147 1 037

SBR LOADXX&3,845

7 1037 H 796 845

				FORTRAN COMPILER TAMROF PHASE TWO 24			PAG	E 2
SEQ	PG LIN	LABEL	OP	OPERANDS	SFX CT	LOCN	INSTRUCTION TYPE	CARD
148	1 044		SBR	CLEARL&3,GMWM	7	1044	H 710 N99	5
149			LCA	LISTR1,PHASID	7		L M14 110	6
150	1 058		В	LOADNX	4		в 700	6
151		*						
152		* FORM	AT STA	TEMENT				
153		*						
154	1 062	FORMAT	C	0&X1 GET DOWN TO BODY	4	1062	C 0 0	6
155	1 066		SAR	X1	4	1066	Q 089	6
	1 070		SBR	SX1&6	4	1070		6
157	1 074		MCW	4&X1,FMTLAB	7	1074	M 0 4 M17	6
158	1 081		SW	FLAG1	4	1081	, M18	6
159	1 085		CW	FLAG2	4	1085) M19	7
	1 089		ZA	KP1,W3	7	1089	? M20 M26	7
	1 096		BCE	SYNTAX,0&X1,)	8	1096	B S58 0 0)	7
	1 104		MCW	X2,SX2B	7		M 094 M23	7
	1 111		В	CONT	4	1111	B V10	7
		SX1	SBR	X1,0	7	1115	н 089 000	7
165	1 122	LOOP	ZA	KP1,W3	7	1122	? M20 M26	8
166	1 129	CODEOK		RPAR, 0&X1,)	8	1129	B V41 0 0)	8
	1 137		SBR	SX1&6	4	1137	н /21	8
	1 141		BCE	LPAR,0&X1,%	8		B U98 0 0 %	8
	1 149		BCE	IFEA,0&X1,I	8	1149	!	8
	1 157		BCE	IFEA,0&X1,F	8	1157	l l	9
	1 165		BCE	IFEA,0&X1,E	8		B W64 0 0 E	9
	1 173		BCE	IFEA,0&X1,A	8	1173	B W64 0 0 A	9
173	1 181		BCE	SIGN, 0&X1,&	8	1181	B U24 0 0 &	9
	1 189		BCE	SIGN, 0&X1, -	8	1189		10
175	1 197		BCE	SLASH,0&X1,@	8	1197	B W36 0 0 @	10
176	1 205		C	0&X1,KZ	7		C 0 0 M27	10
177	1 212		BL	NUMBER	5	1212	B Z04 T	10
178	1 217		BL	CHKCOD	5	1217	B Z98 T	10
179	1 222		BW	SYNTAX,FLAG1 NOT PRECEDED BY A NUMBER?	8	1222	V S58 M18 1	11
180	1 230		BCE	HOLRIT, 0 & X1, H NUMBER, THE HOLLERITH	8	1230	в т06 0 0 н	11
181	1 238		SBR	X1	4	1238	н 089	11
182	1 242		BCE	XFLD,1&X1,X	8	1242	B S81 0 1 X	11
183	1 250		BCE	PFLD,1&X1,P	8	1250	B U79 0 1 P	11
184	1 258	SYNTAX	В	MSG	4	1258	в 880	12
185	1 262		MCW	ERR15,223	7	1262	M M45 223	12
186	1 269	WMSG	W		1	1269	2	12
187	1 270		MZ	ABZONE, SEQCOD	7	1270	Y M46 879	12
188	1 277		В	ENDFMT	4	1277	B !42	12
189		*						
190		* X FO	RMAT C	CONTROL. EMIT SBR X3, NUMBER&X3				
191		*						
192	1 281	XFLD	SW	8&X2	4		, 0!8	12
	1 285		SBR	X2	4		н 094	12
	1 289		LCA	BUMPX3	4		L L83	13
195	1 293		MN	W3,0&X2	7		D M26 0!0	13
	1 300		MN		1	1300	D	13
197	1 301		MN		1	1301	D	13

