```
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

                          1401 FORTRAN SYSTEM   VERSION THREE                      50003              PAGE    1

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

 101  1 01   273    JOB   1401 FORTRAN SYSTEM   VERSION THREE
 102  1 02          CTL   645 11
 103  1 03          ORG   111                                                          0111
 104  1 04   XDOAD1 DCW   #1                                                  1  0111                        4
 105  1 05   XDOAD2 DCW   #1                                                  1  0112                        4
 106  1 06   XDOAD3 DCW   #1                                                  1  0113                        4
 107  1 07   XDOINI DCW   #1                                                  1  0114                        4
 108  1 08   XOBLST DCW   #1                                                  1  0115                        4
 109  1 09   XDOSBS DCW   #1                                                  1  0116                        4
 110  1 10   XCOMF1 DCW   #1                                                  1  0117                        4
 111  1 11   XSINFU DCW   #1                                                  1  0118                        5
 112  1 12   XLOGFN DCW   #1                                                  1  0119                        5
 113  1 13   XXPNTL DCW   #1                                                  1  0120                        5
 114  1 14   XATANF DCW   #1                                                  1  0121                        5
 115  1 15   XABSVA DCW   #1                                                  1  0122                        5
 116  1 16   XNEGTF DCW   #1                                                  1  0123                        5
 117  1 17   XFIXFU DCW   #1                                                  1  0124                        5
 118  1 18   XFLTFU DCW   #1                                                  1  0125                        6
 119  1 19   XSQRTF DCW   #1                                                  1  0126                        6
 120  1 20   XUSER1 DCW   #1                                                  1  0127                        6
 121  1 21   XUSER2 DCW   #1                                                  1  0128                        6
 122  1 22   XUSER3 DCW   #1                                                  1  0129                        6
 123  1 23   XUSER4 DCW   #1                                                  1  0130                        6
 124  1 24   XUSER5 DCW   #1                                                  1  0131                        6
 125  1 25   XUSER6 DCW   #1                                                  1  0132                        7
 126  1 26   XUSER7 DCW   #1                                                  1  0133                        7
 127  1 27   XUSER8 DCW   #1                                                  1  0134                        7
 128  1 28   XUSER9 DCW   #1                                                  1  0135                        7
 129  1 29   XUSR10 DCW   #1                                                  1  0136                        7
 130  1 30   XUSR11 DCW   #1                                                  1  0137                        7
 131  1 31   XUSR12 DCW   #1                                                  1  0138                        7
 132  1 32   XLINKF DCW   #1                                                  1  0139                        8
 133  1 33   NDTABL EQU   *&1                                                    0140
 134  1 34   ONEADR DCW   #3                ADDRESS OF CONSTANT ONE           3  0142                        8
 135  1 35   ADTBLL DCW   #3                NXBTM FOR STNUM TWO & RESORT 4    3  0145                        8
 136  1 36   BSAUCE DCW   #3                BOTTOM OF OBJECT FOR RESORT       3  0148                        8
 137  1 37   GNSTMZ DCW   #3                TOTAL NO OF DO-GENERATED STMTS    3  0151                        8
 138  1 38   PERIOD DCW   #3                ADDRESS OF PERIOD (NO LIST)       3  0154                        8
 139  1 39   XEXPON DCW   #3               ADDRESS OF CONSTANT .1             3  0157                        8
 140  1 40   PLUSDF DCW   #3         (PARAMA&2)-CONLST#16000S COMP. OF MACFLS  3  0160                        9
 141  1 41   MACFLS DCW   #3         COMPILE TIME ADR.&MACFLS#OBJ. TIME ADR.  3  0163                        9
 142  1 42          ORG   181                                                          0181
 143  1 43   INTSTZ DCW   #3                TOTAL NUMBER OF INPUT STATEMENTS  3  0183                       10
 144  1 44   GOGOGO EQU   *                 ADDRESS OF FIRST EXECUTABLE STMT     0183
 145  1 45   FAILSW DC    #1                CRIPPLE GO CONDITION SWITCH       1  0184                       10
 146  1 46   XLINKW DCW   #1                LOAD XLINK SWITCH                 1  0185                       10
 147  1 47   GOTOFN DCW   #3                ADDR OF FUNC SELECT ROUTINE       3  0188                       10
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SEQ PG LIN  LABEL  OP    OPERANDS                                    SFX CT  LOCN  INSTRUCTION TYPE  CARD
148  1 48   SUBSCR DCW   #3              OBJT TIME ADDR OF DOSBS FUNC      3  0191                    10
149  1 49   CONLST DCW   #3               ADR. OF POS. IMM. BEFORE ARRAYS  3  0194                    10
150  1 50   FUNCSW DC    #1                                               1  0195                    10
151  1 51          ORG   196                                                      0196
152  1 52          DCW   @V3M4@                                  V3M4     4  0199                    10
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SEQ PG LIN  LABEL  OP    OPERANDS                    SFX CT  LOCN  INSTRUCTION TYPE  CARD
153  1 53           JOB   1401 FORTRAN  SNAPSHOT ROUTINE
154  1 54           SFX   7                           7
155  1 55   XXX     EQU   0                           7       0000
156  1 56   XL1     EQU   089                         7       0089
157  1 57   089     DCW   000                         7   3   0089                    11
158  1 58   XL3     EQU   099                         7       0099
159  1 59   099     DCW   000                         7   3   0099                    12
160  1 60           ORG   333                         7             0333
161  1 61           SBR   PRTXT&3                     7   4   0333  H 567             13
162  1 62           SBR   HLDXT&6                     7   4   0337  H 408             13
163  1 63           MCW   @000@,LINCT-2               7   7   0341  M 661 656         13
164  1 64           MCW   XL3, HLD32&6                7   7   0348  M 099 415         13
165  1 65           MCW   XL1, HLD31&6                7   7   0355  M 089 422         13
166  1 66           SBR   XL1, 1                     7   7   0362  H 089 001         13
167  1 67           SBR   XL3, 202                   7   7   0369  H 099 202         14
168  1 68           CS    332                         7   4   0376  / 332             14
169  1 69           CS                                7   1   0380  /                 14
170  1 70           MCW   110,210                     7   7   0381  M 110 210         14
171  1 71           BSS   ONLY,F                      7   5   0388  B 621 F           14
172  1 72           CC    1                           7   2   0393  F 1               14
173  1 73           MCW   094,250                     7   7   0395  M 094 250         14
174  1 74   HLDXT   SBR   216,XXX                     7   7   0402  H 216 000         15
175  1 75   HLD32   SBR   256,XXX                     7   7   0409  H 256 000         15
176  1 76   HLD31   SBR   244,XXX                     7   7   0416  H 244 000         15
177  1 77           W                                 7   1   0423  2                 15
178  1 78           CC    K                           7   2   0424  F K               15
179  1 79           ZA    &2,PGCTR#2                  7   7   0426  ? 662 664         15
180  1 80   NULINE  CS    332                         7   4   0433  / 332             15
181  1 81           CS                                7   1   0437  /                 16
182  1 82           CC    J                           7   2   0438  F J               16
183  1 83           MCW   LINCT,306                   7   7   0440  M 658 306         16
184  1 84           MCW                               7   1   0447  M                 16
185  1 85           SBR   MVHED&6                     7   4   0448  H 465             16
186  1 86           MCW   @9@, CTR-1                  7   7   0452  M 665 668         16
187  1 87   MVHED   MCW   CTR-1,XXX                   7   7   0459  M 668 000         16
188  1 88           MCW   HEAD                        7   4   0466  M 651             17
189  1 89           SBR   MVHED&6                     7   4   0470  H 465             17
190  1 90           A     @I0@, CTR#2                 7   7   0474  A 667 669         17
191  1 91           BWZ   MVHED, CTR-1, 2             7   8   0481  V 459 668 2       17
192  1 92           A     &1,LINCT-2                  7   7   0489  A 670 656         17
193  1 93           W                                 7   1   0496  2                 17
194  1 94   LOOP    SW    0&X3                        7   4   0497  , 0?0             17
195  1 95           MCW   0&X1,0&X3                   7   7   0501  M 0|0 0?0         18
196  1 96           BW    CMPAB,0&X1                  7   8   0508  V 520 0|0 1       18
197  1 97           CW    0&X3                        7   4   0516  ) 0?0             18
198  1 98   CMPAB   C     XL1,PARAMA&2                7   7   0520  C 089 688         18
199  1 99           BU    CPL                         7   5   0527  B 568 /           18
200  2 00           W                                 7   1   0532  2                 18
201  2 01           WM                                7   2   0533  2 )               18
202  2 02   RSTRX   MCW   HLD31&6,XL1                 7   7   0535  M 422 089         19
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SEQ PG LIN  LABEL   OP    OPERANDS                  SFX CT  LOCN  INSTRUCTION TYPE  CARD
203  2 03           MCW   HLD32&6,XL3                7  7  0542  M 415 099          19
204  2 04           CS    332                        7  4  0549  / 332              19
205  2 05           CS                               7  1  0553  /                  19
206  2 06           BSS   *&5,G                      7  5  0554  B 563 G            19
207  2 07           B     PRTXT                      7  4  0559  B 564              19
208  2 08           H                                7  1  0563  .                  19
209  2 09  PRTXT    B     0                          7  4  0564  B 000              20
210  2 10  CPL      SBR   XL1, 1&X1                  7  7  0568  H 089 0|1          20
211  2 11           BCE   INC, XL3-2, 2              7  8  0575  B 632 097 2       20
212  2 12           SBR   XL3, 201                   7  7  0583  H 099 201          20
213  2 13           W                                7  1  0590  2                  20
214  2 14           WM                               7  2  0591  2 )                20
215  2 15           A     &1,PGCTR                   7  7  0593  A 670 664          20
216  2 16           C     PGCTR,&15                  7  7  0600  C 664 672          21
217  2 17           BU    NULINE                     7  5  0607  B 433 /            21
218  2 18           S     PGCTR                      7  4  0612  S 664              21
219  2 19           CCB   NULINE,1                   7  5  0616  F 433 1            21
220  2 20  ONLY     MCW   @EXECUTED@,220             7  7  0621  M 680 220          21
221  2 21           W     RSTRX                      7  4  0628  2 535              21
222  2 22  INC      A     &1,XL3                     7  7  0632  A 670 099          21
223  2 23           B     LOOP                       7  4  0639  B 497              22
224  2 24  HEAD     DCW   @9........@               7  9  0651                      22
225  2 25           DCW   @9-@                       7  2  0653                      22
226  2 26  LINCT    DCW   00000                      7  5  0658                      22
227  2 27           LTORG *                          7        0659
                    DCW   @000@                      7  3  0661          LIT     22
                    DCW   &2                         7  1  0662          LIT     22
               PGCTR7 DCW #02                        7  2  0664          AREA    22
                    DCW   @9@                        7  1  0665          LIT     23
                    DCW   @I0@                       7  2  0667          LIT     23
               CTR  7 DCW #02                        7  2  0669          AREA    23
                    DCW   &1                         7  1  0670          LIT     23
                    DCW   &15                        7  2  0672          LIT     23
                    DCW   @EXECUTED@                 7  8  0680          LIT     23
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SEQ PG LIN  LABEL   OP    OPERANDS                                          SFX CT  LOCN  INSTRUCTION TYPE  CARD
228  2 28           JOB   1401 FORTRAN  SYSTEM MONITOR AND PARAMETER CARD    7
229  2 29           SFX   A                                                 A
230  2 30   PRMCD   DA    1X19                                              A      0681   0699              23
231  2 31   PARAM         6                                                 A      0686              SBFLD
232  2 32   MONTER  MCW   BCLEAR-2,CCLEAR-2                                 A   7  0700  M 831 828         24
233  2 33   ACLEAR  CS    0                                                 A   4  0707  / 000             24
234  2 34           SBR   TCLEAR                                            A   4  0711  H 710             24
235  2 35           C     TCLEAR,CCLEAR                                     A   7  0715  C 710 830         24
236  2 36           BU    ACLEAR                                            A   5  0722  B 707 /           24
237  2 37           SW    LOD&4                                             A   4  0727  , 758             24
238  2 38           MCW   TCLEAR,LOD&6                                     A   7  0731  M 710 760         25
239  2 39           CW    LOD&4                                             A   4  0738  ) 758             25
240  2 40   CK      C     LOD&6,BCLEAR#3                                    A   7  0742  C 760 833         25
241  2 41           BE    MONTOR                                            A   5  0749  B 769 S           25
242  2 42   LOD     LCA   @ @,0                          BLANK              A   7  0754  L 834 000         25
243  2 43           SBR   LOD&6                                            A   4  0761  H 760             25
244  2 44           B     CK                                                A   4  0765  B 742             25
245  2 45   TCLEAR  EQU   ACLEAR&3                                          A      0710
246  2 46   *RESTRICTIONS ON CLEAR ROUTINE
247  2 47   *               1. MUST CLEAR AT LEAST ONE CENTURY
248  2 48   *               2. CANNOT CLEAR ABOVE 4K
249  2 49   MONTOR  R     040                                               A   4  0769  1 040             26
250  2 50   NINE    MCW   &9,RDCNT                                          A   7  0773  M 835 837         26
251  2 51   INITAP  RTW   1,XBEGIN                                          A   8  0780  L %U1 838 R       26
252  2 52           BER   ERRTP                                             A   5  0788  B 797 L           26
253  2 53   INITXT  B     XBEGIN                                            A   4  0793  B 838             26
254  2 54   ERRTP   BSP   1                                                 A   5  0797  U %U1 B           26
255  2 55           S     &1,RDCNT#1                                        A   7  0802  S 836 837         27
256  2 56           BWZ   INITAP,RDCNT,B                                   A   8  0809  V 780 837 B       27
257  2 57           H     3333,3333                                         A   7  0817  . C33 C33         27
258  2 58           B     NINE                                              A   4  0824  B 773             27
259  2 59   CCLEAR  DCW   999                                               A   3  0830                    27
260  2 60           LTORG *                                                 A          0831
               BCLEAR  DCW   #03                                           A   3  0833            AREA  27
                       DCW   @ @                                           A   1  0834            LIT   27
                       DCW   &9                                            A   1  0835            LIT   28
                       DCW   &1                                            A   1  0836            LIT   28
               RDCNTA  DCW   #01                                           A   1  0837            AREA  28
261  2 61   XBEGIN  EQU   *&1                                              A      0838
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SEQ PG LIN  LABEL  OP    OPERANDS                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD
262  2 62           JOB   1401 FORTRAN  LOADER PHASE                A
263  2 63           FBEGN LOADER,XL1,R,XL2,R,XL3,R,A                 A                       MACRO
264                 SFX   A                                        A                       GEN
265          110    DCW   @LOADER@                                  A   6  0110              GEN     29
266          XL1    EQU   089                                      A      0089              GEN
267          089    DCW   000                                      A   3  0089              GEN     30
268          091    DC    00                                       A   2  0091              GEN     30
269          XL2    EQU   094                                      A      0094              GEN
270          094    DCW   000                                      A   3  0094              GEN     30
271          096    DC    00                                       A   2  0096              GEN     30
272          XL3    EQU   099                                      A      0099              GEN
273          099    DCW   000                                      A   3  0099              GEN     30
274          100    DC    0                                        A   1  0100              GEN     30
275  2 64    START  BCE   *&8,1,                        BLANK       A   8  0838  B 853 001           31
276  2 65           MCW   @N@,MONTOR                               A   7  0846  M N49 769           31
277  2 66           CS    080                                      A   4  0853  / 080              31
278  2 67           SW    1,GM                                     A   7  0857  , 001 N29          31
279  2 68           SW    81,84                                    A   7  0864  , 081 084          31
280  2 69           CS    332                                      A   4  0871  / 332              31
281  2 70           CS                                             A   1  0875  /                  31
282  2 71           R                                              A   1  0876  1                  32
283  2 72           LCA   19,PRMCD&18                              A   7  0877  L 019 699          32
284  2 73           C     PRMCD&4,@PARAM@                          A   7  0884  C 685 N54          32
285  2 74           BU    NOPRM                                    A   5  0891  B L24 /            32
286  2 75           SW    073                                      A   4  0896  , 073              32
287  2 76           SW    006,007                                  A   7  0900  , 006 007          32
288  2 77           SW    PARAM                                    A   4  0907  , 686              32
289  2 78           MCW   80,PARAM-1                               A   7  0911  M 080 685          33
290  2 79           CS    0                    DETERMINE TOP OF    A   4  0918  / 000              33
291  2 80           SBR   LARRY#3               MACHINE            A   4  0922  H N57              33
292  2 81           MCW   PARAM&2,DUM3#3                           A   7  0926  M 688 N60          33
293  2 82           B     UNPAK                                    A   4  0933  B Y76              33
294  2 83           MCW   DUM5#5,WK5                               A   7  0937  M N65 O53          33
295  2 84           MCW   LARRY,DUM3                               A   7  0944  M N57 N60          34
296  2 85           B     UNPAK                                    A   4  0951  B Y76              34
297  2 86           MCW   DUM5,WK51                                A   7  0955  M N65 O48          34
298  2 87           A     &1,WK5                                   A   7  0962  A N66 O53          34
299  2 88           A     &1,WK51                                  A   7  0969  A N66 O48          34
300  2 89           CS    332                                      A   4  0976  / 332              34
301  2 90           CS                                             A   1  0980  /                  34
302  2 91           MESSG @START OF FORTRAN COMPILATION@,28,1,J     A                       MACRO
303                 CC    1                                        A   2  0981  F 1          GEN     35
304                 CS    332                                      A   4  0983  / 332        GEN     35
305                 CS                                             A   1  0987  /            GEN     35
306                 MCW   @START OF FORTRAN COMPILATION@,28&200     A   7  0988  M N94 228    GEN     35
307                 W                                              A   1  0995  2            GEN     35
308                 CC    J                                        A   2  0996  F J          GEN     35
309  2 92           MCW   WK5,231                                  A   7  0998  M O53 231          35
310  2 93           MCW   @MACHINE SIZE SPECIFIED IS @             A   4  1005  M O20              36
311  2 94           W                                              A   1  1009  2                 36
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SEQ PG LIN  LABEL  OP    OPERANDS                                                SFX CT  LOCN  INSTRUCTION TYPE  CARD
312  2 95          CS    235                                                      A   4  1010  / 235              36
313  2 96          MCW   WK51,228                                                 A   7  1014  M O48 228          36
314  2 97          MCW   @ACTUAL MACHINE SIZE IS @                               A   4  1021  M O43              36
315  2 98          BCE   EXIT,PARAM&9,T                                          A   8  1025  B |96 695 T        36
316  2 99          W                                                             A   1  1033  2                  36
317  3 00          C     WK51#5,WK5#5                                            A   7  1034  C O48 O53          37
318  3 01          BH    MSERR                                                   A   5  1041  B |77 U            37
319  3 02          C     WK5,@03900@                                             A   7  1046  C O53 O58          37
320  3 03          BL    EXIT                                                    A   5  1053  B |96 T            37
321  3 04          MESSG @MACHINE SIZE ERROR@,18,J                               A                MACRO
322                CC    J                                                       A   2  1058  F J        GEN     37
323                CS    332                                                     A   4  1060  / 332      GEN     37
324                CS                                                            A   1  1064  /          GEN     37
325                MCW   @MACHINE SIZE ERROR@,18&200                             A   7  1065  M O76 218   GEN     38
326                W                                                             A   1  1072  2          GEN     38
327  3 05          B     L2PRM                                                   A   4  1073  B |89              38
328  3 06  MSERR   MCW   @SPECIFIED IS GREATER THAN ACTUAL MACHINE SIZE.@,267    A   7  1077  M P22 267          38
329  3 07          MCW   @ERROR - MACHINE SIZE @                                 A   4  1084  M P43              38
330  3 08          W                                                             A   1  1088  2                  38
331  3 09  L2PRM   MCW   LARRY,PARAM&2                                           A   7  1089  M N57 688          38
332  3 10  EXIT    MCW   PARAM&2,CLR&3                                           A   7  1096  M 688 /06          39
333  3 11  CLR     CS    0                                                       A   4  1103  / 000              39
334  3 12          SBR   CLR&3                                                   A   4  1107  H /06              39
335  3 13          C     CLR&3,&SYSGM                                            A   7  1111  C /06 P46          39
336  3 14          BU    CLR                                                     A   5  1118  B /03 /            39
337  3 15          R                                                             A   1  1123  1                  39
338  3 16          MZ    *-006,WORK&76                                           A   7  1124  Y /24 N01          39
339  3 17          MZ    *-006,ABIT&007                                          A   7  1131  Y /31 X07          40
340  3 18          MZ    *-6,ABIT2&7                                             A   7  1138  Y /38 Z80          40
341  3 19          MZ    *-6,CHAR-1                                              A   7  1145  Y /45 L87          40
342  3 20          MCW   NUMBER,WORK&003                                         A   7  1152  M N33 M28          40
343  3 21          MCW   PARAM&002,DUMMY&003                                     A   7  1159  M 688 /69          40
344  3 22  DUMMY   CW    0000                                                    A   4  1166  ) 000              40
345  3 23          SBR   STORE&006                                               A   4  1170  H T70              41
346  3 24  MOVE    BW    MVIPT,ENDSW                                             A   8  1174  V S11 Q28 1        41
347  3 25          BCE   SCANR,001,:                    5-8                      A   8  1182  B !70 001 :        41
348  3 26  PRMSG   MESSG @MESSAGE 1-SYSTEM DOES NOT FOLLOW END CARD@,70,1,1     A                MACRO
349        PRMSG   CC    1                                                       A   2  1190  F 1        GEN     41
350                CS    332                                                     A   4  1192  / 332      GEN     41
351                CS                                                            A   1  1196  /          GEN     41
352                MCW   @MESSAGE 1-SYSTEM DOES NOT FOLLOW END CARD@,70&200     A   7  1197  M P87 270   GEN     41
353                W                                                             A   1  1204  2          GEN     42
354                CC    1                                                       A   2  1205  F 1        GEN     42
355  3 27          H     *-3                                                     A   4  1207  . S07              42
356  3 28  MVIPT   MCW   0072,WORK&075                                           A   7  1211  M 072 N00          42
357  3 29          MCW                                                           A   1  1218  M                  42
358  3 30          MCW                                                           A   1  1219  M                  42
359  3 31          BCE   SCANR,WORK&004,:                  5-8                  A   8  1220  B !70 M29 :        42
360  3 32  TOVL    BIN   PRTHD,    CARRIAGE OVERFLOW TEST - INITIALIZED          A   5  1228  B K67              43
361  3 33  M2PRT   CS    300                                                     A   4  1233  / 300              43
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SEQ PG LIN  LABEL  OP    OPERANDS                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD

362  3 34          CS                                              A   1  1237  /                   43
363  3 35          MCW   0072,0283                                 A   7  1238  M 072 283           43
364  3 36          MCW   006,215                                   A   7  1245  M 006 215           43
365  3 37          BCE   CMNT,WORK&4,C                             A   8  1252  B L58 M29 C         43
366  3 38  FSTNU   B     NEW                                       A   4  1260  B V46               43
367  3 39          BCE   NEW,WORK&009,0                            A   8  1264  B V46 M34 0         44
368  3 40          BCE   NEW,WORK&009,                             A   8  1272  B V46 M34           44
369  3 41          A     &1,CTUCD                                  A   7  1280  A N66 Q24           44
370  3 42          BCE   *&8,CTUCD-1,0                             A   8  1287  B T02 Q23 0         44
371  3 43          MCW   @CONTINUE CD ERR@,300                     A   7  1295  M Q02 300           44
372  3 44          W                                               A   1  1302  2                   44
373  3 45          MCW   INILZ1,SEL&003                            A   7  1303  M N06 T13           45
374  3 46  SEL     MCW   0000,FIXED                                A   7  1310  M 000 Q31           45
375  3 47          SW    SEL&001                                   A   4  1317  , T11               45
376  3 48          A     ONE,SEL&003                               A   7  1321  A N10 T13           45
377  3 49          CW    SEL&001                                   A   4  1328  ) T11               45
378  3 50  SW1     NOP   CKLHC                                     A   4  1332  N Z73               45
379  3 51          BCE   SEL,FIXED,                  BLANK         A   8  1336  B T10 Q31           46
380  3 52          MCW   FIXED,*&8                                 A   7  1344  M Q31 T58           46
381  3 53          BCE   ABIT,CHAR,0                               A   8  1351  B X00 L88 0         46
382  3 54          CHAIN 5                                         A                       MACRO
383                BCE                                             A   1  1359  B           GEN     46
384                BCE                                             A   1  1360  B           GEN     46
385                BCE                                             A   1  1361  B           GEN     46
386                BCE                                             A   1  1362  B           GEN     46
387                BCE                                             A   1  1363  B           GEN     47
388  3 55  STORE   MCW   FIXED,0000                                A   7  1364  M Q31 000           47
389  3 56          SBR   STORE&006                                 A   4  1371  H T70               47
390  3 57  INCTO   A     &1,TOTAL#5                                A   7  1375  A N66 Q07           47
391  3 58          C     STORE&6,&LDRND                            A   7  1382  C T70 Q10           47
392  3 59          BE    QUIT                                      A   5  1389  B K33 S             47
393  3 60  HSW     BCE   HOLLR,FIXED,H                             A   8  1394  B X51 Q31 H         47
394  3 61  HSW2    NOP   @B@,HSW                                   A   7  1402  N Q11 T94           48
395  3 62  CMPAR   C     SEL&003,INILZ1                            A   7  1409  C T13 N06           48
396  3 63  SWTCH2  BIN   SEL,/                                     A   5  1416  B T10 /             48
397  3 64          SW    STORE&004                                 A   4  1421  , T68               48
398  3 65  JUMP    MCW   STORE&006,XL2                             A   7  1425  M T70 094           48
