```
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 -- SHIFT CFL PHASE -- PHASE 50B                          PAGE    1

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

 101                JOB   FORTRAN COMPILER -- SHIFT CFL PHASE -- PHASE 50B
 102                CTL   6611
 103         *
 104         * CONSTANTS, FORMATS AND LIST STRINGS ARE MOVED INTO THEIR
 105         * OBJECT CORE-STORAGE LOCATIONS ABOVE ARRAY STORAGE.  ARRAY
 106         * STORAGE-AREA IS CLEARED.
 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         ARYSIZ EQU   160  TOTAL ARRAY SIZE & 2                           0160
 120         NEGARY EQU   163  16000 - ARYSIZ                                 0163
 121         ARYTOP EQU   194  TOP OF ARRAYS IN OBJECT CODE                   0194
 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         * STUFF FROM THE PREVIOUS PHASE
 131         *
 132         ADR5B  EQU   891                                                 0891
 133         ADR5   EQU   896                                                 0896
 134         CONV35 EQU   969  CONVERT ADDRESS IN ADR5 TO DIGITS IN ADR5B     0969
 135         TOOBIG EQU   1092                                                1092
 136         *
 137                ORG   1175                                                      1175
 138         LOADDD EQU   *&1          LOAD ADDRESS                           1175
 139  1 175  BEGINN C     TOPCOR,ARYTOP                                  7  1175  C 688 194            4
 140  1 182         BE    DONE                                           5  1182  B V49 S              4
 141  1 187         MCW   SEQTAB,X1                                      7  1187  M 148 089            4
 142  1 194         MCW   SEQTAB,X2                                      7  1194  M 148 094            4
 143  1 201         MA    NEGARY,X2                                      7  1201  # 163 094            4
 144  1 208         SBR   SX3&6,0&X3                                     7  1208  H U89 0?0            5
 145  1 215         CW    ADR5-2                                         4  1215  ) 894                5
 146  1 219         MCW   X2,ADR5                                        7  1219  M 094 896            5
 147  1 226         B     CONV35                                         4  1226  B 969                5
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SEQ PG LIN  LABEL   OP    OPERANDS                                    SFX CT  LOCN  INSTRUCTION TYPE  CARD
148  1 230          MCW   ADR5B,W5A                                     7  1230  M 891 V94           5
149  1 237          MCW   X3,ADR5                                       7  1237  M 099 896           5
150  1 244          B     CONV35                                        4  1244  B 969               6
151  1 248          MCW   ADR5B,W5B                                     7  1248  M 891 V99           6
152  1 255          C     W5A,W5B                                       7  1255  C V94 V99           6
153  1 262          BH    TOOBIG                                        5  1262  B |92 U             6
154  1 267          MCW   SEQTAB,ADR5                                   7  1267  M 148 896           6
155  1 274          B     CONV35                                        4  1274  B 969               6
156  1 278          MCW   ADR5B,W5C                                     7  1278  M 891 W04           7
157  1 285          MCW   ARYTOP,ADR5                                   7  1285  M 194 896           7
158  1 292          B     CONV35                                        4  1292  B 969               7
159  1 296          MCW   ADR5B,W5D                                     7  1296  M 891 W09           7
160  1 303          C     W5C,W5D                                       7  1303  C W04 W09           7
161  1 310          BL    NOSQMV                                        5  1310  B T93 T             7
162         *
163         * MOVE SEQUENCE NUMBER TABLE DOWN BY THE ARRAY SIZE
164         *
165  1 315  SEQMV  MA    KA001,X1                                      7  1315  # W12 089           8
166  1 322          MA    KA001,X2                                      7  1322  # W12 094           8
167  1 329          BW    SEQMV3,0&X1                                   8  1329  V T82 0|0 1         8
168  1 337          CW    0&X2                                          4  1337  ) 0!0              8
169  1 341          MN    0&X1,0&X2                                     7  1341  D 0|0 0!0           8
170  1 348          MZ    0&X1,0&X2                                     7  1348  Y 0|0 0!0           9
171  1 355  SEQMV2 CW    0&X1                                          4  1355  ) 0|0              9
172  1 359          C     X1,ARYTOP                                     7  1359  C 089 194           9
173  1 366          BU    SEQMV                                         5  1366  B T15 /             9
174  1 371          MCW   ARYTOP,X3                                    7  1371  M 194 099           9
175  1 378          B     NOSQV2                                        4  1378  B U00               9
176  1 382  SEQMV3 LCA   0&X1,0&X2                                     7  1382  L 0|0 0!0          10
177  1 389          B     SEQMV2                                        4  1389  B T55              10
178         *
179         * DON'T MOVE THE SEQUENCE NUMBER TABLE
180         *
181  1 393  NOSQMV MCW   SEQTAB,X3                                     7  1393  M 148 099          10
