```
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  1 175  BEGINN C     TOPCOR,ARYTOP                                  7  1175  C 688 194           4
 139  1 182         BE    DONE                                           5  1182  B V49 S             4
 140  1 187         MCW   SEQTAB,X1                                      7  1187  M 148 089           4
 141  1 194         MCW   SEQTAB,X2                                      7  1194  M 148 094           4
 142  1 201         MA    NEGARY,X2                                      7  1201  # 163 094           4
 143  1 208         SBR   SX3&6,0&X3                                     7  1208  H U89 0?0           5
 144  1 215         CW    ADR5-2                                         4  1215  ) 894               5
 145  1 219         MCW   X2,ADR5                                        7  1219  M 094 896           5
 146  1 226         B     CONV35                                         4  1226  B 969               5
 147  1 230         MCW   ADR5B,W5A                                      7  1230  M 891 V94           5
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SEQ PG LIN  LABEL   OP    OPERANDS                                    SFX CT  LOCN  INSTRUCTION TYPE  CARD
148  1 237          MCW   X3,ADR5                                       7  1237  M 099 896            5
149  1 244          B     CONV35                                        4  1244  B 969                6
150  1 248          MCW   ADR5B,W5B                                     7  1248  M 891 V99            6
151  1 255          C     W5A,W5B                                       7  1255  C V94 V99            6
152  1 262          BH    TOOBIG                                        5  1262  B |92 U              6
153  1 267          MCW   SEQTAB,ADR5                                  7  1267  M 148 896            6
154  1 274          B     CONV35                                        4  1274  B 969                6
155  1 278          MCW   ADR5B,W5C                                     7  1278  M 891 W04            7
156  1 285          MCW   ARYTOP,ADR5                                  7  1285  M 194 896            7
157  1 292          B     CONV35                                        4  1292  B 969                7
158  1 296          MCW   ADR5B,W5D                                     7  1296  M 891 W09            7
159  1 303          C     W5C,W5D                                       7  1303  C W04 W09            7
160  1 310          BIN   TESTMV,                                 V3M4  5  1310  B W24                7
161          *
162          * MOVE SEQUENCE NUMBER TABLE DOWN BY THE ARRAY SIZE
163          *
164  1 315  SEQMV  MA    KA001,X1                                      7  1315  # W12 089            8
165  1 322          MA    KA001,X2                                      7  1322  # W12 094            8
166  1 329          BW    SEQMV3,0&X1                                   8  1329  V T82 0|0 1          8
167  1 337          CW    0&X2                                          4  1337  ) 0!0                8
168  1 341          MN    0&X1,0&X2                                     7  1341  D 0|0 0!0            8
169  1 348          MZ    0&X1,0&X2                                     7  1348  Y 0|0 0!0            9
170  1 355  SEQMV2 CW    0&X1                                          4  1355  ) 0|0                9
171  1 359          C     X1,ARYTOP                                     7  1359  C 089 194            9
172  1 366          BU    SEQMV                                         5  1366  B T15 /              9
173  1 371          MCW   ARYTOP,X3                                     7  1371  M 194 099            9
174  1 378          B     NOSQV2                                        4  1378  B U00                9
175  1 382  SEQMV3 LCA   0&X1,0&X2                                     7  1382  L 0|0 0!0           10
176  1 389          B     SEQMV2                                        4  1389  B T55               10
177          *
178          * DON'T MOVE THE SEQUENCE NUMBER TABLE
179          *
180  1 393  NOSQMV MCW   SEQTAB,X3                                     7  1393  M 148 099           10
181  1 400  NOSQV2 BW    *&9,1&X3                                      8  1400  V U16 0?1 1         10
182  1 408          CW    FLAG                                          4  1408  ) W13               10
183  1 412          SW    1&X3                                          4  1412  , 0?1               10
184          *
185          * MOVE CONSTANTS AND STRINGS UP
186          *
187  1 416          MCW   TOPCOR,X1                                     7  1416  M 688 089           11
188  1 423          MCW   ARYTOP,X2                                     7  1423  M 194 094           11
189  1 430  MOVEUP LCA   0&X1,0&X2                                     7  1430  L 0|0 0!0           11
190  1 437          SBR   X2                                          4  1437  H 094               11
191  1 441          SBR   X1                                          4  1441  H 089               11
192  1 445          MA    ARYSIZ,X1                                   7  1445  # 160 089           11
193  1 452          C     X1,X3                                       7  1452  C 089 099           12
194  1 459          BU    MOVEUP                                      5  1459  B U30 /             12
195  1 464          BW    SX3,FLAG                                    8  1464  V U83 W13 1         12
196  1 472          MA    NEGARY,X3                                   7  1472  # 163 099           12
197  1 479          CW    1&X3                                        4  1479  ) 0?1               12
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SEQ PG LIN  LABEL  OP    OPERANDS                                        SFX CT  LOCN  INSTRUCTION TYPE  CARD

198  1 483  SX3    SBR   X3,0                                                 7  1483  H 099 000           12
199  1 490         MA    NEGARY,83                                            7  1490  # 163 083           13
200  1 497         MA    NEGARY,TBLBOT                                        7  1497  # 163 145           13
201  1 504         MA    NEGARY,SEQTAB                                        7  1504  # 163 148           13
202  1 511         MCW   TOPCOR,X1                                            7  1511  M 688 089           13
203  1 518  CSLOOP C     X1,ARYTOP                                            7  1518  C 089 194           13
204  1 525         BE    DONE                                                 5  1525  B V49 S             14
205  1 530         MCW   KB1,0&X1                                             7  1530  M W14 0|0           14
206  1 537         CW    0&X1                                                 4  1537  ) 0|0               14
207  1 541         SBR   X1                                                   4  1541  H 089               14
208  1 545         B     CSLOOP                                               4  1545  B V18               14
209         *
210  1 549  DONE   BSS   SNAPSH,C                                             5  1549  B 333 C             14
211  1 554         SBR   TPREAD&6,838                                         7  1554  H 786 838           14
212  1 561         SBR   CLRBOT                                               4  1561  H 833               15
213  1 565         SBR   LOADXX&3,838                                         7  1565  H 796 838           15
214  1 572         SBR   CLEARL&3,GMWM                                        7  1572  H 710 W34           15
215  1 579         LCA   REPLAC,PHASID                                        7  1579  L W23 110           15
216  1 586         B     LOADNX                                               4  1586  B 700               15
217         *
218         * DATA
219         *
220  1 594  W5A    DCW   #5                                                   5  1594                       15
221  1 599  W5B    DCW   #5                                                   5  1599                       15
222  1 604  W5C    DCW   #5                                                   5  1604                       16
223  1 609  W5D    DCW   #5                                                   5  1609                       16
224  1 612  KA001  DSA   1                                                    3  1612  001                 16
225  1 613  FLAG   DCW   #1                                                   1  1613                       16
226  1 614  KB1    DCW   #1                                                   1  1614                       16
227  1 623  REPLAC DCW   @REPLACE 1@                                          9  1623                       16
228  1 624  TESTMV BH    SEQMV                                  V3M4        5  1624  B T15 U             16
229  1 629         BIN   NOSQMV,                                V3M4        5  1629  B T93               17
230  1 634  GMWM   DCW   @}@                                                  1  1634              GMARK   17
231                EX    BEGINN                                                       B /75               18
232                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	1634	KA001	1612	KB1	1614
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	TESTMV	1624	TOOBIG	1092	TOPCOR	688	TPREAD	780	W5A	1594	W5B	1599
W5C	1604	W5D	1609	X1	89	X2	94	X3	99				