					FORTRAN	COMPILER TAMROF PHASE TWO 24				PAGE	3
SEQ	PG	LIN	LABEL	OP	OPERANDS		SFX CT	LOCN	INSTRUCTION T	YPE	CARD
198		302		В	ENDFLD		4	1302	в ¥35		13
199			*								
200			* HOLL	ERITH							
201	1	200	* HOLRIT	OT/	5&X2		4	1200	0.15		13
202			HOLKII	CW	5&XZ			1310	, 0!5		13
203				SBR	X2				н 094		14
205				LCA		X2 EMIT CALL TO DO HOLLERITH ROUTINE			L L76 0!1		14
206				S	KP1,W3	ne and dime to be noted and notified			S M20 M26		14
207				BM	SYNTAX,W	3			V S58 M26 K		14
208	1	337		MN	0&X1		4	1337	D 0 0		14
209	1	341		SAR	X1		4	1341	Q 089		14
			MOVEH	MN	0&X1,2&X	2 MOVE	7		D 0 0 0 ! 2		15
211				SBR	X2	CHARACTERS	4		н 094		15
212				MZ	0&X1,1&X	2 OF HOLLERITH	7		Y 0 0 0!1		15
213				SAR	X1 SX1&6 2&X2	FIELD WHILE	4		Q 089		15
214				SBR	SX1&6	REVERSING	4		H /21		15
215 216				CW	2&X2 KP1,W3	2 MOVE CHARACTERS 2 OF HOLLERITH FIELD WHILE REVERSING TO CORRECT ORDER &X1,} ,B	4 7) 0!2 S M20 M26		15 15
217				S BCE	SHORTH, 0	ORDER	8		B U09 0 0 3 G	млог	
218				BWZ	MOVEH, W3	R R	8		V T45 M26 B	MAKK	16
			HOLFIN		X2,1&X2	, 5	7		Н 094 0!1		16
220			11021 111	В	ENDFLD				B Y35		16
221			*								
222			* STAT	EMENT	ENDS BEFO	RE HOLLERITH ENDS					
223			*								
			SHORTH		MSG				в 880		16
225				MCW		1			м м66 231		16
226		420	*	W	HOLFIN		4	1420	2 T98		17
227 228				OD MT	MIIG GEGN	DEEODE NUMBER RECORE D CODE					
228			* PLUS	OR MI	NUS SIGN	BEFORE NUMBER BEFORE P CODE					
		424	SIGN	MZ	0&X1.W3	MOVE SIGN TO WHERE THE NUMBER WILL BE	7	1424	Y 0 0 M26		17
231			51011	SAR	X1	NOVE STON TO WHERE THE NOTED IN WILL BE			0 089		17
232				В	NUMBER				B Z04		17
233	1	439		C	X3,K20		7	1439	C 099 M69		17
234	1	446		BL	SYNTAX	SCALE FACTOR TOO BIG?	5	1446	B S58 T		17
235	1	451		MN	X3,W3		7	1451	D 099 M26		17
236				MN			1	1458			18
237				C	0&X1,KP		7		C 0 0 M70		18
238				SAR	SX1&6		4	1466			18
239				SBR	X1		4		н 089		18
240			PFLD	BU SBR	SYNTAX X2,7&X2	ERROR IF NOT P FIELD	5 7		B S58 / H 094 0!7		18 18
241			PFLD	LCA		EMIT SCALE FACTOR	4		L M26		18
243				LCA	DOP&3	EMIT CALL TO P ROUTINE	4		L M07		19
244				В	ENDFLD	ERROR IF NOT P FIELD EMIT SCALE FACTOR EMIT CALL TO P ROUTINE	4		B Y35		19
245			*	_			-		_ 100		
246			* LEFT	PAREN	THESIS						
247			*								