399  3 66          CW    STORE&004                                 A   4  1432  ) T68               48
400  3 67          MCW   N,JUMP                                    A   7  1436  M N28 U25           49
401  3 68          MCW   N,SWTCH2                                  A   7  1443  M N28 U16           49
402  3 69          A     TEN,COUNT                                 A   7  1450  A N36 N03           49
403  3 70          BCE   TSTND,COUNT-1,5                           A   8  1457  B W69 N02 5         49
404  3 71          SW    ENDSW                                     A   4  1465  , Q28               49
405  3 72          BWZ   SEL,COUNT-001,2                           A   8  1469  V T10 N02 2         50
406  3 73          MCW   B,SWTCH2                                  A   7  1477  M N11 U16           50
407  3 74  REMOVE  MCW   0&X2,OUT                                  A   7  1484  M 0!0 N20           50
408  3 75          C     FORMAT,OUT                                A   7  1491  C N27 N20           50
409  3 76          BU    SEL                                       A   5  1498  B T10 /             50
410  3 77          MCW   @B@,HSW                                   A   7  1503  M Q11 T94           51
411  3 78          MCW   0&X3,WORK6#6                              A   7  1510  M 0?0 Q17           51
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SEQ PG LIN  LABEL  OP    OPERANDS                                SFX CT  LOCN  INSTRUCTION TYPE  CARD
412  3 79           MCW   @F@,WORK6-3                             A   7  1517  M Q18 Q14          51
413  3 80           MCW   WORK6,0&X3                             A   7  1524  M Q17 0?0          51
414  3 81           B     SEL                                     A   4  1531  B T10             51
415  3 82   SLASH   MCW   @@@,FIXED                               A   7  1535  M Q19 Q31         51
416  3 83           B     STORE                                   A   4  1542  B T64             52
417  3 84   NEW     MCW   @N@,FSTNU                              A   7  1546  M N49 S60         52
418  3 85           A     &1,STMNO#3                              A   7  1553  A N66 Q22         52
419  3 86           MCW   @N@,HSW                               A   7  1560  M N49 T94         52
420  3 87           MCW   @N@,HSW2                              A   7  1567  M N49 U02         52
421  3 88           MCW   5,211                                  A   7  1574  M 005 211         52
422  3 89           S     CTUCD#2                                 A   4  1581  S Q24             53
423  3 09           MCW   @N@,SW1                               A   7  1585  M N49 T32         53
424  3 91           MCS   STMNO,203                             A   7  1592  Z Q22 203         53
425  3 92           W                                           A   1  1599  2                 53
426  3 93           SW    STORE&004                               A   4  1600  , T68             53
427  3 94           MCW   STORE&006,LOADGM&006                   A   7  1604  M T70 W28         53
428  3 95           CW    STORE&4                                 A   4  1611  ) T68             53
429  3 96           MCW   M,JUMP                                  A   7  1615  M N37 U25         54
430  3 97   LOADGM  LCA   GM,0000                                A   7  1622  L N29 000         54
431  3 98           SBR   XL3                                     A   4  1629  H 099             54
432  3 99           SBR   STORE&006                               A   4  1633  H T70             54
433  4 00           MCW   MARK,WORK&009                           A   7  1637  M N34 M34         54
434  4 01           MCW   B,SWTCH2                                A   7  1644  M N11 U16         54
435  4 02           MCW   TWO,COUNT                               A   7  1651  M N13 N03         55
436  4 03           MCW   INILZ2,SEL&003                          A   7  1658  M N09 T13         55
437  4 04           B     SEL                                     A   4  1665  B T10             55
438  4 05   TSTND   C     0&X2,@DNE@                              A   7  1669  C 0!0 Q27         55
439  4 06           BU    SEL                                     A   5  1676  B T10 /           55
440  4 07           CW    ENDSW#1                                 A   4  1681  ) Q28             55
441  4 08           B     SEL                                     A   4  1685  B T10             55
442  4 09   ATSGN   MCW   @-@,FIXED                               A   7  1689  M Q29 Q31         56
443  4 10           B     STORE                                   A   4  1696  B T64             56
444  4 11   ABIT    BCE   INPUT,FIXED,                ABIT       A   8  1700  B L73 Q31         56
445  4 12           BCE   INPUT,FIXED,|                          A   8  1708  B L73 Q31 |        56
446  4 13           BCE   SLASH,FIXED,/                         A   8  1716  B V35 Q31 /        56
447  4 14           BCE   ATSGN,FIXED,@                         A   8  1724  B W89 Q31 @        57
448  4 15           MCW   @*@,300                               A   7  1732  M Q30 300          57
449  4 16           MCW   KPROC                                   A   4  1739  M N48             57
450  4 17           MCW   FIXED#1                               A   4  1743  M Q31             57
451  4 18           B     STORE                                   A   4  1747  B T64             57
452  4 19   HOLLR   MCW   STORE&6,XL1                            A   7  1751  M T70 089         57
453  4 20           MCW   @N@,HSW                               A   7  1758  M N49 T94         58
454  4 21           MCW   @N@,HSW2                              A   7  1765  M N49 U02         58
455  4 22           MCW   @B@,SW1                               A   7  1772  M Q11 T32         58
456  4 23           MCW   4&X1,WORK3#3                          A   7  1779  M 0|4 Q34         58
457  4 24           BCE   *&9,WORK3-1,@                         A   8  1786  B Y02 Q33 @       58
458  4 25           BWZ   MYB2,WORK3-1,2                        A   8  1794  V Y17 Q33 2       59
459  4 26           MCW   WORK3-2,WORK3                         A   7  1802  M Q32 Q34         59
460  4 27           MCW   @00@                                   A   4  1809  M Q36             59
461  4 28           B     CMPAR                                   A   4  1813  B U09             59
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SEQ PG LIN  LABEL  OP    OPERANDS                    SFX CT  LOCN  INSTRUCTION TYPE  CARD
462  4 29   MYB2   BCE   *&9,WORK3,@                  A   8  1817  B Y33 Q34 @        59
463  4 30          BWZ   ISTRI,WORK3,2                A   8  1825  V Y51 Q34 2      59
464  4 31          MCW   WORK3-2,WORK3                A   7  1833  M Q32 Q34        60
465  4 32          MCW   @0@,WORK3-2                  A   7  1840  M Q37 Q32        60
466  4 33          B     CMPAR                        A   4  1847  B U09            60
467  4 34   ISTRI  MCW   WORK3,SAV1#1                 A   7  1851  M Q34 Q38        60
468  4 35          MCW   WORK3-2,WORK3                A   7  1858  M Q32 Q34        60
469  4 36          MCW   SAV1,WORK3-2                 A   7  1865  M Q38 Q32        60
470  4 37          B     CMPAR                        A   4  1872  B U09            61
471  4 38   UNPAK  SBR   PKXT&3                       A   4  1876  H Z72            61
472  4 39          UNPAK DUM3,DUM5                    A                   MACRO
473                S     )0M005#2                     A   4  1880  S Q40      GEN   61
474                S     )0L005#2                     A   4  1884  S Q42      GEN   61
475                MZ    DUM3,)0M005-1                A   7  1888  Y N60 Q39  GEN   61
476                MZ    DUM3-2,)0L005-1              A   7  1895  Y N58 Q41  GEN   61
477         )0J005 BWZ   )0K005, )0L005-1, 2          A   8  1902  V Z21 Q41 2 GEN   61
478                A     @A0@, )0L005                 A   7  1910  A Q44 Q42  GEN   62
479                B     )0J005                       A   4  1917  B Z02      GEN   62
480         )0K005 BWZ   )0P005, )0M005-1, 2          A   8  1921  V Z40 Q39 2 GEN   62
481                A     @?4@, )0M005                 A   7  1929  A Q46 Q40  GEN   62
482                B     )0K005                       A   4  1936  B Z21      GEN   62
483         )0P005 A     )0L005-1,)0M005              A   7  1940  A Q41 Q40  GEN   62
484                MCW   DUM3,DUM5                    A   7  1947  M N60 N65  GEN   63
485                MCW   )0M005                       A   4  1954  M Q40      GEN   63
486                ZA    DUM5                         A   4  1958  ? N65      GEN   63
487                MZ    *-4, DUM5                    A   7  1962  Y Z64 N65  GEN   63
488  4 40   PKXT   B     000                          A   4  1969  B 000            63
489  4 41   ABIT2  EQU   *&1                          A      1973                   63
490  4 42   CKLHC  BCE   INPUT,FIXED,                 A   8  1973  B L73 Q31        63
491  4 43          S     &1,WORK3                     A   7  1981  S N66 Q34        64
492  4 44          C     WORK3,&000                   A   7  1988  C Q34 Q49        64
493  4 45          BU    STORE                        A   5  1995  B T64 /          64
494  4 46          MCW   @M@,HSW2                     A   7  2000  M Q50 U02        64
495  4 47          MCW   N,SW1                       A   7  2007  M N28 T32        64
496  4 48          MCW   SEL&3,XL1                    A   7  2014  M T13 089        65
497  4 49          C     0&X1,@,@                     A   7  2021  C 0|0 Q51        65
498  4 50          BE    STORE                        A   5  2028  B T64 S          65
499  4 51          MCW   STORE&6,*&7                  A   7  2033  M T70 !46        65
500  4 52          MCW   0,0                          A   7  2040  M 000 000        65
501  4 53          MCW   @,@                          A   4  2047  M Q51            65
502  4 54          SBR   STORE&6                      A   4  2051  H T70            66
503  4 55          A     &1,TOTAL                     A   7  2055  A N66 Q07        66
504  4 46          B     INCTO                        A   4  2062  B T75            66
505  4 57          B     STORE                        A   4  2066  B T64            66
506  4 58   SCANR  MCW   STORE&6,XL1                  A   7  2070  M T70 089        66
507  4 59          LCA   GM,0&X1                      A   7  2077  L N29 0|0        66
508  4 60          SBR   XL1                          A   4  2084  H 089            66
509  4 61          CC    1                            A   2  2088  F 1              67
510  4 62          CS    332                          A   4  2090  / 332            67
511  4 63          CS                                 A   1  2094  /                67
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SEQ PG LIN  LABEL  OP    OPERANDS                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD
512  4 64           MCS   TOTAL,205                                  A  7  2095  Z Q07 205          67
513  4 65           MCW   @INPUT CHARACTERS@,222                     A  7  2102  M Q67 222          67
514  4 66           W                                                A  1  2109  2                 67
515  4 67           CC    J                                          A  2  2110  F J               67
516  4 68           MCW   STMNO,INTSTZ                              A  7  2112  M Q22 183          68
517  4 69           LCA   @ }POTS:R000@,0&X1          G-M,5-8       A  7  2119  L Q78 0|0          68
518  4 70           SBR   XL1                                        A  4  2126  H 089              68
519  4 71           SW    2&X1                                       A  4  2130  , 0|2              68
520  4 72           A     &1,INTSTZ                                  A  7  2134  A N66 183          68
521  4 73           BCE   *&5,LDRND,                  BLANK          A  8  2141  B J53 ?00          68
522  4 74           B     QUIT                                       A  4  2149  B K33              69
523  4 75           SBR   TCLEAR,SYSGM                               A  7  2153  H 710 R99          69
524  4 76           SBR   BCLEAR,XBEGIN                            A  7  2160  H 833 838          69
525  4 77           BSS   333,C                                      A  5  2167  B 333 C            69
526  4 78           LCA   @SCANNER@,110                             A  7  2172  L Q85 110          69
527  4 79           CS    080                                        A  4  2179  / 080              69
528  4 80           SW    1,40                                       A  7  2183  , 001 040          70
529  4 81           SW    47,54                                      A  7  2190  , 047 054          70
530  4 82           SW    61,68                                      A  7  2197  , 061 068          70
531  4 83           SW    72                                         A  4  2204  , 072              70
532  4 84           BCE   MONTER,MONTOR,N       TAPE SYSTEM         A  8  2208  B 700 769 N          70
533  4 85           R                                                A  1  2216  1                 70
534  4 86           C     7,@SCANNER@                                A  7  2217  C 007 Q92          71
535  4 87           BE    MONTER                                     A  5  2224  B 700 S            71
536  4 88           B     PRMSG                                      A  4  2229  B /90              71
537  4 89  QUIT     FQUIT                                            A                    MACRO
538           QUIT  CS    332                                        A  4  2233  / 332        GEN   71
539                 CS                                               A  1  2237  /           GEN   71
540                 CC    1                                          A  2  2238  F 1          GEN   71
541                 MCW   @MESSAGE 2 - OBJECT PROGRAM TOO LARGE@,270 A  7  2240  M R28 270   GEN   71
542                 W                                                A  1  2247  2           GEN   72
543                 CC    1                                          A  2  2248  F 1          GEN   72
544                 BCE   *&6,MONTOR,1                               A  8  2250  B K63 769 1 GEN   72
545                 RWD   1                                          A  5  2258  U %U1 R     GEN   72
546                 H     *-3                                        A  4  2263  . K63        GEN   72
547  4 90  PRTHD    CC    1                                          A  2  2267  F 1               72
548  4 91           MCW   @@@,TOVL&4                                A  7  2269  M Q19 S32          72
549  4 92           CS    299                                        A  4  2276  / 299              73
550  4 93           A     ONE,PGNO#003                               A  7  2280  A N10 R31          73
551  4 94           MCS   PGNO,299                                  A  7  2287  Z R31 299          73
552  4 95           MCW   @   PAGE @,295                            A  7  2294  M R39 295          73
553  4 96           MCW   080                                        A  4  2301  M 080              73
554  4 97           W                                                A  1  2305  2                 73
555  4 98           CS    299                                        A  4  2306  / 299              73
556  4 99           MCW   KFSM,234                                  A  7  2310  M M23 234          74
557  5 00           W                                                A  1  2317  2                 74
558  5 01           CC    J                                          A  2  2318  F J               74
559  5 02           B     M2PRT                                      A  4  2320  B S33              74
560  5 03  NOPRM    MESSG @MESSAGE 3 - NO PARAMETER CARD@,70,1,1     A                    MACRO
561           NOPRM  CC    1                                          A  2  2324  F 1          GEN   74
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SEQ PG LIN  LABEL   OP    OPERANDS                                                SFX CT  LOCN  INSTRUCTION TYPE  CARD
562                 CS    332                                                     A   4  2326  / 332       GEN     74
563                 CS                                                            A   1  2330  /           GEN     74
564                 MCW   @MESSAGE 3 - NO PARAMETER CARD@,70&200                  A   7  2331  M R68 270   GEN     75
565                 W                                                             A   1  2338  2           GEN     75
566                 CC    1                                                       A   2  2339  F 1         GEN     75
567  5 04           BCE   *&6,MONTOR,1                                            A   8  2341  B L54 769 1         75
568  5 05           RWD   1                                                       A   5  2349  U %U1 R            75
569  5 06           H     *-3                                                     A   4  2354  . L54              75
570  5 07   CMNT    MCW   BLNK3#3,203                                            A   7  2358  M R71 203          75
571  5 08           MCW   005,211                                                 A   7  2365  M 005 211          76
572  5 09           W                                                             A   1  2372  2                  76
573  5 10   INPUT   BLC   SCANR                                                   A   5  2373  B !70 A            76
574  5 11           R                                                             A   1  2378  1                  76
575  5 12           B     MOVE                                                    A   4  2379  B /74              76
576  5 13   CHAR    DCW   @$@/|  @                      LAST TWO A-BIT,BLANK     A   6  2388                     76
577  5 14   KFSM    DCW   @ SEQ   STMNT      FORTRAN STATEMENT@                   A  35  2423                     77
578  5 15           DCW   @ @                                                     A   1  2424                     77
579  5 16   WORK    DS    01                                                      A      2425
580  5 17           DS    76                                                      A      2501
581  5 18   COUNT   DCW   #2                                                      A   2  2503                     78
582  5 19   INILZ1  DSA   &WORK&010                                               A   3  2506  M35                78
583  5 20   INILZ2  DSA   &WORK                                                   A   3  2509  M25                78
584  5 21   ONE     DCW   @1@                                                     A   1  2510                     78
585  5 22   B       DC    @B@                                                     A   1  2511                     78
586  5 23   TWO     DC    @20@                                                    A   2  2513                     78
587  5 24   OUT     DCW   @       @                                               A   7  2520                     78
588  5 25   FORMAT  DCW   @%TAMROF@                                              A   7  2527                     78
589  5 26   N       DC    @N@                                                     A   1  2528                     78
590  5 27   GM      DC    @}@                           GROUP MARK                A   1  2529             GMARK   78
591  5 28   NUMBER  DCW   @000R@                                                  A   4  2533                     78
592  5 29   MARK    DCW   @:@                           5-8                       A   1  2534                     79
593  5 30   TEN     DCW   @10@                                                    A   2  2536                     79
594  5 31   M       DC    @M@                                                     A   1  2537                     79
595  5 32   KPROC   DCW   @ PROCESSED @                                          A  11  2548                     79
596  5 33           LTORG *                                                       A          2549
                    DCW   @N@                                                     A   1  2549             LIT     79
                    DCW   @PARAM@                                                 A   5  2554             LIT     79
               LARRYA DCW   #03                                                   A   3  2557             AREA    79
               DUM3 A DCW   #03                                                   A   3  2560             AREA    79
               DUM5 A DCW   #05                                                   A   5  2565             AREA    80
                    DCW   &1                                                      A   1  2566             LIT     80
                    DCW   @START OF FORTRAN COMPILATION@                          A  28  2594             LIT     80
                    DCW   @MACHINE SIZE SPECIFIED IS @                            A  26  2620             LIT     81
                    DCW   @ACTUAL MACHINE SIZE IS @                               A  23  2643             LIT     82
               WK51 A DCW   #05                                                   A   5  2648             AREA    82
               WK5  A DCW   #05                                                   A   5  2653             AREA    82
                    DCW   @03900@                                                 A   5  2658             LIT     82
                    DCW   @MACHINE SIZE ERROR@                                    A  18  2676             LIT     83
                    DCW   @SPECIFIED IS GREATER THAN ACTUAL MACHINE SIZE.@        A  46  2722             LIT     85
                    DCW   @ERROR - MACHINE SIZE @                                 A  21  2743             LIT     85
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SEQ PG LIN  LABEL   OP    OPERANDS                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD
                    DCW   &SYSGMA                                    A  3  2746  R99         ADCON   85
                    DCW   @MESSAGE 1-SYSTEM DOES NOT FOLLOW END CARD@ A 41  2787              LIT     87
                    DCW   @CONTINUE CD ERR@                          A 15  2802              LIT     87
              TOTALA DCW  #05                                        A  5  2807              AREA    87
                    DCW   &LDRNDA                                    A  3  2810  ?00         ADCON   87
                    DCW   @B@                                        A  1  2811              LIT     87
              WORK6A DCW  #06                                        A  6  2817              AREA    88
                    DCW   @F@                                        A  1  2818              LIT     88
                    DCW   @@@                                        A  1  2819              LIT     88
              STMNOA DCW  #03                                        A  3  2822              AREA    88
              CTUCDA DCW  #02                                        A  2  2824              AREA    88
                    DCW   @DNE@                                      A  3  2827              LIT     88
              ENDSWA DCW  #01                                        A  1  2828              AREA    88
                    DCW   @-@                                        A  1  2829              LIT     89
                    DCW   @*@                                        A  1  2830              LIT     89
              FIXEDA DCW  #01                                        A  1  2831              AREA    89
              WORK3A DCW  #03                                        A  3  2834              AREA    89
                    DCW   @00@                                       A  2  2836              LIT     89
                    DCW   @0@                                        A  1  2837              LIT     89
              SAV1 A DCW  #01                                        A  1  2838              AREA    89
              )0M005 DCW  #02                                        A  2  2840              AREA    90
              )0L005 DCW  #02                                        A  2  2842              AREA    90
                    DCW   @A0@                                       A  2  2844              LIT     90
                    DCW   @?4@                                       A  2  2846              LIT     90
                    DCW   &000                                       A  3  2849              LIT     90
                    DCW   @M@                                        A  1  2850              LIT     90
                    DCW   @,@                                        A  1  2851              LIT     90
                    DCW   @INPUT CHARACTERS@                         A 16  2867              LIT     91
                    DCW   @ }POTS:R000@                              A 11  2878              LIT     91
                    DCW   @SCANNER@                                  A  7  2885              LIT     91
                    DCW   @SCANNER@                                  A  7  2892              LIT     92
                    DCW   @MESSAGE 2 - OBJECT PROGRAM TOO LARGE@     A 36  2928              LIT     93
              PGNO A DCW  #03                                        A  3  2931              AREA    93
                    DCW   @   PAGE @                                 A  8  2939              LIT     94
                    DCW   @MESSAGE 3 - NO PARAMETER CARD@            A 29  2968              LIT     94
              BLNK3A DCW  #03                                        A  3  2971              AREA    95
597  5 34           ORG   *&X00                                     A          3000
598  5 35           ORG   *-1                                      A          2999
599  5 36   SYSGM   DCW   @}@            WORK AND SYSTEM GROUP MARK A  1  2999              GMARK   96
600  5 37   LDRND   EQU   *&1                                       A       3000
601  5 38           XFR   START                                     A                B 838             97
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SEQ PG LIN  LABEL   OP     OPERANDS                                SFX CT  LOCN  INSTRUCTION TYPE  CARD
602  5 39           JOB    1401 FORTRAN  SCANNER PHASE              A
603  5 40   110     DCW    @:@                    5-8 FIRST CARD    A   1  0110                    100
604  5 41           FBEGN  SCANNER,X1,R,,,,,B                       A                  MACRO
605                 SFX    B                                        B                  GEN
606          110    DCW    @SCANNER@                                B   7  0110        GEN     101
607          X1     EQU    089                                      B      0089        GEN
608          089    DCW    000                                      B   3  0089        GEN     102
609          091    DC     00                                       B   2  0091        GEN     102
610  5 42           ORG    XBEGIN                                   B          0838
611  5 43   START   MCW    PARAMA&2,DUMMY&6                         B   7  0838  M 688 985         103
612  5 44           SW     PARAMA&3,PARAMA&5                        B   7  0845  , 689 691         103
613  5 45           BCE    *&5,PARAMA&4,          BLANK             B   8  0852  B 864 690         103
614  5 46           B      *&8                                      B   4  0860  B 871             103
615  5 47           MCW    @05@,PARAMA&4                            B   7  0864  M M67 690         103
616  5 48           BCE    *&5,PARAMA&6,          BLANK             B   8  0871  B 883 692         104
617  5 49           B      *&8                                      B   4  0879  B 890             104
618  5 50           MCW    @08@,PARAMA&6                            B   7  0883  M M69 692         104
619  5 51           C      PARAMA&4,@01@                            B   7  0890  C 690 M71         104
620  5 52           BH     RDXER                                    B   5  0897  B U69 U           104
621  5 53           C      PARAMA&4,@20@                            B   7  0902  C 690 M73         104
622  5 54           BL     RDXER                                    B   5  0909  B U69 T           105
623  5 55   CKCMT   C      PARAMA&6,@20@                            B   7  0914  C 692 M73         105
624  5 56           BL     MNTER                                    B   5  0921  B U95 T           105
625  5 57           C      PARAMA&6,@02@                            B   7  0926  C 692 M75         105
626  5 58           BH     MNTER                                    B   5  0933  B U95 U           105
627  5 59   PRDX    CS     332                                      B   4  0938  / 332             105
628  5 60           CS                                              B   1  0942  /                 105
629  5 61           MCW    @MODULUS IS@,210                         B   7  0943  M M85 210         106
630  5 62           MCS    PARAMA&4,213                             B   7  0950  Z 690 213         106
631  5 63           W                                               B   1  0957  2                 106
632  5 64           CS     299                                      B   4  0958  / 299             106
633  5 65           MCW    @MANTISSA IS@,211                        B   7  0962  M M96 211         106
634  5 66           MCS    PARAMA&6,214                             B   7  0969  Z 692 214         106
635  5 67           W                                               B   1  0976  2                 106
636  5 68           CC     J                                        B   2  0977  F J               107
637  5 69   DUMMY   BCE    DUMMY,0000,0                             B   8  0979  B 979 000 0       107
638  5 70           BCE                                             B   1  0987  B                 107
639  5 71           SBR    MARTY&6                                  B   4  0988  H T24             107
640  5 72           SBR    REMV&003                                 B   4  0992  H 999             107
641  5 73   REMV    LCA    0000,WORK                                B   7  0996  L 000 M22         107
642  5 74           SAR    REMV&003                                 B   4  1003  Q 999             107
643  5 75           MCW    NMBR,WORK                                B   7  1007  M M25 M22         108
644  5 76           A      ONE,NMBR                                 B   7  1014  A M26 M25         108
645  5 77           BCE    REPLCE,WORK-3,F                          B   8  1021  B T14 M19 F       108
646  5 78           SBR    TWLV58&6,WORK-4                          B   7  1029  H |49 M18         108
647  5 79           SBR    FIRST,WORK-5                             B   7  1036  H M29 M17         108
648  5 80   TWLV58  BCE    ARITH1,WORK-4,:        5-8  UNDEFINED CHAR.. B   8  1043  B |75 M18 :     109
649  5 81           SBR    TWLV58&006                               B   4  1051  H |49             109
650  5 82           SBR    LENNY&006                                B   4  1055  H |65             109
651  5 83   LENNY   BCE    LENNY,0000,                              B   8  1059  B |59 000         109
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SEQ PG LIN  LABEL   OP    OPERANDS                                SFX CT  LOCN  INSTRUCTION TYPE  CARD
652  5 84           SBR   FIRST                                    B  4  1067  H M29             109
653  5 85           B     TWLV58                                   B  4  1071  B |43             109
654  5 86   ARITH1  MCW   FIRST,TEST1&006                          B  7  1075  M M29 |95          109
655  5 87           MCW   FIRST,TEST2&006                          B  7  1082  M M29 /08          110
656  5 88   TEST1   BCE   ENCODE,0000,}              GROUP MARK    B  8  1089  B /73 000 } GMARK  110
657  5 89           BCE                                            B  1  1097  B                 110
658  5 90           SBR   TEST1&6                                  B  4  1098  H |95             110
659  5 91   TEST2   BCE   ARITH2,0000,#                           B  8  1102  B /19 000 #        110
