CLEAR STORAG CLEAR STORAG BOOTSTRAP	GE 1 GE 2	L0681	15,022026,030037,044,049,053053N000000N00001026 16,105106,110117B101/I9I#071029C029056B026/B001/099 15,022029,036040,047054,061068,072/061039					1 2 3
			FORTRAN COMPILER CONSTANTS PHASE TWO 18				PAGE	1
SEQ PG LIN	LABEL	OP	INSTRUCTION	TYPE	CARD			
101		JOB	FORTRAN COMPILER CONSTANTS PHASE TWO 18					
102		CTL	6611					
103	*							
104			RIABLES PHASE TWO. THE TABLE OF SIMPLE VARIABLES					
105	* IS D	ESTROY	ED					
106	*	DOLL			0000			
107	X1	_	89		0089			
108 109	X2 X3	EQU EQU	94		0094			
110	*	EQU	33		0099			
111		NTRY.	83 IS THE TOP OF CODE AND X2 IS ONE BELOW THE					
112			CODE, AT THE TOP OF MEMORY.					
113	*		,					
114	BOTADR	EQU	2599 BOTTOM OF WORKING CORE		2599			
115	*							
116	* STUF	F IN T	HE RESIDENT AREA					
117	*							
118	PHASID	EQU	110 PHASE ID, FOR SNAPSHOT DUMPS		0110			
119 120			333 CORE DUMP SNAPSHOT		0333 0688			
121	TMOD	EQU	688 TOP CORE ADDRESS FROM PARAM CARD 690 INTEGER MODULUS NUMBER OF DIGITS		0690			
122			692 FLOATING POINT MANTISSA DIGITS & 2 FOR EXP		0692			
123	LOADNX		700 LOAD NEXT OVERLAY		0700			
	CLEARL	-	707 CS AT START OF OVERLAY LOADER		0707			
125	TPREAD	EQU	780 TAPE READ INSTRUCTION IN OVERLAY LOADER		0780			
126	CLRBOT	EQU	833 BOTTOM OF CORE TO CLEAR IN OVERLAY LOADER		0833			
127	*							
128		ORG	838			0838		
129	LOADDD		*&1 LOAD ADDRESS	2	0838			
	TOPCOD DIFF		#3 TOP OF CODE & X00 - 1 #5 TOP OF CORE - TOPCOD AS FIVE DIGITS		0840 0845			4
	BNDRY		#3 TOP OF CORE - TOPCOD AS FIVE DIGITS		0848			4
133	*	DCW	πΟ	3	0040			
134	* CLEA	R FROM	THE BOTTOM OF CODE DOWN TO BOTADR & 1					
135	*							
136 849	BEGINN	MCW	X2,X3			M 094 099		4
		SW	GM			, T33		4
	CLRL		0&X3			/ 0?0		4
139 864		SBR				Н 099		4
140 868 141 875		C	X3,BOTCLR			C 099 T68		5 5
141 875 142	*	BU	CLRL	5	08/5	В 860 /		5
143		CODE	BACK DOWN TO BOTADR-2					
144	*		District to Bottom 2					
145 880		SBR	X1,BOTADR WHY NOT	7	0880	H 089 N99		5
146 887		MN	0&X1 JUST			D 0 0		5
147 891		SAR	X1 SAR X1,BOTADR-1?	4	0891	Q 089		5

_				FORTRAN COMPILER CONSTANTS PHASE TWO 18			PA	GE 2
SEQ	PG LIN	LABEL	OP	OPERANDS	SFX CT	LOCN	INSTRUCTION TYP	E CARD
148	895	MOVE	MCM	0&X2	4	0895	P 0!0	5
149	899		SAR	SX2&6	4	0899	Q 921	5
150	903		MCM	0&X2,1&X1	7		P 0!0 0 1	6
151	910		MN		1	0910	D	6
152	911		SBR	X1	4	0911	Н 089	6
153		SX2	SBR	X2,0-0	7	0915	Н 094 000	6
154	922		BCE	MOVE,0&X1, DO NOT SET WM UNDER RM	8	0922	B 895 0 0	6
155 156	930 934		MN CW	0&X2	1	0930 0934	D 0!0	6 6
157	935		SW	0&X1 UNDER GM	4	0935	, 0 0	7
158	939		C	X2,TOPCOR	7	0939	C 094 688	7
159	946		BU	MOVE	5	0946	B 895 /	7
160	951		CW	0&X2	4	0951) 0!0	7
161	955		CW		1	0955)	7
162	956		SBR	TOPCOD,1&X1 TOPCOD IS	7	0956	H 840 0 1	7
163	963		MN	K99, TOPCOD NOW TOP OF	7	0963	D T32 840	7
164	970		MN	CODE & X00 - 1	1	0970	D	8
165		*						
166			R FROM	TOP OF CORE DOWN TO TOPCOD & 1				
167	0.71	*		00.40		0081		
168	971	~~~~	MCW	83, X3	7	0971		8
169	978	CLRL2		0&X3	4	0978 0982	/ 0?0	8
170 171	982 986		SBR C	X3 TORCOD	4 7	0982	H 099 C 099 840	8
172	993		BU	X3,TOPCOD CLRL2	5	0993		8
173	998		MCW	KLESS, 0&X3	7	0998	M T69 0?0	8
174			MCW	83, TOCONV	7	1005		9
175	1 012		В	CONV	4	1012		9
176	1 016		MCW	CONV5, DIFF	7	1016	M T74 845	9
177	1 023		MCW	TOPCOD, TOCONV	7	1023	M 840 T30	9
178	1 030		B	CONV	4	1030	B S56	9
	1 034		S	CONV5,DIFF	7	1034	S T74 845	9
180	1 041		A	DIFF-1,W6	7	1041	A 844 T80	10
	1 048		A	W6	4		A T80	10
	1 052		A	DIFF-1,W6	7		A 844 T80	10
	1 059	*	A	CONV5,W6 DIFF * 1.3	/	1059	A T74 T80	10
184 185			TEDT DI	FF * 1.3 TO MACHINE ADDRESS				
186		* CONV	EKI DI	FF " 1.3 TO MACHINE ADDRESS				
187	1 066		MCW	W6-3,X3	7	1066	M T77 099	10
188	1 073		A	X3	4		A 099	10
189	1 077		MZ	ZONES&X3,W6-2	7		Y TC4 T78	11
190	1 084		MZ	ZONES&1&X3,W6	7	1084	Y TC5 T80	11
191	1 091		MCW	W6,X3	7	1091	M T80 099	11
192		*						
193	1 098		SW	2&X3	4	1098	, 0?2	11
	1 102		MCW	KLESS	4	1102		11
	1 106		SBR	BNDRY	4	1106		11
	1 110		MCW	X1,X2	7	1110	M 089 094	12
19/	1 117		MN	0&X2	4	111/	D 0!0	12

