```
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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                     FORTRAN COMPILER -- GEAUX PHASE ONE -- PHASE 61                              PAGE    1

 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						