660  5 92           BCE                                            B  1  1110  B                 110
661  5 93           SBR   TEST2&6                                  B  4  1111  H /08             110
662  5 94           B     TEST1                                    B  4  1115  B |89             111
663  5 95   ARITH2  SW    TEST1&004                                B  4  1119  , |93             111
664  5 96           MCW   TEST1&006,SEL&003                       B  7  1123  M |95 /37          111
665  5 97           CW    TEST1&004                                B  4  1130  ) |93             111
666  5 98   SEL     MCW   0000,FIXED                               B  7  1134  M 000 M30          111
667  5 99           SAR   SEL&003                                 B  4  1141  Q /37             111
668  6 00           BCE   CKFUN, FIXED,%                          B  8  1145  B T49 M30 %       111
669  6 01           BCE   CKFUN, FIXED,}              GROUP MARK    B  8  1153  B T49 M30 } GMARK 112
670  6 02           BCE   ENCODE,FIXED,,                           B  8  1161  B /73 M30 ,       112
671  6 03           B     SEL                                      B  4  1169  B /34             112
672  6 04   ENCODE  MCW   FIRST,GRAB10&003                        B  7  1173  M M29 /83          112
673  6 05   GRAB10  MCW   0000,FRONT                              B  7  1180  M 000 M40          112
674  6 06           SW    FRONT                                    B  4  1187  , M40             112
675  6 07           SW                                             B  1  1191  ,                 112
676  6 08           MCW   FRONT,SCFB&007                           B  7  1192  M M40 S06          113
677  6 09   SCFB    BCE   STORE1,CODE,              COLUMN 39 MODIFIED B  8  1199  B S37 M49       113
678  6 10           CHAIN 3                                        B                    MACRO
679                 BCE                                            B  1  1207  B           GEN   113
680                 BCE                                            B  1  1208  B           GEN   113
681                 BCE                                            B  1  1209  B           GEN   113
682  6 11           MCW   FRONT-001,AUNIQ&007                      B  7  1210  M M39 S24          113
683  6 12   AUNIQ   BCE   STORE2,CODE-004,              COLUMN 39 MODIFIED B  8  1217  B S71 M45       113
684  6 13           CHAIN 4                                        B                    MACRO
685                 BCE                                            B  1  1225  B           GEN   114
686                 BCE                                            B  1  1226  B           GEN   114
687                 BCE                                            B  1  1227  B           GEN   114
688                 BCE                                            B  1  1228  B           GEN   114
689  6 14           SW    WORK-003                                 B  4  1229  , M19             114
690  6 15           B     EASY                                     B  4  1233  B U22             114
691  6 16   STORE1  C     FRONT-2,@ESN@          SENSE LIGHT      B  7  1237  C M38 M99          114
692  6 17           BE    SENSE                                    B  5  1244  B S60 S           115
693  6 18           MCW   FRONT,WORK-003                          B  7  1249  M M40 M19          115
694  6 19           B     CLEAR                                    B  4  1256  B T09             115
695  6 20   SENSE   MCW   @J@,WORK-3                              B  7  1260  M N00 M19          115
696  6 21           B     CLEAR                                    B  4  1267  B T09             115
697  6 22   STORE2  MCW   FRONT-001,WORK-003                      B  7  1271  M M39 M19          115
698  6 23           BCE   *&5,AUNIQ&7,N                            B  8  1278  B S90 S24 N       116
699  6 24           B     CLEAR                                    B  4  1286  B T09             116
700  6 25           C     FRONT-2,@ELIFD@                          B  7  1290  C M38 N05          116
701  6 26           BE    CLEAR                                    B  5  1297  B T09 S           116
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SEQ PG LIN  LABEL  OP    OPERANDS                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD
702  6 27          MCW   @/@,WORK-3                                B   7  1302  M N06 M19         116
703  6 28   CLEAR  CW    FRONT                                     B   4  1309  ) M40             116
704  6 29          CW                                              B   1  1313  )                 116
705  6 30   REPLCE CW    WORK-003                                  B   4  1314  ) M19             117
706  6 31   MARTY  LCA   WORK,0000                                 B   7  1318  L M22 000         117
707  6 32          SBR   MARTY&006                                 B   4  1325  H T24             117
708  6 33          SBR   END&006                                   B   4  1329  H T43             117
709  6 34          SBR   083                                       B   4  1333  H 083             117
710  6 35   END    BCE   RELOKT,0000,                              B   8  1337  B W97 000         117
711  6 36          B     REMV                                      B   4  1345  B 996             117
712  6 37   CKFUN  MCW   TEST2&6,X1                                B   7  1349  M /08 089         118
713  6 38          BCE   MAYFN,1&X1,)                              B   8  1356  B T69 0|1 )       118
714  6 39          BCE                                             B   1  1364  B                 118
715  6 40          B     REPLCE                                    B   4  1365  B T14             118
716  6 41   MAYFN  BCE   NDFND,2&X1,%                             B   8  1369  B T85 0|2 %       118
717  6 42          SBR   X1                                        B   4  1377  H 089             118
718  6 43          B     MAYFN                                     B   4  1381  B T69             118
719  6 44   NDFND  BCE   PROBF,3&X1,F                             B   8  1385  B T97 0|3 F       119
720  6 45          B     REPLCE                                    B   4  1393  B T14             119
721  6 46   PROBF  BCE   REPLCE,6&X1,:              5-8            B   8  1397  B T14 0|6 :       119
722  6 47          BCE                                             B   1  1405  B                 119
723  6 48          BCE                                             B   1  1406  B                 119
724  6 49          MCW   @R@,WORK-3                                B   7  1407  M N07 M19         119
725  6 50          SW    FUNCSW                                    B   4  1414  , 195             119
726  6 51          B     REPLCE                                    B   4  1418  B T14             120
727  6 52   EASY   CW    FRONT                                     B   4  1422  ) M40             120
728  6 53          CW                                              B   1  1426  )                 120
729  6 54          C     FRONT,SNSE                 IF SENSE SWITCH B   7  1427  C M40 M57         120
730  6 55          BIN   DO,/                                      B   5  1434  B V21 /           120
731  6 56          BCE   LIGHT,FRONT-8,L                           B   8  1439  B U58 M32 L       120
732  6 57          MCW   CONST,WORK-003                            B   7  1447  M M65 M19         120
733  6 58          B     REPLCE                                    B   4  1454  B T14             121
734  6 59   LIGHT  MCW   @K@,WORK-3                                B   7  1458  M N08 M19         121
735  6 60          B     REPLCE                                    B   4  1465  B T14             121
736  6 61   RDXER  MESSG @ERROR 42 - MODULUS@,18,,J                B                    MACRO
737         RDXER  CS    332                                       B   4  1469  / 332       GEN   121
738                CS                                              B   1  1473  /           GEN   121
739                MCW   @ERROR 42 - MODULUS@,18&200               B   7  1474  M N26 218   GEN   121
740                W                                               B   1  1481  2           GEN   121
741                CC    J                                         B   2  1482  F J         GEN   122
742  6 62          MCW   @05@,PARAMA&4                            B   7  1484  M M67 690         122
743  6 63          B     CKCMT                                     B   4  1491  B 914             122
744  6 64   MNTER  MESSG @ERROR 43 - MANTISSA@,19,,J               B                    MACRO
745         MNTER  CS    332                                       B   4  1495  / 332       GEN   122
746                CS                                              B   1  1499  /           GEN   122
747                MCW   @ERROR 43 - MANTISSA@,19&200              B   7  1500  M N45 219   GEN   122
748                W                                               B   1  1507  2           GEN   122
749                CC    J                                         B   2  1508  F J         GEN   123
750  6 65          MCW   @08@,PARAMA&6                            B   7  1510  M M69 692         123
751  6 66          B     PRDX                                      B   4  1517  B 938             123
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SEQ PG LIN  LABEL  OP    OPERANDS                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD
752  6 67   DO     BCE   PUT1,FRONT,D                  D FOR DO      B   8  1521  B W20 M40 D        123
753  6 68          BCE   PUT2,FRONT-002,%              3RD PAREN IF  B   8  1529  B W31 M38 %        123
754  6 69          BCE   PUT3,FRONT-004,%              5TH PAREN GO TO B 8  1537  B W42 M36 %        123
755  6 70          BCE   PUT4,FRONT,G                  G FOR GO TO   B   8  1545  B W53 M40 G        124
756  6 71          BCE   PUT5,FRONT,P                  P FO PRINT    B   8  1553  B W64 M40 P        124
757  6 72          BWZ   PUT6,FRONT-004,2              5TH NUMERL READN B 8  1561  V W75 M36 2        124
758  6 73          BCE   PUT7,FRONT-005,D              6TH D FOR REWIND B 8  1569  B W86 M35 D        124
759  6 74          MCW   ONE,WORK-003                                B   7  1577  M M26 M19          124
760  6 75          MN    FRONT-005,WORK-003                          B   7  1584  D M35 M19          125
761  6 751         MN    FRONT-5,TNMBR&7                       V3M4  B   7  1591  D M35 W05          125
762  6 752 TNMBR   BCE   REPLCE,@6531@,0                       V3M4  B   8  1598  B T14 N49 0        125
763  6 573         CHAIN 3                                     V3M4  B                MACRO
764                BCE                                             B   1  1606  B                  GEN   125
765                BCE                                             B   1  1607  B                  GEN   125
766                BCE                                             B   1  1608  B                  GEN   125
767  6 754         MN    @9@,WORK-3                            V3M4  B   7  1609  D N50 M19          125
768  6 76          B     REPLCE                                      B   4  1616  B T14              126
769  6 77   PUT1   MCW   CONST-001,WORK-003                         B   7  1620  M M64 M19          126
770  6 78          B     REPLCE                                      B   4  1627  B T14              126
771  6 79   PUT2   MCW   CONST-002,WORK-003                         B   7  1631  M M63 M19          126
772  6 80          B     REPLCE                                      B   4  1638  B T14              126
773  6 81   PUT3   MCW   CONST-003,WORK-003                         B   7  1642  M M62 M19          126
774  6 82          B     REPLCE                                      B   4  1649  B T14              126
775  6 83   PUT4   MCW   CONST-004,WORK-003                         B   7  1653  M M61 M19          127
776  6 84          B     REPLCE                                      B   4  1660  B T14              127
777  6 85   PUT5   MCW   CONST-005,WORK-003                         B   7  1664  M M60 M19          127
778  6 86          B     REPLCE                                      B   4  1671  B T14              127
779  6 87   PUT6   MCW   CONST-006,WORK-003                         B   7  1675  M M59 M19          127
780  6 88          B     REPLCE                                      B   4  1682  B T14              127
781  6 89   PUT7   MCW   CONST-007,WORK-003                         B   7  1686  M M58 M19          128
782  6 90          B     REPLCE                                      B   4  1693  B T14              128
783  6 91   RELOKT FENDX C,,,,BEGINC,,CLRFCT,SORTER ONE             B                MACRO
784         RELOKT BSS   333,C                                     B   5  1697  B 333 C            GEN   128
785                SBR   INITXT&3,BEGINC                          B   7  1702  H 796 |10           GEN   128
786                SBR   TCLEAR,CLRFCT                            B   7  1709  H 710 N99          GEN   128
787                LCA   @SORTER ONE@,110                         B   7  1716  L N60 110          GEN   128
788                B     MONTER                                   B   4  1723  B 700              GEN   129
789  6 92          DCW   @ @                        BLANK         B   1  1727                     129
790  6 93          DCW   @ @                                      B   1  1728                     129
791  6 94          ORG   *&693                                    B            2422
792  6 95   WORK   DS    01                                       B       2422                     130
793  6 96   NMBR   DCW   @001@                                    B   3   2425                     130
794  6 97   ONE    DCW   @1@                                      B   1   2426                     130
795  6 98   FIRST  DCW   #3                                       B   3   2429                     130
796  6 99   FIXED  DCW   #1                                       B   1   2430                     130
797  7 00   FRONT  DCW   #10                                      B  10   2440                     130
798  7 01   CODE   DC    @QINUABFCS@                              B   9   2449                     130
799  7 02   SNSE   DCW   @ESNES%FI@                               B   8   2457                     130
800  7 03   CONST  DC    @ZLPGTEDW@                               B   8   2465                     131
801  7 04          LTORG *                                        B            2466
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SEQ	PG	LIN	LABEL	OP	OPERANDS		SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
				DCW	@05@		B	2	2467		LIT	131
				DCW	@08@		B	2	2469		LIT	131
				DCW	@01@		B	2	2471		LIT	131
				DCW	@20@		B	2	2473		LIT	131
				DCW	@02@		B	2	2475		LIT	132
				DCW	@MODULUS IS@		B	10	2485		LIT	132
				DCW	@MANTISSA IS@		B	11	2496		LIT	132
				DCW	@ESN@		B	3	2499		LIT	132
				DCW	@J@		B	1	2500		LIT	132
				DCW	@ELIFD@		B	5	2505		LIT	132
				DCW	@/@		B	1	2506		LIT	132
				DCW	@R@		B	1	2507		LIT	133
				DCW	@K@		B	1	2508		LIT	133
				DCW	@ERROR 42 - MODULUS@		B	18	2526		LIT	133
				DCW	@ERROR 43 - MANTISSA@		B	19	2545		LIT	133
				DCW	@6531@		B	4	2549		LIT	134
				DCW	@9@		B	1	2550		LIT	134
				DCW	@SORTER ONE@		B	10	2560		LIT	134
802	7	05		ORG	*&X00		B			2600		
803	7	06	CLRFCT	EQU	*		B		2599			
804	7	07		DCW	@}@	SYSTEM GROUP MARK	B	1	2600		GMARK	135
805	7	08		XFR	START		B			B 838		136

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SEQ PG LIN  LABEL  OP    OPERANDS                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD
806  7 09          JOB   1401 FORTRAN  SORTER PHASE ONE             B
807  7 10          FBEGN SORTER ONE,XL1,R,XL2,R,XL3,R,C,XXXX       B                       MACRO
808                SFX   C                                         C                       GEN
809          XXXX  EQU   0                                         C      0000             GEN
810          110   DCW   @SORTER ONE@                              C  10  0110             GEN    139
811          XL1   EQU   089                                       C      0089             GEN
812          089   DCW   000                                       C   3  0089             GEN    140
813          091   DC    00                                        C   2  0091             GEN    140
814          XL2   EQU   094                                       C      0094             GEN
815          094   DCW   000                                       C   3  0094             GEN    140
816          096   DC    00                                        C   2  0096             GEN    140
817          XL3   EQU   099                                       C      0099             GEN
818          099   DCW   000                                       C   3  0099             GEN    140
819          100   DC    0                                         C   1  0100             GEN    140
820  7 11          ORG   XBEGIN                                    C             0838
821  7 12  TABLE   DA    40X3,C                                    C      0838   0957              140
822  7 13          ORG   *&X00                                     C             1000
823  7 14          DS    6                                         C      1005
824  7 15  ZONE    DCW   @2SKB@                                    C   4  1009                     151
825  7 16  BEGIN   CS    CLRFCT                                    C   4  1010   / N99             151
826  7 17          CHAIN 8                                         C                       MACRO
827                CS                                              C   1  1014   /         GEN    151
828                CS                                              C   1  1015   /         GEN    151
829                CS                                              C   1  1016   /         GEN    151
830                CS                                              C   1  1017   /         GEN    151
831                CS                                              C   1  1018   /         GEN    151
832                CS                                              C   1  1019   /         GEN    152
833                CS                                              C   1  1020   /         GEN    152
834                CS                                              C   1  1021   /         GEN    152
835  7 18  START   MCW   083,XL3                                    C   7  1022   M 083 099         152
836  7 19          MCM   2&X3                    GET LAST STATEMENT C   4  1029   P 0?2             152
837  7 20          MCW                            NUMBER            C   1  1033   M                 152
838  7 21          SBR   XL3                                       C   4  1034   H 099             152
839  7 22          MCW   0&X3,WORK3#3                              C   7  1038   M 0?0 T52         153
840  7 23          ZA    WORK3,HOLD5#5           MULTIPLY BY THREE C   7  1045   ? T52 T57         153
841  7 24          A     HOLD5                                     C   4  1052   A T57             153
842  7 25          A     WORK3,HOLD5                               C   7  1056   A T52 T57         153
843  7 26          S     &2,HOLD5                                  C   7  1063   S T58 T57         153
844  7 27          MCW   HOLD5,HLD5A#5                             C   7  1070   M T57 T63         153
845  7 28          MCW   @16000@,HOLD5                           C   7  1077   M T68 T57         154
846  7 29          S     HLD5A,HOLD5                               C   7  1084   S T63 T57         154
847  7 30          BAV   *&1                                       C   5  1091   B |96 Z           154
848  7 31  SUB     A     &96,HOLD5-3             COMPUTE NEW ADDRESS C   7  1096   A T70 T54         154
849  7 32          BAV   SUB                                       C   5  1103   B |96 Z           154
850  7 33          MN    HOLD5-3,*&4                               C   7  1108   D T54 /18         154
851  7 34          MZ    ZONE,HOLD5-2                              C   7  1115   Y |09 T55         155
852  7 35          MCW   083,XL1                                   C   7  1122   M 083 089         155
853  7 36          MCW   XL1,NOP&3                                 C   7  1129   M 089 /53         155
854  7 37          MCW   HOLD5,XL2                                 C   7  1136   M T57 094         155
855  7 38          MZ    @J@,NOP&2                                 C   7  1143   Y T71 /52         155
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SEQ PG LIN  LABEL  OP    OPERANDS                                          SFX CT  LOCN  INSTRUCTION TYPE  CARD

856  7 39   NOP    NOP   XXXX                                              C   4  1150  N 000              155
857  7 40          SAR   XL2                                               C   4  1154  Q 094              156
858  7 41          UNPAK XL2,HOLD5                                         C                        MACRO
859                S     )0M013#2                                          C   4  1158  S T73       GEN    156
860                S     )0L013#2                                          C   4  1162  S T75       GEN    156
861                MZ    XL2,)0M013-1                                      C   7  1166  Y 094 T72   GEN    156
862                MZ    XL2-2,)0L013-1                                    C   7  1173  Y 092 T74   GEN    156
863         )0J013 BWZ   )0K013, )0L013-1, 2                               C   8  1180  V /99 T74 2 GEN    156
864                A     @A0@, )0L013                                      C   7  1188  A T77 T75   GEN    157
865                B     )0J013                                            C   4  1195  B /80       GEN    157
866         )0K013 BWZ   )0P013, )0M013-1, 2                               C   8  1199  V S18 T72 2 GEN    157
867                A     @?4@, )0M013                                      C   7  1207  A T79 T73   GEN    157
868                B     )0K013                                            C   4  1214  B /99       GEN    157
869         )0P013 A     )0L013-1,)0M013                                   C   7  1218  A T74 T73   GEN    157
870                MCW   XL2,HOLD5                                         C   7  1225  M 094 T57   GEN    158
871                MCW   )0M013                                            C   4  1232  M T73       GEN    158
872                ZA    HOLD5                                             C   4  1236  ? T57       GEN    158
873                MZ    *-4, HOLD5                                        C   7  1240  Y S42 T57   GEN    158
874  7 42          C     HOLD5,@02900@                                     C   7  1247  C T57 T84          158
875  7 43          BL    MOVE                                              C   5  1254  B S93 T            158
876  7 44          FQUIT                                                   C                        MACRO
877                CS    332                                               C   4  1259  / 332       GEN    158
878                CS                                                      C   1  1263  /           GEN    159
879                CC    1                                                 C   2  1264  F 1         GEN    159
880                MCW   @MESSAGE 2 - OBJECT PROGRAM TOO LARGE@,270        C   7  1266  M U20 270   GEN    159
881                W                                                       C   1  1273  2           GEN    159
882                CC    1                                                 C   2  1274  F 1         GEN    159
883                BCE   *&6,MONTOR,1                                      C   8  1276  B S89 769 1 GEN    159
884                RWD   1                                                 C   5  1284  U %U1 R     GEN    159
885                H     *-3                                               C   4  1289  . S89       GEN    160
886  7 45   MOVE   MCW   XL2,083                                           C   7  1293  M 094 083          160
887  7 46          MCM   0&X1                                              C   4  1300  P 0|0              160
888  7 47          SAR   XL1                                               C   4  1304  Q 089              160
889  7 48          FENDX C,,,START,NUSTM,START,SYSMK,SORT 2                C                        MACRO
890                BSS   333,C                                             C   5  1308  B 333 C     GEN    160
891                SBR   INITAP&6,START                                    C   7  1313  H 786 |22   GEN    160
892                SBR   BCLEAR                                            C   4  1320  H 833       GEN    160
893                SBR   INITXT&3,NUSTM                                    C   7  1324  H 796 |22   GEN    161
894                SBR   TCLEAR,SYSMK                                      C   7  1331  H 710 U27   GEN    161
895                LCA   @SORT 2@,110                                      C   7  1338  L U26 110   GEN    161
896                B     MONTER                                            C   4  1345  B 700       GEN    161
897  7 49          DCW   0                                                 C   1  1349                     161
898  7 50          LTORG *                                                 C             1350
            WORK3C DCW   #03                                               C   3  1352              AREA   161
            HOLD5C DCW   #05                                               C   5  1357              AREA   161
                   DCW   &2                                                C   1  1358              LIT    162
            HLD5AC DCW   #05                                               C   5  1363              AREA   162
                   DCW   @16000@                                           C   5  1368              LIT    162
                   DCW   &96                                               C   2  1370              LIT    162
                   DCW   @J@                                               C   1  1371              LIT    162
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SEQ PG LIN  LABEL  OP    OPERANDS                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD
            )0M013 DCW   #02                                       C   2  1373              AREA  162
            )0L013 DCW   #02                                       C   2  1375              AREA  162
                   DCW   @A0@                                      C   2  1377              LIT   163
                   DCW   @?4@                                      C   2  1379              LIT   163
                   DCW   @02900@                                   C   5  1384              LIT   163
                   DCW   @MESSAGE 2 - OBJECT PROGRAM TOO LARGE@    C  36  1420              LIT   164
                   DCW   @SORT 2@                                  C   6  1426              LIT   165
899  7 51   SYSMK  DCW   @}@                        SYSTEM GROUP MARK C   1  1427              GMARK 165
900  7 52          XFR   BEGIN                                      C             B |10              166
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SEQ PG LIN  LABEL   OP    OPERANDS                                SFX CT  LOCN  INSTRUCTION TYPE  CARD
901  7 53           JOB   1401 FORTRAN  SORTER PHASE TWO          C
902  7 54   110     DCW   @SORT 2@                                C   6  0110                    169
903  7 55           ORG   START                                   C          1022
904  7 56   NUSTM   MCW   XL1,XL3                                 C   7  1022  M 089 099          170
905  7 57           SW    GM2                                     C   4  1029  , S19              170
906  7 58           MCM   0&X1                                    C   4  1033  P 0|0              170
907  7 59           MN                                            C   1  1037  D                  170
908  7 60           MN                                            C   1  1038  D                  170
909  7 61           SAR   XL1                                     C   4  1039  Q 089              170
910  7 62           LCA   0&X1, HOLD-3                            C   7  1043  L 0|0 Z19          170
911  7 63           MCM   0&X1                                    C   4  1050  P 0|0              171
912  7 64           SAR   XL1                                     C   4  1054  Q 089              171
913  7 65           MCM   0&X3,0&X2                               C   7  1058  P 0?0 0!0          171
914  7 66           SBR   XL2                                     C   4  1065  H 094              171
915  7 67           LCA   HOLD,1&X2                              C   7  1069  L Z22 0!1          171
916  7 68           S     XL3&1                                   C   4  1076  S 100              171
917  7 69           MCW   0&X2,HOLD6#6                           C   7  1080  M 0!0 !05          171
918  7 70           MN    HOLD6-5, XL3                            C   7  1087  D !00 099          172
919  7 71           MCW   XL3,SAVE3                             C   7  1094  M 099 !03          172
920  7 72           A     XL3                                     C   4  1101  A 099              172
921  7 73           A     SAVE3,XL3                               C   7  1105  A !03 099          172
922  7 74           BWZ   CNTU,HOLD6-5, 2                       C   8  1112  V /57 !00 2          172
923  7 75           A     &30,XL3                                 C   7  1120  A !07 099          173
924  7 76           BWZ   CNTU,HOLD6-5, S                       C   8  1127  V /57 !00 S          173
925  7 77           A     &30,XL3                                 C   7  1135  A !07 099          173
926  7 78           BWZ   CNTU,HOLD6-5, K                       C   8  1142  V /57 !00 K          173
927  7 79           A     &30,XL3                                 C   7  1150  A !07 099          173
928  7 80   CNTU    MCW   TABLE&2&X3,1&X2          INSERT TABLE ENTRY C   7  1157  M 8D0 0!1          174
929  7 81           LCA   GM2,2&X2                               C   7  1164  L S19 0!2          174
930  7 82           SBR   TABLE&2&X3                            C   4  1171  H 8D0              174
931  7 83           MCM   2&X2                                    C   4  1175  P 0!2              174
932  7 84           SAR   XL2                                     C   4  1179  Q 094              174
933  7 85           C     XL2,PARAMA&2                            C   7  1183  C 094 688          174
934  7 86           BU    NUSTM                                   C   5  1190  B |22 /            174
935  7 87           FENDX C,GM2,,,,,END-1,SORT 3                  C                       MACRO
936                 BSS   333,C                                   C   5  1195  B 333 C     GEN   175
937                 SBR   TCLEAR,END-1                            C   7  1200  H 710 Q99   GEN   175
938                 LCA   @SORT 3@,110                            C   7  1207  L !13 110   GEN   175
939                 B     MONTER                                  C   4  1214  B 700       GEN   175
940  7 88           DCW   0                                       C   1  1218                    175
941  7 89   GM2     DC    @}@                      G-M            C   1  1219                GMARK 175
942  7 90           ORG   *&700                                   C          1920
943  7 91   HOLD    DC    #3                                      C   3  1922                    176
944  7 92           ORG   *&X00                                   C          2000
945  7 93   EOTWO   EQU   *&1                                     C      2000
946  7 94           LTORG *                                       C          2000
               HOLD6C DCW   #06                                   C   6  2005            AREA  177
                      DCW   &30                                   C   2  2007            LIT   177
                      DCW   @SORT 3@                              C   6  2013            LIT   177