		FORTRAN C	OMPILER TAMROF PHASE TWO 24			PAGE	4
SEQ PG LIN	LABEL C	OP OPERANDS		SFX CT	LOCN	INSTRUCTION TYPE	CARD
248 1 498 249 1 506 250 1 510 251 1 514 252 1 518 253 1 522 254 1 529 255 1 533 256 1 537 257	CONT S S C I I S E	BW DEEP, FLAG SW FLAG2 SW 8&X2 SBR X2 CW FLAG3 LCA W3,0&X2 LCA DOLP&3 SW FLAG1 B SX1	2	4 4 4 7 4	1506 1510 1514 1518 1522 1529 1533	V V69 M19 1 , M19 , 0!8 H 094) N50 L M26 0!0 L L87 , M18 B /15	19 19 19 19 20 20 20
258 259	* RIGHT *	PARENTHESIS					
260 1 541 261 1 545 262 1 549 263 1 553 264 1 561 265 1 569 266 1 573 267 1 580	S S S E E E E E E E E E E E E E E E E E	MN 0&X1 SAR SX1&6 SBR *&7 BCE SAWGM,0,) BW RPOK,FLAG B MSG MCW ERR16,228 B WMSG	2 SEEN A RIGHT PARENTHESIS?	4 4 8 8 4 7	1545 1549 1553 1561 1569	D 0 0 0 Q /21 H V59 B W12 000 } GMARK V V84 M19 1 B 880 M M92 228 B S69	20 20 20 21 21 21 21 21
268 269	RPOK C S S I M	CW FLAG2 SW 5&X2 SBR X2 LCA DORP&3 MN 0&X1 SAR X1 B ENDFLD		4 4 4 4	1588 1592 1596 1600 1604) M19 , 0:5 H 094 L L91 D 0 0 Q 089 B Y35	21 21 22 22 22 22 22 22
277	* SAW GM	M AFTER RIGHT F	ARENTHESIS				
280	SAWGM C	SBR X2 LCA DOGM&3 BW DEEP,FLAG B ENDFMT	WAS CONVERTED TO @ IN PHASE 2	4 4 8	1616 1620 1624) 0!5 H 094 L M03 V V69 M19 1 B !42	22 22 23 23 23
286 287	E S S I E	B SYNTAX SW 5&X2 SBR X2	NO NUMBER? ERROR IF NUMBER EMIT CALL TO SLASH ROUTINE	4 4 4 4	1644 1648 1652 1656	V W48 M18 1 B S58 , 0!5 H 094 L L95 B /15	23 23 23 23 24 24
296 1 664 297 1 668	IFEA S	SW 5&X2 LCA DOIFEA&3				, 0!5 L L99	24 24

