```
SEQ PG LIN  LABEL  OP    OPERANDS                                          SFX CT  LOCN  INSTRUCTION TYPE  CARD A-ADDR  B-ADDR

101                JOB   FORTRAN COMPILER -- RESORT 2 PHASE -- PHASE 48
102                CTL   6611
103         *
104         * THE RESORT TABLE IS FILLED WITH THE CURRENT LOCATION
105         * OF EACH STATEMENT.
106         *
107         * ON ENTRY, X1 AND X2 ARE THE BOTTOM OF THE PREFIX OF THE
108         * BOTTOMMOST STATEMENT IN HIGH CORE, AND X3 IS THE BOTTOM
109         * OF THE BOTTOMMOST STATEMENT IN HIGH CORE.
110         *
111         X1     EQU   89                                                      0089
112         X2     EQU   94                                                      0094
113         X3     EQU   99                                                      0099
114         *
115         * STUFF IN THE RESIDENT AREA
116         *
117         SEQTAB EQU   148  BOTTOM OF SEQUENCE NUMBER TABLE - 2               0148
118         NSTMTS EQU   183  NUMBER OF STATEMENTS, INCLUDING GENERATED STOP    0183
119         *                 BEGINNING OF GENERATED CODE ON EXIT.
120         *
121                EXT00   SNAPSH, LOADNX, CDOVLY                                                MACRO
122         SNAPSH EQU   333                                                     0333              GEN
123         PHASLD EQU   381                                                     0381              GEN
124         SNAPEX EQU   564                                                     0564              GEN
125         LOADNX EQU   700   CARD OVERLAY UNLESS NOP                         0700              GEN
126         CDOVLY EQU   700   1 IF LOADING FROM CARDS, N IF FROM TAPE         0700              GEN
127         TPREAD EQU   704   LOAD OVERLAY FROM TAPE                          0704              GEN
128         TPERR  EQU   728                                                     0728              GEN
129         *
130                EXT47   STUFF IN RESORT ONE PHASE -- 47                                        MACRO
131         TOPA   EQU   841   TABBOT PLUS 3 X NUMBER OF STATEMENTS            0841              GEN
132         SX3A   EQU   844   USED ONLY IN PHASE 48 AND 49                    0844              GEN
133         TABBOT EQU   847   BOTTOM OF RESORT TABLE                         0847              GEN
134         NEXT   EQU   850   USED ONLY IN PHASE 49                          0850              GEN
135         SX2    EQU   853   USED ONLY IN PHASE 48 AND 49                    0853              GEN
136         SX3B   EQU   856                                                   0856              GEN
137         W3     EQU   859   USED ONLY IN PHASE 48 AND 49                    0859              GEN
138         TOPC   EQU   862   TABBOT PLUS 3 X NUMBER OF STATEMENTS PLUS 1     0862              GEN
139         SEQNO  EQU   865   USED ONLY IN PHASE 48 AND 49                    0865              GEN
140         TOPC5  EQU   870   TOPC AS FIVE DIGITS                            0870              GEN
141         TIMES6 EQU   875   DOCNT TIMES 6                                  0875              GEN
142         W5     EQU   880   USED ONLY IN PHASE 49                          0880              GEN
143         TOPB   EQU   883   TABBOT PLUS 3 X NUMBER OF STATEMENTS PLUS 1     0883              GEN
144         FLAG   EQU   884   USED ONLY IN PHASE 48 AND 49                    0884              GEN
145         ADR5B  EQU   891                                                   0891              GEN
146         ADR5   EQU   896                                                   0896              GEN
147         CONV53 EQU   929                                                   0929              GEN
148         CONV35 EQU   969                                                   0969              GEN
149         FINDGM EQU   1052                                                  1052              GEN
150         TOOBIG EQU   1092                                                  1092              GEN
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SEQ PG LIN  LABEL   OP    OPERANDS                                                SFX CT  LOCN  INSTRUCTION TYPE  CARD A-ADDR  B-ADDR

151         BEGN47  EQU   1175                                                          1175        GEN
152                 EXT49   STUFF IN RESORT THREE PHASE -- 49                                      MACRO
153         TABEL   EQU   2499                                                          2499        GEN
154         *
155         SORTAB  EQU   TABEL  SORT TABLE                                             2499