947  7 95           DCW   @}@                      SYSTEM GROUP MARK C   1  2014            GMARK 177
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SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
948	7	96		XFR	NUSTM	C			B |22		178

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SEQ PG LIN  LABEL  OP    OPERANDS                                SFX CT  LOCN  INSTRUCTION TYPE  CARD
949  7 97          JOB   1401 FORTRAN  SORTER PHASE 3            C
950  7 98   110    DCW   @SORT 3@                                 C   6  0110                    181
951  7 99   X1     EQU   089                                      C      0089
952  8 00   X2     EQU   094                                      C      0094
953  8 01          ORG   START                                    C            1022
954  8 02   AGAIN  MCW   083,XL3                                  C   7  1022  M 083 099         182
955  8 03          SW    GM                                       C   4  1029  , Y06             182
956  8 04          SBR   XL1,END-1                                C   7  1033  H 089 Q99         182
957  8 05          SW    END                                      C   4  1040  , R00             182
958  8 06          MN    0&X3                                     C   4  1044  D 0?0             182
959  8 07          LCA   GM                                       C   4  1048  L Y06             182
960  8 08          SBR   PICK&6                                   C   4  1052  H /10             182
961  8 09          SBR   TBEGIN#3,LIST                            C   7  1056  H Y10 X99         183
962  8 10   NUTYP  MCW   TBEGIN,XL3                 GET LIST ENTRY C   7  1063  M Y10 099         183
963  8 11          MCW   0&X3,XL3                                 C   7  1070  M 0?0 099         183
964  8 12          SAR   TBEGIN                                   C   4  1077  Q Y10             183
965  8 13          BCE   EOJ,XL3,X                                C   8  1081  B W47 099 X       183
966  8 14          MCW   TABLE&2&X3,XL3             GET TABLE ENTRY C   7  1089  M 8D0 099         184
967  8 15          BCE   NUTYP,XL3,                 ANY OF THIS TYPE C   8  1096  B |63 099         184
968  8 16   PICK   MCW   0&X3,XXXX                  PICKUP STATEMENT C   7  1104  M 0?0 000         184
969  8 17          SAR   XL2                                      C   4  1111  Q 094             184
970  8 18          BCE   AOK1,1&X2,}                CAN IT FIT   G-M C   8  1115  B /27 0!1 } GMARK 184
971  8 19          B     PACK                                     C   4  1123  B S95             184
972  8 20   AOK1   SBR   XL2,2&X2                                 C   7  1127  H 094 0!2         185
973  8 21   BACK5  MCM   0&X2                                     C   4  1134  P 0!0             185
974  8 22          SBR   SBR6&6                                   C   4  1138  H /67             185
975  8 23          MCM   0&X2,1&X1                                C   7  1142  P 0!0 0|1         185
976  8 24          SBR   X1                                       C   4  1149  H 089             185
977  8 25          MN    0&X1                                     C   4  1153  D 0|0             185
978  8 26          SBR   X1                                       C   4  1157  H 089             185
979  8 27   SBR6   SBR   X2,0                                     C   7  1161  H 094 000         186
980  8 28          BCE   BACK5,0&X1,|                            C   8  1168  B /34 0|0 |       186
981  8 29          SBR   X1,1&X1                                  C   7  1176  H 089 0|1         186
982  8 30          CW    PAKSW                                    C   4  1183  ) Y07             186
983  8 31          MN    0&X1                                     C   4  1187  D 0|0             186
984  8 32          CHAIN 3                                        C                    MACRO
985                MN                                             C   1  1191  D         GEN    186
986                MN                                             C   1  1192  D         GEN    186
987                MN                                             C   1  1193  D         GEN    187
988  8 33          SAR   XL1                                      C   4  1194  Q 089             187
989  8 34          LCA   GM,0&X1                                  C   7  1198  L Y06 0|0         187
990  8 35          SBR   083                                      C   4  1205  H 083             187
991  8 36          SBR   XL1                                      C   4  1209  H 089             187
992  8 37   PMOV1  MCM   1&X1                                     C   4  1213  P 0|1             187
993  8 38          MN                                             C   1  1217  D               187
994  8 39          SAR   XL1                                      C   4  1218  Q 089             188
995  8 40          BCE   PMOV1,0&X1,|                            C   8  1222  B S13 0|0 |       188
996  8 41          MN    0&X3                                     C   4  1230  D 0?0             188
997  8 42          CHAIN 5                                        C                    MACRO
998                MN                                             C   1  1234  D         GEN    188
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 SEQ PG LIN  LABEL  OP    OPERANDS                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD
 999             MN                                                C   1  1235  D           GEN   188
1000             MN                                                C   1  1236  D           GEN   188
1001             MN                                                C   1  1237  D           GEN   188
1002             MN                                                C   1  1238  D           GEN   189
1003  8 43       SAR   XL3                                         C   4  1239  Q 099            189
1004  8 44       MN    0&X1                                        C   4  1243  D 0|0            189
1005  8 45       LCA   3&X3                                        C   4  1247  L 0?3            189
1006  8 46       MCW   @#@,0&X3                                    C   7  1251  M Y11 0?0        189
1007  8 47  PMOV2 MCM   2&X3                                       C   4  1258  P 0?2            189
1008  8 48       MN                                                C   1  1262  D               189
1009  8 49       MN                                                C   1  1263  D               190
1010  8 50       SAR   XL3                                         C   4  1264  Q 099            190
1011  8 51       BCE   PMOV2,1&X3,|                                C   8  1268  B S58 0?1 |      190
1012  8 52       BCE   NUTYP,0&X3,                                 C   8  1276  B |63 0?0        190
1013  8 53       MCW   0&X3,XL3                                    C   7  1284  M 0?0 099        190
1014  8 54       B     PICK                                        C   4  1291  B /04            190
1015  8 55  PACK BW    CERR,PAKSW                                  C   8  1295  V W88 Y07 1      191
1016  8 56       SW    PAKSW                                       C   4  1303  , Y07            191
1017  8 57       MCW   PARAMA&2,XL2                                C   7  1307  M 688 094        191
1018  8 58       MN    0&X2                                        C   4  1314  D 0!0            191
1019  8 59       SAR   XL2                                         C   4  1318  Q 094            191
1020  8 60       MCW   XL2,XL3                                     C   7  1322  M 094 099        191
1021  8 61  LOOP1 LCA   0&X2,0&X3                                  C   7  1329  L 0!0 0?0        192
1022  8 62       SAR   XL2                                         C   4  1336  Q 094            192
1023  8 63       MCW   0&X3,WORK9#9                                C   7  1340  M 0?0 Y20        192
1024  8 64       BCE   DONE,WORK9-6,#                             C   8  1347  B T66 Y14 #      192
1025  8 65       LCA   0&X3,0&X3                                   C   7  1355  L 0?0 0?0        192
1026  8 66       SAR   XL3                                         C   4  1362  Q 099            192
1027  8 67  DONE C     PICK&6,XL2                                  C   7  1366  C /10 094        193
1028  8 68       BU    LOOP1                                       C   5  1373  B T29 /          193
1029  8 69       MCW   XL3,PICK&6                                  C   7  1378  M 099 /10        193
1030  8 70       MCW   XL3,XL2                                     C   7  1385  M 099 094        193
1031  8 71       MZ    XL3,ALL92                                   C   7  1392  Y 099 Y05        193
1032  8 72       MZ                                                C   1  1399  Y               193
1033  8 724 *       MLZS ACCHI&X3,NSIGN  WASN'T ACTUALLY DONE      V3M4
1034  8 73       MCW                                               C   1  1400  M               193
1035  8 74       MZ    XL1,ALL9                                    C   7  1401  Y 089 Y02        194
1036  8 75       MZ                                                C   1  1408  Y               194
1037  8 76       MCW                                               C   1  1409  M               194
1038  8 77       C     ALL9,ALL92                                  C   7  1410  C Y02 Y05        194
1039  8 78       BE    ZADD                                        C   5  1417  B U42 S          194
1040  8 79  CLEER CS    0&X3                                        C   4  1422  / 0?0            194
1041  8 80       SBR   XL3                                         C   4  1426  H 099            194
1042  8 81       C     XL3,ALL9                                    C   7  1430  C 099 Y02        195
1043  8 82       BU    CLEER                                       C   5  1437  B U22 /          195
1044  8 83  ZADD ZA    &39,SAVE3                                   C   7  1442  ? Y22 !03        195
1045  8 84       S     XL3&1                                       C   4  1449  S 100            195
1046  8 85  MUVE MCW   BLNK3#3,TABLE&2&X3                          C   7  1453  M Y25 8D0        195
1047  8 86       S     &1,SAVE3                                    C   7  1460  S Y26 !03        195
1048  8 87       BM    EXIT,SAVE3                                  C   8  1467  V U86 !03 K      196
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 SEQ PG LIN  LABEL  OP    OPERANDS                                          SFX CT  LOCN  INSTRUCTION TYPE  CARD
1049  8 88          A     &3,XL3                                             C  7  1475  A Y27 099          196
1050  8 89          B     MUVE                                               C  4  1482  B U53             196
1051  8 90   EXIT   MCM   1&X2                                              C  4  1486  P 0!1             196
1052  8 91          MN                                                       C  1  1490  D                 196
1053  8 92          SAR   XL2                                              C  4  1491  Q 094             196
1054  8 93          BCE   EXIT,0&X2,|                                       C  8  1495  B U86 0!0 |        196
1055  8 94          SBR   XL2,1&X2                                          C  7  1503  H 094 0!1         197
1056  8 95          S     XL3&1                                              C  4  1510  S 100             197
1057  8 96          C     0&X2                                               C  4  1514  C 0!0             197
1058  8 97          SAR   *&4                                              C  4  1518  Q V25             197
1059  8 98          MCW   0,WORK9                                          C  7  1522  M 000 Y20         197
1060  8 99          MN    WORK9-6,XL3                                      C  7  1529  D Y14 099         197
1061  9 00          MCW   XL3,SAVE3                                        C  7  1536  M 099 !03         198
1062  9 01          A     XL3                                              C  4  1543  A 099             198
1063  9 02          A     SAVE3,XL3                                        C  7  1547  A !03 099         198
1064  9 03          BWZ   CNT,WORK9-6,2                                    C  8  1554  V V99 Y14 2        198
1065  9 04          A     &30,XL3                                          C  7  1562  A Y29 099         198
1066  9 05          BWZ   CNT,WORK9-6,S                                    C  8  1569  V V99 Y14 S        199
1067  9 06          A     &30,XL3                                          C  7  1577  A Y29 099         199
1068  9 07          BWZ   CNT,WORK9-6,K                                    C  8  1584  V V99 Y14 K        199
1069  9 08          A     &30,XL3                                          C  7  1592  A Y29 099         199
1070  9 09   CNT    MN    0&X2                                             C  4  1599  D 0!0             199
1071  9 10          MN                                                     C  1  1603  D                 199
1072  9 11          MCW   TABLE&2&X3                                       C  4  1604  M 8D0             199
1073  9 12          C     0&X2                                             C  4  1608  C 0!0             200
1074  9 13          SAR   TABLE&2&X3                                       C  4  1612  Q 8D0             200
1075  9 14          C     XL2,PARAMA&2                                     C  7  1616  C 094 688         200
1076  9 15          BU    EXIT                                             C  5  1623  B U86 /           200
1077  9 16          MCW   TBEGIN,XL3                                       C  7  1628  M Y10 099         200
1078  9 17          NOP   3&X3                                             C  4  1635  N 0?3             200
1079  9 18          SAR   TBEGIN                                           C  4  1639  Q Y10             200
1080  9 19          B     NUTYP                                            C  4  1643  B |63             201
1081  9 20   EOJ    FENDX C,GM,,XBEGIN,XBEGIN,XBEGIN,SAVE3,GROUP MARK      C                          MACRO
1082         EOJ    BSS   333,C                                            C  5  1647  B 333 C     GEN   201
1083                SBR   INITAP&6,XBEGIN                                  C  7  1652  H 786 838   GEN   201
1084                SBR   BCLEAR                                           C  4  1659  H 833       GEN   201
1085                SBR   INITXT&3,XBEGIN                                  C  7  1663  H 796 838   GEN   201
1086                SBR   TCLEAR,SAVE3                                     C  7  1670  H 710 !03   GEN   201
1087                LCA   @GROUP MARK@,110                                 C  7  1677  L Y39 110   GEN   202
1088                B     MONTER                                           C  4  1684  B 700       GEN   202
1089  9 21   CERR   FQUIT                                                  C                          MACRO
1090         CERR   CS    332                                              C  4  1688  / 332       GEN   202
1091                CS                                                     C  1  1692  /           GEN   202
1092                CC    1                                                C  2  1693  F 1         GEN   202
1093                MCW   @MESSAGE 2 - OBJECT PROGRAM TOO LARGE@,270       C  7  1695  M Y75 270   GEN   202
1094                W                                                      C  1  1702  2           GEN   202
1095                CC    1                                                C  2  1703  F 1         GEN   203
1096                BCE   *&6,MONTOR,1                                     C  8  1705  B X18 769 1  GEN   203
1097                RWD   1                                                C  5  1713  U %U1 R     GEN   203
1098                H     *-3                                              C  4  1718  . X18       GEN   203
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 SEQ PG LIN  LABEL   OP    OPERANDS                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD
1099  9 22           DCW   @XXX@                                     C   3  1724                    203
1100  9 23           DCW   117                          I DIMENSION  C   3  1727                    203
1101  9 24           DCW   084                          Q EQUIVALENCE C   3  1730                    203
1102  9 25           DCW   108                          F FORMAT     C   3  1733                    204
1103  9 26           DCW   009                          3 WRITE TAPE C   3  1736                    204
1104  9 27           DCW   003                          1 READ TAPE  C   3  1739                    204
1105  9 28           DCW   018                          6 WRITE OUTPUT TAPE C 3  1742              204
1106  9 29           DCW   081                          P PRINT      C   3  1745                    204
1107  9 30           DCW   042                          U PNCH       C   3  1748                    204
1108  9 31           DCW   015                          5 READ INPUT TAPE C 3  1751                 204
1109  9 32           DCW   069                          L READ       C   3  1754                    205
1110  9 33           DCW   087                          R ARITH      C   3  1757                    205
1111  9 34           DCW   105                          E IF         C   3  1760                    205
1112  9 35           DCW   027                          9 FUNCTION STMTS C 3  1763                  205
1113  9 36           DCW   096                          B BACKSPACE  C   3  1766                    205
1114  9 37           DCW   057                          Z REWIND     C   3  1769                    205
1115  9 38           DCW   075                          N END OF FILE C   3  1772                   205
1116  9 39           DCW   039                          T COMPUTED GO TO C 3  1775                  206
1117  9 40           DCW   111                          G GO TO      C   3  1778                    206
1118  9 41           DCW   036                          S STOP       C   3  1781                    206
1119  9 42           DCW   093                          A PAUSE      C   3  1784                    206
1120  9 43           DCW   063                          J SENSE LIGHT C   3  1787                   206
1121  9 44           DCW   066                          K IF SENSE LIGHT C 3  1790                  206
1122  9 45           DCW   048                          W IF SENSE SWITCH C 3  1793                 206
1123  9 46           DCW   099                          C CONTINUE   C   3  1796                    207
1124  9 47   LIST    DCW   102                          D DO         C   3  1799                    207
1125  9 48   ALL9    DCW   999                                       C   3  1802                    207
1126  9 49   ALL92   DCW   999                                       C   3  1805                    207
1127  9 50   GM      DC    @}@                          GROUP MARK   C   1  1806          GMARK     207
1128  9 51   PAKSW   DC    0                                         C   1  1807                    207
1129  9 52           LTORG *                                         C          1808
              TBEGIN  DCW   #03                                       C   3  1810          AREA      207
                      DCW   @#@                                       C   1  1811          LIT       207
              WORK9C  DCW   #09                                       C   9  1820          AREA      207
                      DCW   &39                                       C   2  1822          LIT       208
              BLNK3C  DCW   #03                                       C   3  1825          AREA      208
                      DCW   &1                                        C   1  1826          LIT       208
                      DCW   &3                                        C   1  1827          LIT       208
                      DCW   &30                                       C   2  1829          LIT       208
                      DCW   @GROUP MARK@                              C  10  1839          LIT       208
                      DCW   @MESSAGE 2 - OBJECT PROGRAM TOO LARGE@    C  36  1875          LIT       209
1130  9 53           ORG   EOTWO&1                                    C          2001
1131  9 54   SAVE3   DCW   #3                                        C   3  2003                    210
1132  9 55           ORG   ORGVBI&X00                   VARBL ONE LONGEST C      2900
1133  9 56   END     EQU   *&1                                       C      2900
1134  9 57           DCW   @}@                          SYSTEM GROUP MARK C  1  2900          GMARK     211
1135  9 58           XFR   AGAIN                                     C                B |22             212
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 SEQ PG LIN  LABEL  OP    OPERANDS                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD
1136  9 59          JOB   1401 FORTRAN  INSERT GROUP PHASE          C
1137  9 60          FBEGN GROUP MARK,X1,R,X2,R,,,D                  C                      MACRO
1138                SFX   D                                       D                      GEN
1139          110   DCW   @GROUP MARK@                            D  10  0110            GEN    215
1140          X1    EQU   089                                     D      0089            GEN
1141          089   DCW   000                                     D   3  0089            GEN    216
1142          091   DC    00                                      D   2  0091            GEN    216
1143          X2    EQU   094                                     D      0094            GEN
1144          094   DCW   000                                     D   3  0094            GEN    216
1145          096   DC    00                                      D   2  0096            GEN    216
1146  9 61          ORG   XBEGIN                                   D            0838
1147  9 62  START   MCW   083,X1                                   D   7  0838  M 083 089         217
1148  9 63          SW    GM                                      D   4  0845  , |91             217
1149  9 64  LOOP1   BCE   RPLCE,0&X1,:        5-8                 D   8  0849  B 881 0|0 :       217
1150  9 65  BTEST   BCE   EOJ,0&X1,           BLANK               D   8  0857  B 949 0|0         217
1151  9 66          BCE   CKFMT,0&X1,}         GROUP MARK          D   8  0865  B 904 0|0 } GMARK 217
1152  9 67          SBR   X1                                      D   4  0873  H 089             217
1153  9 68          B     LOOP1                                   D   4  0877  B 849             218
1154  9 69  RPLCE   LCA   GM, 0&X1          INSERT GM/WM          D   7  0881  L |91 0|0         218
1155  9 70          SBR   X1                                      D   4  0888  H 089             218
1156  9 71          C     0&X1                                    D   4  0892  C 0|0             218
1157  9 72          SAR   X1                                      D   4  0896  Q 089             218
1158  9 73          B     LOOP1                                   D   4  0900  B 849             218
1159  9 74  CKFMT   MCW   0&X1,HOLD5#5                           D   7  0904  M 0|0 |96          218
1160  9 75          BCE   ISFMT,HOLD5-4,F                         D   8  0911  B 938 |92 F       219
1161  9 76          MCW   @B@,BTEST                               D   7  0919  M |97 857         219
1162  9 77  BUMP    MN    0&X1                                    D   4  0926  D 0|0             219
1163  9 78          SBR   X1                                      D   4  0930  H 089             219
1164  9 79          B     LOOP1                                   D   4  0934  B 849             219
1165  9 80  ISFMT   MCW   @N@,BTEST                               D   7  0938  M |98 857         219
1166  9 81          B     BUMP                                    D   4  0945  B 926             219
1167  9 82  EOJ     MCW   PARAMA&2,X2                             D   7  0949  M 688 094         220
1168  9 83          MZ    083,ALL9                                D   7  0956  Y 083 |90         220
1169  9 84          MZ                                            D   1  0963  Y                 220
1170  9 85          MCW                                           D   1  0964  M                 220
1171  9 86  CLEAR   CS    0&X2                                    D   4  0965  / 0!0             220
1172  9 87          SBR   X2                                      D   4  0969  H 094             220
1173  9 88          C     X2,ALL9                                 D   7  0973  C 094 |90         220
1174  9 89          BU    CLEAR                                   D   5  0980  B 965 /           221
1175  9 90  CMPAR   C     083,X2                                  D   7  0985  C 083 094         221
1176  9 91          BE    FXPRM                                   D   5  0992  B |16 S           221
1177  9 92          MCW   BLANK#1,0&X2                            D   7  0997  M |99 0!0         221
1178  9 93          CW    0&X2                                    D   4  1004  ) 0!0             221
1179  9 94          SBR   X2                                      D   4  1008  H 094             221
1180  9 95          B     CMPAR                                   D   4  1012  B 985             221
1181  9 96  FXPRM   SW    PARAMA&3                                D   4  1016  , 689             222
1182  9 97          A     BLANK,PARAMA&6                          D   7  1020  A |99 692         222
1183  9 98          C     PARAMA&4,@00@                           D   7  1027  C 690 /01         222
1184  9 99          BU    *&8                                     D   5  1034  B |46 /           222
1185 10 00          MCW   @05@,PARAMA&4                           D   7  1039  M /03 690         222
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 SEQ PG LIN  LABEL   OP     OPERANDS                                SFX CT  LOCN  INSTRUCTION TYPE  CARD
1186 10 01           C      PARAMA&6,@00@                           D   7  1046  C 692 /01          222
1187 10 02           BU     EOPHS                                   D   5  1053  B |65 /           223
1188 10 03           MCW    @08@,PARAMA&6                           D   7  1058  M /05 692        223
1189 10 04   EOPHS    FENDX  C,GM,,,,,SYS1,SQUOZE                    D                 MACRO
1190         EOPHS    BSS    333,C                                   D   5  1065  B 333 C    GEN   223
1191                  SBR    TCLEAR,SYS1                             D   7  1070  H 710 /12  GEN   223
1192                  LCA    @SQUOZE@,110                            D   7  1077  L /11 110  GEN   223
1193                  B      MONTER                                  D   4  1084  B 700      GEN   223
1194 10 05   ALL9     DCW    999                                     D   3  1090               223
1195 10 06   GM       DC     @}@                     GROUP MARK      D   1  1091        GMARK  223
1196 10 07           LTORG  *                                       D            1092
             HOLD5D   DCW    #05                                     D   5  1096        AREA   224
                      DCW    @B@                                     D   1  1097        LIT    224
                      DCW    @N@                                     D   1  1098        LIT    224
             BLANKD   DCW    #01                                     D   1  1099        AREA   224
                      DCW    @00@                                    D   2  1101        LIT    224
                      DCW    @05@                                    D   2  1103        LIT    224
                      DCW    @08@                                    D   2  1105        LIT    224
                      DCW    @SQUOZE@                                D   6  1111        LIT    225
1197 10 08   SYS1     DCW    @}@                     SYSTEM GROUP MARK D 1  1112        GMARK  225
1198 10 09           XFR    START                                   D            B 838          226
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 SEQ PG LIN  LABEL  OP    OPERANDS                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD
1199 10 10          JOB   1401 FORTRAN  SQUOZE PHASE                D
1200 10 11          FBEGN SQUOZE,XL1,R,XL2,R,XL3,R,E,XXXX           D                       MACRO
1201                SFX   E                                         E                       GEN
1202          XXXX  EQU   0                                         E      0000             GEN
1203          110   DCW   @SQUOZE@                                  E   6  0110             GEN    229
1204          XL1   EQU   089                                       E      0089             GEN
1205          089   DCW   000                                       E   3  0089             GEN    230
1206          091   DC    00                                        E   2  0091             GEN    230
1207          XL2   EQU   094                                       E      0094             GEN
1208          094   DCW   000                                       E   3  0094             GEN    230
1209          096   DC    00                                        E   2  0096             GEN    230
1210          XL3   EQU   099                                       E      0099             GEN
1211          099   DCW   000                                       E   3  0099             GEN    230
1212          100   DC    0                                         E   1  0100             GEN    230
1213 10 12    X1    EQU   XL1                                       E      0089
1214 10 13    X2    EQU   XL2                                       E      0094
1215 10 14    STLOC EQU   083                                       E      0083
1216 10 15          ORG   XBEGIN                                    E          0838
1217 10 16    BEGIN MCW   STLOC,XL2                 INITIALIZE INDEX LOCS  E   7  0838  M 083 094          231
1218 10 17          MCW   STLOC,XL1                  WITH START ADDRESS    E   7  0845  M 083 089          231
1219 10 18    NUSTM MCW   0&X1,STMNO#3              SAVE STATEMENT NUMBER  E   7  0852  M 0|0 U94          231
1220 10 19          MCW   0&X1,HOLD4#4                                    E   7  0859  M 0|0 U98          231
1221 10 20          BCE   ARITH,HOLD4-3,R                               E   8  0866  B /56 U95 R        231
1222 10 21          BCE   ENDCD,HOLD4-3,/                               E   8  0874  B /82 U95 /        232
1223 10 22    BYP   BCE   LOD,HOLD4-3,X                                 E   8  0882  B 991 U95 X        232
1224 10 23          MZ    HOLD4-3,BYP&7                                 E   7  0890  Y U95 889          232
1225 10 24          MN    HOLD4-3,BYP&7                                 E   7  0897  D U95 889          232
1226 10 25          MN    HOLD4-3,HOLD1#1       GENERATE TABLE ENTRY    E   7  0904  D U95 U99          232
1227 10 26          ZA    HOLD1,HOLD3#3          ADDRESS                E   7  0911  ? U99 V02          233
1228 10 27          A     HOLD3                                         E   4  0918  A V02              233
1229 10 28          A     HOLD1,HOLD3                                   E   7  0922  A U99 V02          233
1230 10 29          MZ    BLANK#1,HOLD3                                 E   7  0929  Y V03 V02          233
1231 10 30          LCA   &TABLE-3,RTREV&3                             E   7  0936  L V06 979          233
1232 10 31          A     HOLD3,RTREV&3                                 E   7  0943  A V02 979          233
1233 10 32          MZ    HOLD4-3,RTREV&2                               E   7  0950  Y U95 978          234
1234 10 33          CW    RTREV&1                                       E   4  0957  ) 977              234
1235 10 34          MCW   XL2,HOLDX#8                SAVE INDEX LOCS 1 & 2  E   7  0961  M 094 V14          234
1236 10 35          MCW                                                 E   1  0968  M                  234
1237 10 36          MCM   DATA,XL1-2                  RETRIEVE TABLE ENTRY  E   7  0969  P U78 087          234
