```
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 -- RESORT 4 PHASE -- PHASE 50A                          PAGE    1

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

 101                JOB   FORTRAN COMPILER -- RESORT 4 PHASE -- PHASE 50A
 102                CTL   6611
 103         *
 104         * THE STATEMENTS ARE RELOCATED TO THE POSITIONS THEY WILL OCCUPY
 105         * AT OBJECT TIME.  THE STATEMENT NUMBER TABLE IS ADJUSTED TO
 106         * TO SHOW THE OBJECT TIME LOCATIONS OF THE STATEMENTS.
 107         *
 108         * ON ENTRY X3 IS AT THE TOP OF THE MOVED-DOWN CODE.
 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         TBLBOT EQU   145  ONE BELOW NUMBERS, FORMATS, I/O LISTS           0145
 118         SEQTAB EQU   148  BOTTOM OF SEQUENCE NUMBER TABLE - 2             0148
 119         NSTMTS EQU   183  NUMBER OF STATEMENTS, INCLUDING GENERATED STOP  0183
 120         SNAPSH EQU   333  CORE DUMP SNAPSHOT                              0333
 121         LOADNX EQU   700  LOAD NEXT OVERLAY                               0700
 122         CLEARL EQU   707  CS AT START OF OVERLAY LOADER                   0707
 123         *
 124         * STUFF FROM THE PREVIOUS PHASE
 125         *
 126         W3     EQU   859                                                   0859
 127         TOPC5  EQU   870  TOPC AS FIVE DIGITS                             0870
 128         ADR5B  EQU   891                                                   0891
 129         ADR5   EQU   896                                                   0896
 130         CONV35 EQU   969  CONVERT ADDRESS IN ADR5 TO DIGITS IN ADR5B      0969
 131         TOOBIG EQU   1092                                                  1092
 132         *
 133                ORG   1175                                                       1175
 134  1 175  BEGINN MCW   SEQTAB,X1                                        7  1175  M 148 089           4
 135  1 182         SBR   X1,1&X1                                         7  1182  H 089 0|1           4
 136  1 189         C     TBLBOT,X1                                       7  1189  C 145 089           4
 137  1 196         BE    ATBOT                                           5  1196  B S60 S             4
 138  1 201  LOOP   SBR   X1,3&X1                                         7  1201  H 089 0|3           4
 139  1 208         MCW   0&X1,X2                                         7  1208  M 0|0 094           5
 140  1 215         BWZ   *&12,X2-1,2                                     8  1215  V S34 093 2         5
 141  1 223         MCW   0&X2,0&X1                                       7  1223  M 0!0 0|0           5
 142  1 230         B     TSTBOT                                          4  1230  B S48               5
 143  1 234         MA    W3,X2                                           7  1234  # 859 094           5
 144  1 241         MCW   X2,0&X1                                         7  1241  M 094 0|0           6
 145  1 248  TSTBOT C     X1,TBLBOT                                       7  1248  C 089 145           6
 146  1 255         BU    LOOP                                            5  1255  B S01 /             6
 147  1 260  ATBOT  MCW   W3,X1                                           7  1260  M 859 089           6
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SEQ PG LIN  LABEL   OP    OPERANDS                                          SFX CT  LOCN  INSTRUCTION TYPE  CARD
148  1 267          MA    X3,X1                                               7  1267  # 099 089           6
149  1 274          MCW   X1,NEWX3&6                                          7  1274  M 089 U69           7
150  1 281          SBR   ADR5,0&X3                                          7  1281  H 896 0?0           7
151  1 288          B     CONV35                                              4  1288  B 969               7
152  1 292          MCW   ADR5B,TOPC5                                       7  1292  M 891 870           7
153  1 299          MCW   ADR5B,W5                                          7  1299  M 891 W68           7
154  1 306          MCW   W3,ADR5                                           7  1306  M 859 896           7
155  1 313          B     CONV35                                              4  1313  B 969               8
156  1 317          A     ADR5B,TOPC5                                       7  1317  A 891 870           8
157  1 324          C     K16000,TOPC5                                      7  1324  C W63 870           8
158  1 331          BL    *&8                                               5  1331  B T43 T             8
159  1 336          S     K16000,TOPC5                                      7  1336  S W63 870           8
160  1 343          MCW   SEQTAB,ADR5                                       7  1343  M 148 896           8
161  1 350          B     CONV35                                              4  1350  B 969               9
162  1 354          C     ADR5B,TOPC5                                       7  1354  C 891 870           9
163  1 361          BH    TOOBIG                                            5  1361  B |92 U             9
164  1 366          MZ    X1,TSTZON&7                                       7  1366  Y 089 V77           9
165  1 373          MCW   X1-2,TSTCHR&7                                     7  1373  M 087 V97           9
166  1 380          MCW   NSTMTS,X2                                         7  1380  M 183 094           9
167  1 387          MA    W3,NSTMTS                                         7  1387  # 859 183          10
168  1 394          C     TOPC5,W5                                          7  1394  C 870 W68          10
169  1 401          BH    FINDW2                                            5  1401  B V14 U            10
170  1 406  MORE    LCA   0&X3,0&X1                                         7  1406  L 0?0 0|0          10
171  1 413          SAR   X3                                                4  1413  Q 099              10
172  1 417          C     0&X1                                              4  1417  C 0|0              10
173  1 421          SAR   X1                                                4  1421  Q 089              10
174  1 425          BCE   *&5,0&X3,:  AT TOP OF MOVED-UP CODE               8  1425  B U37 0?0 :        11
175  1 433          B     MORE                                              4  1433  B U06              11
176          *
177          * DONE
178          *
179  1 437  CSLOOP  CS    0&X1                                              4  1437  / 0|0              11
