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

101               JOB   FORTRAN COMPILER -- ARITH PHASE TWO -- PHASE 34
102               CTL   6611
103         *
104         * ALL ARITHMETIC AND IF STATEMENTS ARE UNNESTED USING A
105         * FORCING TABLE TECHNIQUE.  ERROR CHECKING CONTINUES.
106         *
107         * ON ENTRY X1 IS THE TOP OF THE TOPMOST NON-ASSIGNMENT NON-IF
108         * STATEMENT, X2 IS THE TOP OF THE TOPMOST ASSIGNMENT OR IF
109         * STATEMENT IN HIGH CORE, AND X3 IS ONE BELOW THE BOTTOMMOST
110         * ASSIGNMENT OR IF STATEMENT IN HIGH CORE.
111         *
112         X1     EQU   89                                                        0089
113         X2     EQU   94                                                        0094
114         X3     EQU   99                                                        0099
115         *
116         * STUFF IN THE RESIDENT AREA
117         *
118         GLOBER EQU   184  GLOBAL ERROR FLAG -- WM MEANS ERROR                 0184
119         *
120               EXT00   SNAPSH, LOADNX, CDOVLY                                                MACRO
121         SNAPSH EQU   333                                                      0333            GEN
122         PHASLD EQU   381                                                      0381            GEN
123         SNAPEX EQU   564                                                      0564            GEN
124         LOADNX EQU   700   CARD OVERLAY UNLESS NOP                          0700            GEN
125         CDOVLY EQU   700   1 IF LOADING FROM CARDS, N IF FROM TAPE          0700            GEN
126         TPREAD EQU   704   LOAD OVERLAY FROM TAPE                           0704            GEN
127         TPERR  EQU   728                                                      0728            GEN
128         *
129               EXT03   START, TOP OF PHASE 3                                           MACRO
130         BEGIN3 EQU   838                                                      0838            GEN
131         TOP3   EQU   2600                                                     2600            GEN
132         *
133         110    DCW   @ARITH TWO@                                         9  0110                    1
134         *
135         * LOAD THIS BLOCK AND THE NEXT ONE
136         *
137         PHAS34 LDPH  ARITH TWO,LOADAD,LOADNX,,,34.1                                   MACRO
            * PHAZ   LDPH [PHASID],LOADAD,ENTAD[,SKIPFG,SKIP],[NUMBER][,HALT]          GEN
            *        XFR  PHASZ     PROHIBITED IN A MACRO                             GEN
            *                                                                         GEN
            * LOAD A BLOCK                                                           GEN
            *                                                                       GEN
138         )6J003 EQU   110  PHASE ID                                            0110            GEN
139         )6K003 EQU   700  LOAD NEXT PHASE                                     0700            GEN
140         )6L003 EQU   704  TAPE READ INSTRUCTION                               0704            GEN
141         )6M003 EQU   728  TAPE ERROR HANDLER                                  0728            GEN
            *                                                                       GEN
142               ORG   201                                                              0201
143         PHAS34 EQU   *&1                                                      0201            GEN
144               LCA   )9J003,)6J003                                         7  0201  L 252 110  GEN      2   252     110
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SEQ PG LIN  LABEL   OP    OPERANDS                                        SFX CT  LOCN  INSTRUCTION TYPE  CARD A-ADDR  B-ADDR

145            BCE   )6K003,)6K003,1      Q: LOADING FROM CARDS?           8  0208  B 700 700 1 GEN      2   700     700
146            BCE   )6K003,)6L003&4,0    Q: LOADING FROM AUTOCODER TAPE?  8  0216  B 700 708 0 GEN      2   700     708
147            RTW   1,LOADAD             READ THE BLOCK                   8  0224  L %U1 838 R GEN      2   %U1     838
148            BER   )6M003               Q: TAPE ERROR?                   5  0232  B 728 L     GEN      2   728
149            CS    LOADNX,)9R003        ENTER THE BLOCK                  7  0237  / 700 258   GEN      3   700     258
150        )9J003 DCW   @ARITH TWO@         PHASE ID                         9  0252              GEN      3
151            DC    #1                                                    1  0253              GEN      3
152            DC    @34.1@          PHASE NUMBER                          4  0257              GEN      3
153        )9R003 DCW   @}@                                                 1  0258              GEN      3
154            XFR   PHAS34                                                    B 201               4   201
155        *
156            ORG   BEGIN3                                                    0838
157        *
158        LOADAD EQU   *&1          LOAD ADDRESS                          0838
159    838 BEGN34 BCE   DONE,X2,.                                           8  0838  B N47 094 .          5  2547     094
160    846        SW    GM                                                  4  0846  , N59               5  2559
161    850        MCW   X2,SX2                                             7  0850  M 094 P31           5   094    2731
162    857        SBR   X3,2&X3                                            7  0857  H 099 0?2           5   099     002+3
163    864        SBR   X1,2&X1                                            7  0864  H 089 0|2           5   089     002+1
164    871        MCW   X1,X2                                             7  0871  M 089 094           6   089     094
165    878 GET00  MN    X2,CHKX2  GET X2                                    7  0878  D 094 P33           6   094    2733
166    885        MN                UP TO                                 1  0885  D                   6
167    886        C     CHKX2,K00     X2 & X00                            7  0886  C P33 P35           6  2733    2735
168    893        BE    GOT00                                             5  0893  B 913 S             6   913
169    898        CW    0&X2                                              4  0898  ) 0!0               6   000+2
170    902        SBR   X2,1&X2                                            7  0902  H 094 0!1           6   094     001+2
171    909        B     GET00                                             4  0909  B 878               7   878
172    913 GOT00  MN    0&X2                                              4  0913  D 0!0               7   000+2
173    917        SAR   X2P99  X2 & X00 - 1                               4  0917  Q P38               7  2738
174    921        MN    0&X3                                              4  0921  D 0?0               7   000+3
175    925        SAR   X2                                                4  0925  Q 094               7   094
176    929 CLRL   C     X2,X2P99  CLEAR DOWN                              7  0929  C 094 P38           7   094    2738
177    936        BE    CLRX        TO TOP                                5  0936  B 953 S             7   953
178    941        CS    0&X2          OF CODE                             4  0941  / 0!0               8   000+2
179    945        SBR   X2              IN LOW                            4  0945  H 094               8   094
180    949        B     CLRL              CORE & X00                      4  0949  B 929               8   929
181    953 CLRX   MN    0&X1                                              4  0953  D 0|0               8   000+1
182    957        SAR   X1                                                4  0957  Q 089               8   089
183    961 MORE   MCM   0&X3     MOVE CODE                                 4  0961  P 0?0               8   000+3
184    965        SAR   SX3&6      DOWN FROM                             4  0965  Q 987               8   987
185    969        MCM   0&X3,1&X1    TOP CORE                            7  0969  P 0?0 0|1           9   000+3   001+1
186    976        MN                  TO BOTTOM                         1  0976  D                   9
187    977        SBR   X1                OF BOTTOMMOST                 4  0977  H 089               9   089
188    981 SX3    SBR   X3,0                ASSIGNMENT                  7  0981  H 099 000           9   099     000
189    988        BCE   MORE,0&X1,|          OR IF                      8  0988  B 961 0|0 |         9   961     000+1
190    996        MN    0&X3                  STATEMENT                 4  0996  D 0?0               9   000+3
191  1 000        CW                                                      1  1000  )                   9
192  1 001        SW    0&X1                                              4  1001  , 0|0              10   000+1
193  1 005        C     X3,SX2                                            7  1005  C 099 P31          10   099    2731
194  1 012        BU    MORE                                              5  1012  B 961 /            10   961
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SEQ PG LIN  LABEL  OP    OPERANDS                                          SFX CT  LOCN  INSTRUCTION TYPE  CARD A-ADDR  B-ADDR

