```
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
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                     FORTRAN COMPILER -- RESORT 1 PHASE -- PHASE 47                              PAGE   1

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

 101                JOB   FORTRAN COMPILER -- RESORT 1 PHASE -- PHASE 47
 102                CTL   6611
 103         *
 104         * AN AREA IS MADE AVAILABLE FOR A TABLE TO ASSIST IN RESORTING
 105         * THE STATEMENTS INTO THEIR ORIGINAL ORDER.
 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         DOCNT  EQU   151  COUNT OF DO STATEMENTS                          0151
 115         NSTMTS EQU   183  NUMBER OF STATEMENTS, INCLUDING GENERATED STOP  0183
 116         SNAPSH EQU   333  CORE DUMP SNAPSHOT                              0333
 117         LOADNX EQU   700  LOAD NEXT OVERLAY                               0700
 118         CLEARL EQU   707  CS AT START OF OVERLAY LOADER                   0707
 119         CDOVLY EQU   769  1 IF RUNNING FROM CARDS, N IF FROM TAPE         0769
 120         TPREAD EQU   780  TAPE READ INSTRUCTION IN OVERLAY LOADER         0780
 121         LOADXX EQU   793  EXIT FROM OVERLAY LOADER                        0793
 122         CLRBOT EQU   833  BOTTOM OF CORE TO CLEAR IN OVERLAY LOADER       0833
 123         *
 124         SORTAB EQU   2499  SORT TABLE                                    2499
 125         *
 126                ORG   838                                                       0838
 127         LOADDD EQU   *&1          LOAD ADDRESS                           0838
 128  838    W1     DCW   0                                          1  0838                       4
 129  841    TOPA   DCW   000  TABBOT PLUS 3 X NUMBER OF STATEMENTS   3  0841                       4
 130  844           DCW   000                                        3  0844                       4
 131  847    TABBOT DCW   000  BOTTOM OF RESORT TABLE                 3  0847                       4
 132  850           DCW   000                                        3  0850                       4
 133  853           DCW   000                                        3  0853                       4
 134  856    SX3    DCW   000                                        3  0856                       4
 135  859           DCW   000                                        3  0859                       5
 136  862    TOPC   DCW   000  TABBOT PLUS 3 X NUMBER OF STATEMENTS PLUS 1  3  0862                 5
 137  865           DCW   000                                        3  0865                       5
 138  870    TOPC5  DCW   00000  TOPC AS FIVE DIGITS                  5  0870                       5
 139  875    TIMES6 DCW   00000  DOCNT TIMES 6                        5  0875                       5
 140  880    W5     DCW   00000                                      5  0880                       5
 141  883    TOPB   DCW   000  TABBOT PLUS 3 X NUMBER OF STATEMENTS PLUS 1  3  0883                 5
 142  884           DCW   0                                          1  0884                       6
 143  886    ZONTST DCW   99   FOR TESTING ZONES                     2  0886                       6
 144  891    ADR5B  DCW   #5                                         5  0891                       6
 145  896    ADR5   DCW   #5                                         5  0896                       6
 146  898    ZONES  DCW   @99@                                       2  0898                       6
 147  900           DCW   @Z9@                                       2  0900                       6
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                    FORTRAN COMPILER -- RESORT 1 PHASE -- PHASE 47                           PAGE    2

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

 148    902         DCW   @R9@                                        2   0902                        6
 149    904         DCW   @I9@                                        2   0904                        7
 150    906         DCW   @9Z@                                        2   0906                        7
 151    908         DCW   @ZZ@                                        2   0908                        7
 152    910         DCW   @RZ@                                        2   0910                        7
 153    912         DCW   @IZ@                                        2   0912                        7
 154    914         DCW   @9R@                                        2   0914                        7
 155    916         DCW   @ZR@                                        2   0916                        7
 156    918         DCW   @RR@                                        2   0918                        8
