```
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 -- IF COND PHASE -- PHASE 44                             PAGE    1

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

 101               JOB   FORTRAN COMPILER -- IF COND PHASE -- PHASE 44
 102               CTL   6611
 103         *
 104         * IN-LINE INSTRUCTIONS ARE GENERATED FOR IF ( SENSE SWITCH I )
 105         * AND IF ( SENSE LIGHT I )
 106         *
 107         X1     EQU   89                                                           0089
 108         X2     EQU   94                                                           0094
 109         X3     EQU   99                                                           0099
 110         *
 111         * STUFF IN THE RESIDENT AREA
 112         *
 113         PHASID EQU   110  PHASE ID, FOR SNAPSHOT DUMPS                            0110
 114         GLOBER EQU   184  GLOBAL ERROR FLAG -- WM MEANS ERROR                     0184
 115         SNAPSH EQU   333  CORE DUMP SNAPSHOT                                      0333
 116         LOADNX EQU   700  LOAD NEXT OVERLAY                                       0700
 117         CLEARL EQU   707  CS AT START OF OVERLAY LOADER                           0707
 118         CDOVLY EQU   769  1 IF RUNNING FROM CARDS, N IF FROM TAPE                 0769
 119         *
 120                ORG   838                                                                 0838
 121         LOADDD EQU   *&1          LOAD ADDRESS                                    0838
 122     838  BEGINN BCE   DONE,0&X1,                                              8  0838  B 870 0|0           4
 123     846         MCW   0&X1,SEQNO                                              7  0846  M 0|0 U45           4
 124     853         MCW        CODE                                               1  0853  M                   4
 125     854         BCE   IFCOND,CODE,W  IF ( SENSE SWITCH I )                    8  0854  B 893 U42 W         4
 126     862         BCE   IFCOND,CODE,K  IF ( SENSE LIGHT I )                     8  0862  B 893 U42 K         4
 127     870  DONE   BSS   SNAPSH,C                                                5  0870  B 333 C             4
 128     875         SBR   CLEARL&3,GMWM                                           7  0875  H 710 W14           5
 129     882         LCA   CONT,PHASID                                             7  0882  L U69 110           5
 130     889         B     LOADNX                                                  4  0889  B 700               5
 131     893  IFCOND MCW   KLESS,2&X1                                              7  0893  M U70 0|2           5
 132     900         SBR   TSTLES&6,2&X1                                           7  0900  H S03 0|2           5
 133     907         LCA   0&X1,0&X3  SEQNO, CODE, GMWM                            7  0907  L 0|0 0?0           5
 134     914         SAR   X1                                                      4  0914  Q 089               6
 135     918         C     0&X3                                                    4  0918  C 0?0               6
 136     922         SAR   X3                                                      4  0922  Q 099               6
 137     926         LCA   1&X3,2&X3  REPLACE STATEMENT CODE WITH GMWM             7  0926  L 0?1 0?2           6
 138     933         SBR   X3                                                      4  0933  H 099               6
 139     937         MCW   0&X1,ON                                                 7  0937  M 0|0 U36           6
 140     944         MCW                                                           1  0944  M                   6
 141     945         SAR   X1                                                      4  0945  Q 089               7
 142     949         MZ    X2ZONE,ON-1                                             7  0949  Y U71 U35           7
 143     956         MZ    X2ZONE,OFF-1                                            7  0956  Y U71 U32           7
 144     963         BWZ   *&5,SEQNO,2                                             8  0963  V 975 U45 2         7
 145     971         B     *&9                                                     4  0971  B 983               7
 146     975         BWZ   *&15,SEQNO-2,2                                          8  0975  V 997 U43 2         7
 147     983         MCW   SEQNO,X2                                                7  0983  M U45 094           8
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                       FORTRAN COMPILER -- IF COND PHASE -- PHASE 44                          PAGE    2

PG LIN  LABEL  OP    OPERANDS                                             SFX CT  LOCN  INSTRUCTION TYPE  CARD

     990         MCW   0&X2,SEQNO                                              7  0990  M 0!0 U45            8
     997         B     MORE                                                    4  0997  B |20                8
            *
   1 001  BOTTOM C     0&X1                                                    4  1001  C 0|0                8
   1 005         SAR   X1                                                      4  1005  Q 089                8
   1 009         SBR   X3,4&X3                                                 7  1009  H 099 0?4            8
   1 016         B     BEGINN                                                  4  1016  B 838                8
            *
   1 020  MORE   MN    0&X1                                                    4  1020  D 0|0                9
   1 024         SAR   X1                                                      4  1024  Q 089                9
   1 028         BCE   SLITE,CODE,K                                            8  1028  B S54 U42 K          9
            *
            * IF ( SENSE SWITCH I ) ON, OFF
            *
   1 036         MCW   0&X1,CH                                                 7  1036  M 0|0 U72            9
   1 043         MCW   CH,*&8                                                  7  1043  M U72 |57            9
   1 050         BCE   OKSW,K0TO6,0                                            8  1050  B /02 U79 0          9
   1 058         B                                                             1  1058  B                    9
   1 059         B                                                             1  1059  B                   10
   1 060         B                                                             1  1060  B                   10
   1 061         B                                                             1  1061  B                   10