1238 10 37    RTREV MCW   XXXX,XL3                                      E   7  0976  M 000 099          234
1239 10 38          MCW   HOLDX,XL2                                     E   7  0983  M V14 094          235
1240 10 39          MCW                                                 E   1  0990  M                  235
1241 10 40    LOD   MVDWN X1,X2                                        E                       MACRO
1242          LOD   LCA   0&X1,0&X2                                     E   7  0991  L 0|0 0!0  GEN    235
1243                SAR   X1                                          E   4  0998  Q 089      GEN    235
1244                C     0&X2                                        E   4  1002  C 0!0      GEN    235
1245                SAR   X2                                          E   4  1006  Q 094      GEN    235
1246 10 41          C     0&X1,0&X3                 CHECK STATEMENT NAME  E   7  1010  C 0|0 0?0          235
1247 10 42          SAR   XL1                                         E   4  1017  Q 089              236
1248 10 43          BU    ERROR                                       E   5  1021  B |92 /            236
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 SEQ PG LIN  LABEL  OP    OPERANDS                                        SFX CT  LOCN  INSTRUCTION TYPE  CARD
1249 10 44   SHIFT  MVDWN X1,X2                                          E           MACRO
1250         SHIFT  LCA   0&X1,0&X2                                       E   7  1026  L 0|0 0!0   GEN    236
1251                SAR   X1                                            E   4  1033  Q 089       GEN    236
1252                C     0&X2                                          E   4  1037  C 0!0       GEN    236
1253                SAR   X2                                            E   4  1041  Q 094       GEN    236
1254 10 45   CKDON  BCE   DONE,0&X1,                  BLANK CHECK FOR EOJ E   8  1045  B |57 0|0        236
1255 10 46          B     NUSTM                                         E   4  1053  B 852             237
1256 10 47   DONE   CS    0&X2                                          E   4  1057  / 0!0             237
1257 10 48          CS                                                  E   1  1061  /                 237
1258 10 49          FENDX C,,,,INITLF,,SYS1,DIMEN1                      E           MACRO
1259                BSS   333,C                                         E   5  1062  B 333 C     GEN    237
1260                SBR   INITXT&3,INITLF                               E   7  1067  H 796 839   GEN    237
1261                SBR   TCLEAR,SYS1                                   E   7  1074  H 710 V67   GEN    237
1262                LCA   @DIMEN1@,110                                  E   7  1081  L V20 110   GEN    237
1263                B     MONTER                                        E   4  1088  B 700       GEN    238
1264 10 50   ERROR  FTMSG 1,UNDETERMINABLE STATEMENT,STMNO,25           E           MACRO
1265         ERROR  CS    332                                           E   4  1092  / 332       GEN    238
1266                CS                                                  E   1  1096  /           GEN    238
1267                SW    FAILSW                                        E   4  1097  , 184       GEN    238
1268                MN    STMNO,224&25                                  E   7  1101  D U94 249   GEN    238
1269                MN                                                  E   1  1108  D           GEN    238
1270                MN                                                  E   1  1109  D           GEN    238
1271                MCW   @ERROR 1 - UNDETERMINABLE STATEMENT, STATEMENT @ E  4  1110  M V66       GEN    239
1272                W                                                   E   1  1114  2           GEN    239
1273                BCV   *&5                                           E   5  1115  B /24 @     GEN    239
1274                B     *&3                                           E   4  1120  B /26       GEN    239
1275                CC    1                                             E   2  1124  F 1         GEN    239
1276 10 51   PMOV3  MCM   2&X2                                          E   4  1126  P 0!2             239
1277 10 52          MN                                                  E   1  1130  D                 239
1278 10 53          MN                                                  E   1  1131  D                 240
1279 10 54          SAR   XL2                                           E   4  1132  Q 094             240
1280 10 55          BCE   PMOV3,1&X2,|                                 E   8  1136  B /26 0!1 |        240
1281 10 56          C     0&X1                                          E   4  1144  C 0|0             240
1282 10 57          SAR   XL1                                           E   4  1148  Q 089             240
1283 10 58          B     CKDON                                         E   4  1152  B |45             240
1284 10 59   ARITH  LCA   0&X1,0&X2                                     E   7  1156  L 0|0 0!0         240
1285 10 60          SAR   XL1                                           E   4  1163  Q 089             241
1286 10 61          LCA   0&X2,0&X2                                     E   7  1167  L 0!0 0!0         241
1287 10 62          SBR   XL2                                           E   4  1174  H 094             241
1288 10 63          B     SHIFT                                         E   4  1178  B |26             241
1289 10 64   ENDCD  C     0&X1                                          E   4  1182  C 0|0             241
1290 10 65          C                                                   E   1  1186  C                 241
1291 10 66          SAR   XL1                                           E   4  1187  Q 089             241
1292 10 67          B     CKDON                       / END             E   4  1191  B |45             242
1293 10 68   TABLE  DCW   RDTAP                       1 READ TAPE       E   3  1197  U03              242
1294 10 69          DCW   XXXX                        2                 E   3  1200  000              242
1295 10 70          DCW   WRTAP                       3 WRITE TAPE      E   3  1203  U12              242
1296 10 71          DCW   XXXX                        4                 E   3  1206  000              242
1297 10 72          DCW   RDITP                       5 READ INPUT TAPE E   3  1209  T70              242
1298 10 73          DCW   WTOTP                       6 WRITE OUTPUT TAPE E  3  1212  T95              242
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SEQ	PG	LIN	LABEL	OP	OPERANDS		SFX	CT	LOCN	INSTRUCTION TYPE	CARD
1299	10	74		DCW	XXXX	7	E	3	1215	000	243
1300	10	75		DCW	XXXX	8	E	3	1218	000	243
1301	10	76		DCW	BLANK	9 FUNCTION STATEMENTS	E	3	1221	V03	243
1302	10	77		DCW	XXXX	/	E	3	1224	000	243
1303	10	78		DCW	STOP	S STOP	E	3	1227	T36	243
1304	10	79		DCW	CGOTO	T COMPUTED GO TO	E	3	1230	T11	243
1305	10	80		DCW	PUNCH	U PUNCH	E	3	1233	T75	243
1306	10	81		DCW	XXXX	V	E	3	1236	000	244
1307	10	82		DCW	IFSSW	W IF SENSE SWITCH	E	3	1239	T27	244
1308	10	83		DCW	XXXX	X	E	3	1242	000	244
1309	10	84		DCW	XXXX	Y	E	3	1245	000	244
1310	10	85		DCW	RWD	Z REWIND	E	3	1248	U25	244
1311	10	86		DCW	SENLT	J SENSE LIGHT	E	3	1251	U77	244
1312	10	87		DCW	IFSL	K IF SENSE LIGHT	E	3	1254	U67	244
1313	10	88		DCW	READ	L READ	E	3	1257	T57	245
1314	10	89		DCW	XXXX	M	E	3	1260	000	245
1315	10	90		DCW	EOF	N END OF FILE	E	3	1263	U19	245
1316	10	91		DCW	XXXX	O	E	3	1266	000	245
1317	10	92		DCW	PRINT	P PRINT	E	3	1269	T80	245
1318	10	93		DCW	EQUIV	Q EQUIVALENCE	E	3	1272	U54	245
1319	10	94		DCW	XXXX	R ARITHMETIC	E	3	1275	000	245
1320	10	95		DCW	PAUSE	A PAUSE	E	3	1278	T32	246
1321	10	96		DCW	BSP	B BACKSPACE	E	3	1281	U34	246
1322	10	97		DCW	CNTU	C CONTINUE	E	3	1284	T46	246
1323	10	98		DCW	DO	D DO	E	3	1287	T38	246
1324	10	99		DCW	IF	E IF	E	3	1290	T13	246
1325	11	00		DCW	FRMAT	F FORMAT	E	3	1293	T53	246
1326	11	01		DCW	GOTO	G GO TO	E	3	1296	T06	246
1327	11	02		DCW	XXXX	H	E	3	1299	000	247
1328	11	03		DCW	DMSN	I DIMENSION	E	3	1302	U43	247
1329	11	04	GOTO	DCW	@OTOG@		E	4	1306		247
1330	11	05	CGOTO	DCW	@%OTOG@		E	5	1311		247
1331	11	06	IF	DCW	@FI@		E	2	1313		247
1332	11	07	IFSSW	DCW	@HCTIWSESNES%FI@		E	14	1327		247
1333	11	08	PAUSE	DCW	@ESUAP@		E	5	1332		247
1334	11	09	STOP	DCW	@POTS@		E	4	1336		248
1335	11	10	DO	DCW	@OD@		E	2	1338		248
1336	11	11	CNTU	DCW	@EUNITNOC@		E	8	1346		248
1337	11	12	FRMAT	DCW	@%TAMROF@		E	7	1353		248
1338	11	13	READ	DCW	@DAER@		E	4	1357		248
1339	11	14	RDITP	DCW	@EPATTUPNIDAER@		E	13	1370		248
1340	11	15	PUNCH	DCW	@HCNUP@		E	5	1375		249
1341	11	16	PRINT	DCW	@TNIRP@		E	5	1380		249
1342	11	17	WTOTP	DCW	@EPATTUPTUOETIRW@		E	15	1395		249
1343	11	18	RDTAP	DCW	@EPATDAER@		E	8	1403		249
1344	11	19	WRTAP	DCW	@EPATETIRW@		E	9	1412		250
1345	11	20	EOF	DCW	@ELIFDNE@		E	7	1419		250
1346	11	21	RWD	DCW	@DNIWER@		E	6	1425		250
1347	11	22	BSP	DCW	@ECAPSKCAB@		E	9	1434		250
1348	11	23	DMSN	DCW	@NOISNEMID@		E	9	1443		251

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

1349 11 24   EQUIV   DCW   @ECNELAVIUQE@                                     E  11  1454                    251
1350 11 25   IFSL    DCW   @THGILESNES%FI@                                   E  13  1467                    251
1351 11 26   SENLT   DCW   @THGILESNES@                                      E  10  1477                    252
1352 11 27   DATA    EQU   *&1                                               E      1478
1353 11 28           DCW   @0270005400081|@                                  E  14  1491                    252
1354 11 29           LTORG *                                                 E             1492
             STMNOE  DCW   #03                                              E   3  1494          AREA    252
             HOLD4E  DCW   #04                                              E   4  1498          AREA    252
             HOLD1E  DCW   #01                                              E   1  1499          AREA    252
             HOLD3E  DCW   #03                                              E   3  1502          AREA    252
             BLANKE  DCW   #01                                              E   1  1503          AREA    252
                     DCW   &TABLEE-3                                        E   3  1506  /94      ADCON   253
             HOLDXE  DCW   #08                                              E   8  1514          AREA    253
                     DCW   @DIMEN1@                                         E   6  1520          LIT     253
                     DCW   @ERROR 1 - UNDETERMINABLE STATEMENT, STATEMENT @ E  46  1566          LIT     255
1355 11 30   SYS1    DCW   @}@                                SYSTEM GROUP MARK E   1  1567          GMARK   255
1356 11 31           XFR   BEGIN                                             E             B 838           256
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 SEQ PG LIN  LABEL  OP    OPERANDS                                SFX CT  LOCN  INSTRUCTION TYPE  CARD
1357 11 32          JOB   1401 FORTRAN DIMENSION PHASE ONE         E
1358 11 33          FBEGN DIMEN 1,X1,,X2,R,X3,R,F                  E                      MACRO
1359                SFX   F                                        F                      GEN
1360          110   DCW   @DIMEN 1@                               F   7  0110            GEN    259
1361          X1    EQU   089                                      F      0089            GEN
1362          X2    EQU   094                                      F      0094            GEN
1363          094   DCW   000                                      F   3  0094            GEN    260
1364          096   DC    00                                       F   2  0096            GEN    260
1365          X3    EQU   099                                      F      0099            GEN
1366          099   DCW   000                                      F   3  0099            GEN    260
1367          100   DC    0                                        F   1  0100            GEN    260
1368 11 34          ORG   XBEGIN                                   F          0838
1369 11 35   COMPAT DCW   0                                        F   1  0838                   261
1370 11 36   INITL  SW    GM                                       F   4  0839  , W91            261
1371 11 37          MCW   83,X1                                    F   7  0843  M 083 089        261
1372 11 38          A     BLANK#1,PARAMA&6                         F   7  0850  A X01 692        261
1373 11 39          MCW   PARAMA&6,HOLD#2                          F   7  0857  M 692 X03        261
1374 11 40          A     &2,HOLD                                  F   7  0864  A X04 X03        261
1375 11 41          C     PARAMA&4,HOLD                            F   7  0871  C 690 X03        262
1376 11 42          BU    *&5                                      F   5  0878  B 887 /          262
1377 11 43          CW    COMPAT                                   F   4  0883  ) 838            262
1378 11 44          LCA   GM,1&X1                                  F   7  0887  L W91 0|1        262
1379 11 45          LCA   PARAMA&2,X2                             F   7  0894  L 688 094        262
1380 11 46          MN    0000&X2                                  F   4  0901  D 0!0            262
1381 11 47          MN                                             F   1  0905  D               262
1382 11 48          MCW   @ @                          BLANK       F   4  0906  M X05            263
1383 11 49          SBR   X2                                       F   4  0910  H 094            263
1384 11 50   START  MCW   BLANK,001            B OP INITIALIZED    F   7  0914  M X01 001        263
1385 11 51          MCW   @<@,2&X1            12-6-8              F   7  0921  M X06 0|2        263
1386 11 52          NOP   2&X1                                     F   4  0928  N 0|2            263
1387 11 53          SAR   START&6                                  F   4  0932  Q 920            263
1388 11 54          LCA   0&X1,WORK                                F   7  0936  L 0|0 W90        263
1389 11 55          SAR   X1                                       F   4  0943  Q 089            264
1390 11 56          SBR   X3                                       F   4  0947  H 099            264
1391 11 57          BCE   CKNOD,WORK,                  BLANK       F   8  0951  B V45 W90        264
1392 11 58          BCE   DIMEN,WORK-3,I                           F   8  0959  B 979 W87 I      264
1393 11 59          BCE   BYP,WORK-3,/                             F   8  0967  B V33 W87 /      264
1394 11 60          B     CKNOD                                    F   4  0975  B V45            264
1395 11 61   DIMEN  BCE   NAME,000&X1,%         LEFT PAREN        F   8  0979  B |19 0|0 %      265
1396 11 62          FBCEQ SYNER,0&X1,,,),}       12-7-8            F                      MACRO
1397                BCE   SYNER, 0&X1, ,                           F   8  0987  B U84 0|0 , GEN  265
1398                BCE   SYNER, 0&X1, )                           F   8  0995  B U84 0|0 ) GEN  265
1399                BCE   SYNER, 0&X1, }                           F   8  1003  B U84 0|0 } GEN  265
1400 11 63          SBR   X1                                       F   4  1011  H 089            265
1401 11 64          B     DIMEN                                    F   4  1015  B 979            266
1402 11 65   NAME   SW    DIMSW                                    F   4  1019  , X00            266
1403 11 66          MN    0&X1                                     F   4  1023  D 0|0            266
1404 11 67          SAR   X1                                       F   4  1027  Q 089            266
1405 11 68          SW    002&X1                                   F   4  1031  , 0|2            266
1406 11 69          MCW   X2,HEX2#3                                F   7  1035  M 094 X09        266
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 SEQ PG LIN  LABEL  OP    OPERANDS                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD
1407 11 70   *    TEST TO SEE IF ARRAY WAS PREVIOUSLY DEFINED
1408 11 71          BW    OK,DSW#1                                   F   8  1042  V /12 X10 1        266
1409 11 72   UNIQ   MCM   1&X2                                       F   4  1050  P 0!1              267
1410 11 73          SAR   X2                                         F   4  1054  Q 094              267
1411 11 74          BCE   OK,0&X2,      BLANK                       F   8  1058  B /12 0!0          267
1412 11 75   GET    MCM   2&X2                                       F   4  1066  P 0!2              267
1413 11 76          MN                                             F   1  1070  D                  267
1414 11 77          MN                                             F   1  1071  D                  267
1415 11 78          SBR   X2                                         F   4  1072  H 094              267
1416 11 79          BCE   GET,1&X2,|                                 F   8  1076  B |66 0!1 |        268
1417 11 80   COMP   C     0&X2,0&X3      REST V. NEW                 F   7  1084  C 0!0 0?0          268
1418 11 81          SAR   X2                                         F   4  1091  Q 094              268
1419 11 82          BU    UNIQ                                       F   5  1095  B |50 /            268
1420 11 83   *    CAN GET EQUAL COMPARE IF A FIELD LONGER THAN B FIELD
1421 11 84          BWZ   MULTY,1&X2,1                               F   8  1100  V T56 0!1 1        268
1422 11 85          B     UNIQ                                       F   4  1108  B |50             268
1423 11 86   OK     MCW   HEX2,X2                                    F   7  1112  M X09 094          269
1424 11 87          LCA   GM,000&X2                                  F   7  1119  L W91 0!0          269
1425 11 88          LCA   000&X3                                    F   4  1126  L 0?0              269
1426 11 89          LCA   PRED                                      F   4  1130  L W94              269
1427 11 90          SBR   X2                                         F   4  1134  H 094              269
1428 11 91          MCW   PRED,X3        PRED INITIALLY BLANK       F   7  1138  M W94 099          269
1429 11 92          BCE   *&5,X3,                          BLANK     F   8  1145  B /57 099          270
1430 11 93          B     *&8                                        F   4  1153  B /64              270
1431 11 94          A     BLANK,X3                                   F   7  1157  A X01 099          270
1432 11 95          LCA   @   @,000&X2                             F   7  1164  L X13 0!0          270
1433 11 96          LCA   @   @                                    F   4  1171  L X13              270
1434 11 97          SBR   006&X3                                     F   4  1175  H 0?6              270
1435 11 98          SBR   PRED                                       F   4  1179  H W94              270
1436 11 99          LCA   @     @                                    F   4  1183  L X18              271
1437 12 00          SBR   X2                                         F   4  1187  H 094              271
1438 12 01   RESET  FFLIP 0&X1,MN,X1,X3,,,,,),}          GROUP MARK  F                        MACRO
1439         RESET  MN    MN                                         F   4  1191  D W95        GEN   271
1440                MN                                             F   1  1195  D            GEN   271
1441                SAR   X3                                         F   4  1196  Q 099        GEN   271
1442                SBR   X1, 0&X1                                   F   7  1200  H 089 0|0     GEN   271
1443         )0K028 MCW   0&X1,)0L028#1                             F   7  1207  M 0|0 X19     GEN   271
1444                SAR   X1                                         F   4  1214  Q 089        GEN   272
1445                BCE   )0M028, )0L028, )                        F   8  1218  B S57 X19 )  GEN   272
1446                BCE   )0M028, )0L028, }                        F   8  1226  B S57 X19 }  GEN   272
1447                BCE   )0M028, )0L028, ,                        F   8  1234  B S57 X19 ,  GEN   272
1448                MCW   )0L028, 2&X3                             F   7  1242  M X19 0?2     GEN   272
1449                SBR   X3                                         F   4  1249  H 099        GEN   272
1450                B     )0K028                                     F   4  1253  B S07        GEN   273
1451         )0M028 EQU   *&1                                       F      1257               GEN
1452 12 02          BCE   SYNER,1&X1,}                  12-7-8     F   8  1257  B U84 0|1 }  GMARK 273
1453 12 03          LCA   001&X3,000&X2                            F   7  1265  L 0?1 0!0          273
1454 12 04          SBR   X2                                         F   4  1272  H 094              273
1455 12 05          BCE   RESET,1&X1,,                              F   8  1276  B /91 0|1 ,        273
1456 12 06          MCW   START&6,X3                               F   7  1284  M 920 099          273
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 SEQ PG LIN  LABEL  OP    OPERANDS                                    SFX CT  LOCN  INSTRUCTION TYPE  CARD
1457 12 07          BCE   *&5,0&X3,<          12-6-8                   F   8  1291  B T03 0?0 <        274
1458 12 08          B     FAIL                                         F   4  1299  B W46             274
1459 12 09          CW    DSW                                          F   4  1303  ) X10             274
1460 12 10  CKGM    BCE   NEXT,0&X1,}          12-7-8                  F   8  1307  B T44 0|0 } GMARK  274
1461 12 11          B                    LAST CHAR OF DIMEN MIGHT BE ,  F   1  1315  B               274
1462 12 12          BCE   *&5,0&X1,,                                   F   8  1316  B T28 0|0 ,        274
1463 12 13          B     SYNER                                        F   4  1324  B U84             274
1464 12 14          MN    000&X1                                       F   4  1328  D 0|0             275
1465 12 15          SAR   X1                                           F   4  1332  Q 089             275
1466 12 16          SBR   X3                                           F   4  1336  H 099             275
1467 12 17          B     DIMEN                                        F   4  1340  B 979             275
1468 12 18  NEXT    C     0&X1                                         F   4  1344  C 0|0             275
1469 12 19          SAR   X1                                           F   4  1348  Q 089             275
1470 12 20          B     START                                        F   4  1352  B 914             275
1471 12 21  MULTY   CS    332                                          F   4  1356  / 332             276
1472 12 22          CS                                                 F   1  1360  /                 276
1473 12 23          SW    FAILSW                                       F   4  1361  , 184             276
1474 12 24          MCW   @ERROR 2 - DOUBLY DEFINED ARRAY@,230         F   7  1365  M X49 230         276
1475 12 25          MCW   COMP&6,X2                                    F   7  1372  M |90 094         276
1476 12 26          FFLIP 0&X3,232,X3,X2,INCL,WM                       F                    MACRO
1477                MN    232                                          F   4  1379  D 232       GEN   276
1478                MN                                                 F   1  1383  D           GEN   276
1479                SAR   X2                                           F   4  1384  Q 094       GEN   277
1480                SBR   X3, 0&X3                                     F   7  1388  H 099 0?0   GEN   277
1481         )0K029 MCW   0&X3,)0L029#1                                F   7  1395  M 0?0 X50   GEN   277
1482                SAR   X3                                           F   4  1402  Q 099       GEN   277
1483                MCW   )0L029, 2&X2                                 F   7  1406  M X50 0!2   GEN   277
1484                SBR   X2                                           F   4  1413  H 094       GEN   277
1485                BW    )0M029, 1&X3                                 F   8  1417  V U29 0?1 1 GEN   278
1486                B     )0K029                                       F   4  1425  B T95       GEN   278
1487         )0M029 EQU   *&1                                          F      1429               GEN
1488 12 27          W                                                  F   1  1429  2                 278
1489 12 28          FORMS                                              F                    MACRO
1490                BCV   *&5                                          F   5  1430  B U39 @     GEN   278
1491                B     *&3                                          F   4  1435  B U41       GEN   278
1492                CC    1                                            F   2  1439  F 1         GEN   278
1493 12 29  LOZSC   BCE   CTUL,0&X1,)                                  F   8  1441  B U65 0|0 )       278
1494 12 30          SBR   X1                                           F   4  1449  H 089             279
1495 12 31          BCE   SYNER,1&X1,}      12-7-8                     F   8  1453  B U84 0|1 } GMARK  279
1496 12 32          B     LOZSC                                        F   4  1461  B U41             279
1497 12 33  CTUL    MN    0&X1                                         F   4  1465  D 0|0             279
1498 12 34          SAR   X1                                           F   4  1469  Q 089             279
1499 12 35          MCW   HEX2,X2                                      F   7  1473  M X09 094         279
1500 12 36          B     CKGM                                         F   4  1480  B T07             279
1501 12 37  SYNER   FTMSG 3,DIMENSION SYNTAX,WORK,17                   F                    MACRO
1502        SYNER   CS    332                                          F   4  1484  / 332       GEN   280
1503                CS                                                 F   1  1488  /           GEN   280
1504                SW    FAILSW                                       F   4  1489  , 184       GEN   280
1505                MN    WORK,224&17                                  F   7  1493  D W90 241   GEN   280
1506                MN                                                 F   1  1500  D           GEN   280
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 SEQ PG LIN  LABEL  OP    OPERANDS                                                SFX CT  LOCN  INSTRUCTION TYPE  CARD
1507                MN                                                          F   1  1501  D           GEN    280
1508                MCW   @ERROR 3 - DIMENSION SYNTAX, STATEMENT @              F   4  1502  M X88        GEN    280
1509                W                                                           F   1  1506  2           GEN    281
1510                BCV   *&5                                                   F   5  1507  B V16 @      GEN    281
1511                B     *&3                                                   F   4  1512  B V18        GEN    281
1512                CC    1                                                     F   2  1516  F 1         GEN    281
1513 12 38          MCW   HEX2,X2                                              F   7  1518  M X09 094          281
1514 12 39          BCE   START,1&X1,}                    12-7-8                F   8  1525  B 914 0|1 } GMARK  281
1515 12 40  BYP     C     0&X1                                                  F   4  1533  C 0|0              281
1516 12 41          SAR   X1                                                    F   4  1537  Q 089              282
1517 12 42          B     START                                                 F   4  1541  B 914              282
1518 12 43  CKNOD   BW    OUT,DIMSW                                             F   8  1545  V V88 X00 1        282
1519 12 44          LCA   GM,0&X2                                               F   7  1553  L W91 0!0          282
1520 12 45          LCA   @:@                          5-8                      F   4  1560  L X89              282
1521 12 46          LCA   BLNK3#3                                               F   4  1564  L X92              282
1522 12 47          LCA   BLNK3                                                 F   4  1568  L X92              282
1523 12 48          LCA   BLNK3                                                 F   4  1572  L X92              283
1524 12 49          LCA   BLANK5#5                                              F   4  1576  L X97              283
1525 12 50          LCA   @10@                                                  F   4  1580  L X99              283
1526 12 51          SBR   X2                                                    F   4  1584  H 094              283
1527 12 52  OUT     NOP   002&X1                                                F   4  1588  N 0|2              283
1528 12 53          MCM                                                         F   1  1592  P                  283
1529 12 54          MCW                                                         F   1  1593  M                  283
1530 12 55          SAR   X1                                                    F   4  1594  Q 089              284
1531 12 56          MCW   006,086                                               F   7  1598  M 006 086          284
1532 12 57          FENDX C,GM,,XBEGIN&1,INITLG,XBEGIN&1,SYS1,EQUIV ONE         F                      MACRO
1533                BSS   333,C                                                 F   5  1605  B 333 C      GEN    284
1534                SBR   INITAP&6,XBEGIN&1                                     F   7  1610  H 786 839    GEN    284
1535                SBR   BCLEAR                                                F   4  1617  H 833        GEN    284
1536                SBR   INITXT&3,INITLG                                       F   7  1621  H 796 |34    GEN    284
1537                SBR   TCLEAR,SYS1                                           F   7  1628  H 710 Y45    GEN    285
1538                LCA   @EQUIV ONE@,110                                       F   7  1635  L Y08 110    GEN    285
1539                B     MONTER                                                F   4  1642  B 700        GEN    285
1540 12 58  FAIL    FQUIT                                                       F                      MACRO
1541        FAIL    CS    332                                                   F   4  1646  / 332        GEN    285
1542                CS                                                          F   1  1650  /            GEN    285
1543                CC    1                                                     F   2  1651  F 1         GEN    285
1544                MCW   @MESSAGE 2 - OBJECT PROGRAM TOO LARGE@,270           F   7  1653  M Y44 270    GEN    285
1545                W                                                           F   1  1660  2           GEN    286
1546                CC    1                                                     F   2  1661  F 1         GEN    286
1547                BCE   *&6,MONTOR,1                                          F   8  1663  B W76 769 1  GEN    286
1548                RWD   1                                                     F   5  1671  U %U1 R      GEN    286
1549                H     *-3                                                   F   4  1676  . W76        GEN    286
1550 12 59          DCW   0                                                     F   1  1680                     286
1551 12 60  WORK    DCW   #10                                                   F  10  1690                     286
1552 12 61  GM      DC    @}@          12-7-8                                   F   1  1691              GMARK  286
1553 12 62  PRED    DCW   #3                                                    F   3  1694                     287
1554 12 63  MN      DCW   #1                                                    F   1  1695                     287
1555 21 64          DC    #4                                                    F   4  1699                     287