195  1 017         MN    0&X1                                                4  1017  D 0|0              10   000+1
196  1 021         SAR   X1                                                  4  1021  Q 089              10   089
197         *
198         * X1 IS NOW THE TOP OF THE TOPMOST ASSIGNMENT OR IF STATEMENT
199         * IN LOW CORE AND X3 IS ONE ABOVE THE TOP OF THE TOPMOST
200         * ASSIGNMENT OR IF STATEMENT IN HIGH CORE.
201         *
202  1 025         MN    0&X3                                                4  1025  D 0?0              10   000+3
203  1 029         SBR   IXTOP  INDEX OF STATEMENT IN TOP CORE               4  1029  H P41              10  2741
204  1 033         BCE   LOOP,0&X3,}                                         8  1033  B |60 0?0 } GMARK  11  1060     000+3
205  1 041         SBR   X3                                                  4  1041  H 099              11   099
206  1 045         LCA   GM                                                  4  1045  L N59              11  2559
207  1 049         SBR   IXTOP                                               4  1049  H P41              11  2741
208  1 053         MCW   X3,SX2                                              7  1053  M 099 P31          11   099    2731
209  1 060  LOOP   MCW   IXTOP,IXTSAV                                        7  1060  M P41 P44          11  2741    2744
210  1 067         MCW   0&X1,X3                                             7  1067  M 0|0 099          12   000+1   099
211  1 074         BWZ   *&5,X3,2  ZONE IN ONES OR                          8  1074  V |86 099 2        12  1086     099
212  1 082         B     *&9         THOUSANDS MEANS ADDRESS OF              4  1082  B |94              12  1094
213  1 086         BWZ   *&8,X3-2,2    SEQUENCE NUMBER IN SYMBOL TABLE       8  1086  V /01 097 2        12  1101     097
214  1 094         MCW   0&X3,X3  GET SEQUENCE NUMBER FROM TABLE              7  1094  M 0?0 099          12   000+3   099
215  1 101         MCW   X3,SEQNO                                            7  1101  M 099 P47          13   099    2747
216  1 108         MCW   KB12,W3B                                           7  1108  M Q00 Q14          13  2800    2814
217  1 115         MCW   KBRACK,40&X1  RIGHT BRACKET                        7  1115  M P48 0U0          13  2748     040+1
218  1 122         SBR   LOCBRK&6,40&X1  REMEMBER WHERE WE PUT IT           7  1122  H /85 0U0          13  1185     040+1
219  1 129         B     MOVEUP          MOVE PREFIX UP TO HIGH CORE       4  1129  B S57              13  1257
220  1 133         BCE   IFSTMT,2&X1,E  IF STATEMENT?                       8  1133  B S21 0|2 E        14  1221     002+1
221  1 141         C     2&X1,KR         ASSIGNMENT STATEMENT?               7  1141  C 0|2 P49          14   002+1  2749
222  1 148         BU    ALMOST          NO, ALMOST DONE                     5  1148  B N19 /            14  2519
223  1 153  READY  MCW   X1,X3                                              7  1153  M 089 099          14   089     099
224  1 160         SBR   LINK&3,0&X1                                        7  1160  H M96 0|0          14  2496     000+1
225  1 167         C     0&X3                                                4  1167  C 0?0              14   000+3
226  1 171         SAR   SX3B                                               4  1171  Q P52              15  2752
227  1 175         B     HUNT                                                4  1175  B S91              15  1291
228  1 179  LOCBRK BCE   WHEW,0,]  RIGHT BRACKET                            8  1179  B T81 000 ]        15  1381     000
229         *
230         * BRACKET HAVING BEEN CLOBBERED MEANS PROGRAM IS TOO BIG
231         *
232  1 187         CS    332                                                 4  1187  / 332              15   332
233  1 191         CS                                                        1  1191  /                  15
234  1 192         CC    1                                                   2  1192  F 1                15
235  1 194         MCW   ERR2,270                                            7  1194  M P88 270          15  2788     270
236  1 201         W                                                         1  1201  2                  16
237  1 202         CC    1                                                   2  1202  F 1                16
238  1 204         BCE   HALT,CDOVLY,1                                      8  1204  B S17 700 1        16  1217     700
239  1 212         RWD   1                                                   5  1212  U %U1 R            16   %U1
240  1 217  HALT   H     HALT                                                4  1217  . S17              16  1217
241         *
242         * IF STATEMENT, GET X3 DOWN TO A BLANK BELOW X1, THEN SET
243         * A WORD MARK ONE BELOW THERE
244         *
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SEQ PG LIN  LABEL   OP    OPERANDS                                    SFX CT  LOCN  INSTRUCTION TYPE  CARD A-ADDR  B-ADDR