					FORTRAN COMPILER TAMROF PHASE TWO 24			PAGI	E 5
SEQ	PG I	LIN	LABEL	OP	OPERANDS	SFX CT	LOCN	INSTRUCTION TYPE	CARD
298	1 6	672		LCA	W3,8&X2	7	1672	L M26 0!8	24
299				MCW	0&X1	4	1679		24
300	1 6	683		SAR	X1	4	1683	Q 089	24
301	1 6	687		В	NUMBER	4	1687	B Z04	25
302	1 6	691		ZA	X3,W3B	7	1691	? 099 M95	25
303	1 6	698		SW	IFEAT&4	4	1698	, Y12	25
304	1 '	702		BCE	FFLD,5&X2,F	8	1702	B X33 0!5 F	25
305	1 '	710		BCE	IAFLD,5&X2,I	8	1710	B X72 0!5 I	25
306	1 '	718		BCE	IAFLD,5&X2,A	8	1718	B X72 0!5 A	25
307				S	KP4,W3B EW.D FIELD, SUBTRACT FOUR FROM W FOR EXP	7		S M96 M95	26
308			FFLD	CW	IFEAT&4 FW.D FIELD	4	1733) Y12	26
309				C	0&X1,KDOT	7		C 0 0 M97	26
310				SAR	X1	4	1744		26
311				BU	SYNTAX NUMBER NOT FOLLOWED BY DOT	5		B S58 /	26
312				В	NUMBER	4		B Z04	26
313				S	X3,W3B SUBTRACT D FROM W	7	1757		26
314				BM	ETEST, W3B V3M4	8	1764	V N51 M95 K	27
315			IAFLD		FFLD2,5&X2,F I OR A FIELD	8		B X87 0!5 F	27
316			EET DO	A	KP4, X3	7		A M96 099	27
317 318			FFLD2	MZ	X2,11&X2 *-4,W3B	7 7	1787	H 094 0J1 Y X96 M95	27 27
319				MZ LCA	•	7		1 A96 M95 L M95 0!0	28
320			IFEAT		W3B,0&X2 TSTWID,IFEAT,C	8		B Y27 Y08 C	28
321			IFEAI	SBR	X2,3&X2	7		H 094 0!3	28
322				LCA	X3	4		L 099	28
		827	TSTWID		SYNTAX, W3B	8		V S58 M95 K	28
324		02,	*	Dii	OINIIM, NOB	O	1027	V 550 1155 IC	20
325			* END	OF FIE	ľĎ				
326			*	01 111					
327	1 8	835	ENDFLD	SW	FLAG1 SET NO NUMBER FLAG	4	1835	, M18	28
328	1 8	839	SKPCOM	C	0&X1,COMMA	7	1839		29
329	1 8	846		SAR	SX1&6	4	1846	Q /21	29
330	1 8	850		SBR	X1	4	1850	н 089	29
331	1 8	854		BE	SKPCOM SKIP COMMAS	5	1854	B Y39 S	29
332	1 8	859		SBR	X1,1&X1	7		н 089 0 1	29
333	1 8	866		В	LOOP	4	1866	B /22	29
334			*						
335				D FOR	F FIELD, OR W+4 GT D FOR E FIELD				
336			*						
			WBIG	A	X3, W3B	7		A 099 M95	29
338	1 8			A	K4,W3B	7		A M99 M95	30
339				MN	W3B,X3	7		D M95 099	30
340				MN			1891		30
341 342				MN MCW	KZ3,W3B	7	1892	м NO2 M95	30 30
343				В	FFLD2			B X87	30
344	Τ.	J U U	*	D	FFEDE	+	1900	ו מע ת	30
345				ART.V A	DIGIT. MAKE SURE. THEN PUT INTO X3.				
346			*	^	DIGIT. IMAL DOND. IMBN 101 INTO MJ.				
	1 (904	NUMBER	SBR	NUMBRX&3	4	1904	н 297	30
		-		•		_			

