FORTRAN COMPILER ARITH PHASE SIX PHASE 38	CLEAR STORAGE 1 CLEAR STORAGE 2 BOOTSTRAP		L0681	015,022026,030037,044,049,053053N000000N00001026 .16,105106,110117B101/I9I#071029C029056B026/B001/0991 015,022029,036040,047054,061068,072/061039		117I0? 011040			1 2 3
101				FORTRAN COMPILER ARITH PHASE SIX PHASE 38				PAGE	1
102	SEQ PG LIN	LABEL	OP	OPERANDS	SFX CT	LOCN	INSTRUCTION	TYPE	CARD
103    *   OPTIMIZATION OF TEMPORARY STORAGE ARRAS TAKES PLACE.	101		JOB	FORTRAN COMPILER ARITH PHASE SIX PHASE 38					
104    * OPTINIZATION OF TEMPORARY STORAGE ARRAS TAKES PLACE.	102		CTL	6611					
105    * THESE AREAS ARE ASSIGNED DEFINITE LOCATIONS IN STORAGE.		*							
106    *   NO ENTRY X1 IS AT THE BOTTOM OF THE BOTTOMMOST ASSIGNMENT   108    * STATEMENT IN LOW COPE, X2 IS AT THE AT THE BOTTOM OF THE   109    * BOTTOMMOST ASSIGNMENT STATEMENT IN HIGH CORE, AND X3 IS   110    * THE BOTTOM OF THE BOTTO									
107    * ON ENTRY XI IS AT THE BOTTOM OF THE BOTTOMMOST ASSIGNMENT   108    * STATEMENT IN LOW CORE, X2 IS AT THE AT THE BOTTOM OF THE   109    * BOTTOMMOST ASSIGNMENT STATEMENT IN HIGH CORE, AND X3 IS   110    * THE BOTTOM OF THE BOTTOMOST STATEMENT IN   111    * HIGH CORE THAT IS NEITHER AN ASSIGNMENT NOR IF STATEMENT.   112    *			SE AREA	AS ARE ASSIGNED DEFINITE LOCATIONS IN STORAGE.					
108    * STATEMENT IN LOW CORE, X2 IS AT THE AT THE BOTTOM OF THE									
100    * BOTTOMMOST ASSIGNMENT STATEMENT IN HIGH CORE, AND X3 IS									
110									
111				· · · · · · · · · · · · · · · · · · ·					
112									
113			CORE	THAT IS NEITHER AN ASSIGNMENT NOR IT STATEMENT.					
114		x1	EOH	89		0089			
115			~						
116			~						
118		*	~ -						
119	117	* STUF	F IN T	THE RESIDENT AREA					
121	118	*							
121	119	PHASID	EQU	110 PHASE ID, FOR SNAPSHOT DUMPS		0110			
122			~	184 GLOBAL ERROR FLAG WM MEANS ERROR					
126			~	333 CORE DUMP SNAPSHOT					
126				690 INTEGER MODULUS NUMBER OF DIGITS					
126			~	692 FLOATING POINT MANTISSA DIGITS					
126			~	700 LOAD NEXT OVERLAY					
127			- EQU	707 CS AI SIARI OF OVERLAY LOADER		0707			
128		•	OPC	020			0030		
129		BEGINN			8	0838			4
130									
132   858   SAR   SX3   SAR   SX3   SAR   SX3   SAR   SX1   O&X1   SAX   SAX				•					
133   862   SBR   SX1,0&X1   7   0862   H   N37   0   0   4     134   869   MCW   86,S86   7   0869   M   086   N66   4     135   876   MCW   MANTIS,NUMWID   7   0876   M   692   N40   5     136   883   MN   KPZERO,NUMWID-2   7   0883   D   N41   N38   5     137   890   A   KP2,NUMWID   WASN'T THIS DONE A LONG TIME AGO?   7   0890   A   N42   N40   5     138   897   C   NUMWID,IMOD   7   0897   C   N40   690   5     139   904   BL   *&8   5   0904   B   916   T   5     140   909   MCW   IMOD,NUMWID   NUMWID IS   MAX(IMOD,MANTIS&4)   7   0909   M   690   N40   6     141   916   LOOP   C   X2,SX3   7   0916   C   094   N34   6     142   923   BE   ALMOST   5   0923   B   S21   S   6     143   928   MCW   WORK,WORK-1   FILL   WORK   WITH   RECORD   MARKS   7   0928   M   M94   M93   6     144   935   GETLES   BCE   GOTLES, 2&X2, <   8   0935   B   959   0!2 <   6     145   943   SBR   X2   4   0943   H   094   6     146   947   BCE   ENDSTM, 1&X2, }	131 857		MN		1	0857	D		4
134   869   MCW   86,S86   7 0869   M 086 N66   4	132 858	1	SAR	SX3	4	0858	Q N34		4