245  1 221  IFSTMT MCW   X1,X3                                          7  1221  M 089 099          16   089     099
246  1 228  GETB   BCE   GOTB,0&X3,,                                   8  1228  B S44 0?0 ,        16  1244     000+3
247  1 236         SBR   X3                                           4  1236  H 099              17   099
248  1 240         B     GETB                                         4  1240  B S28              17  1228
249  1 244  GOTB   MN    0&X3                                         4  1244  D 0?0              17   000+3
250  1 248         SW                                                 1  1248  ,                  17
251  1 249         B     MOVEUP                                       4  1249  B S57              17  1257
252  1 253         B     READY                                        4  1253  B /53              17  1153
253         *
254         * MOVE UP PREFIX OR BODY
255         *
256  1 257  MOVEUP SBR   MOVEUX&3                                     4  1257  H S90              17  1290
257  1 261         MCW   IXTOP,X2                                     7  1261  M P41 094          18  2741     094
258  1 268         LCA   0&X1,0&X2                                    7  1268  L 0|0 0!0          18   000+1   000+2
259  1 275         SBR   IXTOP                                        4  1275  H P41              18  2741
260  1 279         C     0&X1                                         4  1279  C 0|0              18   000+1
261  1 283         SAR   X1                                           4  1283  Q 089              18   089
262  1 287  MOVEUX B     0                                            4  1287  B 000              18   000
263         *
264         * HUNT FOR INTERESTING CHARACTERS
265         *
266  1 291  HUNT   SBR   HUNTX&3                                      4  1291  H T46              18  1346
267  1 295         BCE   SKPSUB,0&X3,$                                8  1295  B T47 0?0 $        19  1347     000+3
268  1 303  HUNTL  MCW   0&X3,CURR                                     7  1303  M 0?0 Q01          19   000+3  2801
269  1 310         SAR   X3                                           4  1310  Q 099              19   099
270  1 314         MCW   CURR,*&8                                     7  1314  M Q01 T28          19  2801    1328
271  1 321         BCE   HUNTX,CHARS,0                                8  1321  B T43 O28 0        19  1343    2628
272  1 329         CHAIN 10                                                                  MACRO
273               BCE                                                1  1329  B            GEN   19
274               BCE                                                1  1330  B            GEN   19
275               BCE                                                1  1331  B            GEN   20
276               BCE                                                1  1332  B            GEN   20
277               BCE                                                1  1333  B            GEN   20
278               BCE                                                1  1334  B            GEN   20
279               BCE                                                1  1335  B            GEN   20
280               BCE                                                1  1336  B            GEN   20
281               BCE                                                1  1337  B            GEN   20
282               BCE                                                1  1338  B            GEN   21
283  1 339         B     HUNTL                                        4  1339  B T03              21  1303
284  1 343  HUNTX  B     0                                            4  1343  B 000              21   000
285         *
286         * SKIP SUBSCRIPT -- DECREASE X3 BY EITHER 12 OR 18
287         *
288  1 347  SKPSUB C     0&X3,KB12                                    7  1347  C 0?0 Q00          21   000+3  2800
289  1 354         SAR   X3                                           4  1354  Q 099              21   099
290  1 358         BCE   HUNTX,2&X3,$                                 8  1358  B T43 0?2 $        21  1343     002+3
291  1 366         C     0&X3,KB12-6                                  7  1366  C 0?0 P94          21   000+3  2794
292  1 373         SAR   X3                                           4  1373  Q 099              22   099
293  1 377         B     HUNTX                                        4  1377  B T43              22  1343
294         *
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SEQ PG LIN  LABEL  OP    OPERANDS                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD A-ADDR  B-ADDR

295         * PROGRAM ISN'T TOO BIG
296         *
297  1 381  WHEW   MCW   1&X3,CURR    CURRENT OPERATOR OR ASSIGNMENT     7  1381  M 0?1 Q01          22   001+3  2801
298  1 388         MCW   1&X1,PREV    PREVIOUS OPERATOR OR GM            7  1388  M 0|1 Q02          22   001+1  2802
299  1 395         MCW   PREV,LOOKCH&7                                  7  1395  M Q02 V46          22  2802    1546
300  1 402         MCW   KB12,W3                                        7  1402  M Q00 Q05          22  2800    2805
301  1 409         B     LOOK                                           4  1409  B V16              23  1516
302  1 413         MN    CHNUM,W3-1   PREVIOUS CHARS INDEX IS TENS      7  1413  D Q06 Q04          23  2806    2804
303  1 420         MCW   CURR,LOOKCH&7                                  7  1420  M Q01 V46          23  2801    1546
304  1 427         B     LOOK                                           4  1427  B V16              23  1516
305  1 431         MN    CHNUM,W3     CURRENT CHARS INDEX IS ONES       7  1431  D Q06 Q05          23  2806    2805
306  1 438         MCW   W3,X2                                          7  1438  M Q05 094          23  2805     094
307  1 445         MN    TABLE&X2,X2  GET ONE                           7  1445  D OK9 094          24  2629+2   094
308  1 452         MCW   KB12           DIGIT FROM TABLE                4  1452  M Q00              24  2800
309  1 456         BWZ   MSG24,X2,S                                     8  1456  V K61 094 S        24  2261     094
310  1 464         A     X2                                             4  1464  A 094              24   094
311  1 468         A     X2           QUADRUPLE IT                      4  1468  A 094              24   094
312  1 472         B     *&1&X2                                         4  1472  B UP6              24  1476+2
313  1 476         B     ZERO   INDEX FROM TABLE IS ZERO                4  1476  B W03              24  1603
314  1 480         B     ONE    INDEX FROM TABLE IS ONE                 4  1480  B W18              25  1618
315  1 484         B     TWO    INDEX FROM TABLE IS TWO                 4  1484  B W59              25  1659
316  1 488         B     THREE  INDEX FROM TABLE IS THREE               4  1488  B M58              25  2458
317  1 492         B     FOUR   INDEX FROM TABLE IS FOUR                4  1492  B Z48              25  1948
318  1 496         B     FIVE   INDEX FROM TABLE IS FIVE                4  1496  B Z81              25  1981
319  1 500         B     MSG25  INDEX FROM TABLE IS SIX                 4  1500  B M13              25  2413
320  1 504         B     MSG16  INDEX FROM TABLE IS SEVEN               4  1504  B L75              25  2375
321  1 508         B     MSG32  INDEX FROM TABLE IS EIGHT               4  1508  B L37              26  2337
322  1 512         B     MSG26  INDEX FROM TABLE IS NINE                4  1512  B K99              26  2299
323         *
324         * LOOK FOR A CHARACTER IN CHARS, TREATING MINUS AND PLUS
325         * EQUALLY, COUNTING AS WE LOOK
326         *
327  1 516  LOOK   SBR   LOOKCH&3                                        4  1516  H V42              26  1542
328  1 520         BCE   LOOK3,LOOKCH&7,-                               8  1520  B V62 V46 -        26  1562    1546
329  1 528  LOOK2  S     CHNUM  INDEX IN CHARS                          4  1528  S Q06              26  2806
330  1 532         MCW   ACHARS,LOOKCH&6                               7  1532  M Q09 V45          26  2809    1545
331  1 539  LOOKCH BCE   0,0,0                                         8  1539  B 000 000 0        26   000     000
332  1 547         SBR   LOOKCH&6                                      4  1547  H V45              27  1545
333  1 551         A     K1,CHNUM                                       7  1551  A Q10 Q06          27  2810    2806
334  1 558         B     LOOKCH                                         4  1558  B V39              27  1539
335  1 562  LOOK3  MCW   KPLUS,LOOKCH&7                                 7  1562  M Q11 V46          27  2811    1546
336  1 569         B     LOOK2                                          4  1569  B V28              27  1528
337         *
338  1 573  COUNT  SBR   COUNTX&3                                       4  1573  H W02              27  1602
339  1 577         A     K1,W3B                                         7  1577  A Q10 Q14          27  2810    2814
340  1 584         MZ    W3B-1,CH                                       7  1584  Y Q13 N58          28  2813    2558
341  1 591         MN    W3B,CH                                         7  1591  D Q14 N58          28  2814    2558
342  1 598         MN                                                   1  1598  D                  28
343  1 599  COUNTX B     0                                              4  1599  B 000              28   000
344         *
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SEQ PG LIN  LABEL  OP    OPERANDS                                SFX CT  LOCN  INSTRUCTION TYPE  CARD A-ADDR  B-ADDR