156         *
157         PHAS48  LDPH  RESORT TWO,LOADAD,BEGN48,,,48                                         MACRO
            * PHAZ   LDPH [PHASID],LOADAD,ENTAD[,SKIPFG,SKIP],[NUMBER][,HALT]                   GEN
            *        XFR  PHASZ     PROHIBITED IN A MACRO                                       GEN
            *                                                                                  GEN
            * LOAD A BLOCK                                                                     GEN
            *                                                                                  GEN
158         )6J004  EQU   110  PHASE ID                                                0110        GEN
159         )6K004  EQU   700  LOAD NEXT PHASE                                         0700        GEN
160         )6L004  EQU   704  TAPE READ INSTRUCTION                                   0704        GEN
161         )6M004  EQU   728  TAPE ERROR HANDLER                                      0728        GEN
            *                                                                                  GEN
162                 ORG   201                                                                0201
163         PHAS48  BSS   )8J004,G                                                5  0201  B 257 G     GEN      1   257
164                 NOP     TO PATCH IN TRAPS FOR DEBUGGING                       1  0206  N           GEN      1
165         )0J004  EQU   *&1                                                           0207        GEN
166                 LCA   )9J004,)6J004                                           7  0207  L 282 110   GEN      1   282     110
167                 BCE   )1J004,)6K004,1    Q: LOADING FROM CARDS?               8  0214  B 250 700 1 GEN      1   250     700
168                 BCE   )1J004,)6L004&4,0  Q: LOADING FROM AUTOCODER TAPE?       8  0222  B 250 708 0 GEN      1   250     708
169                 RTW   1,LOADAD           READ THE BLOCK                       8  0230  L %U1 /75 R GEN      1   %U1    1175
170                 BER   )6M004             Q: TAPE ERROR?                       5  0238  B 728 L     GEN      2   728
171                 CS    BEGN48,)9R004      ENTER THE BLOCK                      7  0243  / /75 286   GEN      2  1175     286
172         )1J004  CS    )6K004,)9R004      LOAD CARDS OR AUTOCODER TAPE         7  0250  / 700 286   GEN      2   700     286
173         )8J004  SW    )9R004                                                 4  0257  , 286       GEN      2   286
174                 MU    %T0,)8K004,W                                           8  0261  M %T0 273 W GEN      2   %T0     273
175                 H     )0J004                                                 4  0269  . 207       GEN      2   207
176         )8K004  EQU   *&1                                                           0273        GEN
177         )9J004  DCW   @RESORT TWO@          PHASE ID                        10  0282              GEN      3
178                 DCW   #1                                                     1  0283              GEN      3
179                 DC    @48@          PHASE NUMBER                             2  0285              GEN      3
180         )9R004  DCW   @}@                                                    1  0286              GEN      3
181                 XFR   PHAS48                                                         B 201               4   201
182         *
183                 ORG   BEGN47                                                          1175
184         LOADAD  EQU   *&1          LOAD ADDRESS                                1175
185  1 175  BEGN48  MCW   TOPB,X3                                                 7  1175  M 883 099           5   883     099
186  1 182          B     FIRST                                                    4  1182  B S25               5  1225
187  1 186  LOOP    SBR   X2,2&X2                                                 7  1186  H 094 0!2           5   094     002+2
188  1 193          MZ    X3,SX3A                                                  7  1193  Y 099 844           5   099     844
189  1 200          MCW   X2,X3                                                   7  1200  M 094 099           5   094     099
190  1 207          B     FINDGM                                                   4  1207  B |52               5  1052
191  1 211          MCW   X3,X2                                                   7  1211  M 099 094           6   099     094
192  1 218          MCW   SX3A,X3                                                 7  1218  M 844 099           6   844     099