FORTRAN	COMPILER	 TAMROF	PHASE	TWO	 2.4	

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	SEQ	PG LIN	LABEL	OP	OPERANDS	SFX CT	LOCN	INSTRUCTION	TYPE	CARD
	398	2 121		CW	1&X2	4	2121) 0!1		37
	399	2 125		BW	ENDER2, FLAG3	8		V K48 N50 1		37
	400	2 133		BCE	ENDER2, *&6, WAS X2 ORIGINALLY BLANK?	8		в к48 Ј46		37
	401	2 141	SX2	SBR	X2,0	7		н 094 000		38
	402	2 148		CW	FLAG4	4	2148) N18		38
	403	2 152		SBR	SX3B&6,1&X3	7	2152	H L46 0?1		38
	404	2 159	ENDER4	MN	0&X2	4	2159	D 0!0		38
	405	2 163		MN		1	2163	D		38
	406	2 164		MN		1	2164	D		38
	407	2 165		SAR	X3	4	2165	Q 099		38
	408	2 169		MN	0&X3,*&15	7	2169			39
	409	2 176		MZ	0&X3,*&8	7		Y 0?0 J90		39
	410	2 183		BCE	IOSTMT, IOCODE, X	8	2183	B K97 N23 X		39
		2 191		CHAIN	4				MACRO	
	412			BCE		1		В	GEN	39
	413			BCE		1	2192		GEN	39
	414			BCE		1	2193		GEN	39
	415			BCE		1	2194		GEN	39
		2 195		BW	ENDER5, FLAG4	8		V K19 N18 1		40
	417	2 203		В	MSG	4	2203	В 880		40
	418	2 207		MCW	ERR17,232	7	2207 2214	M N49 232 2		40 40
	419 420	2 214		W	ENDED C	1	2214			40
	421	2 215	EMDEDE	В	ENDER6	4 7		в K75 м 875 099		40
	422	2 219 2 226	ENDER5	BWZ	SX3,X3	8	2219	V K75 879 B		40
	423		ENDER3		ENDER6, SEQCOD, B X3,83	7		M 099 083		41
	424	2 241	ENDERS	MCW	SEMIC,0&X3	7	2234			41
	425	2 248	ENDER2		0&X1	4	2248	C 0 0		41
	426	2 252	BINDBICE	SAR	X1	4	2252	Q 089		41
	427	2 252		В	NEXT	4	2256	В 995		41
	428	2 250	*	_		-	2230	2 ,,,,		
	429	2 260	ENDERR	MCW	X2,X3	7	2260	м 094 099		41
	430	2 267		SW	FLAG3	4	2267	, N50		41
	431	2 271		В	ENDFM2	4	2271	B !69		42
	432	2 275	ENDER6	MCW	83,X3	7	2275	M 083 099		42
	433	2 282		LCA	KDOT, 0&X3	7	2282	L M97 0?0		42
	434	2 289		SBR	X3	4	2289	н 099		42
	435	2 293		В	ENDER3	4	2293	B K34		42
	436		*							
	437	2 297	IOSTMT	C	0&X3	4	2297	C 030		42
	438	2 301		SAR	X2	4	2301	Q 094		42
	439	2 305		BWZ	*&5,2&X3,B	8		V L17 0?2 B		43
	440	2 313		В	IOSTME	4		B L61		43
	441	2 317		C	0&X2,FMTLAB	7	2317			43
		2 324		BU	IOSTME	5		B L61 /		43
	443	2 329		SW	FLAG4	4	2329	, N18		43
		2 333	anan	MA	NEGARY, SX3B&6	7	2333	# 163 L46		43
	445	2 340	SX3B	SBR	0&X2,0	7		Н 0!0 000		44
	446	2 347		MZ	KB1, 2&X3	7	2347	Y M08 0?2		44
	447	2 354		MA	ARYSIZ,SX3B&6	7	2354	# 160 L46		44

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SEQ	PG LIN	LABEL	OP	OPERANDS			SFX CT	LOCN	INSTRUCTION T	TYPE	CARD
448	2 361	IOSTME	C	0&X2			4	2361	C 0!0		44
449	2 365	TODITIE	SAR	X2			4	2365			44
450	2 369		В	ENDER4					в J59		44
451		*									
452		* VECT	ORS TO	FORMAT CON	VERSION ROUTINES						
453		*									
454	2 373	DOH	В	2328	DO HOLLERITH		4		B L28		44
455	2 383	BUMPX3			BUMPS X3, FOR X FORMAT		7				45
456	2 384	DOLP	В	2152	DO LEFT PARENTHESIS		4		В J52		45
457	2 388	DORP	В	2185	DO RIGHT PARENTHESIS		4	2388	в J85		45
458	2 392	DOSLSH		2208	DO / NEWLINE		4	2392	в ков		45
459	2 396	DOIFEA		2385	I, F, E OR A FIELD		4		B L85		45
460	2 400	DOGM	B B	2223	DO GM END OF FORMAT		4	2400	B K23		45
461 462	2 404	DOP *	В	2310	DO P SCALE FACTOR		4	2404	B L10		45
463		* DATA									
464		*									
465	2 408	KB1	DCW	#1			1	2408			46
466	2 414	LISTR1		@LISTR1@				2414			46
467	2 417	FMTLAB		#3				2417			46
468	2 418	FLAG1	DCW	#1 CLEARE	D WHEN A NUMBER IS PROCESSED		1	2418			46
469	2 419	FLAG2	DCW	#1 SET WH	EN LEFT PARENTHESIS IS PROCES	SED	1	2419			46
470	2 420	KP1	DCW	&1			1	2420			46
471	2 423	SX2B	DCW	#3			3	2423			46
472	2 426	W3	DCW	#3			3	2426			47
473		KZ	DCW	@Z@				2427			47
474		ERR15		@15 - FORM	AT SYNTAX@		18	2445			47
475	2 446	ABZONE		@A@				2446			47
476		ERR45			ERITH COUNT@			2466			48
477	2 469	K20	DCW	020			3	2469			48
478 479	2 470 2 492	KP ERR16	DCW	@P@	NTHESIS ERROR@			2470 2492			48 49
480	2 492	W3B	DCW	#3	NIHESIS ERROR®			2492			49
481	2 496	KP4	DCW	#3 &4				2496			49
482	2 497	KDOT	DCW	@.@				2497			49
483	2 498	COMMA		@,@			1	2498			49
484	2 499	K4	DCW	4			1	2499			49
485	2 502	KZ3	DCW	000			3	2502			49
486	2 503	K0	DCW	0			1	2503			50
487	2 506	K133	DCW	133			3	2506			50
488	2 509	K134	DCW	134				2509			50
489	2 517	FMTCOD		@PAXHIFE%@				2517			50
490	2 518	FLAG4		#1				2518			50
491		IOCODE			TMT CODE FOR FORMATTED I/O ST	MT		2523			50
492	2 549	ERR17			LY DEFINED FORMAT@			2549			51
493 494	2 550	FLAG3 *	DCM	#1 SET IF	ERRUK		1	2550			51
494		* PATC	H TN W	3M4							
496		*		J. 1 I							
	2 551		BCE	WBIG,5&X2,	Е	V3	3M4 8	2551	B Y70 0!5 E		51