135   876   MCW   MANTIS,NUMWID   7 0876   M 692 N40   5     136   883   MN   KPZERO,NUMWID-2   7 0883   D N41 N38   5     137   890   A   KP2,NUMWID   WASN'T THIS DONE A LONG TIME AGO?   7 0890   A N42 N40   5     138   897   C   NUMWID,IMOD   7 0897   C N40 690   5     139   904   BL   *&8   5 0904   B 916 T   5     140   909   MCW   IMOD,NUMWID   NUMWID IS MAX(IMOD,MANTIS&4)   7 0909   M 690 N40   6     141   916   LOOP   C   X2,SX3   7 0916   C 094 N34   6     142   923   BE   ALMOST   5 0923   B S21 S   6     143   928   MCW   WORK,WORK-1   FILL WORK WITH RECORD MARKS   7 0928   M M94 M93   6     144   935   GETLES   BCE   GOTLES,2&X2,<   8 0935   B 959 0!2 < 6     145   943   SBR   X2   4 0943   H 094   6     146   947   BCE   ENDSTM,1&X2,	133 862	!	SBR	SX1,0&X1	7	0862	H N37 0 0		4
136		1	MCW	86,S86	-				
137   890   A   KP2,NUMWID   WASN'T THIS DONE A LONG TIME AGO?   7 0890   A N42 N40   5				· · · · · · · · · · · · · · · · · · ·	-				
138				· · · · · · · · · · · · · · · · · · ·					
139 904 BL *&8 5 0904 B 916 T 5 140 909 MCW IMOD,NUMWID NUMWID IS MAX(IMOD,MANTIS&4) 7 0909 M 690 N40 6 141 916 LOOP C X2,SX3 7 0916 C 094 N34 6 142 923 BE ALMOST 5 0923 B S21 S 6 143 928 MCW WORK,WORK-1 FILL WORK WITH RECORD MARKS 7 0928 M M94 M93 6 144 935 GETLES BCE GOTLES,2&X2,< 8 0928 B 916 T 5 0900 M 690 N40 6 144 935 GETLES BCE GOTLES,2&X2,< 8 0928 M 94 M94 M93 6 145 943 SBR X2 4 0943 H 094 6 146 947 BCE ENDSTM,1&X2,}									
140       909       MCW       IMOD,NUMWID       NUMWID IS MAX(IMOD,MANTIS&4)       7       0909       M 690 N40       6         141       916       LOOP       C       X2,SX3       7       0916       C 094 N34       6         142       923       BE       ALMOST       5       0923       B S21 S       6         143       928       MCW       WORK,WORK-1       FILL WORK WITH RECORD MARKS       7       0928       M M94 M93       6         144       935       GETLES BCE       GOTLES,2&X2,       8       0935       B 959 0!2 <				1-0	_	0004	- 016 -		
141       916       LOOP       C       X2,SX3       7       0916       C       094 N34       6         142       923       BE       ALMOST       5       0923       B       S21       S       6         143       928       MCW       WORK, WORK-1       FILL WORK WITH RECORD MARKS       7       0928       M M94       M93       6         144       935       GETLES       BCE       GOTLES, 2&X2,        8       0935       B 959       0!2        6         145       943       SBR       X2       4       0943       H 094       6         146       947       BCE       ENDSTM, 1&X2, }       8       0947       B S10       0!1       GMARK       7				*&O NUMBER NUMBER TO MAY (TMOD MANUFECCA)	5	0904	B 910 T		
142     923     BE     ALMOST     5     0923     B     S21     S     6       143     928     MCW     WORK,WORK-1     FILL WORK WITH RECORD MARKS     7     0928     M     M     94     M93     6       144     935     GETLES     BCE     GOTLES,2&X2,     8     0935     B     959     0!2      6       145     943     BS     X2     4     0943     H     094     6       146     947     BCE     ENDSTM,1&X2,}     8     0947     B     S10     0!1     GMARK     7				V2 CV2	7	nais	C DON MINI		
144       935       GETLES BCE       GOTLES,2&X2,       8       0935       B 959 0!2 <				ALMOST	, 5	0923	B S21 S		
144       935       GETLES BCE       GOTLES,2&X2,       8       0935       B 959 0!2 <				WORK, WORK-1 FILL WORK WITH RECORD MARKS	7	0928	M M94 M93		
145     943     SBR X2     4 0943 H 094     6       146     947     BCE ENDSTM,1&X2,}     8 0947 B S10 0!1 } GMARK 7									
146 947 BCE ENDSTM,1&X2,} 8 0947 B S10 0!1 } GMARK 7									
147 955 B GETLES 4 0955 B 935 7								GMARK	
	147 955	i	В	GETLES	4	0955	в 935		7