180  1 441          SBR   X1                                                4  1441  H 089              11
181  1 445          C     X1,BOTCLR  AT THE BOTTOM OF CORE TO CLEAR?        7  1445  C 089 W71          11
182  1 452          BU    CSLOOP     NO, CLEAR MORE                         5  1452  B U37 /            11
183  1 457          CW    0&X1                                              4  1457  ) 0|0              11
184  1 461          CW                                                      1  1461  )                  12
185  1 462          CW                                                      1  1462  )                  12
186  1 463  NEWX3   SBR   X3,0                                             7  1463  H 099 000          12
187  1 470          SW    0&X1,1&X3                                         7  1470  , 0|0 0?1          12
188  1 477          MCW   W3,X2                                           7  1477  M 859 094          12
189  1 484          BSS   SNAPSH,D                                        5  1484  B 333 D            12
190  1 489          SBR   CLEARL&3,GMWM                                   7  1489  H 710 W91          12
191  1 496          LCA   SHIFT,PHASID                                     7  1496  L W80 110          13
192  1 503          B     LOADNX                                            4  1503  B 700              13
193          *
194          * MOVE THE CODE TO ITS FINAL PLACE
195          *
196  1 507  FINDWM  MA    A001,X2  WHY NOT  SBR  X2,1&X2 ???          V3M4   7  1507  # W90 094          13
197  1 514  FINDW2  BW    *&5,1&X2                                          8  1514  V V26 0!1 1        13
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SEQ PG LIN  LABEL   OP    OPERANDS                                          SFX CT  LOCN  INSTRUCTION TYPE  CARD
198  1 522          B     FINDWM                                              4  1522  B V07              13
199  1 526          MCW   X2,X1                                               7  1526  M 094 089          13
200  1 533          MA    W3,X1                                               7  1533  # 859 089          14
201  1 540          LCA   0&X2,0&X1  MOVE ONE FIELD TO ITS FINAL PLACE        7  1540  L 0!0 0|0          14
202  1 547          C     X2,X3                                               7  1547  C 094 099          14
203  1 554          BU    FINDWM                                              5  1554  B V07 /            14
204  1 559          LCA   KB2,2&X3                                            7  1559  L W83 0?2          14
205  1 566          CW    1&X3                                                4  1566  ) 0?1              14
206  1 570  TSTZON  BWZ   TSTCHR,X3,2  CLEAR MOVED-AWAY CODE                  8  1570  V V90 099 2        15
207  1 578          CS    0&X3                                                4  1578  / 0?0              15
208  1 582          SBR   X3                                                  4  1582  H 099              15
209  1 586          B     TSTZON                                              4  1586  B V70              15
210  1 590  TSTCHR  BCE   CLR00F,X3-2,0                                       8  1590  B W10 097 0        15
211  1 598          CS    0&X3                                                4  1598  / 0?0              15
212  1 602          SBR   X3                                                  4  1602  H 099              15
213  1 606          B     TSTCHR                                              4  1606  B V90              16
214  1 610  CLR00F  C     X3,X1                                               7  1610  C 099 089          16
215  1 617          BE    CLRFIN                                              5  1617  B W41 S            16
216  1 622          LCA   KB1,0&X3                                            7  1622  L W84 0?0          16
217  1 629          CW    0&X3                                                4  1629  ) 0?0              16
218  1 633          SBR   X3                                                  4  1633  H 099              16
219  1 637          B     CLR00F                                              4  1637  B W10              16
220  1 641  CLRFIN  MCW   NSTMTS,X1                                           7  1641  M 183 089          17
221  1 648          MA    K15999,X1                                           7  1648  # W87 089          17
222  1 655          B     CSLOOP                                              4  1655  B U37              17
223          *
224          * DATA
225          *
226  1 663  K16000  DCW   16000                                               5  1663                     17
227  1 668  W5      DCW   #5                                                  5  1668                     17
228  1 671  BOTCLR  DSA   DOWNTO  TEST FOR BOTTOM OF CLEARING                 3  1671  W99                17
229  1 680  SHIFT   DCW   @SHIFT CFL@                                         9  1680                     18
230  1 681  KP1     DCW   &1                                                  1  1681                     18
231  1 683  KB2     DCW   #2                                                  2  1683                     18
232  1 684  KB1     DCW   #1                                                  1  1684                     18
233  1 687  K15999  DSA   15999                                               3  1687  I9I                18
234  1 690  A001    DSA   1                                           V3M4    3  1690  001                18
235  1 691  GMWM    DCW   @}@                                               1  1691            GMARK    18
236                 ORG   *&X00                                                   1700
237          DOWNTO EQU   *                                                    1699
238                 EX    BEGINN                                                    B /75              19
239                 END                                                             / 000 080
```

SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS
A001	1690	ADR5	896	ADR5B	891	ATBOT	1260	BEGINN	1175	BOTCLR	1671	CLEARL	707
CLR00F	1610	CLRFIN	1641	CONV35	969	CSLOOP	1437	DOWNTO	1699	FINDW2	1514	FINDWM	1507
GMWM	1691	K15999	1687	K16000	1663	KB1	1684	KB2	1683	KP1	1681	LOADNX	700
LOOP	1201	MORE	1406	NEWX3	1463	NSTMTS	183	PHASID	110	SEQTAB	148	SHIFT	1680
SNAPSH	333	TBLBOT	145	TOOBIG	1092	TOPC5	870	TSTBOT	1248	TSTCHR	1590	TSTZON	1570
W3	859	W5	1668	X1	89	X2	94	X3	99				