```
CLEAR STORAGE 1     ,008015,022026,030037,044,049,053053N000000N00001026                                   1
CLEAR STORAGE 2     L068116,105106,110117B101/I9I#071029C029056B026/B001/0991,001/001117I0?                2
BOOTSTRAP           ,008015,022029,036040,047054,061068,072/061039             ,0010011040                3

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 SEQ PG LIN  LABEL  OP    OPERANDS                                        SFX CT  LOCN  INSTRUCTION TYPE  CARD

 101               JOB   FORTRAN COMPILER -- GEAUX PHASE ONE -- PHASE 61
 102               CTL   6611
 103         *
 104         * THIS PHASE PRINTS THE END OF COMPILATION MESSAGE, INITIALIZES
 105         * THE SENSE LIGHTS, AND PREPARES THE BRANCH INTO THE OBJECT
 106         * PROGRAM CODING.
 107         *
 108         X1     EQU   89                                                     0089
 109         *
 110         * ADDRESSES IN THE RESIDENT AREA
 111         *
 112         NSTMTS EQU   183  NUMBER OF STATEMENTS, INCLUDING GENERATED STOP     0183
 113         *                BEGINNING OF CODE BY NOW
 114         GLOBER EQU   184  GLOBAL ERROR FLAG -- WM MEANS ERROR                0184
 115         GOTXL  EQU   185  XLINKF WAS REFERENCED IF NO WM                     0185
 116         SNAPSH EQU   333  CORE DUMP SNAPSHOT                                 0333
 117         PHASLD EQU   381  LOADS PHASE ID IN SNAPSHOT                         0381
 118         SNAPEX EQU   564  HALT END EXIT IN SNAPSHOT                          0564
 119         CONDNS EQU   693  P FOR CONDENSED DECK                               0693
 120         LOADNX EQU   700  LOAD NEXT OVERLAY                                  0700
 121         CLEARL EQU   707  CS AT START OF OVERLAY LOADER                      0707
 122         CDOVLY EQU   769  1 IF RUNNING FROM CARDS, N IF FROM TAPE            0769
 123         TPREAD EQU   780  TAPE READ INSTRUCTION IN OVERLAY LOADER            0780
 124         LOADXX EQU   793  EXIT FROM OVERLAY LOADER                           0793
 125         CLRBOT EQU   833  BOTTOM OF CORE TO CLEAR IN OVERLAY LOADER          0833
 126         *
 127               ORG   838                                                           0838
 128     838 BEGINN LCA   W4,84  INITIALIZE                                 7 0838  L |78 084           4
 129     845        SW    84       SENSE                                    4 0845  , 084               4
 130     849        SW               LIGHTS                                 1 0849  ,                   4
 131     850        SW                                                      1 0850  ,                   4
 132     851        CC    1                                                 2 0851  F 1                 4
 133     853        CS    332                                               4 0853  / 332               4
 134     857        CS                                                      1 0857  /                   4
 135     858        MCW   ENDMSG,218                                        7 0858  M |96 218           5
 136     865        W                                                       1 0865  2                   5
 137     866        MCW   NSTMTS,X1  ENTRY ADDRESS FOR GENERATED CODE       7 0866  M 183 089           5
 138     873        BW    ERRORS,GLOBER                                     8 0873  V |56 184 1         5
 139     881        CC    J                                                 2 0881  F J                 5
 140     883        CS    332                                               4 0883  / 332               5
 141     887        CS                                                      1 0887  /                   5
 142     888        MCW   START,217                                         7 0888  M /13 217           6
 143     895        W                                                       1 0895  2                   6
 144     896 AFTERR SW    GMWM                                              4 0896  , /44               6
 145     900        LCA   GMWM,CONDNS  WHY HERE???                          7 0900  L /44 693           6
 146     907        BCE   CARDS,CDOVLY,1                                    8 0907  B 963 769 1         6
 147     915        BW    SKIPTP,GOTXL                                      8 0915  V 988 185 1         6
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                         FORTRAN COMPILER -- GEAUX PHASE ONE -- PHASE 61                               PAGE    2

SEQ PG LIN  LABEL  OP    OPERANDS                                         SFX CT  LOCN  INSTRUCTION TYPE  CARD

148    923         SBR   RETRY&3,RD333                                          7  0923  H 962 930            7
149         *