182  1 400  NOSQV2 BW    *&9,1&X3                                      8  1400  V U16 0?1 1        10
183  1 408          CW    FLAG                                          4  1408  ) W13              10
184  1 412          SW    1&X3                                          4  1412  , 0?1              10
185         *
186         * MOVE CONSTANTS AND STRINGS UP
187         *
188  1 416          MCW   TOPCOR,X1                                     7  1416  M 688 089          11
189  1 423          MCW   ARYTOP,X2                                     7  1423  M 194 094          11
190  1 430  MOVEUP LCA   0&X1,0&X2                                     7  1430  L 0|0 0!0          11
191  1 437          SBR   X2                                          4  1437  H 094              11
192  1 441          SBR   X1                                          4  1441  H 089              11
193  1 445          MA    ARYSIZ,X1                                   7  1445  # 160 089          11
194  1 452          C     X1,X3                                       7  1452  C 089 099          12
195  1 459          BU    MOVEUP                                      5  1459  B U30 /            12
196  1 464          BW    SX3,FLAG                                    8  1464  V U83 W13 1        12
197  1 472          MA    NEGARY,X3                                   7  1472  # 163 099          12
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SEQ PG LIN  LABEL   OP    OPERANDS                                        SFX CT  LOCN  INSTRUCTION TYPE  CARD
198  1 479          CW    1&X3                                             4  1479  ) 0?1               12
199  1 483  SX3     SBR   X3,0                                            7  1483  H 099 000           12
200  1 490          MA    NEGARY,83                                        7  1490  # 163 083           13
201  1 497          MA    NEGARY,TBLBOT                                    7  1497  # 163 145           13
202  1 504          MA    NEGARY,SEQTAB                                    7  1504  # 163 148           13
203  1 511          MCW   TOPCOR,X1                                        7  1511  M 688 089           13
204  1 518  CSLOOP  C     X1,ARYTOP                                        7  1518  C 089 194           13
205  1 525          BE    DONE                                             5  1525  B V49 S             14
206  1 530          MCW   KB1,0&X1                                        7  1530  M W14 0|0           14
207  1 537          CW    0&X1                                             4  1537  ) 0|0               14
208  1 541          SBR   X1                                               4  1541  H 089               14
209  1 545          B     CSLOOP                                           4  1545  B V18               14
210          *
211  1 549  DONE    BSS   SNAPSH,C                                        5  1549  B 333 C             14
212  1 554          SBR   TPREAD&6,838                                     7  1554  H 786 838           14
213  1 561          SBR   CLRBOT                                           4  1561  H 833               15
214  1 565          SBR   LOADXX&3,838                                     7  1565  H 796 838           15
215  1 572          SBR   CLEARL&3,GMWM                                    7  1572  H 710 W24           15
216  1 579          LCA   REPLAC,PHASID                                    7  1579  L W23 110           15
217  1 586          B     LOADNX                                           4  1586  B 700               15
218          *
219          * DATA
220          *
221  1 594  W5A     DCW   #5                                               5  1594                      15
222  1 599  W5B     DCW   #5                                               5  1599                      15
223  1 604  W5C     DCW   #5                                               5  1604                      16
224  1 609  W5D     DCW   #5                                               5  1609                      16
225  1 612  KA001   DSA   1                                                3  1612  001                 16
226  1 613  FLAG    DCW   #1                                               1  1613                      16
227  1 614  KB1     DCW   #1                                               1  1614                      16
228  1 623  REPLAC  DCW   @REPLACE 1@                                      9  1623                      16
229  1 624  GMWM    DCW   @}@                                             1  1624              GMARK   16
230                 ORG   201                                                      0201
231    203          DSA   LOADDD    LOAD ADDRESS FOR CARD-TO-TAPE PROGRAM  3  0203  /75                 17
232                 EX    BEGINN                                                   B /75               18
233                 END                                                            / 000 080
```

SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS
ADR5	896	ADR5B	891	ARYSIZ	160	ARYTOP	194	BEGINN	1175	CLEARL	707	CLRBOT	833
CONV35	969	CSLOOP	1518	DONE	1549	FLAG	1613	GMWM	1624	KA001	1612	KB1	1614
LOADDD	1175	LOADNX	700	LOADXX	793	MOVEUP	1430	NEGARY	163	NOSQMV	1393	NOSQV2	1400
PHASID	110	REPLAC	1623	SEQMV	1315	SEQMV2	1355	SEQMV3	1382	SEQTAB	148	SNAPSH	333
SX3	1483	TBLBOT	145	TOOBIG	1092	TOPCOR	688	TPREAD	780	W5A	1594	W5B	1599
W5C	1604	W5D	1609	X1	89	X2	94	X3	99				