```
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 -- SUBSCRIPTS PHASE -- 21                                PAGE    1

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

 101                JOB   FORTRAN COMPILER -- SUBSCRIPTS PHASE -- 21
 102                CTL   6611
 103         *
 104         * SUBSCRIPTS WHICH MUST BE COMPUTED AT OBJECT TIME ARE REDUCED
 105         * TO THE REQUIRED PARAMETERS.
 106         *
 107         * ON ENTRY, X1 IS THE TOP OF THE PREFIX OF THE TOP STATEMENT
 108         * AND X2 IS ONE BELOW THE BOTTOM STATEMENT.
 109         *
 110         X1     EQU   89                                                      0089
 111         X2     EQU   94                                                      0094
 112         X3     EQU   99                                                      0099
 113         *
 114         * STUFF IN THE RESIDENT AREA
 115         *
 116         PHASID EQU   110  PHASE ID, FOR SNAPSHOT DUMPS                       0110
 117         SNAPSH EQU   333  CORE DUMP SNAPSHOT                                 0333
 118         LOADNX EQU   700  LOAD NEXT OVERLAY                                  0700
 119         CLEARL EQU   707  CS AT START OF OVERLAY LOADER                      0707
 120         *
 121                ORG   838                                                            0838
 122         LOADDD EQU   *&1          LOAD ADDRESS                               0838
 123     838 BEGINN CS    0&X2  CLEAR BELOW BOTTOM STATEMENT                   4  0838  / 0!0                4
 124     842        CS                                                         1  0842  /                    4
 125     843        SBR   X2,1&X1                                              7  0843  H 094 0|1            4
 126     850        SBR   SX1                                                  4  0850  H /94                4
 127     854 LOOP   BCE   DONE,0&X1,  BELOW BOTTOM STATEMENT                   8  0854  B /39 0|0            4
 128     862        MCW   0&X1,SEQCOD                                          7  0862  M 0|0 /98            4
 129     869        B     MOVEUP                                               4  0869  B |64                4
 130     873        BCE   ENDST1,SEQCOD-3,/  END STATEMENT?                    8  0873  B /31 /95 /          5
 131     881        BCE   ENDST1,SEQCOD-3,F  FORMAT STATEMENT?                 8  0881  B /31 /95 F          5
 132     889 SCHSUB BCE   SUB6,0&X1,$                                          8  0889  B 923 0|0 $          5
 133     897        CHAIN 5                                                                        MACRO
 134                BCE                                                        1  0897  B           GEN      5
 135                BCE                                                        1  0898  B           GEN      5
 136                BCE                                                        1  0899  B           GEN      5
 137                BCE                                                        1  0900  B           GEN      5
 138                BCE                                                        1  0901  B           GEN      6
 139     902        BW    ENDSTM,0&X1                                          8  0902  V /24 0|0 1          6
 140     910        CHAIN 5                                                                        MACRO
 141                BW                                                         1  0910  V           GEN      6
 142                BW                                                         1  0911  V           GEN      6
 143                BW                                                         1  0912  V           GEN      6
 144                BW                                                         1  0913  V           GEN      6
 145                BW                                                         1  0914  V           GEN      6
 146     915        SBR   X1                                                   4  0915  H 089                7
 147     919        B     SCHSUB                                               4  0919  B 889                7
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SEQ PG LIN  LABEL  OP    OPERANDS                                    SFX CT  LOCN  INSTRUCTION TYPE  CARD
148         *
149         * GOT X1 TO WITHIN SIX OF A $, WHICH INDICATES SUBSCRIPTING.
150         * GET TO IT EXACTLY.