345         * INDEX FROM TABLE IS ZERO.
346         * PREV *      CURR %. BLANK
347         * PREV %      CURR *%&@. BLANK ,
348         * PREV #      CURR *%&@. BLANK ,
349         * PREV GM     CURR #
350         * PREV &      CURR *%@. BLANK ,
351         * PREV @      CURR %. BLANK
352         * PREV .      CURR % BLANK
353         * PREV BLANK  CURR *%&@. BLANK ,
354         * PREV ,      CURR %. BLANK
355         *
356  1 603  ZERO   MCW   X3,X1  CURRENT TO PREVIOUS              7  1603  M 099 089          28   099     089
357  1 610         B     HUNT   GET NEXT OPERATOR               4  1610  B S91             28  1291
358  1 614         B     WHEW                                   4  1614  B T81             28  1381
359         *
360         * INDEX FROM TABLE IS ONE.
361         * PREV %  CURR )
362         *
363  1 618  ONE    SW    2&X3                                   4  1618  , 0?2             29   002+3
364  1 622         LCA   0&X1,1&X1                              7  1622  L 0|0 0|1         29   000+1   001+1
365  1 629         CW    3&X3                                   4  1629  ) 0?3             29   003+3
366  1 633         CW                                           1  1633  )                 29
367  1 634         LCA   0&X3,2&X3                              7  1634  L 0?0 0?2         29   000+3   002+3
368  1 641         SBR   X1,1&X1                                7  1641  H 089 0|1         29   089     001+1
369  1 648         SBR   X3,1&X3                                7  1648  H 099 0?1         29   099     001+3
370  1 655         B     WHEW                                   4  1655  B T81             30  1381
371         *
372         * INDEX FROM TABLE IS TWO
373         * PREV *  CURR *)G&@
374         * PREV &  CURR )G&
375         * PREV @  CURR *)G&@
376         * PREV .  CURR *)G&@
377         *
378  1 659  TWO    MCW   IXTOP,X2                               7  1659  M P41 094         30  2741     094
379  1 666         MZ    4&X3,SAVTAG                            7  1666  Y 0?4 Q15         30   004+3  2815
380  1 673         BCE   *&8,2&X3,$                            8  1673  B W88 0?2 $       30  1688     002+3
381  1 681         MZ    3&X3,SAVTAG                            7  1681  Y 0?3 Q15         30   003+3  2815
382  1 688         SW    2&X3                                   4  1688  , 0?2             30   002+3
383  1 692         LCA   0&X1,0&X2                              7  1692  L 0|0 0!0         31   000+1   000+2
384  1 699         SBR   X2                                     4  1699  H 094             31   094
385  1 703         CW    1&X2                                   4  1703  ) 0!1             31   001+2
386  1 707         SW    2&X1                                   4  1707  , 0|2             31   002+1
387  1 711         SW                                           1  1711  ,                 31
388  1 712         LCA   1&X1,0&X2                              7  1712  L 0|1 0!0         31   001+1   000+2
389  1 719         SBR   X2                                     4  1719  H 094             31   094
390  1 723         SBR   IXTOP                                  4  1723  H P41             32  2741
391  1 727         CW    1&X2                                   4  1727  ) 0!1             32   001+2
392  1 731         BCE   SUBTWO,2&X1,$                          8  1731  B Y90 0|2 $       32  1890     002+1
393  1 739         LCA   4&X1,0&X2                              7  1739  L 0|4 0!0         32   004+1   000+2
394  1 746         SBR   IXTOP                                  4  1746  H P41             32  2741
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SEQ PG LIN  LABEL  OP    OPERANDS                    SFX CT  LOCN  INSTRUCTION TYPE  CARD A-ADDR  B-ADDR

395  1 750         MZ    3&X1,TAG1                     7  1750  Y 0|3 N57           32   003+1  2557
396  1 757         SAR   X1                            4  1757  Q 089               32   089
397  1 761  SUBBAK B     COUNT                         4  1761  B V73               33  1573
398  1 765         LCA   CH,2&X1                       7  1765  L N58 0|2           33  2558     002+1
399  1 772         LCA   1&X3                          4  1772  L 0?1               33   001+3
400  1 776         CW    0&X1                          4  1776  ) 0|0               33   000+1
401  1 780         MN                                  1  1780  D                   33
402  1 781         SAR   X3                            4  1781  Q 099               33   099
403  1 785         SBR   X1,2&X1                       7  1785  H 089 0|2           33   089     002+1
404  1 792         BWZ   TWOA,TAG1,S                   8  1792  V Y36 N57 S         34  1836    2557
405  1 800         BM    TWOA,TAG1                     8  1800  V Y36 N57 K         34  1836    2557
406  1 808         BWZ   LOCBRK,SAVTAG,2               8  1808  V /79 Q15 2         34  1179    2815
407  1 816         BWZ   LOCBRK,SAVTAG,B               8  1816  V /79 Q15 B         34  1179    2815
408  1 824         BCE   LOCBRK,PREV,.                 8  1824  B /79 Q02 .         35  1179    2802
409  1 832         B     MIXED                         4  1832  B Y52               35  1852
410  1 836  TWOA   BWZ   LOCBRK,SAVTAG,S               8  1836  V /79 Q15 S         35  1179    2815
411  1 844         BM    LOCBRK,SAVTAG                 8  1844  V /79 Q15 K         35  1179    2815
412          *
413          * MIXED MODE ARITHMETIC
414          *
415  1 852  MIXED  CS    332                           4  1852  / 332               35   332
416  1 856         CS                                  1  1856  /                   35
417  1 857         SW    GLOBER                        4  1857  , 184               35   184
418  1 861         MN    SEQNO,241                     7  1861  D P47 241           36  2747     241
419  1 868         MN                                  1  1868  D                   36
420  1 869         MN                                  1  1869  D                   36
421  1 870         MCW   ERR46                         4  1870  M Q53               36  2853
422  1 874         W                                   1  1874  2                   36
423  1 875         BCV   *&5                           5  1875  B Y84 @             36  1884
424  1 880         B     *&3                           4  1880  B Y86               36  1886
425  1 884         CC    1                             2  1884  F 1                 37
426  1 886         B     ERRFIN                        4  1886  B M47               37  2447
427          *
428  1 890  SUBTWO SBR   X2,10&X1                      7  1890  H 094 0/0           37   094     010+1
429  1 897         BCE   *&8,2&X2,$                    8  1897  B Z12 0!2 $         37  1912     002+2
430  1 905         SBR   X2,6&X2                       7  1905  H 094 0!6           37   094     006+2
431  1 912         MCW   IXTOP,*&7                     7  1912  M P41 Z25           37  2741    1925
432  1 919         LCA   2&X2,0                        7  1919  L 0!2 000           38   002+2   000
433  1 926         SBR   IXTOP                         4  1926  H P41               38  2741
434  1 930         MZ    4&X1,TAG1                     7  1930  Y 0|4 N57           38   004+1  2557
435  1 937         MCW   X2,X1                         7  1937  M 094 089           38   094     089
436  1 944         B     SUBBAK                        4  1944  B X61               38  1761
437          *
438          * INDEX FROM TABLE IS FOUR
439          * PREV ,  CURR *)G&@
440          *
441  1 948  FOUR   MCW   KN,1&X1                       7  1948  M Q54 0|1           38  2854     001+1
442  1 955         MZ    4&X3,TAG1                     7  1955  Y 0?4 N57           39   004+3  2557
443  1 962         BCE   FIVEB,2&X3,$                  8  1962  B J17 0?2 $         39  2117     002+3
444  1 970         MZ    3&X3,TAG1                     7  1970  Y 0?3 N57           39   003+3  2557
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SEQ PG LIN  LABEL  OP    OPERANDS                                SFX CT  LOCN  INSTRUCTION TYPE  CARD A-ADDR  B-ADDR

