```
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         LOADDD EQU   *&1          LOAD ADDRESS                                  1175
 135  1 175  BEGINN MCW   SEQTAB,X1                                             7  1175  M 148 089           4
 136  1 182         SBR   X1,1&X1                                              7  1182  H 089 0|1           4
 137  1 189         C     TBLBOT,X1                                            7  1189  C 145 089           4
 138  1 196         BE    ATBOT                                                5  1196  B S60 S             4
 139  1 201  LOOP   SBR   X1,3&X1                                              7  1201  H 089 0|3           4
 140  1 208         MCW   0&X1,X2                                              7  1208  M 0|0 094           5
 141  1 215         BWZ   *&12,X2-1,2                                          8  1215  V S34 093 2         5
 142  1 223         MCW   0&X2,0&X1                                            7  1223  M 0!0 0|0           5
 143  1 230         B     TSTBOT                                               4  1230  B S48               5
 144  1 234         MA    W3,X2                                                7  1234  # 859 094           5
 145  1 241         MCW   X2,0&X1                                              7  1241  M 094 0|0           6
 146  1 248  TSTBOT C     X1,TBLBOT                                            7  1248  C 089 145           6
 147  1 255         BU    LOOP                                                 5  1255  B S01 /             6
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SEQ PG LIN  LABEL   OP    OPERANDS                                        SFX CT  LOCN  INSTRUCTION TYPE  CARD
148  1 260  ATBOT   MCW   W3,X1                                             7  1260  M 859 089            6
149  1 267         MA    X3,X1                                             7  1267  # 099 089            6
150  1 274         MCW   X1,NEWX3&6                                        7  1274  M 089 U69            7
151  1 281         SBR   ADR5,0&X3                                        7  1281  H 896 0?0            7
152  1 288         B     CONV35                                            4  1288  B 969                7
153  1 292         MCW   ADR5B,TOPC5                                      7  1292  M 891 870            7
154  1 299         MCW   ADR5B,W5                                         7  1299  M 891 W68            7
155  1 306         MCW   W3,ADR5                                          7  1306  M 859 896            7
156  1 313         B     CONV35                                            4  1313  B 969                8
157  1 317         A     ADR5B,TOPC5                                       7  1317  A 891 870            8
158  1 324         C     K16000,TOPC5                                      7  1324  C W63 870            8
159  1 331         BL    *&8                                               5  1331  B T43 T              8
160  1 336         S     K16000,TOPC5                                      7  1336  S W63 870            8
161  1 343         MCW   SEQTAB,ADR5                                       7  1343  M 148 896            8
162  1 350         B     CONV35                                            4  1350  B 969                9
163  1 354         C     ADR5B,TOPC5                                       7  1354  C 891 870            9
164  1 361         BH    TOOBIG                                            5  1361  B |92 U              9
165  1 366         MZ    X1,TSTZON&7                                       7  1366  Y 089 V77            9
166  1 373         MCW   X1-2,TSTCHR&7                                     7  1373  M 087 V97            9
167  1 380         MCW   NSTMTS,X2                                        7  1380  M 183 094            9
168  1 387         MA    W3,NSTMTS                                         7  1387  # 859 183           10
169  1 394         C     TOPC5,W5                                          7  1394  C 870 W68           10
170  1 401         BH    FINDW2                                            5  1401  B V14 U             10
171  1 406  MORE   LCA   0&X3,0&X1                                        7  1406  L 0?0 0|0           10
172  1 413         SAR   X3                                                4  1413  Q 099               10
173  1 417         C     0&X1                                              4  1417  C 0|0               10
174  1 421         SAR   X1                                                4  1421  Q 089               10
175  1 425         BCE   *&5,0&X3,:  AT TOP OF MOVED-UP CODE               8  1425  B U37 0?0 :         11
176  1 433         B     MORE                                              4  1433  B U06               11
177         *
178         * DONE
179         *
180  1 437  CSLOOP CS    0&X1                                              4  1437  / 0|0               11
181  1 441         SBR   X1                                                4  1441  H 089               11
182  1 445         C     X1,BOTCLR  AT THE BOTTOM OF CORE TO CLEAR?        7  1445  C 089 W71           11
183  1 452         BU    CSLOOP     NO, CLEAR MORE                         5  1452  B U37 /             11
184  1 457         CW    0&X1                                              4  1457  ) 0|0               11
185  1 461         CW                                                      1  1461  )                   12
186  1 462         CW                                                      1  1462  )                   12
187  1 463  NEWX3  SBR   X3,0                                             7  1463  H 099 000           12