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SEQ PG LIN LABEL OP	OPERANDS	SFX CT	LOCN	INSTRUCTION	TYPE	CARD
498 2 559 BIN 499 ORG 500 2 599 GMWM DCW 501 EX 502 END	2599 @}@ BEGINN	V3M4 5 V3M4 1	2559 2599	B S58 2599 B 980 / 000 080	GMARK	52 53 54

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FORTRAN COMPILER -- TAMROF PHASE TWO -- 24

SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS								
ABZONE	2446	ARYSIZ	160	BEGINN	980	BUMPX3	2383	CHKCOD	1998	CLEARL	707	CLRBOT	833
CODEOK	1129	COMMA	2498	CONT	1510	DEEP	1569	DOGM	2400	DOH	2373	DOIFEA	2396
DOLP	2384	DONE	1021	DOP	2404	DORP	2388	DOSLSH	2392	ENDER 2	2248	ENDER3	2234
ENDER4	2159	ENDER5	2219	ENDER6	2275	ENDERR	2260	ENDFLD	1835	ENDFM2	2069	ENDFMT	2042
ERR15	2445	ERR16	2492	ERR17	2549	ERR45	2466	ETEST	2551	FFLD	1733	FFLD2	1787
FLAG1	2418	FLAG2	2419	FLAG3	2550	FLAG4	2518	FMTCOD	2517	FMTLAB	2417	FORMAT	1062
GMWM	2599	HOLFIN	1398	HOLRIT	1306	IAFLD	1772	IFEA	1664	IFEAT	1808	IOCODE	2523
IOSTME	2361	IOSTMT	2297	K0	2503	K133	2506	K134	2509	K20	2469	K4	2499
KB1	2408	KDOT	2497	KP	2470	KP1	2420	KP4	2496	KZ	2427	KZ3	2502
LISTR1	2414	LOADNX	700	LOADXX	793	LOOP	1122	LPAR	1498	MOVEH	1345	MSG	880
NEGARY	163	NEXT	995	NODIG	1977	NUMBER	1904	NUMBRL	1924	NUMBRX	1994	PFLD	1479
PHASID	110	RPAR	1541	RPOK	1584	SAWGM	1612	SEMIC	872	SEQCOD	879	SHORTH	1409
SIGN	1424	SKPCOM	1839	SLASH	1636	SNAPSH	333	SX1	1115	SX2	2141	SX2B	2423
SX3	875	SX3B	2340	SYNTAX	1258	TEST	2023	TOOBIG	838	TPREAD	780	TSTWID	1827
W3	2426	W3B	2495	WBIG	1870	WMSG	1269	X1	89	X2	94	X3	99
XFLD	1281												

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