   1 062         B                                                             1  1062  B                   10
   1 063         B                                                             1  1063  B                   10
   1 064         CS    332                                                     4  1064  / 332               10
   1 068         CS                                                            1  1068  /                   10
   1 069         SW    GLOBER                                                  4  1069  , 184               11
   1 073         MN    SEQNO,246                                               7  1073  D U45 246           11
   1 080         MN                                                            1  1080  D                   11
   1 081         MN                                                            1  1081  D                   11
   1 082         MCW   ERR37                                                   4  1082  M V22               11
   1 086         W                                                             1  1086  2                   11
   1 087         BCV   *&5                                                     5  1087  B |96 @             11
   1 092         B     *&3                                                     4  1092  B |98               12
   1 096         CC    1                                                       2  1096  F 1                 12
   1 098         B     BOTTOM                                                  4  1098  B |01               12
            *
            * SENSE SWITCH NUMBER IS OK
            *
   1 102  OKSW   A     KP1,CH                                                  7  1102  A V23 U72           12
   1 109         MN    CH,BIN                                                  7  1109  D U72 U41           12
   1 116         MCW   ON,BIN-1                                                7  1116  M U36 U40           12
   1 123         MCW   OFF,X2                                                  7  1123  M U33 094           12
   1 130         MCW   0&X2,X2                                                 7  1130  M 0!0 094           13
   1 137         S     KP10,X2&1                                               7  1137  S V25 095           13
   1 144         C     SEQNO,X2                                                7  1144  C U45 094           13
   1 151         BE    SAME                                                    5  1151  B S39 S             13
   1 156         MCW   OFF,BRANCH                                              7  1156  M U33 U49           13
   1 163         LCA   BRANCH,0&X3                                             7  1163  L U49 0?0           14
   1 170         LCA   BIN                                                     4  1170  L U41               14
   1 174         SBR   X3                                                      4  1174  H 099               14
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                              FORTRAN COMPILER -- IF COND PHASE -- PHASE 44                              PAGE    3

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

 198  1 178  ALMOST C     0&X1                                                  4  1178  C 0|0               14
 199  1 182         SAR   X1                                                    4  1182  Q 089               14
 200  1 186         LCA   1&X1,0&X3                                             7  1186  L 0|1 0?0           14
 201  1 193         SBR   X3                                                    4  1193  H 099               14
 202  1 197  TSTLES BCE   BEGINN,0,<  NOT TOO BIG IF LESS-THAN NOT CLOBBERED    8  1197  B 838 000 <         15
 203  1 205         CS    332                                                   4  1205  / 332               15
 204  1 209         CS                                                          1  1209  /                   15
 205  1 210         CC    1                                                     2  1210  F 1                 15
 206  1 212         MCW   ERROR2,270                                            7  1212  M V61 270           15
 207  1 219         W                                                           1  1219  2                   15
 208  1 220         CC    1                                                     2  1220  F 1                 15
 209  1 222         BCE   HALT,CDOVLY,1                                         8  1222  B S35 769 1         16
 210  1 230         RWD   1                                                     5  1230  U %U1 R             16
 211  1 235  HALT   H     HALT                                                  4  1235  . S35               16
 212         *
 213  1 239  SAME   LCA   BIN,0&X3                                              7  1239  L U41 0?0           16
 214  1 246         SBR   X3                                                    4  1246  H 099               16
 215  1 250         B     ALMOST                                                4  1250  B /78               16
 216         *
 217  1 254  SLITE  MCW   0&X1,CH                                               7  1254  M 0|0 U72           16
 218  1 261         MCW   CH,1275                                               7  1261  M U72 S75           17
 219  1 268         BCE   OKLITE,K1234,0                                        8  1268  B T17 V65 0         17
 220  1 276         B                                                           1  1276  B                   17
 221  1 277         B                                                           1  1277  B                   17
 222  1 278         B                                                           1  1278  B                   17
 223  1 279         CS    332                                                   4  1279  / 332               17
 224  1 283         CS                                                          1  1283  /                   17
 225  1 284         SW    GLOBER                                                4  1284  , 184               18
 226  1 288         MN    SEQNO,245                                             7  1288  D U45 245           18
 227  1 295         MN                                                          1  1295  D                   18
 228  1 296         MN                                                          1  1296  D                   18
 229  1 297         MCW   ERR36                                                 4  1297  M W07               18