W7,4&X2 CONVERT W7 TO MACHINE ADDRESS

W7 - 4

X3

MZ ZONES&X3,4&X2

MZ ZONES-1&X3,0

X1,W3B

GETLES

LOOP

BWZ BIGTST, S86, 2 UNDER 4K?

MN

MN

A

CW

C

190 1 199 NOTBIG SBR X2,3&X2

195 1 210 ENDSTM SBR X2,4&X2

191 1 206 B

196 1 217 B

SAR \*&4 MCW 0,X3

MCW KZERO

SBR \*&7

CW W7-4

MA 86,4&X2

BH NOTBIG

MCW X1,W3B

\* END OF STATEMENT.

MCW 4&X2,S86

MN

170 1 096 171 1 103

172 1 107

173 1 114

174 1 115

175 1 116

176 1 120

177 1 127

178 1 131

179 1 135

180 1 142

181 1 143

182 1 147

183 1 154

184 1 158

185 1 165

186 1 172

187 1 177

188 1 184

189 1 191

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				FORTRAN COMPILER ARITH PHASE SIX PHASE 38			PAGE	2
SEQ 1	PG LIN	LABEL	OP	OPERANDS	SFX CT	LOCN	INSTRUCTION TYPE	CARD
148	959	GOTLES	MN	4&X2,W3	7	0959	D 0!4 N45	7
149	966		MN		1	0966	D	7
150	967		MCW	KZERO	4	0967	M N46	7
151	971		BWZ	ZONEX3,4&X2,2	8	0971	V  16 0!4 2	7
152	979		A	KP100,W3	7	0979	A N49 N45	7
153	986		BWZ	ZONEX3,4&X2,S	8	0986	V  16 0!4 S	8
154	994		A	KP100,W3	7	0994	A N49 N45	8
155	1 001		BWZ	ZONEX3,4&X2,K	8	1001	V  16 0!4 K	8
156	1 009		A	KP100,W3	7	1009	A N49 N45	8
157	1 016	ZONEX3	MCW	W3,X3 4&X2 & &100*ZONE TO X3	7	1016	M N45 099	8 9
158	1 023		A	X3	4	1023	A 099	
159	1 027		A	W3,X3 TIMES 3	7	1027	A N45 099	9
160	1 034		BCE	GOTASG,5&X2,#	8	1034	B  60 0!5 #	9
161	1 042		MCW	WRKBOT&X3,X1	7	1042	M T?5 089	9
162	1 049		MCW	RM,WRKMID&X1	7	1049	M N50 LS8	9
163	1 056		В	NOTASG	4	1056	В  89	9
164	1 060	GOTASG		WRKMID&1	4	1060	P L29	10
165	1 064		SAR	X1	4	1064	Q 089	10
166	1 068		MA	A13671,X1	7	1068	# N53 089	10
167	1 075		MCW	*-6,WRKMID&X1	7	1075	M  75 LS8	10
168	1 082		MCW	X1,WRKBOT&X3	7	1082	M 089 T?5	10
169	1 089	NOTASG		X1,W7-4	7	1089	? 089 N56	10
170	1 096		M	NUMWID, W7	7	1096	@ N40 N60	11