150         * LOAD OVERLAY LOADER
151         *
152    930  RD333  RTW   1,SNAPSH                                               8  0930  L %U1 333 R          7
153    938         BER   TAPERR                                                 5  0938  B 947 L              7
154    943         B     AFTOVL                                                 4  0943  B |20                7
155    947  TAPERR BSP   1                                                      5  0947  U %U1 B              7
156    952         H     4444,4444                                              7  0952  . 44U 44U            7
157    959  RETRY  B     SKIPTP                                                 4  0959  B 988                8
158    963  CARDS  BW    SKIPLD,GOTXL                                           8  0963  V 975 185 1          8
159    971         R     40  LOAD OVERLAY LOADER                                4  0971  1 040                8
160         *
161         * SKIP OVERLAY LOADER
162         *
163    975  SKIPLD R                                                            1  0975  1                    8
164    976         BCE   DONE,68,B                                              8  0976  B |01 068 B          8
165    984         B     SKIPLD                                                 4  0984  B 975                8
166    988  SKIPTP RTW   1,GMWM                                                 8  0988  L %U1 /44 R          8
167    996         BER   TAPERR                                                 5  0996  B 947 L              9
168         *
169  1 001  DONE   BSS   SNAPSH,C                                               5  1001  B 333 C              9
170  1 006         LCA   NOP,PHASLD                                             7  1006  L /14 381            9
171  1 013         LCA   HALT,SNAPEX                                            7  1013  L /15 564            9
172         *
173         * RETURN HERE AFTER LOADING OVERLAY LOADER
174         *
175  1 020  AFTOVL CW    680  IN CASE OF OVERLAY LOADER, CLEAR ITS GMWM         4  1020  ) 680                9
176  1 024         SBR   CLEARL&3,GMWM                                          7  1024  H 710 /44            9
177  1 031         SBR   TPREAD&6,201                                           7  1031  H 786 201           10
178  1 038         SBR   LOADXX&3,201                                           7  1038  H 796 201           10
179  1 045         SBR   CLRBOT,BEGINN                                          7  1045  H 833 838           10
180  1 052         B     LOADNX                                                 4  1052  B 700               10
181         *
182  1 056  ERRORS CC    J                                                      2  1056  F J                 10
183  1 058         CS    332                                                    4  1058  / 332               10
184  1 062         CS                                                           1  1062  /                   10
185  1 063         MCW   ERRMSG,228                                             7  1063  M /43 228           11
186  1 070         W                                                            1  1070  2                   11
187  1 071         B     AFTERR                                                 4  1071  B 896               11
188  1 078  W4     DCW   #4                                                     4  1078                      11
189  1 096  ENDMSG DCW   @END OF COMPILATION@                                  18  1096                      11
190  1 113  START  DCW   @PRESS START TO GO@                                   17  1113                      12
191  1 114  NOP    NOP                                                          1  1114  N                   12
192  1 115  HALT   H                                                            1  1115  .                   12
193  1 143  ERRMSG DCW   @CORRECT ERRORS AND RECOMPILE@                        28  1143                      13
194  1 144  GMWM   DCW   @}@                                                    1  1144             GMARK   13
195                EX    BEGINN                                                       B 838               14
196                END                                                                / 000 080
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SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS
AFTERR	896	AFTOVL	1020	BEGINN	838	CARDS	963	CDOVLY	769	CLEARL	707	CLRBOT	833
CONDNS	693	DONE	1001	ENDMSG	1096	ERRMSG	1143	ERRORS	1056	GLOBER	184	GMWM	1144
GOTXL	185	HALT	1115	LOADNX	700	LOADXX	793	NOP	1114	NSTMTS	183	PHASLD	381
RD333	930	RETRY	959	SKIPLD	975	SKIPTP	988	SNAPEX	564	SNAPSH	333	START	1113
TAPERR	947	TPREAD	780	W4	1078	X1	89						