```
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

                         FORTRAN COMPILER -- VARIABLES PHASE 5 -- 17                          PAGE    1

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

 101               JOB   FORTRAN COMPILER -- VARIABLES PHASE 5 -- 17
 102               CTL   6611
 103         *
 104         * A CHECK IS MADE FOR UNREFERENCED VARIABLES
 105         *
 106         X1    EQU   89                                                      0089
 107         X2    EQU   94                                                      0094
 108         X3    EQU   99                                                      0099
 109         *
 110         * ON ENTRY AND EXIT, X1 IS THE TOP OF CODE, TOPCOR IS THE TOP OF
 111         * THE SYMBOL TABLE, AND 83 IS THE BOTTOM OF THE SYMBOL TABLE.
 112         *
 113         * EACH ELEMENT OF THE SCALAR SYMBOLS TABLE CONSISTS OF THE
 114         * THREE-CHARACTER RUN-TIME ADDRESS, WITH A WORD MARK UNDER
 115         * THE FIRST CHARACTER, A GROUP MARK, WITH A WORD MARK UNDER
 116         * IT IF THE VARIABLE IS NOT REFERENCED, AND THE VARIABLE, WITH
 117         * CHARACTERS REVERSED.
 118         *
 119         * STUFF IN THE RESIDENT AREA
 120         *
 121         PHASID EQU   110  PHASE ID, FOR SNAPSHOT DUMPS                      0110
 122         SNAPSH EQU   333  CORE DUMP SNAPSHOT                                0333
 123         TOPCOR EQU   688  TOP CORE ADDRESS FROM PARAM CARD                  0688
 124         LOADNX EQU   700  LOAD NEXT OVERLAY                                 0700
 125         CLEARL EQU   707  CS AT START OF OVERLAY LOADER                     0707
 126         TPREAD EQU   780  TAPE READ INSTRUCTION IN OVERLAY LOADER           0780
 127         LOADXX EQU   793  EXIT FROM OVERLAY LOADER                          0793
 128         CLRBOT EQU   833  BOTTOM OF CORE TO CLEAR IN OVERLAY LOADER        0833
 129         *
 130               ORG   857                                                           0857
 131         LOADDD EQU   *&1          LOAD ADDRESS                              0857
 132    857  BEGINN CC    J                                                2   0857  F J                  4
 133    859         MCW   X1,SX1         MEMORIZE TOP OF CODE               7   0859  M 089 |79            4
 134    866         MCW   TOPCOR,X2      TOP OF SYMBOL TABLE                7   0866  M 688 094            4
 135    873  LOOP   BCE   TABENT,0&X2,}  GM MEANS BOTTOM OF SYM TAB NAME    8   0873  B 945 0!0 } GMARK    4
 136    881         SBR   X2                                                4   0881  H 094                4
 137    885         C     X2,83          BOTTOM OF SYMBOL TABLE?            7   0885  C 094 083            4
 138    892         BU    LOOP           NO                                 5   0892  B 873 /              5
 139         *
 140         * DONE
 141         *
 142    897         MCW   SX1,X1         RECALL TOP OF CODE                 7   0897  M |79 089            5
 143    904         BSS   SNAPSH,D                                           5   0904  B 333 D              5
 144    909         SBR   TPREAD&6,838                                       7   0909  H 786 838            5
 145    916         SBR   CLRBOT                                            4   0916  H 833                5
 146    920         SBR   LOADXX&3,838                                      7   0920  H 796 838            5
 147    927         SBR   CLEARL&3,2698                                     7   0927  H 710 O98            6
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SEQ PG LIN  LABEL   OP    OPERANDS                                        SFX CT  LOCN  INSTRUCTION TYPE  CARD

148    934          LCA   CONST1,PHASID                                     7  0934  L |88 110            6
149    941          B     LOADNX                                            4  0941  B 700                6
150          *
151          * X2 IS AT GM BELOW A NAME IN THE SYMBOL TABLE
152          *
153    945   TABENT BW    UNREF,0&X2     UNREFERENCED IF GM HAS WM          8  0945  V 965 0!0 1          6
154    953          MN    0&X2                                              4  0953  D 0!0                6
155    957          SBR   X2                                                4  0957  H 094                6
156    961          B     LOOP                                              4  0961  B 873                6
157          *
158          * UNREFERENCED SYMBOL
159          *
160          * MOVE X3 (INITIALLY X2) UP TO WM ABOVE SYMBOL
161          *
162    965   UNREF  CS    299                                               4  0965  / 299                7
163    969          MCW   ERR11,233                                         7  0969  M /21 233            7
164    976          MCW   X2,X3                                             7  0976  M 094 099            7
165    983   LOOPU  NOP   1&X3           WHY NOT                           4  0983  N 0?1                7
166    987          SAR   X3               JUST SBR  X3,1&X3?             4  0987  Q 099                7
167    991          BW    *&5,2&X3       AT WM ABOVE SYMBOL?               8  0991  V |03 0?2 1          7
168    999          B     LOOPU                                             4  0999  B 983                7
169  1 003          MN    234            WHY NOT                           4  1003  D 234                8
170  1 007          MN                     JUST                            1  1007  D                    8
171  1 008          SAR   X1                 SBR  X1,232?                  4  1008  Q 089                8
172  1 012          SBR   X3,1&X3                                          7  1012  H 099 0?1            8
173  1 019   LOOPW  MCW   0&X3,CH         MOVE SYMBOL                       7  1019  M 0?0 /22            8
174  1 026          SAR   X3               TO PRINT                        4  1026  Q 099                8
175  1 030          MCW   CH,2&X1            LINE WHILE                    7  1030  M /22 0|2            8
176  1 037          SBR   X1                 REVERSING CHARACTERS          4  1037  H 089                9
177  1 041          BW    *&5,1&X3             TO CORRECT                  8  1041  V |53 0?1 1          9
178  1 049          B     LOOPW                  ORDER                     4  1049  B |19                9
179  1 053          W                                                       1  1053  2                    9
180  1 054          BCV   *&5                                              5  1054  B |63 @              9
181  1 059          B     *&3                                               4  1059  B |65               9
182  1 063          CC    1                                                 2  1063  F 1                  9
183  1 065          MN    0&X2                                              4  1065  D 0!0               10
184  1 069          SAR   X2                                                4  1069  Q 094               10
185  1 073          B     LOOP                                              4  1073  B 873               10
186          *
187          * DATA
188          *
189  1 079   SX1    DCW   #3                                                3  1079                      10
190  1 088   CONST1 DCW   @CONST ONE@                                       9  1088                      10
191  1 121   ERR11  DCW   @ERROR 11 - UNREFERENCED VARIABLE @              33  1121                      11
192  1 122   CH     DCW   #1                                                1  1122                      11
193  1 123   GMWM   DCW   @}@                                              1  1123            GMARK     11
194                 ORG   201                                                      0201
195    203          DSA   LOADDD    LOAD ADDRESS FOR CARD-TO-TAPE PROGRAM   3  0203  857                12
196                 EX    BEGINN                                                   B 857                13
197                 END                                                            / 000 080
```

SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS
BEGINN	857	CH	1122	CLEARL	707	CLRBOT	833	CONST1	1088	ERR11	1121	GMWM	1123
LOADDD	857	LOADNX	700	LOADXX	793	LOOP	873	LOOPU	983	LOOPW	1019	PHASID	110
SNAPSH	333	SX1	1079	TABENT	945	TOPCOR	688	TPREAD	780	UNREF	965	X1	89
X2	94	X3	99										