_			FORTRAN COMPILER CONSTANTS PHASE TWO 18			PAG	E 3
SEQ PG LIN	LABEL	OP	OPERANDS	SFX CT	LOCN	INSTRUCTION TYPE	CARD
198	SPINT	SAR MCW LCA CS MCW MCW SW MCW LCA SBR SBR MN MN LCA SBR SBR	X1 83,X3 GM,1&X3 299 MANTIS,X3 KZ1 AND A ZERO 200 83,*&7 199&X3,0 SPACE FOR A FP NUMBER 83 SPINT&6 IMOD,X3 199&X3,0 SPACE FOR AN INTEGER X3 142 K1,0&X3	4 77 4 77 4 4 77 1 1 7 4 4 4 7	1199 1203	H 099 H 142 L T82 0?0	12 12 12 12 13 13 13 13 13 13 14 14 14 14 14
215 1 210 216 1 214 217 1 218		SBR LCA SBR	157 K15100 83	4 4 4	1214	H 157 L T85 H 083	14 15 15
218 219 220 221 1 222 222 1 227 223 1 234 224 1 238 225 1 245 226 1 252 227 228 229	* * DONE * * * * CONV * FORM	BSS SBR SBR SBR LCA B	SNAPSH,C TPREAD&6,BEGINN CLRBOT CLEARL&3,GMWM CONST3,PHASID LOADNX CONV FROM MACHINE ADDRESS FORMAT TO FIVE-DIGIT CONV5	5 7 4 7 7 4	1227 1234 1238 1245	H 833 H 710 Т97	15 15 15 15 15
230 231	CONVL	SBR MN MN MCW MZ MZ NOP SAR C SAR A BU MZ B	CONVX&3 TOCONV,CONV5 TOCONV,K99 TOCONV-2,K99-1 K99-1 X3 4&X3,K99 X3 KP1,CONV5-3 CONVL KB1,CONV5-3	4 7 1 1 1 7 7 4 4 7 7 5 7 7	1260 1267 1268 1269 1270 1277 1284 1288 1292 1299 1303 1310 1315	A T95 T71	16 16 16 16 16 16 17 17 17 17 17 17 17 17 18 18
247	* DATA						

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SEQ PG LIN LABEL OP	OPERANDS	SFX CT	LOCN	INSTRUCTION	TYPE	CARD
248 *						
249 1 330 TOCONV DCW	@OJ @	5	1330			18
250 1 332 K99 DCW	99	2	1332			18
251 1 333 GM DC	@ } @	1	1333		GMARK	18
252 ZONES EQU	*&1		1334			
253 1 365 DC	@99Z9R9I99ZZZRZIZ9RZRRRIR9IZIRIII@	32	1365			19
254 1 368 BOTCLR DSA	BOTADR CLEAR DOWN TO HERE	3	1368	N99		19
255 1 369 KLESS DCW	@<@	1	1369			19
256 1 374 CONV5 DCW	#5	5	1374			20
257 1 380 W6 DCW	#6	6	1380			20
258 1 381 KZ1 DCW	0	1	1381			20
259 1 382 K1 DCW	010	1	1382			20
260 1 385 K15100 DSA	15100	3	1385	A0?		20
261 1 394 CONST3 DCW	@CONST TRI@	9	1394			20
262 1 395 KP1 DCW	&1	1	1395			20
263 1 396 KB1 DCW	#1	1	1396			21
264 1 397 GMWM DCW	@ } @	1	1397		GMARK	21
265 ORG	201			0201		
266 203 DSA	LOADDD LOAD ADDRESS FOR CARD-TO-TAPE PROGRAM	3	0203	838		22
267 EX	BEGINN			В 849		23
268 END				/ 000 080		

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FORTRAN COMPILER CONSTANTS PHASE TWO 18									PAGE	5			
SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS
BEGINN	849	BNDRY	848	BOTADR	2599	BOTCLR	1368	CLEARL	707	CLRBOT	833	CLRL	860
CLRL2	978	CONST3	1394	CONV	1256	CONV5	1374	CONVL	1292	CONVX	1322	DIFF	845
GM	1333	GMWM	1397	IMOD	690	K1	1382	K15100	1385	K99	1332	KB1	1396

838

915

94

LOADNX

Х3

TOCONV 1330

700

99

MANTIS

TOPCOD

ZONES

692

840

1334

MOVE

TOPCOR

895

688

LOADDD

SX2

X2

KLESS 1369

110

780

PHASID

TPREAD

KP1

W6

SNAPSH

1395

333

1380

KZ1

X1

SPINT

1381

1188

89