193  1 225  FIRST   SBR   SX2,2&X2                                                7  1225  H 853 0!2           6   853     002+2
194  1 232          BWZ   *&5,0&X2,2                                              8  1232  V S44 0!0 2         6  1244     000+2
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SEQ PG LIN  LABEL  OP    OPERANDS                                          SFX CT  LOCN  INSTRUCTION TYPE  CARD A-ADDR  B-ADDR

195  1 240         B     *&9                                                  4  1240  B S52               6  1252
196  1 244         BWZ   *&19,2&X2,2                                          8  1244  V S70 0!2 2         7  1270     002+2
197  1 252         MCW   2&X2,X2                                              7  1252  M 0!2 094           7   002+2   094
198  1 259         MCW   0&X2,X2  GET SEQUENCE NUMBER FROM TABLE TO X2         7  1259  M 0!0 094           7   000+2   094
199  1 266         B     *&8                                                  4  1266  B S77               7  1277
200  1 270         MCW   2&X2,X2  GET SEQUENCE NUMBER TO X2                   7  1270  M 0!2 094           7   002+2   094
201  1 277         SBR   SEQNO,0&X2                                          7  1277  H 865 0!0           8   865     000+2
202  1 284         SBR   *&14                                                 4  1284  H T01               8  1301
203  1 288         MZ    X2ZONE,*&6                                           7  1288  Y W36 T00           8  1636    1300
204  1 295         SBR   X2,0                                                7  1295  H 094 000           8   094     000
205  1 302         MCW   SEQNO,*&14                                           7  1302  M 865 T22           8   865    1322
206  1 309         MZ    X2ZONE,*&6                                           7  1309  Y W36 T21           8  1636    1321
207  1 316         SBR   X2,0     DOUBLE SEQUENCE NUMBER THE HARD WAY???       7  1316  H 094 000           9   094     000
208  1 323         C     SORTAB&X2,KB3  SORT TABLE ENTRY EMTPY?               7  1323  C MR9 W39           9  2499+2  1639
209  1 330         BU    *&12     NO                                          5  1330  B T46 /             9  1346
210  1 335         MCW   X1,SORTAB&X2                                        7  1335  M 089 MR9           9   089    2499+2
211  1 342         B     LINKED                                               4  1342  B T96               9  1396
212  1 346         SW    3&X3     LINK ANOTHER STATEMENT                      4  1346  , 0?3               9   003+3
213  1 350         MCW   SORTAB&X2,5&X3  OF THE SAME SEQUENCE NUMBER          7  1350  M MR9 0?5          10  2499+2   005+3
214  1 357         CW    3&X3              TO THE TABLE.  THIS CAN           4  1357  ) 0?3              10   003+3
215  1 361         MCW   X1,2&X3             HAPPEN WITH                     7  1361  M 089 0?2          10   089     002+3
216  1 368         MCW   K1,FLAG               DO STATEMENTS                 7  1368  M W40 884          10  1640     884
217  1 375         SBR   SORTAB&X2,2&X3                                       7  1375  H MR9 0?2          10  2499+2   002+3
218  1 382         MZ    X1ZONE,SORTAB-1&X2  MARK FIRST AS LINKED            7  1382  Y W41 MR8          10  1641    2498+2
219  1 389         SBR   X3,6&X3                                             7  1389  H 099 0?6          11   099     006+3
220  1 396  LINKED MCW   SX2,X2                                              7  1396  M 853 094          11   853     094
221  1 403         C     SEQTAB,SX2                                           7  1403  C 148 853          11   148     853
222  1 410         BU    WHAT                                                 5  1410  B V71 /            11  1571
223  1 415         BCE   ONE,FLAG,0                                          8  1415  B U48 884 0        11  1448     884
224  1 423         MCW   K0,FLAG                                             7  1423  M W42 884          12  1642     884
225  1 430         MCW   X1,X3                                               7  1430  M 089 099          12   089     099
226  1 437         B     FINDGM                                               4  1437  B |52              12  1052
227  1 441         MZ    X1ZONE,1&X3                                          7  1441  Y W41 0?1          12  1641     001+3
228  1 448  ONE    MCW   TOPC,X2                                             7  1448  M 862 094          12   862     094