 230  1 301         W                                                           1  1301  2                   18
 231  1 302         BCV   *&5                                                   5  1302  B T11 @             18
 232  1 307         B     *&3                                                   4  1307  B T13               19
 233  1 311         CC    1                                                     2  1311  F 1                 19
 234  1 313         B     BOTTOM                                                4  1313  B |01               19
 235         *
 236  1 317  OKLITE MCW   K080,W3                                               7  1317  M W10 W13           19
 237  1 324         A     CH,W3                                                 7  1324  A U72 W13           19
 238  1 331         MCW   W3,BW-1                                               7  1331  M W13 U56           19
 239  1 338         MCW   OFF                                                   4  1338  M U33               19
 240  1 342         MCW   W3,SW                                                 7  1342  M W13 U61           20
 241  1 349         MCW   ON,X2                                                 7  1349  M U36 094           20
 242  1 356         MCW   0&X2,X2                                               7  1356  M 0!0 094           20
 243  1 363         S     KP10,X2&1                                             7  1363  S V25 095           20
 244  1 370         C     SEQNO,X2                                              7  1370  C U45 094           20
 245  1 377         BE    SAME2                                                 5  1377  B U12 S             21
 246  1 382         MCW   ON,BRANCH                                             7  1382  M U36 U49           21
 247  1 389         LCA   BRANCH,0&X3                                           7  1389  L U49 0?0           21
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                              FORTRAN COMPILER -- IF COND PHASE -- PHASE 44                                    PAGE    4

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

 248  1 396         LCA   SW                                                       4  1396  L U61               21
 249  1 400         LCA   BW                                                       4  1400  L U57               21
 250  1 404         SBR   X3                                                       4  1404  H 099               21
 251  1 408         B     ALMOST                                                   4  1408  B /78               21
 252  1 412  SAME2  LCA   SW,0&X3                                                  7  1412  L U61 0?0           22
 253  1 419         LCA   BW                                                       4  1419  L U57               22
 254  1 423         SBR   X3                                                       4  1423  H 099               22
 255  1 427         B     ALMOST                                                   4  1427  B /78               22
 256         *
 257         * DATA
 258         *
 259  1 433  OFF    DCW   #3                                                       3  1433                      22
 260  1 436  ON     DCW   #3                                                       3  1436                      22
 261  1 441  BIN    DCW   @B   &@                                                  5  1441                      22
 262  1 442  CODE   DCW   #1                                                       1  1442                      23
 263  1 445  SEQNO  DCW   #3                                                       3  1445                      23
 264  1 449  BRANCH DCW   @B   @                                                   4  1449                      23
 265  1 457  BW     DCW   @V      1@                                               8  1457                      23
 266  1 461  SW     DCW   @,   @                                                   4  1461                      23
 267  1 469  CONT   DCW   @CONTINUE@                                               8  1469                      23
 268  1 470  KLESS  DCW   @<@                                                      1  1470                      23
 269  1 471  X2ZONE DCW   @K@                                                      1  1471                      24
 270  1 472  CH     DCW   #1                                                       1  1472                      24
 271  1 479  K0TO6  DCW   @0123456@                                                7  1479                      24
 272  1 522  ERR37  DCW   @ERROR 37 - ILLEGAL SENSE SWITCH, STATEMENT @           43  1522                      26
 273  1 523  KP1    DCW   &1                                                       1  1523                      26
 274  1 525  KP10   DCW   &10                                                      2  1525                      26
 275  1 561  ERROR2 DCW   @MESSAGE 2 - OBJECT PROGRAM TOO LARGE@                  36  1561                      27
 276  1 565  K1234  DCW   1234                                                     4  1565                      28
 277  1 607  ERR36  DCW   @ERROR 36 - ILLEGAL SENSE LIGHT, STATEMENT @            42  1607                      30
 278  1 610  K080   DSA   80                                                       3  1610  080                 30
 279  1 613  W3     DCW   #3                                                       3  1613                      30
 280  1 614  GMWM   DCW   @}@                                                      1  1614             GMARK   30
 281                ORG   201                                                              0201
 282    203         DSA   LOADDD    LOAD ADDRESS FOR CARD-TO-TAPE PROGRAM          3  0203  838                 31
 283                EX    BEGINN                                                            B 838               32
 284                END                                                                     / 000 080
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SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS
ALMOST	1178	BEGINN	838	BIN	1441	BOTTOM	1001	BRANCH	1449	BW	1457	CDOVLY	769
CH	1472	CLEARL	707	CODE	1442	CONT	1469	DONE	870	ERR36	1607	ERR37	1522
ERROR2	1561	GLOBER	184	GMWM	1614	HALT	1235	IFCOND	893	K080	1610	K0TO6	1479
K1234	1565	KLESS	1470	KP1	1523	KP10	1525	LOADDD	838	LOADNX	700	MORE	1020
OFF	1433	OKLITE	1317	OKSW	1102	ON	1436	PHASID	110	SAME	1239	SAME2	1412
SEQNO	1445	SLITE	1254	SNAPSH	333	SW	1461	TSTLES	1197	W3	1613	X1	89
X2	94	X2ZONE	1471	X3	99								