445  1 977         B     FIVEB                                     4  1977  B J17              39  2117
446         *
447         * INDEX FROM TABLE IS FIVE
448         * PREV BLANK  CURR )
449         *
450  1 981  FIVE   MCW   3&X1,W2                                   7  1981  M 0|3 Q56          39   003+1  2856
451  1 988         BCE   FIVEC,3&X1,X                             8  1988  B J75 0|3 X        40  2175     003+1
452  1 996         MZ    *-4,TAG1                                  7  1996  Y Z98 N57          40  1998    2557
453  2 003  FIVEF  SW    2&X1                                      4  2003  , 0|2              40   002+1
454  2 007         MCW   2&X1,*&8                                  7  2007  M 0|2 !21          40   002+1  2021
455  2 014         BCE   USRFNC,USRCOD,0                          8  2014  B !99 Q68 0        40  2099    2868
456  2 022         CHAIN 11                                                                  MACRO
457                BCE                                           1  2022  B                  GEN  40
458                BCE                                           1  2023  B                  GEN  40
459                BCE                                           1  2024  B                  GEN  41
460                BCE                                           1  2025  B                  GEN  41
461                BCE                                           1  2026  B                  GEN  41
462                BCE                                           1  2027  B                  GEN  41
463                BCE                                           1  2028  B                  GEN  41
464                BCE                                           1  2029  B                  GEN  41
465                BCE                                           1  2030  B                  GEN  41
466                BCE                                           1  2031  B                  GEN  42
467                BCE                                           1  2032  B                  GEN  42
468  2 033         MZ    4&X3,SAVTAG                               7  2033  Y 0?4 Q15          42   004+3  2815
469  2 040         BCE   FIVEA,2&X3,$                             8  2040  B !55 0?2 $        42  2055     002+3
470  2 048         MZ    3&X3,SAVTAG                               7  2048  Y 0?3 Q15          42   003+3  2815
471  2 055  FIVEA  BCE   FIVED,2&X1,F                             8  2055  B K07 0|2 F        42  2207     002+1
472  2 063         BCE   FIVED,2&X1,I                             8  2063  B K07 0|2 I        43  2207     002+1
473  2 071         C     W2,KAX                                    7  2071  C Q56 Q70          43  2856    2870
474  2 078         BE    FIVED                                     5  2078  B K07 S            43  2207
475  2 083         BWZ   MSG28,SAVTAG,S                           8  2083  V K23 Q15 S        43  2223    2815
476  2 091         BM    MSG28,SAVTAG                              8  2091  V K23 Q15 K        43  2223    2815
477  2 099  USRFNC MCW   2&X1,1&X1                                7  2099  M 0|2 0|1          44   002+1   001+1
478  2 106         MCW   KLPAR,2&X1                               7  2106  M Q71 0|2          44  2871     002+1
479  2 113         CW    2&X1                                      4  2113  ) 0|2              44   002+1
480  2 117  FIVEB  MCW   IXTOP,X2                                 7  2117  M P41 094          44  2741      094
481  2 124         SW    2&X3                                      4  2124  , 0?2              44   002+3
482  2 128         LCA   1&X1,0&X2                               7  2128  L 0|1 0!0          44   001+1   000+2
483  2 135         SBR   IXTOP                                     4  2135  H P41              45  2741
484  2 139         B     COUNT                                     4  2139  B V73              45  1573
485  2 143         LCA   CH,1&X1                                  7  2143  L N58 0|1          45  2558     001+1
486  2 150         LCA   1&X3                                      4  2150  L 0?1              45   001+3
487  2 154         MN    0&X1                                      4  2154  D 0|0              45   000+1
488  2 158         CW                                            1  2158  )                  45
489  2 159         MN                                            1  2159  D                  45
490  2 160         SAR   X3                                      4  2160  Q 099              46   099
491  2 164         SBR   X1,1&X1                                 7  2164  H 089 0|1          46   089     001+1
492  2 171         B     LOCBRK                                    4  2171  B /79              46  1179
493  2 175  FIVEC  MZ    FIVEC,TAG1                                7  2175  Y J75 N57          46  2175    2557
494  2 182         LCA   2&X1,3&X1                                7  2182  L 0|2 0|3          46   002+1   003+1
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SEQ PG LIN  LABEL  OP    OPERANDS                                          SFX CT  LOCN  INSTRUCTION TYPE  CARD A-ADDR  B-ADDR