151         *
152    923  SUB6   BCE   GOTSUB,0&X1,$                                 8  0923  B 939 0|0 $          7
153    931         SBR   X1                                           4  0931  H 089               7
154    935         B     SUB6                                         4  0935  B 923               7
155    939  GOTSUB SW    0&X1                                         4  0939  , 0|0               7
156    943         B     MOVE2                                        4  0943  B /69               7
157    947         MN    0&X1                                         4  0947  D 0|0               8
158    951         SAR   X1                                           4  0951  Q 089               8
159    955         B     X1DEC4                                       4  0955  B |98               8
160    959  MORSUB SW    2&X1                                         4  0959  , 0|2               8
161    963         B     MOVE2                                        4  0963  B /69               8
162    967         B     X1DEC4                                       4  0967  B |98               8
163    971         BWZ   INTSUB,3&X1,S  A ZONE?                       8  0971  V |21 0|3 S          8
164    979         BM    INTSUB,3&X1    B ZONE?                       8  0979  V |21 0|3 K          9
165         *
166         * NO ZONE OR AB ZONE MEANS FLOATING POINT SUBSCRIPT
167         *
168    987         CS    332                                          4  0987  / 332               9
169    991         CS                                                 1  0991  /                   9
170    992         SW    184  GLOBAL (?) ERROR FLAG                   4  0992  , 184               9
171    996         MN    SEQCOD,250                                   7  0996  D /98 250           9
172  1 003         MN                                                 1  1003  D                   9
173  1 004         MN                                                 1  1004  D                   9
174  1 005         MCW   ERR12                                        4  1005  M S45              10
175  1 009         W                                                  1  1009  2                  10
176  1 010         BCV   *&5                                         5  1010  B |19 @             10
177  1 015         B     INTSUB                                       4  1015  B |21              10
178  1 019         CC    1                                            2  1019  F 1                10
179  1 021  INTSUB SW    2&X1                                         4  1021  , 0|2              10
180  1 025         B     MOVE2                                        4  1025  B /69              10
181  1 029         B     X1DEC4                                       4  1029  B |98              11
182  1 033         C     1&X1,KDOL                                    7  1033  C 0|1 S46          11
183  1 040         BU    MORSUB                                       5  1040  B 959 /            11
184  1 045         SW    1&X1                                         4  1045  , 0|1              11
185  1 049         B     MOVE2                                        4  1049  B /69              11
186  1 053         MCW   X1,X3                                        7  1053  M 089 099          11
187  1 060         B     SCHSUB                                       4  1060  B 889              11
188         *
189         * MOVE UP PREFIX OR TAIL OF STATEMENT
190         *
191  1 064  MOVEUP SBR   MOVEX&3                                      4  1064  H |97              12
192  1 068         LCA   0&X1,0&X2                                    7  1068  L 0|0 0!0          12
193  1 075         SAR   X1                                           4  1075  Q 089              12
194  1 079         C     0&X2                                         4  1079  C 0!0              12
195  1 083         SAR   X2                                           4  1083  Q 094              12
196  1 087         MCW   X1,X3                                        7  1087  M 089 099          12
197  1 094  MOVEX  B     0-0                                          4  1094  B 000              12
```

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

198         *
199         * COPY X1 TO X3, THEN DECREMENT X1 BY 4
200         *
201  1 098  X1DEC4 SBR   X1DECX&3                                             4  1098  H /23               13
202  1 102         MCW   X1,X3                                               7  1102  M 089 099           13
203  1 109         MN    0&X1                                                4  1109  D 0|0               13
204  1 113         MN                                                        1  1113  D                   13
205  1 114         MN                                                        1  1114  D                   13
206  1 115         MN                                                        1  1115  D                   13
207  1 116         SBR   X1                                                  4  1116  H 089               13
208  1 120  X1DECX B     0-0                                                 4  1120  B 000               14
209         *
210         * END OF A STATEMENT
211         *
212  1 124  ENDSTM MCW   X3,X1                                               7  1124  M 099 089           14
213  1 131  ENDST1 B     MOVEUP  MOVE UP TAIL OF STATEMENT                   4  1131  B |64               14
214  1 135         B     LOOP                                                4  1135  B 854               14
215         *
216         * DONE
217         *
218  1 139  DONE   MCW   SX1,X1                                              7  1139  M /94 089           14
219  1 146         BSS   SNAPSH,C                                            5  1146  B 333 C             14
220  1 151         SBR   CLEARL&3,GMWM                                       7  1151  H 710 S56           14
221  1 158         LCA   STNUM1,PHASID                                       7  1158  L S55 110           15
222  1 165         B     LOADNX                                              4  1165  B 700               15
223         *
224         * MOVE UP A CHUNK OF THE STATEMENT
225         *
226  1 169  MOVE2  SBR   MOVE2X&3                                            4  1169  H /91               15
227  1 173         LCA   0&X3,0&X2                                           7  1173  L 0?0 0!0           15
228  1 180         SBR   X2                                                  4  1180  H 094               15
229  1 184         CW    1&X2                                                4  1184  ) 0!1               15
230  1 188  MOVE2X B     0-0                                                 4  1188  B 000               15
231         *
232         * DATA
233         *
234  1 194  SX1    DCW   #3                                                  3  1194                      16
235  1 198  SEQCOD DCW   #4                                                  4  1198                      16
236  1 245  ERR12  DCW   @ERROR 12 - FLOATING POINT SUBSCRIPT, STATEMENT @   47  1245                      18
237  1 246  KDOL   DCW   @$@                                                 1  1246                      18
238  1 255  STNUM1 DCW   @STNUM ONE@                                        9  1255                      18
239  1 256  GMWM   DCW   @}@                                                 1  1256            GMARK     18
240                ORG   201                                                       0201
241    203         DSA   LOADDD    LOAD ADDRESS FOR CARD-TO-TAPE PROGRAM     3  0203  838                 19
242                EX    BEGINN                                                    B 838                 20
243                END                                                             / 000 080
```

SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS
BEGINN	838	CLEARL	707	DONE	1139	ENDST1	1131	ENDSTM	1124	ERR12	1245	GMWM	1256
GOTSUB	939	INTSUB	1021	KDOL	1246	LOADDD	838	LOADNX	700	LOOP	854	MORSUB	959
MOVE2	1169	MOVE2X	1188	MOVEUP	1064	MOVEX	1094	PHASID	110	SCHSUB	889	SEQCOD	1198
SNAPSH	333	STNUM1	1255	SUB6	923	SX1	1194	X1	89	X1DEC4	1098	X1DECX	1120
X2	94	X3	99										