188  1 470         SW    0&X1,1&X3                                         7  1470  , 0|0 0?1           12
189  1 477         MCW   W3,X2                                             7  1477  M 859 094           12
190  1 484         BSS   SNAPSH,D                                          5  1484  B 333 D             12
191  1 489         SBR   CLEARL&3,GMWM                                    7  1489  H 710 W88           12
192  1 496         LCA   SHIFT,PHASID                                      7  1496  L W80 110           13
193  1 503         B     LOADNX                                            4  1503  B 700               13
194         *
195         * MOVE THE CODE TO ITS FINAL PLACE
196         *
197  1 507  FINDWM A     KP1,X2                                            7  1507  A W81 094           13
```

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SEQ PG LIN  LABEL   OP    OPERANDS                                          SFX CT  LOCN  INSTRUCTION TYPE  CARD
198  1 514  FINDW2  BW    *&5,1&X2                                             8  1514  V V26 0!1 1         13
199  1 522          B     FINDWM                                               4  1522  B V07               13
200  1 526          MCW   X2,X1                                               7  1526  M 094 089           13
201  1 533          MA    W3,X1                                                7  1533  # 859 089           14
202  1 540          LCA   0&X2,0&X1  MOVE ONE FIELD TO ITS FINAL PLACE         7  1540  L 0!0 0|0           14
203  1 547          C     X2,X3                                                7  1547  C 094 099           14
204  1 554          BU    FINDWM                                               5  1554  B V07 /             14
205  1 559          LCA   KB2,2&X3                                             7  1559  L W83 0?2           14
206  1 566          CW    1&X3                                                 4  1566  ) 0?1               14
207  1 570  TSTZON  BWZ   TSTCHR,X3,2  CLEAR MOVED-AWAY CODE                   8  1570  V V90 099 2         15
208  1 578          CS    0&X3                                                 4  1578  / 0?0               15
209  1 582          SBR   X3                                                   4  1582  H 099               15
210  1 586          B     TSTZON                                               4  1586  B V70               15
211  1 590  TSTCHR  BCE   CLR00F,X3-2,0                                       8  1590  B W10 097 0         15
212  1 598          CS    0&X3                                                 4  1598  / 0?0               15
213  1 602          SBR   X3                                                   4  1602  H 099               15
214  1 606          B     TSTCHR                                               4  1606  B V90               16
215  1 610  CLR00F  C     X3,X1                                                7  1610  C 099 089           16
216  1 617          BE    CLRFIN                                               5  1617  B W41 S             16
217  1 622          LCA   KB1,0&X3                                             7  1622  L W84 0?0           16
218  1 629          CW    0&X3                                                 4  1629  ) 0?0               16
219  1 633          SBR   X3                                                   4  1633  H 099               16
220  1 637          B     CLR00F                                               4  1637  B W10               16
221  1 641  CLRFIN  MCW   NSTMTS,X1                                           7  1641  M 183 089           17
222  1 648          MA    K15999,X1                                            7  1648  # W87 089           17
223  1 655          B     CSLOOP                                               4  1655  B U37               17
224          *
225          * DATA
226          *
227  1 663  K16000  DCW   16000                                              5  1663                      17
228  1 668  W5      DCW   #5                                                 5  1668                      17
229  1 671  BOTCLR  DSA   DOWNTO  TEST FOR BOTTOM OF CLEARING                3  1671  W99                 17
230  1 680  SHIFT   DCW   @SHIFT CFL@                                        9  1680                      18
231  1 681  KP1     DCW   &1                                                 1  1681                      18
232  1 683  KB2     DCW   #2                                                 2  1683                      18
233  1 684  KB1     DCW   #1                                                 1  1684                      18
234  1 687  K15999  DSA   15999                                              3  1687  I9I                 18
235  1 688  GMWM    DCW   @}@                                               1  1688              GMARK   18
236                 ORG   *&X00                                                    1700
237          DOWNTO EQU   *                                                     1699
238                 ORG   201                                                      0201
239    203          DSA   LOADDD    LOAD ADDRESS FOR CARD-TO-TAPE PROGRAM    3  0203  /75                 19
240                 EX    BEGINN                                                   B /75                 20
241                 END                                                            / 000 080
```

SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS
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	1688
K15999	1687	K16000	1663	KB1	1684	KB2	1683	KP1	1681	LOADDD	1175	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				