495  2 189         SBR   X1,1&X1                                             7  2189  H 089 0|1          46   089     001+1
496  2 196         SBR   X3,1&X3                                             7  2196  H 099 0?1          47   099     001+3
497  2 203         B     FIVEF                                               4  2203  B !03              47  2003
498  2 207  FIVED  BWZ   USRFNC,SAVTAG,S                                     8  2207  V !99 Q15 S        47  2099    2815
499  2 215         BM    USRFNC,SAVTAG                                       8  2215  V !99 Q15 K        47  2099    2815
500         *
501         * TAPE BLOCK IS TOO BIG FOR CHM TAU EMULATOR
502         *
503         END1   DCW   @}@                                                 1  2223             GMARK  47
504                XFR   LOADNX         LOAD THIS                                    B 700            48   700
505         PART2  LDPH  ,MSG28,BEGN34,,,34.2  LOAD PART2 AND START IN PART 1                      MACRO
            * PHAZ   LDPH [PHASID],LOADAD,ENTAD[,SKIPFG,SKIP],[NUMBER][,HALT]                     GEN
            *        XFR  PHASZ     PROHIBITED IN A MACRO                                        GEN
            *                                                                                    GEN
            * LOAD A BLOCK                                                                       GEN
            *                                                                                    GEN
506         )6K004 EQU   700  LOAD NEXT PHASE                                0700              GEN
507         )6L004 EQU   704  TAPE READ INSTRUCTION                          0704              GEN
508         )6M004 EQU   728  TAPE ERROR HANDLER                             0728              GEN
            *                                                                                    GEN
509                ORG   201                                                        0201
510         PART2  EQU   *&1                                                 0201              GEN
511                BCE   )6K004,)6K004,1      Q: LOADING FROM CARDS?        8  0201  B 700 700 1 GEN     49   700     700
512                BCE   )6K004,)6L004&4,0    Q: LOADING FROM AUTOCODER TAPE? 8  0209  B 700 708 0 GEN     49   700     708
513                RTW   1,MSG28             READ THE BLOCK                8  0217  L %U1 K23 R GEN     49   %U1    2223
514                BER   )6M004               Q: TAPE ERROR?               5  0225  B 728 L     GEN     49   728
515                CS    BEGN34,)9R004        ENTER THE BLOCK              7  0230  / 838 242   GEN     49   838     242
516                DC    #1                                                1  0237              GEN     49
517                DC    @34.2@          PHASE NUMBER                      4  0241              GEN     50
518         )9R004 DCW   @}@                                               1  0242              GEN     50
519                XFR   PART2                                                    B 201              51   201
520                ORG   END1                                                      2223
521         *
522         * WRONG ARGUMENT TYPE FOR FUNCTION
523         *
524  2 223  MSG28  CS    332                                                 4  2223  / 332              52   332
525  2 227         CS                                                        1  2227  /                  52
526  2 228         SW    GLOBER                                              4  2228  , 184              52   184
527  2 232         MN    SEQNO,261                                           7  2232  D P47 261          52  2747     261
528  2 239         MN                                                        1  2239  D                  52
529  2 240         MN                                                        1  2240  D                  52
530  2 241         MCW   ERR28                                              4  2241  M O17              52  2617
531  2 245         W                                                         1  2245  2                  53
532  2 246         BCV   *&5                                                 5  2246  B K55 @            53  2255
533  2 251         B     *&3                                                 4  2251  B K57              53  2257
534  2 255         CC    1                                                   2  2255  F 1                53
535  2 257         B     ERRFIN                                              4  2257  B M47              53  2447
536         *
537         * SYSTEM ERROR
538         *
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SEQ PG LIN  LABEL  OP    OPERANDS                                SFX CT  LOCN  INSTRUCTION TYPE  CARD A-ADDR  B-ADDR

539  2 261  MSG24  CS    332                                        4  2261  / 332              53   332
540  2 265         CS                                               1  2265  /                  53
541  2 266         SW    GLOBER                                     4  2266  , 184              54   184
542  2 270         MN    SEQNO,238                                  7  2270  D P47 238          54  2747     238
543  2 277         MN                                               1  2277  D                  54
544  2 278         MN                                               1  2278  D                  54
545  2 279         MCW   ERR24                                     4  2279  M R06              54  2906
546  2 283         W                                                1  2283  2                  54
547  2 284         BCV   *&5                                       5  2284  B K93 @            54  2293
548  2 289         B     *&3                                        4  2289  B K95              55  2295
549  2 293         CC    1                                          2  2293  F 1                55
550  2 295         B     ERRFIN                                     4  2295  B M47              55  2447
551         *
552         * EXCESS OF # SIGNS
553         * INDEX FROM TABLE IS NINE
554         * PREV *      CURR #
555         * PREV #      CURR #
556         * PREV &      CURR #
557         * PREV @      CURR #
558         * PREV .      CURR #
559         * PREV BLANK  CURR #
560         * PREV ,      CURR #
561         *
562  2 299  MSG26  CS    332                                        4  2299  / 332              55   332
563  2 303         CS                                               1  2303  /                  55
564  2 304         SW    GLOBER                                     4  2304  , 184              55   184
565  2 308         MN    SEQNO,243                                  7  2308  D P47 243          55  2747     243
566  2 315         MN                                               1  2315  D                  56
567  2 316         MN                                               1  2316  D                  56
568  2 317         MCW   ERR26                                     4  2317  M R46              56  2946
569  2 321         W                                                1  2321  2                  56
570  2 322         BCV   *&5                                       5  2322  B L31 @            56  2331
571  2 327         B     *&3                                        4  2327  B L33              56  2333
572  2 331         CC    1                                          2  2331  F 1                56
573  2 333         B     ERRFIN                                     4  2333  B M47              57  2447
574         *
575         * MULTIPLE EXPONENT
576         * INDEX FROM TABLE IS EIGHT
577         * PREV .  CURR .
578         *
579  2 337  MSG32  CS    332                                        4  2337  / 332              57   332
580  2 341         CS                                               1  2341  /                  57
581  2 342         SW    GLOBER                                     4  2342  , 184              57   184
582  2 346         MN    SEQNO,243                                  7  2346  D P47 243          57  2747     243
583  2 353         MN                                               1  2353  D                  57
584  2 354         MN                                               1  2354  D                  57
585  2 355         MCW   ERR32                                     4  2355  M R86              58  2986
586  2 359         W                                                1  2359  2                  58
587  2 360         BCV   *&5                                       5  2360  B L69 @            58  2369
588  2 365         B     *&3                                        4  2365  B L71              58  2371
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SEQ PG LIN  LABEL  OP    OPERANDS                                SFX CT  LOCN  INSTRUCTION TYPE  CARD A-ADDR  B-ADDR

589  2 369         CC    1                                         2  2369  F 1               58
590  2 371         B     ERRFIN                                    4  2371  B M47             58  2447
591         *
592         * PARENTHESIS ERROR
593         * INDEX FROM TABLE IS SEVEN
594         * PREV %      CURR GM
595         * PREV #      CURR )
596         * PREV BLANK  CURR GM
597         *
598  2 375  MSG16  CS    332                                       4  2375  / 332             58   332
599  2 379         CS                                              1  2379  /                 59
600  2 380         SW    GLOBER                                    4  2380  , 184             59   184
601  2 384         MN    SEQNO,243                                 7  2384  D P47 243         59  2747     243
602  2 391         MN                                              1  2391  D                 59
603  2 392         MN                                              1  2392  D                 59
604  2 393         MCW   ERR16                                    4  2393  M ?26             59  3026
605  2 397         W                                               1  2397  2                 59
606  2 398         BCV   *&5                                       5  2398  B M07 @           60  2407
607  2 403         B     *&3                                       4  2403  B M09             60  2409
608  2 407         CC    1                                         2  2407  F 1               60
609  2 409         B     ERRFIN                                    4  2409  B M47             60  2447
610         *
611         * LEFT SIDE IS WRONG
612         * INDEX FROM TABLE IS SIX
613         * PREV GM  CURR *)%&@. BLANK ,
614         *
615  2 413  MSG25  CS    332                                       4  2413  / 332             60   332
616  2 417         CS                                              1  2417  /                 60
617  2 418         SW    GLOBER                                    4  2418  , 184             60   184
618  2 422         MN    SEQNO,243                                 7  2422  D P47 243         61  2747     243
619  2 429         MN                                              1  2429  D                 61
620  2 430         MN                                              1  2430  D                 61
621  2 431         MCW   ERR25                                    4  2431  M ?66             61  3066
622  2 435         W                                               1  2435  2                 61
623  2 436         BCV   *&5                                       5  2436  B M45 @           61  2445
624  2 441         B     *&3                                       4  2441  B M47             61  2447
625  2 445         CC    1                                         2  2445  F 1               62
626  2 447  ERRFIN MCW   IXTSAV,IXTOP                             7  2447  M P44 P41         62  2744    2741
627  2 454         B     RESTRT                                    4  2454  B N08             62  2508
628         *
629         * INDEX FROM TABLE IS THREE
630         * PREV #  CURR G
631         *
632  2 458  THREE  MCW   IXTOP,X2                                 7  2458  M P41 094         62  2741     094
633  2 465         SW    2&X3                                      4  2465  , 0?2             62   002+3
634  2 469         LCA   0&X1,0&X2                                 7  2469  L 0|0 0!0         62   000+1   000+2
635  2 476         LCA   KEQ                                       4  2476  L ?67             62  3067
636  2 480         SBR   X2                                        4  2480  H 094             63   094
637  2 484         CW    2&X2                                      4  2484  ) 0!2             63   002+2
638  2 488         CW                                              1  2488  )                 63
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SEQ PG LIN  LABEL  OP    OPERANDS                                          SFX CT  LOCN  INSTRUCTION TYPE  CARD A-ADDR  B-ADDR