1556 12 65  DIMSW   DC    #1                                                    F   1  1700                     287
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 SEQ PG LIN  LABEL  OP    OPERANDS                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD

1557 12 66          LTORG *                                         F          1701
             BLANKF DCW   #01                                      F   1  1701             AREA   287
             HOLD F DCW   #02                                      F   2  1703             AREA   287
                    DCW   &2                                       F   1  1704             LIT    287
                    DCW   @ @                                      F   1  1705             LIT    287
                    DCW   @<@                                      F   1  1706             LIT    287
             HEX2 F DCW   #03                                      F   3  1709             AREA   288
             DSW  F DCW   #01                                      F   1  1710             AREA   288
                    DCW   @   @                                    F   3  1713             LIT    288
                    DCW   @     @                                  F   5  1718             LIT    288
             )0L028 DCW   #01                                      F   1  1719             AREA   288
                    DCW   @ERROR 2 - DOUBLY DEFINED ARRAY@         F  30  1749             LIT    289
             )0L029 DCW   #01                                      F   1  1750             AREA   289
                    DCW   @ERROR 3 - DIMENSION SYNTAX, STATEMENT @ F  38  1788             LIT    290
                    DCW   @:@                                      F   1  1789             LIT    290
             BLNK3F DCW   #03                                      F   3  1792             AREA   291
             BLANK5 DCW   #05                                      F   5  1797             AREA   291
                    DCW   @10@                                     F   2  1799             LIT    291
                    DCW   @EQUIV ONE@                              F   9  1808             LIT    291
                    DCW   @MESSAGE 2 - OBJECT PROGRAM TOO LARGE@   F  36  1844             LIT    292
1558 12 67   SYS1   DCW   @}@                          SYSTEM GROUP MARK F   1  1845             GMARK  292
1559 12 68          XFR   INITL                                     F          B 839            293
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 SEQ PG LIN  LABEL  OP    OPERANDS                                        SFX CT  LOCN  INSTRUCTION TYPE  CARD
1560 12 69          JOB   1401 FORTRAN   EQUIVALENCE PHASE ONE            F
1561 12 70          FBEGN EQUIV ONE,X1,,X2,,X3,R,G                        F                      MACRO
1562                SFX   G                                               G                      GEN
1563          110   DCW   @EQUIV ONE@                                     G   9  0110            GEN    296
1564          X1    EQU   089                                             G      0089            GEN
1565          X2    EQU   094                                             G      0094            GEN
1566          X3    EQU   099                                             G      0099            GEN
1567          099   DCW   000                                             G   3  0099            GEN    297
1568          100   DC    0                                               G   1  0100            GEN    297
1569 12 71          ORG   XBEGIN&1                                        G          0839
1570 12 72  FIRST   EQU   086                                             G      0086
1571 12 73  GM      DC    @}@                              12-7-8         G   1  0839            GMARK  298
1572 12 74  WORK    DC    #10                                             G  10  0849                   298
1573 12 75  DRESS   DCW   #3                                              G   3  0852                   298
1574 12 76  CHAMP   DCW   #5                                              G   5  0857                   298
1575 12 77          DC    #3                                              G   3  0860                   298
1576 12 78  TALLY   DCW   #5                                              G   5  0865                   298
1577 12 79          DC    #3                                              G   3  0868                   298
1578 12 80  ACCUM   DCW   #5                                              G   5  0873                   298
1579 12 81  HEX3    DC    #3                                              G   3  0876                   298
1580 12 82          DC    #1                                              G   1  0877                   298
1581 12 83  SPACE   DCW   #1                                              G   1  0878                   299
1582 12 84          DC    #4                                              G   4  0882                   299
1583 12 85  SYNER   FTMSG 4,EQUIVALENCE SYNTAX,WORK,19                    G                      MACRO
1584          SYNER CS    332                                             G   4  0883  / 332       GEN    299
1585                CS                                                    G   1  0887  /           GEN    299
1586                SW    FAILSW                                          G   4  0888  , 184       GEN    299
1587                MN    WORK,224&19                                     G   7  0892  D 849 243    GEN    299
1588                MN                                                    G   1  0899  D           GEN    299
1589                MN                                                    G   1  0900  D           GEN    299
1590                MCW   @ERROR 4 - EQUIVALENCE SYNTAX, STATEMENT @      G   4  0901  M Y21       GEN    300
1591                W                                                     G   1  0905  2           GEN    300
1592                BCV   *&5                                             G   5  0906  B 915 @     GEN    300
1593                B     *&3                                             G   4  0911  B 917       GEN    300
1594                CC    1                                               G   2  0915  F 1         GEN    300
1595 12 86          C     0&X1                                            G   4  0917  C 0|0               300
1596 12 87          SAR   X1                                              G   4  0921  Q 089               300
1597 12 88          B     START                                           G   4  0925  B /15               301
1598 12 89  LOOP    FBCEQ NAME,0&X1,,,%,)                                 G                      MACRO
1599          LOOP  BCE   NAME, 0&X1, ,                                   G   8  0929  B 969 0|0 , GEN    301
1600                BCE   NAME, 0&X1, %                                   G   8  0937  B 969 0|0 % GEN    301
1601                BCE   NAME, 0&X1, )                                   G   8  0945  B 969 0|0 ) GEN    301
1602 12 90          BCE   SYNER,0&X1,}                  G-M              G   8  0953  B 883 0|0 } GMARK  301
1603 12 91          SBR   X1                                              G   4  0961  H 089               302
1604 12 92          B     LOOP                                            G   4  0965  B 929               302
1605 12 93  NAME    SW    001&X1                                          G   4  0969  , 0|1               302
1606 12 94          MCW   DRESS,X2        DRESS EQUALS &TABLE-2         G   7  0973  M 852 094           302
1607 12 95  FIND    BCE   CKSIM,2&X2,                    BLANK            G   8  0980  B S74 0!2           302
1608 12 96  GET     MCM   2&X2                                            G   4  0988  P 0!2               302
1609 12 97          MN                                                    G   1  0992  D                   302
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 SEQ PG LIN  LABEL  OP    OPERANDS                                SFX CT  LOCN  INSTRUCTION TYPE  CARD
1610 12 98           MN                                          G   1  0993  D                    303
1611 12 99           SAR   X2                                    G   4  0994  Q 094                303
1612 13 00           BCE   GET,1&X2,|                            G   8  0998  B 988 0!1 |          303
1613 13 01  COMP     C     000,000&X2              EQUIV V. TABLE G   7  1006  C 000 0!0          303
1614 13 02           SAR   X3                                    G   4  1013  Q 099              303
1615 13 03           BU    FIND                                  G   5  1017  B 980 /            303
1616 13 04  A3       BWZ   ISIN,1&X3,1                          G   8  1022  V W73 0?1 1        303
1617 13 05           B     FIND                                  G   4  1030  B 980              304
1618 13 06  INITL    MN    000&X2                                G   4  1034  D 0!0              304
1619 13 07           SAR   DRESS                                 G   4  1038  Q 852              304
1620 13 08           SBR   HEX3                                  G   4  1042  H 876              304
1621 13 09           SW    GM                                    G   4  1046  , 839              304
1622 13 10           BW    *&8,COMPAT                            G   8  1050  V |65 838 1        304
1623 13 11           MCW   @B@,CMPSW                           G   7  1058  M Y22 /77           304
1624 13 12           MCW   X1,SAVE1                            G   7  1065  M 089 Z68          305
1625 13 13           MCW   @<@,2&X1              12-6-8        G   7  1072  M Y23 0|2          305
1626 13 14           SBR   KLOBR&6,2&X1                        G   7  1079  H T99 0|2          305
1627 13 15  GET2     MCM   2&X2                                  G   4  1086  P 0!2              305
1628 13 16           MN                                          G   1  1090  D                  305
1629 13 17           MN                                          G   1  1091  D                  305
1630 13 18           SAR   X2                                    G   4  1092  Q 094              305
1631 13 19           BCE   GET2,1&X2,|                          G   8  1096  B |86 0!1 |         306
1632 13 20           C     0&X2                                  G   4  1104  C 0!0              306
1633 13 21           CHAIN 3                                     G                       MACRO
1634                 C                                           G   1  1108  C                GEN  306
1635                 C                                           G   1  1109  C                GEN  306
1636                 C                                           G   1  1110  C                GEN  306
1637 13 22           SAR   PRED#3                                G   4  1111  Q Y26              306
1638 13 23  START    LCA   000&X1,WORK                           G   7  1115  L 0|0 849          306
1639 13 24           SAR   X1                                    G   4  1122  Q 089              307
1640 13 25  A1       BCE   OUT1,WORK,                BLANK       G   8  1126  B W85 849          307
1641 13 26           BCE   CKPRN,WORK-3,Q                        G   8  1134  B /46 846 Q        307
1642 13 27  A2       B     OUT1                                  G   4  1142  B W85              307
1643 13 28  CKPRN    BCE   ISEQU,0&X1,%                          G   8  1146  B /58 0|0 %        307
1644 13 29           B     SYNER                                 G   4  1154  B 883              307
1645 13 30  ISEQU    SW    FXSW#1,FLTSW#1                        G   7  1158  , Y27 Y28          308
1646 13 31  EQUIV    MN    000&X1                                G   4  1165  D 0|0              308
1647 13 32           SAR   X1                                    G   4  1169  Q 089              308
1648 13 33           SBR   COMP&3                               G   4  1173  H |09              308
1649 13 34  CMPSW    NOP   LOOP                                  G   4  1177  N 929              308
1650 13 35  SVORG    EQU   *&1                                   G      1181
1651 13 36           MN    0&X1,TST1&7                           G   7  1181  D 0|0 S02          308
1652 13 37           MZ    0&X1,TST1&7                           G   7  1188  Y 0|0 S02          308
1653 13 38  TST1     BCE   FIXED,@IJKLMN@,X                     G   8  1195  B S16 Y34 X        309
1654 13 39           CHAIN 5                                     G                       MACRO
1655                 BCE                                         G   1  1203  B                GEN  309
1656                 BCE                                         G   1  1204  B                GEN  309
1657                 BCE                                         G   1  1205  B                GEN  309
1658                 BCE                                         G   1  1206  B                GEN  309
1659                 BCE                                         G   1  1207  B                GEN  309
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 SEQ PG LIN  LABEL  OP    OPERANDS                                                SFX CT  LOCN  INSTRUCTION TYPE  CARD
1660 13 40          CW    FLTSW                                                    G   4  1208  ) Y28             309
1661 13 41          B     *&5                                                      G   4  1212  B S20             310
1662 13 42   FIXED  CW    FXSW                                                     G   4  1216  ) Y27             310
1663 13 43          BW    LOOP,FLTSW                                               G   8  1220  V 929 Y28 1       310
1664 13 44          BWZ                                                            G   1  1228  V                 310
1665 13 45          FTMSG 5,ILLEGAL EQUIVALENCE MIXING,WORK,27                   G                    MACRO
1666                CS    332                                                      G   4  1229  / 332       GEN   310
1667                CS                                                             G   1  1233  /           GEN   310
1668                SW    FAILSW                                                   G   4  1234  , 184       GEN   310
1669                MN    WORK,224&27                                              G   7  1238  D 849 251   GEN   311
1670                MN                                                             G   1  1245  D           GEN   311
1671                MN                                                             G   1  1246  D           GEN   311
1672                MCW   @ERROR 5 - ILLEGAL EQUIVALENCE MIXING, STATEMENT @      G   4  1247  M Y82       GEN   311
1673                W                                                              G   1  1251  2           GEN   311
1674                BCV   *&5                                                      G   5  1252  B S61 @     GEN   311
1675                B     *&3                                                      G   4  1257  B S63       GEN   311
1676                CC    1                                                        G   2  1261  F 1         GEN   312
1677 13 46          SW    FXSW,FLTSW                                               G   7  1263  , Y27 Y28        312
1678 13 47          B     LOOP                                                     G   4  1270  B 929            312
1679 13 48   CKSIM  MCW   X1,X3                                                    G   7  1274  M 089 099        312
1680 13 49          BCE   ERR,0&X1,%                                             G   8  1281  B V05 0|0 %      312
1681 13 50          MCW   DRESS,X2                                               G   7  1289  M 852 094        312
1682 13 51          LCA   GM,1&X2                                                G   7  1296  L 839 0!1        313
1683 13 52          SBR   X2                                                     G   4  1303  H 094            313
1684 13 53          MCW   COMP&3,X3                                             G   7  1307  M |09 099        313
1685 13 54          LCA   0&X3,0&X2                                             G   7  1314  L 0?0 0!0        313
1686 13 55          SBR   X2                                                     G   4  1321  H 094            313
1687 13 56          MCW   PRED,X3                                               G   7  1325  M Y26 099        313
1688 13 57          LCA   PRED,0&X2                                             G   7  1332  L Y26 0!0        314
1689 13 58          LCA   BLNK5-2                                                G   4  1339  L Y85            314
1690 13 59          LCA   BLNK5-2                                                G   4  1343  L Y85            314
1691 13 60          SBR   PRED                                                   G   4  1347  H Y26            314
1692 13 61          SBR   X2                                                     G   4  1351  H 094            314
1693 13 62          LCA   BLNK5#5,0&X2                                           G   7  1355  L Y87 0!0        314
1694 13 63          LCA   @1@                                                    G   4  1362  L Y88            314
1695 13 64          SBR   X2                                                     G   4  1366  H 094            315
1696 13 65          MCW   PRED,6&X3                                             G   7  1370  M Y26 0?6        315
1697 13 66          BCE   NEWCD,086,                                             G   8  1377  B U35 086        315
1698 13 67   OLDCD  MN    0&X2                                                     G   4  1385  D 0!0            315
1699 13 68          SAR   DRESS                                                  G   4  1389  Q 852            315
1700 13 69   KLOBR  BCE   BSTAR,0,<                    12-6-8                    G   8  1393  B U46 000 <      315
1701 13 70          FQUIT                                                        G                    MACRO
1702                CS    332                                                      G   4  1401  / 332       GEN   315
1703                CS                                                             G   1  1405  /           GEN   316
1704                CC    1                                                        G   2  1406  F 1         GEN   316
1705                MCW   @MESSAGE 2 - OBJECT PROGRAM TOO LARGE@,270              G   7  1408  M Z24 270   GEN   316
1706                W                                                              G   1  1415  2           GEN   316
1707                CC    1                                                        G   2  1416  F 1         GEN   316
1708                BCE   *&6,MONTOR,1                                           G   8  1418  B U31 769 1 GEN   316
1709                RWD   1                                                        G   5  1426  U %U1 R     GEN   316
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 SEQ PG LIN  LABEL  OP    OPERANDS                                    SFX CT  LOCN  INSTRUCTION TYPE  CARD
1710                H     *-3                                         G   4  1431  . U31       GEN   317
1711 13 71   NEWCD  MCW   PRED,086        EQUIV WITH NO DIMEN STMT    G   7  1435  M Y26 086        317
1712 13 72          B     OLDCD                                       G   4  1442  B T85            317
1713 13 73   BSTAR  BCE   *&5,0&X1,)                                  G   8  1446  B U58 0|0 )      317
1714 13 74          B     EQBX1                                       G   4  1454  B U65            317
1715 13 75          SW    FXSW,FLTSW                                  G   7  1458  , Y27 Y28        317
1716 13 76   EQBX1  MN    0&X1                                        G   4  1465  D 0|0            317
1717 13 77          SBR   X1                                          G   4  1469  H 089            318
1718 13 78          SBR   COMP&3                                      G   4  1473  H |09            318
1719 13 79          BCE   CTU4,0&X1,,                                 G   8  1477  B W61 0|0 ,      318
1720 13 80          BCE   BSTAR,0&X1,}          GROUP MARK            G   8  1485  B U46 0|0 } GMARK 318
1721 13 81          BCE   START,1&X1,}             12-7-8             G   8  1493  B /15 0|1 } GMARK 318
1722 13 82          B     CMPSW                                       G   4  1501  B /77            318
1723 13 83   ERR    CS    299                                         G   4  1505  / 299            319
1724 13 84          MCW   X3,X1                                       G   7  1509  M 099 089        319
1725 13 85          MCW   X2,HEX2#3                                   G   7  1516  M 094 Z27        319
1726 13 86          FFLIP 0&X1,248,X1,X2,,,%                          G                 MACRO
1727                MN    248                                         G   4  1523  D 248       GEN   319
1728                MN                                                G   1  1527  D           GEN   319
1729                SAR   X2                                          G   4  1528  Q 094       GEN   319
1730                SBR   X1, 0&X1                                    G   7  1532  H 089 0|0   GEN   319
1731         )0K039 MCW   0&X1,)0L039#1                               G   7  1539  M 0|0 Z28   GEN   320
1732                SAR   X1                                          G   4  1546  Q 089       GEN   320
1733                BCE   )0M039, )0L039, %                          G   8  1550  B V73 Z28 % GEN   320
1734                MCW   )0L039, 2&X2                              G   7  1558  M Z28 0!2   GEN   320
1735                SBR   X2                                          G   4  1565  H 094       GEN   320
1736                B     )0K039                                      G   4  1569  B V39       GEN   320
1737         )0M039 EQU   *&1                                         G      1573              GEN
1738 13 87          MCW   HEX2,X2                                     G   7  1573  M Z27 094        321
1739 13 88          SW    FAILSW                                      G   4  1580  , 184            321
1740 13 89          MN    WORK,240                                    G   7  1584  D 849 240        321
1741 13 90          CHAIN 2                                           G                 MACRO
1742                MN                                                G   1  1591  D           GEN   321
1743                MN                                                G   1  1592  D           GEN   321
1744 13 91          MCW   @ERROR 6 - UNDEFINED ARRAY, STATEMENT @     G   4  1593  M Z65            321
1745 13 92          FORMS                                             G                 MACRO
1746                BCV   *&5                                         G   5  1597  B W06 @     GEN   321
1747                B     *&3                                         G   4  1602  B W08       GEN   322
1748                CC    1                                           G   2  1606  F 1         GEN   322
1749 13 93          W                                                 G   1  1608  2                 322
1750 13 94   SCAN2  MN    0&X1                                        G   4  1609  D 0|0             322
1751 13 95          SAR   X1                                          G   4  1613  Q 089             322
1752 13 96          BCE   CTU4,0&X1,)                                 G   8  1617  B W61 0|0 )       322
1753 13 97          FBCEQ SYNER,0&X1,%,}          CLOSE PAREN, GM     G                 MACRO
1754                BCE   SYNER, 0&X1, %                              G   8  1625  B 883 0|0 % GEN   322
1755                BCE   SYNER, 0&X1, }                              G   8  1633  B 883 0|0 } GEN   323
1756 13 98          BCE   SCAN2,0&X1,,                                G   8  1641  B W09 0|0 ,       323
1757 13 99          BWZ   SCAN2,0&X1,2                                G   8  1649  V W09 0|0 2       323
1758 14 00          B     SYNER                                       G   4  1657  B 883            323
1759 14 01   CTU4   MN    0&X1                                        G   4  1661  D 0|0             323
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 SEQ PG LIN  LABEL   OP    OPERANDS                                                SFX CT  LOCN  INSTRUCTION TYPE  CARD
1760 14 02           SAR   X1                                                      G   4  1665  Q 089             323
1761 14 03           B     BSTAR                                                   G   4  1669  B U46             324
1762 14 04   ISIN    BCE   SCAN2,0&X1,%                                           G   8  1673  B W09 0|0 %       324
1763 14 05           B     BSTAR                                                   G   4  1681  B U46             324
1764 14 06   OUT1    SBR   A1&3,OUT                                               G   7  1685  H /29 X35         324
1765 14 07           SBR   A2&3,OUT                                               G   7  1692  H /45 X35         324
1766 14 08           SBR   FIND&3,NOTIN                                           G   7  1699  H 983 Y00         324
1767 14 09           SBR   A3&3,FOUND                                             G   7  1706  H |25 /81         325
1768 14 10           MCW   DRESS,HEX3                                             G   7  1713  M 852 876         325
1769 14 11           MCW   SAVE1#3,X1                                             G   7  1720  M Z68 089         325
1770 14 12           MCW   @B@,CMPSW                                              G   7  1727  M Y22 /77         325
1771 14 13           MCW   @N@,ISEQU                                              G   7  1734  M Z69 /58         325
1772 14 14           FENDX C,,,SVORG,START,SVORG,SYS1,EQUIV TWO                    G                    MACRO
1773                 BSS   333,C                                                   G   5  1741  B 333 C     GEN   326
1774                 SBR   INITAP&6,SVORG                                         G   7  1746  H 786 /81   GEN   326
1775                 SBR   BCLEAR                                                 G   4  1753  H 833       GEN   326
1776                 SBR   INITXT&3,START                                         G   7  1757  H 796 /15   GEN   326
1777                 SBR   TCLEAR,SYS1                                            G   7  1764  H 710 Z79   GEN   326
1778                 LCA   @EQUIV TWO@,110                                        G   7  1771  L Z78 110   GEN   326
1779                 B     MONTER                                                 G   4  1778  B 700       GEN   327
1780 14 15           LTORG *                                                      G             1782           
                     DCW   @ERROR 4 - EQUIVALENCE SYNTAX, STATEMENT @            G  40  1821              LIT   329
                     DCW   @B@                                                   G   1  1822              LIT   329
                     DCW   @<@                                                   G   1  1823              LIT   329
             PRED G  DCW   #03                                                   G   3  1826              AREA  329
             FXSW G  DCW   #01                                                   G   1  1827              AREA  329
             FLTSWG  DCW   #01                                                   G   1  1828              AREA  330
                     DCW   @IJKLMN@                                              G   6  1834              LIT   330
                     DCW   @ERROR 5 - ILLEGAL EQUIVALENCE MIXING, STATEMENT @    G  48  1882              LIT   332
             BLNK5G  DCW   #05                                                   G   5  1887              AREA  332
                     DCW   @1@                                                   G   1  1888              LIT   332
                     DCW   @MESSAGE 2 - OBJECT PROGRAM TOO LARGE@                G  36  1924              LIT   333
             HEX2 G  DCW   #03                                                   G   3  1927              AREA  333
             )0L039  DCW   #01                                                   G   1  1928              AREA  334
                     DCW   @ERROR 6 - UNDEFINED ARRAY, STATEMENT @               G  37  1965              LIT   334
             SAVE1G  DCW   #03                                                   G   3  1968              AREA  335
                     DCW   @N@                                                   G   1  1969              LIT   335
                     DCW   @EQUIV TWO@                                           G   9  1978              LIT   335
1781 14 16   SYS1    DCW   @}@                              SYSTEM GROUP MARK    G   1  1979              GMARK 335
1782 14 17           XFR   INITL                                                 G             B |34             336
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 SEQ PG LIN  LABEL  OP    OPERANDS                                SFX CT  LOCN  INSTRUCTION TYPE  CARD
1783 14 18          JOB   1401 FORTRAN  EQUIVALENCE PHASE 2       G
1784 14 19   110    DCW   @EQUIV TWO@                             G   9  0110                    339
1785 14 20          ORG   SVORG                                   G          1181
1786 14 21   FOUND  LCA   @00000@,TALLY                           G   7  1181  L Z91 865         340
1787 14 22          NOP   000&X2                                  G   4  1188  N 0!0            340
1788 14 23          MCW                                           G   1  1192  M                340
1789 14 24          MCW                                           G   1  1193  M                340
1790 14 25          MCW                                           G   1  1194  M                340
1791 14 26          MCW                                           G   1  1195  M                340
1792 14 27          SAR   X2                                      G   4  1196  Q 094            340
1793 14 28          BAV   *&1                                     G   5  1200  B S05 Z          341
1794 14 29          S     ERCTR#3                                 G   4  1205  S Z94            341
1795 14 30   NEST   BCE   NOMO,001&X2,   BLANK                   G   8  1209  B S47 0!1        341
1796 14 31          A     000&X2,TALLY                            G   7  1217  A 0!0 865        341
1797 14 32          MCW   003&X2,X2                               G   7  1224  M 0!3 094        341
1798 14 33          A     &1,ERCTR                                G   7  1231  A Z95 Z94        341
1799 14 34          BAV   MSG                                     G   5  1238  B Z51 Z          342
1800 14 35          B     NEST                                    G   4  1243  B S09            342
1801 14 36   NOMO   MCW   X2,TALLY&3                             G   7  1247  M 094 868        342
1802 14 37          BCE   TURN,000&X1,%                           G   8  1254  B V92 0|0 %      342
1803 14 38          A     @1@,TALLY                               G   7  1262  A Z96 865        342
1804 14 39   FIGHT  MCW   HEX3,X3                                 G   7  1269  M 876 099        342
1805 14 40          LCA   CHAMP,ACCUM                             G   7  1276  L 857 873        343
1806 14 41          S     TALLY,ACCUM                             G   7  1283  S 865 873        343
1807 14 42          BWZ   CHUMP,ACCUM,K                          G   8  1290  V W53 873 K      343
1808 14 43          LCA   TALLY&3,000&X3                         G   7  1298  L 868 0?0        343
1809 14 44          SBR   HEX3                                    G   4  1305  H 876            343
1810 14 45   ANYMO  BCE   EQUIV,000&X1,,     COMMA                G   8  1309  B /65 0|0 ,      344
1811 14 46          BCE   BPDWN,0&X1,)                            G   8  1317  B T29 0|0 )      344
1812 14 47          B     SYNER                                   G   4  1325  B 883            344
1813 14 48   BPDWN  MN    0&X1                                    G   4  1329  D 0|0            344
1814 14 49          MN                                            G   1  1333  D                344
1815 14 50          SAR   HEX1#3                                  G   4  1334  Q Z99            344