 157    920         DCW   @IR@                                        2   0920                        8
 158    922         DCW   @9I@                                        2   0922                        8
 159    924         DCW   @ZI@                                        2   0924                        8
 160    926         DCW   @RI@                                        2   0926                        8
 161    928         DCW   @II@                                        2   0928                        8
 162         *
 163         * CONVERT FIVE-DIGIT ADDRESS IN ADR5 TO MACHINE FORM
 164         *
 165    929 CONV53 SBR   CONV5X&3                                     4   0929  H 968               8
 166    933         ZA    ADR5-3,X1                                   7   0933  ? 893 089            9
 167    940         MZ    NOZONE,X1                                   7   0940  Y /26 089            9
 168    947         A     X1                                          4   0947  A 089                9
 169    951         MZ    ZONES-1&X1,ADR5-2                           7   0951  Y 8Z7 894            9
 170    958         MZ    ZONES&X1,ADR5                               7   0958  Y 8Z8 896            9
 171    965 CONV5X B     0-0                                          4   0965  B 000                9
 172         *
 173         * CONVERT THREE-CHARACTER ADDRESS IN ADR5 TO FIVE DIGITS IN ADR5B
 174         *
 175    969 CONV35 SBR   CONV3X&3                                     4   0969  H |24               10
 176    973         MCW   K5B,ADR5B                                   7   0973  M /31 891            10
 177    980         MN    ADR5,ADR5B                                  7   0980  D 896 891            10
 178    987         MN                                                1   0987  D                    10
 179    988         MN                                                1   0988  D                    10
 180    989         MZ    ADR5,ZONTST                                 7   0989  Y 896 886            10
 181    996         MZ    ADR5-2,ZONTST-1                             7   0996  Y 894 885            10
 182  1 003         MCW   AZONES,*&11                                 7   1003  M /34 |20            11
 183  1 010         S     ADR5                                        4   1010  S 896                11
 184  1 014 TSTZON C     ZONTST,0-0                                   7   1014  C 886 000            11
 185  1 021 CONV3X BE    0-0                                          5   1021  B 000 S              11
 186  1 026         A     K1,ADR5B-3                                  7   1026  A /35 888            11
 187  1 033         SW    TSTZON&4                                    4   1033  , |18                11
 188  1 037         A     K002,TSTZON&6                               7   1037  A /38 |20            12
 189  1 044         CW    TSTZON&4                                    4   1044  ) |18                12
 190  1 048         B     TSTZON                                      4   1048  B |14                12
 191         *
 192         * FIND NEXT HIGHER GMWM.  LEAVE ITS ADDRESS & 1 IN X3.
 193         *
 194  1 052 FINDGM SBR   FINDGX&3                                     4   1052  H |91               12
 195  1 056         MN    0&X3                                        4   1056  D 0?0               12
 196  1 060         SAR   X3                                          4   1060  Q 099               12
 197  1 064 MORE   MCM   1&X3                                         4   1064  P 0?1               12
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                    FORTRAN COMPILER -- RESORT 1 PHASE -- PHASE 47                              PAGE    3


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

198  1 068         MN                                          1  1068  D                      13
199  1 069         SBR    X3                                   4  1069  H 099                  13
200  1 073         BCE    MORE,0&X3,|                           8  1073  B |64 0?0 |            13
201  1 081         SBR    X3,1&X3                              7  1081  H 099 0?1              13
202  1 088  FINDGX B      0-0                                  4  1088  B 000                  13
203         *
204         * PROGRAM IS TOO BIG
205         *
206  1 092  TOOBIG CS     332                                  4  1092  / 332                  13
207  1 096         CS                                          1  1096  /                      13
208  1 097         CC     1                                    2  1097  F 1                    14
209  1 099         MCW    ERROR2,270                           7  1099  M /74 270              14
210  1 106         W                                           1  1106  2                      14