639  2 489         SW    2&X1                                                4  2489  , 0|2               63   002+1
640  2 493  LINK   LCA   0,0&X2                                              7  2493  L 000 0!0           63   000     000+2
641  2 500         LCA   GM                                                  4  2500  L N59               63  2559
642  2 504         SBR   IXTOP                                              4  2504  H P41               63  2741
643  2 508  RESTRT MCW   SX3B,X1                                            7  2508  M P52 089           64  2752     089
644  2 515         B     LOOP                                                4  2515  B |60               64  1060
645         *
646  2 519  ALMOST SBR   X1,5&X1  GET BACK ABOVE PREFIX IN LOW CORE         7  2519  H 089 0|5           64   089     005+1
647  2 526         MCW   IXTOP,X3                                           7  2526  M P41 099           64  2741     099
648  2 533         SBR   X2,5&X3                                           7  2533  H 094 0?5           64   094     005+3
649  2 540         MCW   SX2,X3                                            7  2540  M P31 099           64  2731     099
650         *
651  2 547  DONE   BSS   SNAPSH,C                                          5  2547  B 333 C             65   333
652  2 566         B     LOADNX                                              4  2552  B 700               65   700
653         *
654         * DATA
655         *
656  2 570         DCW   @<@                                                 1  2556                      65
657  2 571  TAG1   DC    @ @                                                 1  2557                      65
658  2 572  CH     DC    @ @                                                 1  2558                      65
659  2 573  GM     DC    @}@                                                 1  2559             GMARK    65
660  2 623         DCW   @ERROR 28 - INCORRECT MODE OF FUNCTION ARGUMENT, ST@ 50  2609                      67
661  2 631  ERR28  DC    @ATEMENT @                                          8  2617                      67
662  2 632         DCW   @-@                                                 1  2618                      67
663         *
664         * ROWS AND COLUMNS OF TABLE ARE INDEXED BY POSITIONS IN
665         * CHARS, TAKEN IN REVERSE ORDER.
666         *
667  2 642  CHARS  DCW   @, .@&}#%)*@  INTERESTING CHARACTERS?              10  2628                      67
668  2 643  TABLE  EQU   *&1                                                    2629
669         *         CURR  *)%#G&@. ,
670  2 652         DC    @220922200S@  *  PREV                             10  2638                      68
671  2 662         DC    @SSSSSSSSS@  )                                    10  2648                      68
672  2 672         DC    @0109700000@  %                                   10  2658                      68
673  2 682         DC    @07093000000@  #                                  10  2668                      69
674  2 692         DC    @6660S66666@  GM                                  10  2678                      69
675  2 702         DC    @020922000S@  &                                   10  2688                      69
676  2 712         DC    @220922200S@  AT  WAS /                           10  2698                      70
677  2 722         DC    @220922280S@  .   WAS **                          10  2708                      70
678  2 732         DC    @0509700000@  BLANK                               10  2718                      70
679  2 742         DC    @440944400S@  ,   WAS NEGATE                      10  2728                      71
680  2 745  SX2    DCW   #3                                                  3  2731                      71
681  2 747  CHKX2  DCW   #2                                                  2  2733                      71
682  2 749  K00    DCW   00                                                  2  2735                      71
683  2 752  X2P99  DCW   #3  X2 & X00 - 1                                   3  2738                      71
684  2 755  IXTOP  DCW   #3  INDEX OF STATEMENT IN TOP CORE                 3  2741                      72
685  2 758  IXTSAV DCW   #3                                                  3  2744                      72
686  2 761  SEQNO  DCW   #3                                                  3  2747                      72
687  2 762  KBRACK DCW   @]@                                                 1  2748                      72
688  2 763  KR     DCW   @R@                                                 1  2749                      72
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SEQ PG LIN  LABEL  OP    OPERANDS                                          SFX CT  LOCN  INSTRUCTION TYPE  CARD A-ADDR  B-ADDR
689  2 766  SX3B   DCW   #3                                                  3  2752                      72
690  2 802  ERR2   DCW   @MESSAGE 2 - OBJECT PROGRAM TOO LARGE@             36  2788                      73
691  2 814  KB12   DCW   #12                                                12  2800                      74
692  2 815  CURR   DCW   #1                                                 1  2801                      74
693  2 816  PREV   DCW   #1                                                 1  2802                      74
694  2 819  W3     DCW   #3                                                 3  2805                      74
695  2 820  CHNUM  DCW   #1                                                 1  2806                      74
696  2 823  ACHARS DSA   CHARS                                             3  2809  O28                 74  2628
697  2 824  K1     DCW   1                                                 1  2810                      74
698  2 825  KPLUS  DCW   @&@                                               1  2811                      75
699  2 828  W3B    DCW   #3                                                3  2814                      75
700  2 829  SAVTAG DCW   #1  TYPE TAG ZONE                                 1  2815                      75
701  2 867  ERR46  DCW   @ERROR 46 - MIXING IN ARITH, STATEMENT @          38  2853                      76
702  2 868  KN     DCW   @N@                                                1  2854                      76
703  2 870  W2     DCW   #2                                                 2  2856                      77
704  2 882  USRCOD DCW   @RUPWYZKJLMDH@  CODES FOR USER FUNCTIONS          12  2868                      77
705  2 884  KAX    DCW   @AX@                                              2  2870                      77
706  2 885  KLPAR  DCW   @%@                                               1  2871                      77
707  2 920  ERR24  DCW   @ERROR 24 - SYSTEM ERROR, STATEMENT @            35  2906                      78
708  2 960  ERR26  DCW   @ERROR 26 - EXCESS OF # SIGNS, STATEMENT @       40  2946                      80
709  3 000  ERR32  DCW   @ERROR 32 - MULTIPLE EXPONENT, STATEMENT @      40  2986                      82
710  3 040  ERR16  DCW   @ERROR 16 - PARENTHESIS ERROR, STATEMENT @       40  3026                      84
711  3 080  ERR25  DCW   @ERROR 25 - LEFT SIDE INVALID, STATEMENT @      40  3066                      86
712  3 081  KEQ    DCW   @#@                                                1  3067                      86
713  3 091  GMWM   DCW   @}@                                               1  3068            GMARK     86
714                XFR   BEGN34                                                  B 838                 87   838
715         CLRME  CLRA  BEGN34,GMWM                                                        MACRO
            *      CLRA  CLRBOT,CLRTOP[,ORG,GMWMAD]                                         GEN
            *                                                                               GEN
            * CLEAR CORE AFTER A PHASE USING THE CLRTOP ADDRESS                             GEN
            *                                                                               GEN
716                ORG   201                                                     0201
            *                                                                               GEN
            * CLEAR DOWN TO CLRBOT & X00 THE EASY WAY                                       GEN
            *                                                                               GEN
717         CLRME  EQU   *&1                                                 0201           GEN
718         )0J005 CS    GMWM         CLEAR FROM CLRTOP                    4  0201  / ?68       GEN     88  3068
719                SBR   )0J005&3                                           4  0205  H 204       GEN     88   204
720                SBR   )0L005&6                                           4  0209  H 250       GEN     88   250
721                C     )0J005&3,)0M005   DOWN TO CLRBOT & X00?           7  0213  C 204 261   GEN     88   204     261
722                BU    )0J005                                             5  0220  B 201 /     GEN     88   201
            *                                                                               GEN
            * NOW CLEAR DOWN TO CLRBOT THE HARD WAY                                         GEN
            *                                                                               GEN
723         )0K005 C     )0L005&6,)0N005                                    7  0225  C 250 264   GEN     88   250     264
724                BU    )0L005                                             5  0232  B 244 /     GEN     88   244
725                CS    LOADNX,)0Q005  LOAD THE NEXT BLOCK AT 1            7  0237  / 700 271   GEN     89   700     271
726         )0L005 LCA   )0P005,0-0     CLEAR WITH BLANK AND WORD MARK     7  0244  L 265 000   GEN     89   265     000
727                SBR   )0L005&6                                           4  0251  H 250       GEN     89   250
728                B     )0K005                                             4  0255  B 225       GEN     89   225
```

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

729         )0M005 DSA   )0R005         CLRBOT & X00 - 1                    3  0261  899         GEN     89   899
730         )0N005 DSA   BEGN34         CLRBOT                              3  0264  838         GEN     89   838
731         )0P005 DCW   #1                                                  1  0265              GEN     89
732                DC    @CLRA @     IDENTIFY IN A DECK, TAPE, OR DUMP       5  0270              GEN     89
733         )0Q005 DCW   @}@                                                 1  0271              GEN     90
734                ORG   BEGN34&X00                                                 0900
735         )0R005 EQU   *           CLRBOT & X00 - 1                        0899                GEN
736                XFR   CLRME                                                      B 201               91   201
```

SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS
)0J005	0201: 0	)0K005	0225: 0	)0L005	0244: 0	)0M005	0261: 0	)0N005	0264: 0	)0P005	0265: 0
)0Q005	0271: 0	)0R005	0899: 0	)6J003	0110: 0	)6K003	0700: 0	)6K004	0700: 0	)6L003	0704: 0
)6L004	0704: 0	)6M003	0728: 0	)6M004	0728: 0	)9J003	0252: 0	)9R003	0258: 0	)9R004	0242: 0
ACHARS	2809: 0	ALMOST	2519: 0	BEGIN3	0838: 0	BEGN34	0838: 0	CDOVLY	0700: 0	CH	2558: 0
CHARS	2628: 0	CHKX2	2733: 0	CHNUM	2806: 0	CLRL	0929: 0	CLRME	0201: 0	CLRX	0953: 0
COUNT	1573: 0	COUNTX	1599: 0	CURR	2801: 0	DONE	2547: 0	END1	2223: 0	ERR16	3026: 0
ERR2	2788: 0	ERR24	2906: 0	ERR25	3066: 0	ERR26	2946: 0	ERR28	2617: 0	ERR32	2986: 0
ERR46	2853: 0	ERRFIN	2447: 0	FIVE	1981: 0	FIVEA	2055: 0	FIVEB	2117: 0	FIVEC	2175: 0
FIVED	2207: 0	FIVEF	2003: 0	FOUR	1948: 0	GET00	0878: 0	GETB	1228: 0	GLOBER	0184: 0
GM	2559: 0	GMWM	3068: 0	GOT00	0913: 0	GOTB	1244: 0	HALT	1217: 0	HUNT	1291: 0
HUNTL	1303: 0	HUNTX	1343: 0	IFSTMT	1221: 0	IXTOP	2741: 0	IXTSAV	2744: 0	K00	2735: 0
K1	2810: 0	KAX	2870: 0	KB12	2800: 0	KBRACK	2748: 0	KEQ	3067: 0	KLPAR	2871: 0
KN	2854: 0	KPLUS	2811: 0	KR	2749: 0	LINK	2493: 0	LOADAD	0838: 0	LOADNX	0700: 0
LOCBRK	1179: 0	LOOK	1516: 0	LOOK2	1528: 0	LOOK3	1562: 0	LOOKCH	1539: 0	LOOP	1060: 0
MIXED	1852: 0	MORE	0961: 0	MOVEUP	1257: 0	MOVEUX	1287: 0	MSG16	2375: 0	MSG24	2261: 0
MSG25	2413: 0	MSG26	2299: 0	MSG28	2223: 0	MSG32	2337: 0	ONE	1618: 0	PART2	0201: 0
PHAS34	0201: 0	PHASLD	0381: 0	PREV	2802: 0	READY	1153: 0	RESTRT	2508: 0	SAVTAG	2815: 0
SEQNO	2747: 0	SKPSUB	1347: 0	SNAPEX	0564: 0	SNAPSH	0333: 0	SUBBAK	1761: 0	SUBTWO	1890: 0
SX2	2731: 0	SX3	0981: 0	SX3B	2752: 0	TABLE	2629: 0	TAG1	2557: 0	THREE	2458: 0
TOP3	2600: 0	TPERR	0728: 0	TPREAD	0704: 0	TWO	1659: 0	TWOA	1836: 0	USRCOD	2868: 0
USRFNC	2099: 0	W2	2856: 0	W3	2805: 0	W3B	2814: 0	WHEW	1381: 0	X1	0089: 0
X2	0094: 0	X2P99	2738: 0	X3	0099: 0	ZERO	1603: 0				

UNREFERENCED SYMBOLS

PHASLD SNAPEX TOP3 TPERR TPREAD