1816 14 51          MCW   HEX3,X3                                 G   7  1338  M 876 099        344
1817 14 52          LCA   @$@,000&X3                             G   7  1345  L !00 0?0        345
1818 14 53          MCW   DRESS,X3                               G   7  1352  M 852 099        345
1819 14 54   MAIN   BCE   DONE,000&X3,$                          G   8  1359  B W83 0?0 $      345
1820 14 55          MCW   0&X3,HOLD3#3                            G   7  1367  M 0?0 !03        345
1821 14 56          C     CHAMP&3,HOLD3                           G   7  1374  C 860 !03        345
1822 14 57          BE    OOPS1                                   G   5  1381  B Y28 S          346
1823 14 58   GT1    MCW   0&X3,X2                                 G   7  1386  M 0?0 094        346
1824 14 59          SAR   HEX3                                    G   4  1393  Q 876            346
1825 14 60          BCE   *&5,0&X2,                  BLANK        G   8  1397  B U09 0!0        346
1826 14 61          B     OOPS2                                   G   4  1405  B Z72            346
1827 14 62   PULL1  MCW   9&X2,X1                                 G   7  1409  M 0!9 089        346
1828 14 63   LOWER  MCW   006&X2,X3      AFTER TAIL OF NEW FOLLOWER G   7  1416  M 0!6 099        347
1829 14 64          BCE   LAST,X3,       BLANK                   G   8  1423  B U47 099        347
1830 14 65          BCE   LAST,001&X3,   BLANK                   G   8  1431  B U47 0?1        347
1831 14 66          SBR   X2             TAIL OF NEW FOLLOWER    G   4  1439  H 094            347
1832 14 67          B     LOWER                                   G   4  1443  B U16            347
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 SEQ PG LIN  LABEL  OP    OPERANDS                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD
1833 14 68   LAST   BCE   *&8,X3,        BLANK                      G   8  1447  B U62 099          347
1834 14 69          MCW   X1,9&X3                                   G   7  1455  M 089 0?9          348
1835 14 70          BCE   INISH,X1,         BLANK                   G   8  1462  B X24 089          348
1836 14 71          MCW   X3,6&X1                                   G   7  1470  M 099 0|6          348
1837 14 72   LINK   MCW   CHAMP&3,X1        HEAD OF LEADER          G   7  1477  M 860 089          348
1838 14 73          MCW   006&X1,006&X2                             G   7  1484  M 0|6 0!6          348
1839 14 74          MCW   6&X1,X3                                   G   7  1491  M 0|6 099          349
1840 14 75          MCW   X2,9&X3                                   G   7  1498  M 094 0?9          349
1841 14 76          MCW   HEX3,X3                                   G   7  1505  M 876 099          349
1842 14 77          MCW   003&X3,X2         HEAD OF NEW FOLLOWER    G   7  1512  M 0?3 094          349
1843 14 78          MCW   X2,006&X1                                 G   7  1519  M 094 0|6          349
1844 14 79          MCW   X1,9&X2                                   G   7  1526  M 089 0!9          350
1845 14 80          MCW   CHAMP&3,003&X2                            G   7  1533  M 860 0!3          350
1846 14 81          MCW                                             G   1  1540  M                  350
1847 14 82          S     000&X3,000&X2                             G   7  1541  S 0?0 0!0          350
1848 14 83          SAR   X3                                        G   4  1548  Q 099              350
1849 14 84          BW    MAIN,ERRSW                                G   8  1552  V T59 J44 1        350
1850 14 85          SW    ERRSW                                     G   4  1560  , J44              350
1851 14 86          C     0&X2, SAVE5                               G   7  1564  C 0!0 J43          351
1852 14 87          BE    ISRED                                     G   5  1571  B V84 S            351
1853 14 88          B     QVERR                                     G   4  1576  B Y67              351
1854 14 89          B     MAIN                                      G   4  1580  B T59              351
1855 14 90   ISRED  B     RDMSG                                     G   4  1584  B Z09              351
1856 14 91          B     MAIN                                      G   4  1588  B T59              351
1857 14 92   TURN   FFLIP 0&X1,SPACE-1,X1,X3,,,)                   G                    MACRO
1858        TURN   MN    SPACE-1                                   G   4  1592  D 877         GEN  351
1859               MN                                              G   1  1596  D             GEN  352
1860               SAR   X3                                        G   4  1597  Q 099         GEN  352
1861               SBR   X1, 0&X1                                  G   7  1601  H 089 0|0      GEN  352
1862        )0K043 MCW   0&X1,)0L043#1                             G   7  1608  M 0|0 !04      GEN  352
1863               SAR   X1                                        G   4  1615  Q 089          GEN  352
1864               BCE   )0M043, )0L043, )                         G   8  1619  B W42 !04 )    GEN  352
1865               MCW   )0L043, 2&X3                              G   7  1627  M !04 0?2      GEN  352
1866               SBR   X3                                        G   4  1634  H 099          GEN  353
1867               B     )0K043                                    G   4  1638  B W08          GEN  353
1868        )0M043 EQU   *&1                                       G      1642                GEN
1869 14 93          A     001&X3,TALLY                              G   7  1642  A 0?1 865          353
1870 14 94          B     FIGHT                                     G   4  1649  B S69              353
1871 14 95   CHUMP  BCE   CINCH,CHAMP,   BLANK                     G   8  1653  B W72 857          353
1872 14 96          LCA   CHAMP&3,000&X3                            G   7  1661  L 860 0?0          353
1873 14 97          SBR   HEX3                                      G   4  1668  H 876              353
1874 14 98   CINCH  MCW   TALLY&3,CHAMP&3                          G   7  1672  M 868 860          354
1875 14 99          B     ANYMO                                     G   4  1679  B T09              354
1876 15 00   DONE   MCW   HEX1,X1                                   G   7  1683  M Z99 089          354
1877 15 01          LCA   @     @,CHAMP                             G   7  1690  L !09 857          354
1878 15 02          MCW   DRESS,HEX3                                G   7  1697  M 852 876          354
1879 15 03          BCE   ISEQU,1&X1,,                             G   8  1704  B /58 0|1 ,        355
1880 15 04          BCE   START,1&X1,}                  G-M        G   8  1712  B /15 0|1 } GMARK  355
1881 15 05          B     SYNER                                     G   4  1720  B 883              355
1882 15 06   INISH  MCW   X3,FIRST                                  G   7  1724  M 099 086          355
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 SEQ PG LIN  LABEL  OP    OPERANDS                                          SFX CT  LOCN  INSTRUCTION TYPE  CARD
1883 15 07          B     LINK                                               G   4  1731  B U77            355
1884 15 08   OUT    MCW   DRESS,X3                                          G   7  1735  M 852 099        355
1885 15 09          MCW   GM, 001&X3                                        G   7  1742  M 839 0?1        356
1886 15 10          MCM   5&X1                                              G   4  1749  P 0|5            356
1887 15 11          MN                                                      G   1  1753  D                356
1888 15 12          MN                                                      G   1  1754  D                356
1889 15 13          SAR   X1                                                G   4  1755  Q 089            356
1890 15 14          FENDX C,GM,,XBEGIN,XBEGIN,XBEGIN,SYS2,DIMEN TWO         G                   MACRO
1891                BSS   333,C                                             G   5  1759  B 333 C    GEN   356
1892                SBR   INITAP&6,XBEGIN                                   G   7  1764  H 786 838  GEN   356
1893                SBR   BCLEAR                                            G   4  1771  H 833      GEN   357
1894                SBR   INITXT&3,XBEGIN                                   G   7  1775  H 796 838  GEN   357
1895                SBR   TCLEAR,SYS2                                       G   7  1782  H 710 J45  GEN   357
1896                LCA   @DIMEN TWO@,110                                   G   7  1789  L !18 110  GEN   357
1897                B     MONTER                                            G   4  1796  B 700      GEN   357
1898 15 15   NOTIN  BCE   CTU3,0&X1,)                                       G   8  1800  B Y16 0|0 )      357
1899 15 16          SBR   X1                                                G   4  1808  H 089            358
1900 15 17          B     NOTIN                                             G   4  1812  B Y00            358
1901 15 18   CTU3   MN    0&X1                                              G   4  1816  D 0|0            358
1902 15 19          SAR   X1                                                G   4  1820  Q 089            358
1903 15 20          B     EQUIV                                             G   4  1824  B /65            358
1904 15 21   OOPS1  MCW   0&X3, X2                                          G   7  1828  M 0?0 094        358
1905 15 22          SAR   X2                                                G   4  1835  Q 094            358
1906 15 23          C     0&X2, CHAMP                                       G   7  1839  C 0!0 857        359
1907 15 24          BE    REDUN                                             G   5  1846  B Y59 S          359
1908 15 25          B     QVERR                                             G   4  1851  B Y67            359
1909 15 26          B     GT1                                               G   4  1855  B T86            359
1910 15 27   REDUN  B     RDMSG                                             G   4  1859  B Z09            359
1911 15 28          B     GT1                                               G   4  1863  B T86            359
1912 15 29   QVERR  SBR   QVXT&3                                            G   4  1867  H Z08            359
1913 15 30          FTMSG 7,ILLEGAL EQUIVALENCE,WORK,20                     G                   MACRO
1914                CS    332                                               G   4  1871  / 332      GEN   360
1915                CS                                                      G   1  1875  /          GEN   360
1916                SW    FAILSW                                            G   4  1876  , 184      GEN   360
1917                MN    WORK,224&20                                       G   7  1880  D 849 244  GEN   360
1918                MN                                                      G   1  1887  D          GEN   360
1919                MN                                                      G   1  1888  D          GEN   360
1920                MCW   @ERROR 7 - ILLEGAL EQUIVALENCE, STATEMENT @       G   4  1889  M !59      GEN   360
1921                W                                                       G   1  1893  2          GEN   361
1922                BCV   *&5                                               G   5  1894  B Z03 @    GEN   361
1923                B     *&3                                               G   4  1899  B Z05      GEN   361
1924                CC    1                                                 G   2  1903  F 1        GEN   361
1925 15 31   QVXT   B     0                                                 G   4  1905  B 000            361
1926 15 32   RDMSG  SBR   RDXT&3                                            G   4  1909  H Z50            361
1927 15 33          FTMSG 8,REDUNDANT EQUIVALENCE,WORK,22                   G                   MACRO
1928                CS    332                                               G   4  1913  / 332      GEN   361
1929                CS                                                      G   1  1917  /          GEN   362
1930                SW    FAILSW                                            G   4  1918  , 184      GEN   362
1931                MN    WORK,224&22                                       G   7  1922  D 849 246  GEN   362
1932                MN                                                      G   1  1929  D          GEN   362
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 SEQ PG LIN  LABEL   OP    OPERANDS                                          SFX CT  LOCN  INSTRUCTION TYPE  CARD
1933             MN                                                        G   1  1930  D           GEN    362
1934             MCW   @ERROR 8 - REDUNDANT EQUIVALENCE, STATEMENT @       G   4  1931  M J02       GEN    362
1935             W                                                         G   1  1935  2           GEN    362
1936             BCV   *&5                                                 G   5  1936  B Z45 @     GEN    363
1937             B     *&3                                                 G   4  1941  B Z47       GEN    363
1938             CC    1                                                   G   2  1945  F 1         GEN    363
1939 15 34  RDXT    B     0                                                 G   4  1947  B 000             363
1940 15 35  MSG     MESSG @CORRECT ERRORS INDICATED AND RESTART@,70,L,1      G                    MACRO
1941        MSG     CC    L                                                 G   2  1951  F L         GEN    363
1942             CS    332                                                 G   4  1953  / 332       GEN    363
1943             CS                                                        G   1  1957  /           GEN    363
1944             MCW   @CORRECT ERRORS INDICATED AND RESTART@,70&200       G   7  1958  M J38 270   GEN    364
1945             W                                                         G   1  1965  2           GEN    364
1946             CC    1                                                   G   2  1966  F 1         GEN    364
1947 15 36       H     *-3                                                 G   4  1968  . Z68             364
1948 15 37  OOPS2   MCW   0&X2, SAVE5#5                                     G   7  1972  M 0!0 J43         364
1949 15 38       CW    ERRSW#1                                             G   4  1979  ) J44             364
1950 15 39       B     PULL1                                               G   4  1983  B U09             364
1951 15 40       LTORG *                                                   G            1987
                 DCW   @00000@                                           G   5  1991              LIT    365
            ERCTRG DCW   #03                                              G   3  1994              AREA   365
                 DCW   &1                                                G   1  1995              LIT    365
                 DCW   @1@                                               G   1  1996              LIT    365
            HEX1 G DCW   #03                                              G   3  1999              AREA   365
                 DCW   @$@                                               G   1  2000              LIT    365
            HOLD3G DCW   #03                                              G   3  2003              AREA   365
            )0L043 DCW   #01                                              G   1  2004              AREA   366
                 DCW   @     @                                           G   5  2009              LIT    366
                 DCW   @DIMEN TWO@                                       G   9  2018              LIT    366
                 DCW   @ERROR 7 - ILLEGAL EQUIVALENCE, STATEMENT @       G  41  2059              LIT    368
                 DCW   @ERROR 8 - REDUNDANT EQUIVALENCE, STATEMENT @     G  43  2102              LIT    370
                 DCW   @CORRECT ERRORS INDICATED AND RESTART@            G  36  2138              LIT    371
            SAVE5G DCW   #05                                              G   5  2143              AREA   372
            ERRSWG DCW   #01                                              G   1  2144              AREA   372
1952 15 41  SYS2    DCW   @}@                          SYSTEM GROUP MARK   G   1  2145              GMARK  372
1953 15 42       XFR   START                                               G            B /15             373
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 SEQ PG LIN  LABEL  OP    OPERANDS                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD
1954 15 43          JOB   1401 FORTRAN   DIMENSION PHASE TWO        G
1955 15 44          FBEGN DIMEN TWO,X1,,X2,R,X3,,H                  G                      MACRO
1956                SFX   H                                         H                      GEN
1957          110   DCW   @DIMEN TWO@                               H   9  0110            GEN    376
1958          X1    EQU   089                                       H      0089            GEN
1959          X2    EQU   094                                       H      0094            GEN
1960          094   DCW   000                                       H   3  0094            GEN    377
1961          096   DC    00                                        H   2  0096            GEN    377
1962          X3    EQU   099                                       H      0099            GEN
1963 15 45    PARAM EQU   PARAMA                                    H      0686
1964 15 46          ORG   XBEGIN                                    H            0838
1965 15 47    TSTIO BCE   INITL,PARAM&10,    BLANK                  H   8  0838  B 891 696         378
1966 15 48          SBR   X2,AFORM                                  H   7  0846  H 094 !60         378
1967 15 49          BCE   MOVE,PARAM&10,A                           H   8  0853  B !33 696 A       378
1968 15 50          SBR   X2,LIMIO                                 H   7  0861  H 094 !68         378
1969 15 51          BCE   MOVE,PARAM&10,L                           H   8  0868  B !33 696 L       378
1970 15 52          SBR   X2,NOIO                                  H   7  0876  H 094 !76         379
1971 15 53          BCE   MOVE,PARAM&10,X                           H   8  0883  B !33 696 X       379
1972 15 54    INITL MCW   X3,083    ADDRESS OF TABLE-1              H   7  0891  M 099 083         379
1973 15 55          A     &2,PARAM&6                                H   7  0898  A J30 692         379
1974 15 56          SW    GM                                        H   4  0905  , !85             379
1975 15 57          LCA   GM,001&X3                                 H   7  0909  L !85 0?1         380
1976 15 58          BCE   NIX,086,            BLANK, NO DIMENSION  H   8  0916  B V98 086         380
1977 15 59          MCW   086,X3    ADDRESS OF LOWEST ARRAY         H   7  0924  M 086 099         380
1978 15 60    START S     ACCUM#6                                   H   4  0931  S J36             380
1979 15 61          MCW   006&X3,LINK#3                            H   7  0935  M 0?6 J39         380
1980 15 62          BCE   LEADR,001&X3,       BLANK                H   8  0942  B T43 0?1         381
1981 15 63          MCW   003&X3,X2      ADDRESS OF LEADER IN X2   H   7  0950  M 0?3 094         381
1982 15 64          ZA    000&X3,PROD                               H   7  0957  ? 0?0 !91         381
1983 15 65          M     005&X2,PROD&3                             H   7  0964  @ 0!5 !94         381
1984 15 66          A     000&X2,PROD&3                             H   7  0971  A 0!0 !94         381
1985 15 67          MCW   PROD&3,000&X3                           H   7  0978  M !94 0?0         382
1986 15 68    PACK  MCW   000&X3,ACCUM                             H   7  0985  M 0?0 J36         382
1987 15 69          SAR   X3                                        H   4  0992  Q 099             382
1988 15 70          S     &1,ACCUM                                  H   7  0996  S J40 J36         382
1989 15 71          MCW   X3,X2                                    H   7  1003  M 099 094         382
1990 15 72    LOOP3 MCM   2&X2                                      H   4  1010  P 0!2             382
1991 15 73          MN                                            H   1  1014  D                 382
1992 15 74          MN                                            H   1  1015  D                 383
1993 15 75          SAR   X2                                       H   4  1016  Q 094             383
1994 15 76          BCE   LOOP3,1&X2,|                            H   8  1020  B |10 0!1 |        383
1995 15 77          MCW   0&X2,BOX#1                              H   7  1028  M 0!0 J41         383
1996 15 78          MCW   BOX,*&8                                 H   7  1035  M J41 |49         383
1997 15 79          BCE   FIX1,@IJKLMN@,0                         H   8  1042  B T32 J47 0       383
1998 15 80          CHAIN 5                                       H                      MACRO
1999                BCE                                           H   1  1050  B                 GEN    383
2000                BCE                                           H   1  1051  B                 GEN    384
2001                BCE                                           H   1  1052  B                 GEN    384
2002                BCE                                           H   1  1053  B                 GEN    384
2003                BCE                                           H   1  1054  B                 GEN    384
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 SEQ PG LIN  LABEL  OP    OPERANDS                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD
2004 15 81          A     PARAMA&6,ACCUM                             H   7  1055  A 692 J36          384
2005 15 82   CTU3    MCW   ACCUM,14&X3                               H   7  1062  M J36 0A4          384
2006 15 83          MCW   ACCUM-3,X2                                 H   7  1069  M J33 094          384
2007 15 84          A     X2                                         H   4  1076  A 094              385
2008 15 85          MZ    ZONES&X2,012&X3                            H   7  1080  Y !R8 0A2          385
2009 15 86          MZ    ZONES&1&X2,014&X3                          H   7  1087  Y !R9 0A4          385
2010 15 87          ZA    @0@,PROD                                   H   7  1094  ? J48 !91          385
2011 15 88          MCW   000&X3,PROD                               H   7  1101  M 0?0 !91          385
2012 15 89          MCW   BLANK                                      H   4  1108  M !96              385
2013 15 90          SBR   MPLR&6                                    H   4  1112  H /39              386
2014 15 91          NOP   000&X3                                     H   4  1116  N 0?0              386
2015 15 92          MCW                                              H   1  1120  M                  386
2016 15 93          SAR   X2                                         H   4  1121  Q 094              386
2017 15 94          BCE   NOCOL,000&X2,}       12-7-8, INITL SETS IN DRESS&1 H   8  1125  B /47 0!0 } GMARK  386
2018 15 95   MPLR   MCW   000&X2,000                                 H   7  1133  M 0!0 000          386
2019 15 96          M     000&X3,PROD                                H   7  1140  @ 0?0 !91          386
2020 15 97   NOCOL  LCA   @   @,008&X3                              H   7  1147  L J51 0?8          387
2021 15 98          MCW   X1,HOLD1#3                               H   7  1154  M 089 J54          387
2022 15 99          MCW   14&X3,X1                                  H   7  1161  M 0A4 089          387
2023 16 00          MCW   BOX,*&8                                   H   7  1168  M J41 /82          387
2024 16 01          BCE   FIXED,@IJKLMN@,0                          H   8  1175  B T65 J60 0         387
2025 16 02          CHAIN 5                                          H                       MACRO
2026                BCE                                            H   1  1183  B                  GEN   387
2027                BCE                                            H   1  1184  B                  GEN   387
2028                BCE                                            H   1  1185  B                  GEN   388
2029                BCE                                            H   1  1186  B                  GEN   388
2030                BCE                                            H   1  1187  B                  GEN   388
2031 16 03          M     PARAM&6,PROD&3                             H   7  1188  @ 692 !94          388
2032 16 04          MZ    @A@,007&X3                                 H   7  1195  Y J61 0?7          388
2033 16 05          MCW   PARAM&6,010&X3                            H   7  1202  M 692 0A0          388
2034 16 06   BUMP   MZ    7&X3,13&X3                                 H   7  1209  Y 0?7 0A3          388
2035 16 07          MCW   HOLD1,X1                                   H   7  1216  M J54 089          389
2036 16 08          S     10&X3,ACCUM                                H   7  1223  S 0A0 J36          389
2037 16 09          A     PROD&3,ACCUM                               H   7  1230  A !94 J36          389
2038 16 10          FPACK ACCUM,8&X3,X2                              H                       MACRO
2039                INCLD ZONES                                      H                       MACRO
2040                MN    ACCUM,8&X3                                 H   7  1237  D J36 0?8    GEN   389
2041                MN                                               H   1  1244  D            GEN   389
2042                MN                                               H   1  1245  D            GEN   389
2043                SAR   *&4                                        H   4  1246  Q S53         GEN   389
2044                MCW   0,X2                                       H   7  1250  M 000 094     GEN   390
2045                MCW   @0@                                        H   4  1257  M J48         GEN   390
2046                A     X2                                         H   4  1261  A 094        GEN   390
2047                MZ    ZONES&1&X2,8&X3                            H   7  1265  Y !R9 0?8    GEN   390
2048                CW                                               H   1  1272  )            GEN   390
2049                SBR   *&7                                        H   4  1273  H S83        GEN   390
2050                MZ    ZONES&X2, 0                                H   7  1277  Y !R8 000    GEN   390
2051 16 11          A     &1,ACCUM                                   H   7  1284  A J40 J36          391
2052 16 12          S     ACCUM,COUNT                                H   7  1291  S J36 !49          391
2053 16 13          BWZ   ALTER,COUNT,K                              H   8  1298  V T54 !49 K        391
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 SEQ PG LIN  LABEL  OP    OPERANDS                        SFX CT  LOCN  INSTRUCTION TYPE  CARD
2054 16 14          A     ACCUM,COUNT                      H   7  1306  A J36 !49          391
2055 16 15  TEST    BCE   OUT,LINK,        BLANK          H   8  1313  B T90 J39          391
2056 16 16          MCW   LINK,X3                          H   7  1321  M J39 099          392
2057 16 17          B     START                            H   4  1328  B 931              392
2058 16 18  FIX1    A     PARAMA&4,ACCUM                   H   7  1332  A 690 J36          392
2059 16 19          B     CTU3                             H   4  1339  B |62              392
2060 16 20  LEADR   MCW   COUNT,000&X3                     H   7  1343  M !49 0?0          392
2061 16 21          B     PACK                             H   4  1350  B 985              392
2062 16 22  ALTER   MCW   ACCUM,COUNT                      H   7  1354  M J36 !49          393
2063 16 23          B     TEST                             H   4  1361  B T13              393
2064 16 24  FIXED   M     PARAM&4,PROD&3                   H   7  1365  @ 690 !94          393
2065 16 25          MZ    @J@,007&X3                       H   7  1372  Y J62 0?7          393
2066 16 26          MCW   PARAM&4,010&X3                   H   7  1379  M 690 0A0          393
2067 16 27          B     BUMP                             H   4  1386  B S09              393
2068 16 28  OUT     UNPAK PARAM&2,RELOC                    H                     MACRO
2069        OUT     S     )0M050#2                         H   4  1390  S J64       GEN    394
2070                S     )0L050#2                         H   4  1394  S J66       GEN    394
2071                MZ    PARAM&2,)0M050-1                 H   7  1398  Y 688 J63   GEN    394
2072                MZ    PARAM&2-2,)0L050-1               H   7  1405  Y 686 J65   GEN    394
2073        )0J050  BWZ   )0K050, )0L050-1, 2             H   8  1412  V U31 J65 2 GEN    394
2074                A     @A0@, )0L050                     H   7  1420  A J68 J66   GEN    394
2075                B     )0J050                           H   4  1427  B U12       GEN    395
2076        )0K050  BWZ   )0P050, )0M050-1, 2             H   8  1431  V U50 J63 2 GEN    395
2077                A     @?4@, )0M050                     H   7  1439  A J70 J64   GEN    395
2078                B     )0K050                           H   4  1446  B U31       GEN    395
2079        )0P050  A     )0L050-1,)0M050                  H   7  1450  A J65 J64   GEN    395
2080                MCW   PARAM&2,RELOC                    H   7  1457  M 688 !81   GEN    395
2081                MCW   )0M050                           H   4  1464  M J64       GEN    396
2082                ZA    RELOC                            H   4  1468  ? !81       GEN    396
2083                MZ    *-4, RELOC                       H   7  1472  Y U74 !81   GEN    396
2084 16 29          S     COUNT,RELOC                      H   7  1479  S !49 !81          396
2085 16 30          S     &1,RELOC                         H   7  1486  S J40 !81          396
2086 16 31          BWZ   TUBIG,RELOC,K                    H   8  1493  V V66 !81 K        396
2087 16 32          FPACK RELOC,ADJST,X2                   H                     MACRO
2088                INCLD ZONES                            H                     MACRO
2089                MN    RELOC,ADJST                      H   7  1501  D !81 !84   GEN    397
2090                MN                                     H   1  1508  D          GEN    397
2091                MN                                     H   1  1509  D          GEN    397
2092                SAR   *&4                              H   4  1510  Q V17       GEN    397
2093                MCW   0,X2                             H   7  1514  M 000 094   GEN    397
2094                MCW   @0@                              H   4  1521  M J48       GEN    397
2095                A     X2                               H   4  1525  A 094       GEN    397
2096                MZ    ZONES&1&X2,ADJST                 H   7  1529  Y !R9 !84  GEN    398
2097                CW                                     H   1  1536  )          GEN    398
2098                SBR   *&7                              H   4  1537  H V47       GEN    398
2099                MZ    ZONES&X2, 0                      H   7  1541  Y !R8 000  GEN    398
2100 16 33          MCW   NXTOP,CONLST                     H   7  1548  M !52 194          398
2101 16 34          MA    ADJST,CONLST                     H   7  1555  # !84 194          398
2102 16 35          B     SKIPF                            H   4  1562  B W05              398
2103 16 36  TUBIG   BW    SKIPF,LGSW                       H   8  1566  V W05 !95 1        399
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 SEQ PG LIN  LABEL  OP    OPERANDS                                          SFX CT  LOCN  INSTRUCTION TYPE  CARD
2104 16 37          CS    332                                                H  4  1574  / 332              399
2105 16 38          CS                                                       H  1  1578  /                  399