4 1103 , N56

4 1116 0 /23

4 1127 M N46

4 1131 A 099

4 1143 H /53

1 1114 D

1 1115 D

7 1107 D N60 0!4

7 1120 M 000 099

7 1135 Y MI8 0!4

7 1147 Y MI7 000

4 1154 ) N56

7 1158 # 086 0!4

7 1165 C 089 N63

5 1172 B /99 U

7 1177 M 089 N63

7 1184 M 0!4 N66

7 1210 H 094 0!4

4 1206 B 935

4 1217 B 916

8 1191 V 010 N66 2

7 1199 H 094 0!3

V3M4

1 1142 )

11

11

11

11

11

11

12

12

12

12

13

13

13

13

14

14

14

14

14

12

12

247 2 566 S86

DCW

#3

3 2566

28

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	FORTRAN COMPILER ARITH PHASE SIX PHASE 3	38			PAGE	4
SEQ PG LIN LABEL OP	OPERANDS	:	SFX CT	LOCN	INSTRUCTION TYPE	CARD
248 2 573 IO2 DCW	@I/O TWO@		7	2573		28
249 2 609 ERROR2 DCW	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@		36	2609		29
250 2 610 BIGTST BWZ	TOOBIG,S86-2,2 UNDER 1K?	V3M4	8	2610	V S74 N64 2	30
251 2 618 BIN	NOTBIG,	V3M4	5	2618	B /99	30
252 2 623 GMWM DCW	@}@		1	2623	GMARK	30
253 EX	BEGINN				B 838	31
254 END					/ 000 080	

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	FORTRAN COMPILER ARITH PHASE	SIX PHASE 38	PAGE 5
SYMBOL ADDRESS SYMBOL	ADDRESS SYMBOL ADDRESS SYMBOL	L ADDRESS SYMBOL ADDRESS SYMBOL ADDRESS S	SYMBOL ADDRESS

SYMBOL	ADDRESS												
A13671	2553	ALMOST	1221	BEGINN	838	BIGTST	2610	CLEARL	707	DONE	1251	ENDSTM	1210
ERROR2	2609	GETLES	935	GLOBER	184	GMWM	2623	GOTASG	1060	GOTLES	959	IMOD	690
IO2	2573	KB9	2497	KP100	2549	KP2	2542	KPZERO	2541	KZERO	2546	LOADNX	700
LOOP	916	MANTIS	692	NOTASG	1089	NOTBIG	1199	NUMWID	2540	PHASID	110	PRINTD	2495
RM	2550	S86	2566	SNAPSH	333	SX1	2537	SX2	2531	SX3	2534	TOOBIG	1274
W3	2545	W3B	2563	W7	2560	WORK	2494	WRKBOT	1305	WRKMID	2328	X1	89
X2	94	X3	99	ZONES	2498	ZONEX3	1016						