229  1 455         LCA   COLON,0&X2                                           7  1455  L W43 0!0          12  1643     000+2
230  1 462         MCW   TABBOT,X3                                            7  1462  M 847 099          13   847     099
231  1 469         SBR   X3,3&X3                                             7  1469  H 099 0?3          13   099     003+3
232  1 476         MCW   86,ADR5                                              7  1476  M 086 896          13   086     896
233  1 483         B     CONV35                                               4  1483  B 969              13   969
234  1 487         MCW   ADR5B,TOPC5                                          7  1487  M 891 870          13   891     870
235  1 494         SBR   ADR5,0&X2                                            7  1494  H 896 0!0          13   896     000+2
236  1 501         B     CONV35                                               4  1501  B 969              14   969
237  1 505         MCW   ADR5B,TIMES6                                         7  1505  M 891 875          14   891     875
238  1 512         S     TIMES6,TOPC5                                         7  1512  S 875 870          14   875     870
239  1 519         BM    *&5,TOPC5                                            8  1519  V V31 870 K        14  1531     870
240  1 527         B     *&8                                                  4  1527  B V38              14  1538
241  1 531         A     K16K,TOPC5                                           7  1531  A W48 870          14  1648     870
242  1 538         MCW   TOPC5,ADR5                                          7  1538  M 870 896          15   870     896
243  1 545         B     CONV53                                               4  1545  B 929              15   929
244  1 549         MCW   ADR5,W3                                             7  1549  M 896 859          15   896     859
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SEQ PG LIN  LABEL   OP    OPERANDS                                        SFX CT  LOCN  INSTRUCTION TYPE  CARD A-ADDR  B-ADDR

245  1 556          SBR   X2,1&X2                                           7  1556  H 094 0!1          15   094     001+2
246  1 563          SBR   NSTMTS                                           4  1563  H 183              15   183
247  1 586          B     LOADNX                                            4  1567  B 700              15   700
248          *
249  1 590  WHAT    MCW   X3,SX3A                                          7  1571  M 099 844          16   099     844
250  1 597          MCW   X1,X3                                             7  1578  M 089 099          16   089     099
251  1 604          B     FINDGM  GET UP TO NEXT STATEMENT                  4  1585  B |52              16  1052
252  1 608          MCW   X3,X1                                            7  1589  M 099 089          16   099     089
253  1 615          MCW   SX3A,X3                                          7  1596  M 844 099          16   844     099
254  1 622          BCE   ONEB,FLAG,0                                      8  1603  B W25 884 0        17  1625     884
255  1 630          MCW   K0,FLAG                                          7  1611  M W42 884          17  1642     884
256  1 637          MZ    X1ZONE,1&X1                                       7  1618  Y W41 0|1          17  1641     001+1
257  1 644  ONEB    SBR   X1,4&X1                                          7  1625  H 089 0|4          17   089     004+1
258  1 651          B     LOOP                                              4  1632  B /86              17  1186
259          *
260          * DATA
261          *
262  1 655  X2ZONE  DCW   @R@                                             1  1636                     17
263  1 658  KB3     DCW   #3                                              3  1639                     17
264  1 659  K1      DCW   1                                               1  1640                     18
265  1 660  X1ZONE  DCW   @Z@                                             1  1641                     18
266  1 661  K0      DCW   0                                               1  1642                     18
267  1 662  COLON   DCW   @:@                                             1  1643                     18
268  1 667  K16K    DCW   16000                                           5  1648                     18
269  1 676  GMWM    DCW   @}@                                             1  1649          GMARK      18
270                 XFR   BEGN48                                                 B /75                19  1175
271          CLRME  CLRA  BEGN48,GMWM,C                                                 MACRO