211  1 107         CC     1                                    2  1107  F 1                    14
212  1 109         BCE    HALT,CDOVLY,1                        8  1109  B /22 769 1            14
213  1 117         RWD    1                                    5  1117  U %U1 R                14
214  1 122  HALT   H      HALT                                 4  1122  . /22                  14
215         *
216  1 126  NOZONE DCW    #1                                   1  1126                         15
217  1 131  K5B    DCW    #5                                   5  1131                         15
218  1 134  AZONES DSA    ZONES                                3  1134  898                    15
219  1 135  K1     DCW    1                                    1  1135                         15
220  1 138  K002   DCW    002                                  3  1138                         15
221  1 174  ERROR2 DCW    @MESSAGE 2 - OBJECT PROGRAM TOO LARGE@  36  1174                     16
222         *
223  1 175  BEGINN SBR    SX3,0&X3                             7  1175  H 856 0?0              17
224  1 182         SBR    X1,SORTAB                            7  1182  H 089 M99              17
225  1 189         SBR    TABBOT  BOTTOM OF CODE IN LOW CORE   4  1189  H 847                  17
226  1 193         MCW    NSTMTS,*&14                          7  1193  M 183 S13              17
227  1 200         MZ     X1ZONE,*&6                           7  1200  Y V23 S12              17
228  1 207  NSX3   SBR    X1,0    COMPUTE                      7  1207  H 089 000              17
229  1 214         A      K1A,W1    TABBOT PLUS                7  1214  A V24 838              18
230  1 221         C      W1,K3       NUMBER OF STATEMENTS     7  1221  C 838 V25              18
231  1 228         BH     NSX3        TIMES 3                  5  1228  B S07 U                18
232  1 233         SBR    TOPA,0&X1                            7  1233  H 841 0|0              18
233  1 240         SBR    TOPB,1&X1                            7  1240  H 883 0|1              18
234  1 247         MCW    KB,W1                                7  1247  M V26 838              19
235  1 254         BCE    *&5,DOCNT,                           8  1254  B S66 151              19
236  1 262         B      HAVE                                 4  1262  B S92                  19
237  1 266         SBR    TOPC,1&X1                            7  1266  H 862 0|1              19
238  1 273         SBR    ADR5                                 4  1273  H 896                  19
239  1 277         B      CONV35                               4  1277  B 969                  19
240  1 281         MCW    ADR5B,TOPC5                          7  1281  M 891 870              20
241  1 288         B      NOT                                  4  1288  B T61                  20
242  1 292  HAVE   MCW    DOCNT,TIMES6                         7  1292  M 151 875              20
243  1 299         A      TIMES6                               4  1299  A 875                  20
244  1 303         A      TIMES6                               4  1303  A 875                  20
245  1 307         A      DOCNT                                4  1307  A 151                  20
246  1 311         A      DOCNT,TIMES6                         7  1311  A 151 875              20
247  1 318         SBR    ADR5,1&X1                            7  1318  H 896 0|1              21
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SEQ PG LIN  LABEL  OP    OPERANDS                                SFX CT  LOCN  INSTRUCTION TYPE  CARD

248  1 325         B     CONV35                                    4 1325  B 969                   21
249  1 329         MCW   ADR5B,TOPC5                               7 1329  M 891 870               21
250  1 336         A     TIMES6,TOPC5                              7 1336  A 875 870               21
251  1 343         MCW   TOPC5,ADR5                                7 1343  M 870 896               21
252  1 350         B     CONV53                                    4 1350  B 929                   21
253  1 354         MCW   ADR5,TOPC                                 7 1354  M 896 862               22
254  1 361  NOT    MCW   SX3,ADR5                                  7 1361  M 856 896               22
255  1 368         B     CONV35                                    4 1368  B 969                   22
256  1 372         MCW   ADR5B,W5                                  7 1372  M 891 880               22
257  1 379         C     TOPC5,W5                                  7 1379  C 870 880               22
258  1 386         BH    *&5                                       5 1386  B T95 U                 22
259  1 391         B     TOOBIG                                    4 1391  B |92                   23
