOP ADDRESS					GEN			
			*							GEN			
354			ORG		201				0201				
			*							GEN			
			*	CLEAR DOWN	TO CLRBOT & X00 THE EASY WAY					GEN			
			*							GEN			
355			CLRME	EQU	*&1			0201					
356			)0J004	CS	GMWM CLEAR FROM CLRTOP		4	0201	/ X35			32	1735
357				SBR	)0J004&3		4	0205	H 204			32	204
358				SBR	)0L004&6		4	0209	H 250			32	250
359				C	)0J004&3,)0M004 DOWN TO CLRBOT & X00?		7	0213	C 204 261			32	204 261
360				BU	)0J004		5	0220	B 201 /			32	201
			*							GEN			
			*	NOW CLEAR DOWN	TO CLRBOT THE HARD WAY					GEN			
			*							GEN			
361			)0K004	C	)0L004&6,)0N004		7	0225	C 250 264			32	250 264
362				BU	)0L004		5	0232	B 244 /			32	244
363				CS	LOADNX,)0Q004 LOAD THE NEXT BLOCK AT 1		7	0237	/ 700 271			33	700 271
364			)0L004	LCA	)0P004,0-0 CLEAR WITH BLANK AND WORD MARK		7	0244	L 265 000			33	265 000
365				SBR	)0L004&6		4	0251	H 250			33	250
366				B	)0K004		4	0255	B 225			33	225
367			)0M004	DSA	)0R004 CLRBOT & X00 - 1		3	0261	899			33	899
368			)0N004	DSA	BEGN32 CLRBOT		3	0264	838			33	838
369			)0P004	DCW	#1		1	0265				33	
370				DC	@CLRA @ IDENTIFY IN A DECK, TAPE, OR DUMP		5	0270				33	
371			)0Q004	DCW	@}@		1	0271				34	
372				ORG	BEGN32&X00				0900				
373			)0R004	EQU	* CLRBOT & X00 - 1			0899					
374				XFR	CLRME				B 201			34	201

SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS
)0J004	0201: 0	)0K004	0225: 0	)0L004	0244: 0	)0M004	0261: 0	)0N004	0264: 0	)0P004	0265: 0
)0Q004	0271: 0	)0R004	0899: 0	)6J003	0110: 0	)6K003	0700: 0	)6L003	0704: 0	)6M003	0728: 0
)9J003	0250: 0	)9R003	0254: 0	ABZONE	1647: 0	AZONE	1645: 0	BEGIN3	0838: 0	BEGN32	0838: 0
BOTFMT	0154: 0	BZONE	1646: 0	CDOVLY	0700: 0	CHECK	1335: 0	CLRL	0923: 0	CLRL2	0950: 0
CLRME	0201: 0	CLRX	0943: 0	CLRX2	0981: 0	CODADR	1635: 0	CONST	1377: 0	CONST2	1407: 0
DOIO	1614: 0	ERR22	1730: 0	ERROR2	1686: 0	FLAG	1734: 0	FORMAT	1630: 0	GLOBER	0184: 0
GM	1613: 0	GMWM	1735: 0	GOTZON	1268: 0	HALT	1373: 0	INTRST	0998: 0	IOLIST	1627: 0
IOLSTG	1621: 0	K1	1644: 0	K999X1	1605: 0	K999X3	1602: 0	KB1	1688: 0	KB3	1650: 0
KLESS	1643: 0	LOADAD	0838: 0	LOADNX	0700: 0	LOOP	0842: 0	MN	1612: 0	NOFMT	1425: 0
NOFMTM	1473: 0	NOVAR	1309: 0	OTHER	0886: 0	PHAS32	0201: 0	PHASLD	0381: 0	PRUNIT	1733: 0
PUUNIT	1732: 0	RDPRP2	1555: 0	RDPRP3	1592: 0	RDPRPU	1518: 0	RDUNIT	1731: 0	RWTP	1102: 0
RWTP2	1151: 0	RWTP3	1162: 0	SEQNO	1691: 0	SNAPEX	0564: 0	SNAPSH	0333: 0	STMTS	1642: 0
TAPCON	1687: 0	TAPVAR	1624: 0	TOP3	2600: 0	TPERR	0728: 0	TPREAD	0704: 0	VARNOL	1414: 0
X1	0089: 0	X2	0094: 0	X3	0099: 0						

## UNREFERENCED SYMBOLS

PHASLD SNAPEX TOP3 TPERR TPREAD