             *      CLRA  CLRBOT,CLRTOP[,SS,HERE,GWMAD]                                 GEN
             *                                                                          GEN
             * CLEAR CORE AFTER A PHASE USING THE CLRTOP ADDRESS                        GEN
             *                                                                          GEN
272                 ORG   201                                                    0201
             *                                                                          GEN
             * CLEAR DOWN TO CLRBOT & X00 THE EASY WAY                                 GEN
             *                                                                          GEN
273          CLRME  EQU   *&1                                                 0201      GEN
274                 BSS   SNAPSH,C                                           5  0201  B 333 C     GEN     20   333
275          )0J005 CS    GMWM         CLEAR FROM CLRTOP                      4  0206  / W49       GEN     20  1649
276                 SBR   )0J005&3                                           4  0210  H 209       GEN     20   209
277                 SBR   )0L005&6                                           4  0214  H 255       GEN     20   255
278                 C     )0J005&3,)0M005   DOWN TO CLRBOT & X00?            7  0218  C 209 266   GEN     20   209     266
279                 BU    )0J005                                             5  0225  B 206 /     GEN     20   206
             *                                                                          GEN
             * NOW CLEAR DOWN TO CLRBOT THE HARD WAY                                   GEN
             *                                                                          GEN
280          )0K005 C     )0L005&6,)0N005                                    7  0230  C 255 269   GEN     20   255     269
281                 BU    )0L005                                             5  0237  B 249 /     GEN     21   249
282                 CS    LOADNX,)0Q005  LOAD THE NEXT BLOCK AT 1            7  0242  / 700 276   GEN     21   700     276
283          )0L005 LCA   )0P005,0-0     CLEAR WITH BLANK AND WORD MARK     7  0249  L 270 000   GEN     21   270     000
284                 SBR   )0L005&6                                           4  0256  H 255       GEN     21   255
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SEQ PG LIN  LABEL   OP    OPERANDS                                    SFX CT  LOCN  INSTRUCTION TYPE  CARD A-ADDR  B-ADDR

285                 B     )0K005                                        4  0260  B 230       GEN     21   230
286         )0M005  DSA   )0R005         CLRBOT & X00 - 1             3  0266  /99         GEN     21  1199
287         )0N005  DSA   BEGN48         CLRBOT                       3  0269  /75         GEN     21  1175
288         )0P005  DCW   #1                                          1  0270              GEN     22
289                 DC    @CLRA @     IDENTIFY IN A DECK, TAPE, OR DUMP 5  0275              GEN     22
290         )0Q005  DCW   @}@                                         1  0276              GEN     22
291                 ORG   BEGN48&X00                                          1200
292         )0R005  EQU   *           CLRBOT & X00 - 1                    1199              GEN
293                 XFR   CLRME                                                 B 201               23   201
```

SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS
)0J004	0207: 0	)0J005	0206: 0	)0K005	0230: 0	)0L005	0249: 0	)0M005	0266: 0	)0N005	0269: 0
)0P005	0270: 0	)0Q005	0276: 0	)0R005	1199: 0	)1J004	0250: 0	)6J004	0110: 0	)6K004	0700: 0
)6L004	0704: 0	)6M004	0728: 0	)8J004	0257: 0	)8K004	0273: 0	)9J004	0282: 0	)9R004	0286: 0
ADR5	0896: 0	ADR5B	0891: 0	BEGN47	1175: 0	BEGN48	1175: 0	CDOVLY	0700: 0	CLRME	0201: 0
COLON	1643: 0	CONV35	0969: 0	CONV53	0929: 0	FINDGM	1052: 0	FIRST	1225: 0	FLAG	0884: 0
GMWM	1649: 0	K0	1642: 0	K1	1640: 0	K16K	1648: 0	KB3	1639: 0	LINKED	1396: 0
LOADAD	1175: 0	LOADNX	0700: 0	LOOP	1186: 0	NEXT	0850: 0	NSTMTS	0183: 0	ONE	1448: 0
ONEB	1625: 0	PHAS48	0201: 0	PHASLD	0381: 0	SEQNO	0865: 0	SEQTAB	0148: 0	SNAPEX	0564: 0
SNAPSH	0333: 0	SORTAB	2499: 0	SX2	0853: 0	SX3A	0844: 0	SX3B	0856: 0	TABBOT	0847: 0
TABEL	2499: 0	TIMES6	0875: 0	TOOBIG	1092: 0	TOPA	0841: 0	TOPB	0883: 0	TOPC	0862: 0
TOPC5	0870: 0	TPERR	0728: 0	TPREAD	0704: 0	W3	0859: 0	W5	0880: 0	WHAT	1571: 0
X1	0089: 0	X1ZONE	1641: 0	X2	0094: 0	X2ZONE	1636: 0	X3	0099: 0		

UNREFERENCED SYMBOLS

CDOVLY NEXT PHASLD SNAPEX SX3B TOOBIG TOPA TPERR TPREAD W5