260  1 395         CC    1                                         2 1395  F 1                     23
261  1 397         CS    332                                       4 1397  / 332                   23
262  1 401         CS                                              1 1401  /                       23
263  1 402         MCW   STRTNG,243                                7 1402  M V56 243               23
264  1 409         W                                               1 1409  2                       23
265  1 410         CC    K                                         2 1410  F K                     23
266  1 412         CS    332                                       4 1412  / 332                   24
267  1 416         CS                                              1 1416  /                       24
268  1 417         MCW   SEQ,208                                   7 1417  M V59 208               24
269  1 424         MCW   STRTA,242                                 7 1424  M V75 242               24
270  1 431         MCW   DISPLA,256                                7 1431  M V82 256               24
271  1 438         W                                               1 1438  2                       24
272  1 439         CC    J                                         2 1439  F J                     24
273  1 441         CS    332                                       4 1441  / 332                   25
274  1 445         CS                                              1 1445  /                       25
275  1 446         LCA   K000,208                                  7 1446  L V85 208               25
276  1 453         MCW   SX3,X1                                    7 1453  M 856 089               25
277  1 460         SBR   X1,2&X1                                   7 1460  H 089 0|2               25
278  1 467         SBR   X3                                        4 1467  H 099                   25
279  1 471         B     FINDGM                                    4 1471  B |52                   25
280  1 475         MCW   X3,X2                                     7 1475  M 099 094               26
281  1 482         BSS   SNAPSH,C                                  5 1482  B 333 C                 26
282  1 487         SBR   TPREAD&6,1175                             7 1487  H 786 /75               26
283  1 494         SBR   CLRBOT                                    4 1494  H 833                   26
284  1 498         SBR   LOADXX&3,1175                             7 1498  H 796 /75               26
285  1 505         SBR   CLEARL&3,GMWM                             7 1505  H 710 V94               26
286  1 512         LCA   RESORT,PHASID                             7 1512  L V93 110               27
287  1 519         B     LOADNX                                    4 1519  B 700                   27
288         *
289         * DATA
290         *
291  1 523  X1ZONE DCW   @Z@                                       1 1523                          27
292  1 524  K1A    DCW   1                                         1 1524                          27
293  1 525  K3     DCW   3                                         1 1525                          27
294  1 526  KB     DCW   #1                                        1 1526                          27
295  1 556  STRTNG DCW   @STARTING ADDRESS OF STATEMENTS@         30 1556                          28
296  1 559  SEQ    DCW   @SEQ@                                     3 1559                          28
297  1 575  STRTA  DCW   @STARTING ADDRESS@                       16 1575                          29
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                    FORTRAN COMPILER -- RESORT 1 PHASE -- PHASE 47   PAGE   5

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

298 1 582 DISPLA DCW   @DISPLAY@   7 1582   29
299 1 585 K000   DCW   000   3 1585   29
300 1 593 RESORT DCW   @RESORT 2@   8 1593   29
301 1 594 GMWM   DCW   @}@   1 1594   GMARK   29
302   ORG   201   0201
303   203   DSA   LOADDD   LOAD ADDRESS FOR CARD-TO-TAPE PROGRAM   3 0203 838   30
304   EX   BEGINN   B /75   31
305   END   / 000 080

SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS
ADR5	896	ADR5B	891	AZONES	1134	BEGINN	1175	CDOVLY	769	CLEARL	707	CLRBOT	833
CONV35	969	CONV3X	1021	CONV53	929	CONV5X	965	DISPLA	1582	DOCNT	151	ERROR2	1174
FINDGM	1052	FINDGX	1088	GMWM	1594	HALT	1122	HAVE	1292	K000	1585	K002	1138
K1	1135	K1A	1524	K3	1525	K5B	1131	KB	1526	LOADDD	838	LOADNX	700
LOADXX	793	MORE	1064	NOT	1361	NOZONE	1126	NSTMTS	183	NSX3	1207	PHASID	110
RESORT	1593	SEQ	1559	SNAPSH	333	SORTAB	2499	STRTA	1575	STRTNG	1556	SX3	856
TABBOT	847	TIMES6	875	TOOBIG	1092	TOPA	841	TOPB	883	TOPC	862	TOPC5	870
TPREAD	780	TSTZON	1014	W1	838	W5	880	X1	89	X1ZONE	1523	X2	94
X3	99	ZONES	898	ZONTST	886								