2106 16 39          MLC   @MESSAGE 2 - OBJECT PROGRAM TOO LARGE@,270         H  7  1579  M K06 270          399
2107 16 40          W                                                        H  1  1586  2                  399
2108 16 41          SW    FAILSW,LGSW                                        H  7  1587  , 184 !95          399
2109 16 42          S     RELOC                                              H  4  1594  S !81             399
2110 16 43   NIX    MCW   PARAM&2,CONLST                                    H  7  1598  M 688 194          400
2111 16 44   SKIPF  MCW   NXTOP,086                                          H  7  1605  M !52 086          400
2112 16 45   *DUMP ARRAY TABLE
2113 16 46          CC    L                                                  H  2  1612  F L                400
2114 16 47          FORMS                                                    H                 MACRO
2115                BCV   *&5                                               H  5  1614  B W23 @     GEN    400
2116                B     *&3                                               H  4  1619  B W25       GEN    400
2117                CC    1                                                 H  2  1623  F 1         GEN    400
2118 16 48          CS    332                                               H  4  1625  / 332              400
2119 16 49          CS                                                      H  1  1629  /                  401
2120 16 50          MCW   @STORAGE ASSIGNMENT-ARRAYS & EQUATED VARIABLES@,247 H  7  1630  M K51 247          401
2121 16 51          W                                                       H  1  1637  2                  401
2122 16 52          CC    J                                                 H  2  1638  F J                401
2123 16 53          MCW   083,X3                                            H  7  1640  M 083 099          401
2124 16 54   LOOPA  NOP   10&X3                                            H  4  1647  N 0A0              401
2125 16 55          MCM                                                     H  1  1651  P                  401
2126 16 56          SAR   X3                                              H  4  1652  Q 099              402
2127 16 57          CS    299                                               H  4  1656  / 299              402
2128 16 58   TSDUN  BCE   NODUN,0&X3,|                                     H  8  1660  B Z72 0?0 |         402
2129 16 59          BCE                                                     H  1  1668  B                  402
2130 16 60          MN    0&X3                                              H  4  1669  D 0?0              402
2131 16 61          MN                                                      H  1  1673  D                  402
2132 16 62          SAR   X3                                              H  4  1674  Q 099              402
2133 16 63          BCE   NORAY,0&X3,:                5-8                  H  8  1678  B Z84 0?0 :         403
2134 16 64          FFLIP 0&X3,201,X3,X2,INC,WM                            H                 MACRO
2135                MN    201                                               H  4  1686  D 201       GEN    403
2136                MN                                                      H  1  1690  D           GEN    403
2137                SAR   X2                                              H  4  1691  Q 094       GEN    403
2138                SBR   X3, 0&X3                                         H  7  1695  H 099 0?0   GEN    403
2139         )0K053 MCW   0&X3,)0L053#1                                    H  7  1702  M 0?0 K52   GEN    403
2140                SAR   X3                                              H  4  1709  Q 099       GEN    403
2141                MCW   )0L053, 2&X2                                     H  7  1713  M K52 0!2   GEN    404
2142                SBR   X2                                              H  4  1720  H 094       GEN    404
2143                BW    )0M053, 1&X3                                    H  8  1724  V X36 0?1 1 GEN    404
2144                B     )0K053                                          H  4  1732  B X02       GEN    404
2145         )0M053 EQU   *&1                                             H     1736              GEN
2146 16 65          C     0&X3                                            H  4  1736  C 0?0              404
2147 16 66          CHAIN 3                                               H                 MACRO
2148                C                                                     H  1  1740  C           GEN    404
2149                C                                                     H  1  1741  C           GEN    404
2150                C                                                     H  1  1742  C           GEN    405
2151 16 67          SAR   X2                                              H  4  1743  Q 094              405
2152 16 68          A     RELOC,5&X2                                      H  7  1747  A !81 0!5          405
2153 16 69          MA    ADJST,8&X2                                      H  7  1754  # !84 0!8          405
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 SEQ PG LIN  LABEL  OP    OPERANDS                          SFX CT  LOCN  INSTRUCTION TYPE  CARD
2154 16 70          MA    ADJST,14&X2                        H   7  1761  # !84 0J4       405
2155 16 71          MCS   5&X2,218                          H   7  1768  Z 0!5 218       405
2156 16 72          MCW   8&X2,234                          H   7  1775  M 0!8 234       406
2157 16 73          MZ    BLANK,233                         H   7  1782  Y !96 233       406
2158 16 74          SW    220                               H   4  1789  , 220           406
2159 16 75          UNPAK 8&X2,224                          H                  MACRO
2160                S     )0M054#2                          H   4  1793  S K54       GEN 406
2161                S     )0L054#2                          H   4  1797  S K56       GEN 406
2162                MZ    8&X2,)0M054-1                     H   7  1801  Y 0!8 K53   GEN 406
2163                MZ    8&X2-2,)0L054-1                   H   7  1808  Y 0!6 K55   GEN 407
2164         )0J054 BWZ   )0K054, )0L054-1, 2               H   8  1815  V Y34 K55 2 GEN 407
2165                A     @A0@, )0L054                      H   7  1823  A J68 K56   GEN 407
2166                B     )0J054                            H   4  1830  B Y15       GEN 407
2167         )0K054 BWZ   )0P054, )0M054-1, 2               H   8  1834  V Y53 K53 2 GEN 407
2168                A     @?4@, )0M054                      H   7  1842  A J70 K54   GEN 408
2169                B     )0K054                            H   4  1849  B Y34       GEN 408
2170         )0P054 A     )0L054-1,)0M054                   H   7  1853  A K55 K54   GEN 408
2171                MCW   8&X2,224                          H   7  1860  M 0!8 224   GEN 408
2172                MCW   )0M054                            H   4  1867  M K54       GEN 408
2173                ZA    224                               H   4  1871  ? 224       GEN 408
2174                MZ    *-4, 224                          H   7  1875  Y Y77 224   GEN 409
2175 16 76          MCW   @-@,219                          H   7  1882  M K57 219       409
2176 16 77          FPACK 5&X2,230,X2                       H                  MACRO
2177                INCLD ZONES                             H                  MACRO
2178                MN    5&X2,230                          H   7  1889  D 0!5 230   GEN 409
2179                MN                                      H   1  1896  D           GEN 409
2180                MN                                      H   1  1897  D           GEN 409
2181                SAR   *&4                               H   4  1898  Q Z05       GEN 409
2182                MCW   0,X2                              H   7  1902  M 000 094   GEN 409
2183                MCW   @0@                               H   4  1909  M J48       GEN 410
2184                A     X2                                H   4  1913  A 094       GEN 410
2185                MZ    ZONES&1&X2,230                    H   7  1917  Y !R9 230   GEN 410
2186                CW                                      H   1  1924  )           GEN 410
2187                SBR   *&7                               H   4  1925  H Z35       GEN 410
2188                MZ    ZONES&X2, 0                       H   7  1929  Y !R8 000   GEN 410
2189 16 78          FORMS                                   H                  MACRO
2190                BCV   *&5                               H   5  1936  B Z45 @     GEN 410
2191                B     *&3                               H   4  1941  B Z47       GEN 411
2192                CC    1                                 H   2  1945  F 1         GEN 411
2193 16 79          W                                       H   1  1947  2               411
2194 16 80          CS    299                               H   4  1948  / 299           411
2195 16 81          MCM   1&X3                              H   4  1952  P 0?1           411
2196 16 82          SAR   X3                                H   4  1956  Q 099           411
2197 16 83          BCE   EOJ,0&X3,                  BLANK  H   8  1960  B !08 0?0       411
2198 16 84          B     LOOPA                             H   4  1968  B W47           412
2199 16 85   NODUN  MCM   0&X3                              H   4  1972  P 0?0           412
2200 16 86          SBR   X3                                H   4  1976  H 099           412
2201 16 87          B     TSDUN                             H   4  1980  B W60           412
2202 16 88   NORAY  MESSG @NO ARRAYS@,9                     H                  MACRO
2203         NORAY  CS    332                               H   4  1984  / 332       GEN 412
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 SEQ PG LIN  LABEL  OP    OPERANDS                                        SFX CT  LOCN  INSTRUCTION TYPE  CARD
2204                CS                                                    H  1  1988  /           GEN    412
2205                MCW   @NO ARRAYS@,9&200                               H  7  1989  M K66 209   GEN    412
2206                W                                                     H  1  1996  2           GEN    413
2207                BCV   *&5                                             H  5  1997  B !06 @     GEN    413
2208                B     *&3                                             H  4  2002  B !08       GEN    413
2209                CC    1                                               H  2  2006  F 1         GEN    413
2210 16 89  EOJ     CC    L                                               H  2  2008  F L                413
2211 16 90          FENDX E,GM,,,,,SYS2,VARBL1                            H                       MACRO
2212                BSS   333,E                                           H  5  2010  B 333 E     GEN    413
2213                SBR   TCLEAR,SYS2                                     H  7  2015  H 710 K73   GEN    413
2214                LCA   @VARBL1@,110                                    H  7  2022  L K72 110   GEN    414
2215                B     MONTER                                          H  4  2029  B 700       GEN    414
2216 16 91  MOVE    MCW   0&X2,NXTOP                                      H  7  2033  M 0!0 !52          414
2217 16 92          MCW                                                   H  1  2040  M                 414
2218 16 93          B     INITL                                           H  4  2041  B 891             414
2219 16 94  COUNT   DCW   04280                          CHANGE           H  5  2049                    414
2220 16 95  NXTOP   DSA   4279                           ON               H  3  2052  27Z               414
2221 16 96          DCW   04617                          REASSEMBLY       H  5  2057                    415
2222 16 97  AFORM   DSA   4616                           OF               H  3  2060  61W               415
2223 16 98          DCW   02016                          OBJECT           H  5  2065                    415
2224 16 99  LIMIO   DSA   2015                           TIME             H  3  2068  !15               415
2225 17 00          DCW   01697                          FORMAT           H  5  2073                    415
2226 17 01  NOIO    DSA   1696                           PACKAGES         H  3  2076  W96               415
2227 17 02  RELOC   DCW   00000                                           H  5  2081                    415
2228 17 03  ADJST   DSA   000                                             H  3  2084  000               416
2229 17 04  GM      DC    @}@                            G-M              H  1  2085              GMARK  416
2230 17 05  PROD    DCW   #6                                              H  6  2091                    416
2231 17 06          DC    #3                                              H  3  2094                    416
2232 17 07  LGSW    DC    #1                                              H  1  2095                    416
2233 17 08  BLANK   DCW   #01                                             H  1  2096                    416
2234 17 09          ORG   *                                               H           2097
2235                LTORG *    WVS: AUTOCODER SHOULDN'T LOAD INCLD AT ORG H           2097
2236                DCW   #1                                              H  1  2097              GEN    416
2237          ZONES DC    9                                               H  1  2098              GEN    416
2238                DCW   @9Z9R9I99ZZZRZIZ9RZRRRIR9IZIRIII@               H 31  2129              GEN    417
              *        LTORG*                                                                      GEN
                    DCW   &2                                              H  1  2130              LIT    417
              ACCUMH DCW  #06                                             H  6  2136              AREA   417
              LINK H DCW  #03                                             H  3  2139              AREA   418
                    DCW   &1                                              H  1  2140              LIT    418
              BOX  H DCW  #01                                             H  1  2141              AREA   418
                    DCW   @IJKLMN@                                        H  6  2147              LIT    418
                    DCW   @0@                                             H  1  2148              LIT    418
                    DCW   @   @                                           H  3  2151              LIT    418
              HOLD1H DCW  #03                                             H  3  2154              AREA   418
                    DCW   @IJKLMN@                                        H  6  2160              LIT    419
                    DCW   @A@                                             H  1  2161              LIT    419
                    DCW   @J@                                             H  1  2162              LIT    419
              )0M050 DCW  #02                                             H  2  2164              AREA   419
              )0L050 DCW  #02                                             H  2  2166              AREA   419
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 SEQ PG LIN  LABEL   OP    OPERANDS                                          SFX CT  LOCN  INSTRUCTION TYPE  CARD
                     DCW   @A0@                                               H   2  2168              LIT    419
                     DCW   @?4@                                               H   2  2170              LIT    419
                     DCW   @MESSAGE 2 - OBJECT PROGRAM TOO LARGE@             H  36  2206              LIT    420
                     DCW   @STORAGE ASSIGNMENT-ARRAYS & EQUATED VARIABLES@    H  45  2251              LIT    422
             )0L053  DCW   #01                                                H   1  2252              AREA   422
             )0M054  DCW   #02                                                H   2  2254              AREA   422
             )0L054  DCW   #02                                                H   2  2256              AREA   422
                     DCW   @-@                                                H   1  2257              LIT    422
                     DCW   @NO ARRAYS@                                        H   9  2266              LIT    423
                     DCW   @VARBL1@                                           H   6  2272              LIT    423
2239 17 10   SYS2   DCW   @}@            SYSTEM AND WORK GROUP MARK          H   1  2273              GMARK  423
2240 17 11          XFR   TSTIO                                              H             B 838              424
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 SEQ PG LIN  LABEL  OP    OPERANDS                                          SFX CT  LOCN  INSTRUCTION TYPE  CARD
2241 17 12          JOB   1401 FORTRAN  VARIABLES PHASE ONE                 H
2242 17 13          FBEGN VARBL 1,X1,,X2,R,X3,R,I                           H                       MACRO
2243                SFX   I                                                 I                       GEN
2244          110   DCW   @VARBL 1@                                        I   7  0110                 GEN    427
2245          X1    EQU   089                                               I      0089                 GEN
2246          X2    EQU   094                                               I      0094                 GEN
2247          094   DCW   000                                               I   3  0094                 GEN    428
2248          096   DC    00                                                I   2  0096                 GEN    428
2249          X3    EQU   099                                               I      0099                 GEN
2250          099   DCW   000                                               I   3  0099                 GEN    428
2251          100   DC    0                                                 I   1  0100                 GEN    428
2252 17 14          ORG   XBEGIN                                            I            0838
2253 17 15    * REPLACE ARRAY NAMES IN SOURCE PROGRAM WITH ADDRESSES,
2254 17 16    * PROCESS SUBSCRIPTS
2255 17 17    * MARK SIMPLE VARIABLES WITH A DELTA FOR VARBL, PHASE 2
2256 17 18    INITL MCW   083,X2                                            I   7  0838  M 083 094          429
2257 17 19          MCW   X2,DRESS#3                                        I   7  0845  M 094 O36          429
2258 17 20          SW    GM                                                I   4  0852  , N55            429
2259 17 21    START BCE   OUT,000&X1,    BLANK                            I   8  0856  B J38 0|0          429
2260 17 22          LCA   000&X1,WORK#10                                    I   7  0864  L 0|0 O46          429
2261 17 23          SAR   X1                                                I   4  0871  Q 089            429
2262 17 24          SBR   X3                                                I   4  0875  H 099            430
2263 17 25          LCA   WORK,000&X2                                       I   7  0879  L O46 0!0          430
2264 17 26          SBR   X2                                                I   4  0886  H 094            430
2265 17 27          BCE   FMAT,CODE-3,F                                     I   8  0890  B M70 O43 F        430
2266 17 28          SW    WORK-3                                            I   4  0898  , O43            430
2267 17 29          MCW   CODE-3,*&8                                       I   7  0902  M O43 916          430
2268 17 30          BCE   LIST,@3L5UP61@,0    D-CHAR MODIFIED               I   8  0909  B J68 O53 0        431
2269 17 31          CHAIN 6                                                 I                       MACRO
2270                BCE                                                     I   1  0917  B              GEN    431
2271                BCE                                                     I   1  0918  B              GEN    431
2272                BCE                                                     I   1  0919  B              GEN    431
2273                BCE                                                     I   1  0920  B              GEN    431
2274                BCE                                                     I   1  0921  B              GEN    431
2275                BCE                                                     I   1  0922  B              GEN    431
2276 17 32          MCW   @N@,SWCHA                                        I   7  0923  M O54 956          432
2277 17 33          MCW   @N@,SWCHB                                        I   7  0930  M O54 T32          432
2278 17 34    * SEARCH FOR ALPHA CHARACTER WHICH MIGHT BE VARIABLE NAME
2279 17 35    FIND  MCW   000&X1,BOX#1                                      I   7  0937  M 0|0 O55          432
2280 17 36          SAR   X1                                                I   4  0944  Q 089            432
2281 17 37          BWZ   FIND,BOX,2     NO ZONE, NUMERICS AND EQUALS       I   8  0948  V 937 O55 2        432
2282 17 38    SWCHA NOP   RTPAR                                            I   4  0956  N K12            432
2283 17 39    MDIFY MCW   BOX,*&8                                          I   7  0960  M O55 974          433
2284 17 40          BCE   FIND,@@*-&.%),@,0      D CHAR MODIFIED           I   8  0967  B 937 O63 0        433
2285 17 41          CHAIN 7                                                 I                       MACRO
2286                BCE                                                     I   1  0975  B              GEN    433
2287                BCE                                                     I   1  0976  B              GEN    433
2288                BCE                                                     I   1  0977  B              GEN    433
2289                BCE                                                     I   1  0978  B              GEN    433
2290                BCE                                                     I   1  0979  B              GEN    433
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 SEQ PG LIN  LABEL  OP    OPERANDS                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD
2291                BCE                                            I   1  0980  B           GEN   434
2292                BCE                                            I   1  0981  B           GEN   434
2293 17 42          BCE   CKXPN,BOX,E     MAY BE EXPONENT          I   8  0982  B K99 O55 E       434
2294 17 43          BCE   SW1,BOX,}       GROUP MARK               I   8  0990  B /19 O55 } GMARK 434
2295 17 44          MCW   2&X1,BOX2#1                              I   7  0998  M 0|2 O64         434
2296 17 45          MCW   BOX2,*&8                                 I   7  1005  M O64 |19         434
2297 17 46          BCE   SW1,MRKRS,0                @*&-,#%) AND GM I   8  1012  B /19 N01 0       435
2298 17 47          CHAIN 8                                        I                 MACRO
2299                BCE                                            I   1  1020  B           GEN   435
2300                BCE                                            I   1  1021  B           GEN   435
2301                BCE                                            I   1  1022  B           GEN   435
2302                BCE                                            I   1  1023  B           GEN   435
2303                BCE                                            I   1  1024  B           GEN   435
2304                BCE                                            I   1  1025  B           GEN   435
2305                BCE                                            I   1  1026  B           GEN   436
2306                BCE                                            I   1  1027  B           GEN   436
2307 17 48          BCE   SW1,CODE-3,D                DO STMT       I   8  1028  B /19 O43 D       436
2308 17 49   VSERR  FMESG 9,VARIABLE SYNTAX,CODE,16                 I                 MACRO
2309         VSERR  CS    332                                       I   4  1036  / 332             436
2310                CS                                             I   1  1040  /           GEN   436
2311                SW    FAILSW                                   I   4  1041  , 184       GEN   436
2312                MN    CODE,224&16                              I   7  1045  D O46 240   GEN   436
2313                MN                                             I   1  1052  D           GEN   437
2314                MN                                             I   1  1053  D           GEN   437
2315                MCW   @ERROR 9 - VARIABLE SYNTAX, STATEMENT @   I   4  1054  M P01       GEN   437
2316                W                                              I   1  1058  2           GEN   437
2317                BCV   *&5                                      I   5  1059  B |68 @      GEN   437
2318                B     *&3                                      I   4  1064  B |70        GEN   437
2319                CC    1                                        I   2  1068  F 1         GEN   437
2320 17 50          BW    SYN2R,SYN2S                              I   8  1070  V Z38 N02 1       438
2321 17 51          SBR   X1,1&X1                                  I   7  1078  H 089 0|1         438
2322 17 52          SW    ERRSW                                    I   4  1085  , N04             438
2323 17 53          B     LIMIT                                    I   4  1089  B /71             438
2324 17 54   RTNA   LCA   @0?0@,0&X2                  0,12-0,0    I   7  1093  L P04 0!0         438
2325 17 55          SBR   X2                                       I   4  1100  H 094             438
2326 17 56          SBR   X3,1&X1                                  I   7  1104  H 099 0|1         439
2327 17 57          SBR   X1                                       I   4  1111  H 089             439
2328 17 58          B     BOTM                                     I   4  1115  B U45             439
2329 17 59   SW1    SW    1&X1                                     I   4  1119  , 0|1             439
2330 17 60   *SHIFT ALL BUT VARIABLE
2331 17 61          LCA   00&X3,000&X2        SLIDE ONE EXTRA CHAR  I   7  1123  L 0?0 0!0         439
2332 17 62          SBR   X2                  NECESS. IF 1ST CHAR IS ALPHA
                                                                   I   4  1130  H 094             439
2333 17 63          CW    001&X1                                   I   4  1134  ) 0|1             439
2334 17 64          SBR   X3,1&X1                                  I   7  1138  H 099 0|1         440
2335 17 65          SBR   KLOBR&6,2&X1                            I   7  1145  H U74 0|2         440
2336 17 66          MCW   @;@                          11-6-8      I   4  1152  M P05             440
2337 17 67          BCE   NOMO,BOX,}      GROUP MARK                I   8  1156  B K43 O55 } GMARK 440
2338 17 68          ZA    &1,COUNT#2                               I   7  1164  ? P06 P08         440
2339 17 69   *  SCAN TO BOTTOM OF  VARIABLE
2340 17 70   LIMIT  MCW   000&X1,BOX                               I   7  1171  M 0|0 O55         441
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 SEQ PG LIN  LABEL  OP    OPERANDS                                        SFX CT  LOCN  INSTRUCTION TYPE  CARD
2341 17 71          SAR   X1                                               I  4  1178  Q 089             441
2342 17 72          MCW   BOX,*&8                                          I  7  1182  M O55 /96         441
2343 17 73          BCE   LOOK,MRKRS,0                    @*&-,#%) AND GM  I  8  1189  B S16 N01 0      441
2344 17 74          CHAIN 8                                                I                MACRO
2345                BCE                                                    I  1  1197  B           GEN  441
2346                BCE                                                    I  1  1198  B           GEN  441
2347                BCE                                                    I  1  1199  B           GEN  441
2348                BCE                                                    I  1  1200  B           GEN  442
2349                BCE                                                    I  1  1201  B           GEN  442
2350                BCE                                                    I  1  1202  B           GEN  442
2351                BCE                                                    I  1  1203  B           GEN  442
2352                BCE                                                    I  1  1204  B           GEN  442
2353 17 75          A     &1,COUNT                                         I  7  1205  A P06 P08         442
2354 17 76          B     LIMIT                                            I  4  1212  B /71             442
2355 17 77  LOOK    BW    RTNB,ERVBL                                       I  8  1216  V Z50 O00 1       443
2356 17 78          BW    RTNA,ERRSW                                       I  8  1224  V |93 N04 1       443
2357 17 79          SW    002&X1                                           I  4  1232  , 0|2             443
2358 17 80          SAR   HEX1#3                                          I  4  1236  Q P11             443
2359 17 81  TLU     MCW   DRESS,X1       ADDRESS OF ARRAY TABLE           I  7  1240  M O36 089         443
2360 17 82          BCE   EQUAL,BOX,#    EQUAL                            I  8  1247  B K54 O55 #       443
2361 17 83  *DETERMINE IF VARIABLE IS AN ARRAY NAME
2362 17 84  LOOP    BCE   NOTIN,002&X1,       BLANK                       I  8  1255  B T81 0|2         444
2363 17 85  MCM2    MCM   2&X1                                             I  4  1263  P 0|2             444
2364 17 86          MN                                                     I  1  1267  D                 444
2365 17 87          MN                                                     I  1  1268  D                 444
2366 17 88          SAR   X1                                               I  4  1269  Q 089             444
2367 17 89          BCE   MCM2,1&X1,|                                     I  8  1273  B S63 0|1 |        444
2368 17 90          C     000&X3,00&X1                                     I  7  1281  C 0?0 0|0          444
2369 17 91          BU    LOOP                                             I  5  1288  B S55 /           445
2370 17 92          C     000&X1,000&X3                                    I  7  1293  C 0|0 0?0          445
2371 17 93          BU    LOOP                                             I  5  1300  B S55 /           445
2372 17 94  * MOVE X1 POINTER TO HI ADDRESS OF VARIABLE
2373 17 95          C     0&X1                                             I  4  1305  C 0|0             445
2374 17 96          CHAIN 3                                                I                MACRO
2375                C                                                      I  1  1309  C           GEN  445
2376                C                                                      I  1  1310  C           GEN  445
2377                C                                                      I  1  1311  C           GEN  445
2378 17 97          SAR   X1                                               I  4  1312  Q 089             446
2379 17 98  *   CHECK TO SEE IF THERE ARE ANY SUBSCRIPTS
2380 17 99          BW    SBRAY,SUBSW                                      I  8  1316  V X43 N03 1       446
2381 18 00          BCE   SBSCR,BOX,%    LEFT PAREN                       I  8  1324  B V83 O55 %       446
2382 18 01  SWCHB   NOP   ARRAY                                            I  4  1332  N T58            446
2383 18 02  TUNO    LCA   9&X1,1&X2                                       I  7  1336  L 0|9 0!1         446
2384 18 03          SBR   X2                                               I  4  1343  H 094            446
2385 18 04  RESTO   MCW   HEX1,X1                                         I  7  1347  M P11 089         447
2386 18 05          B     BOTM                                             I  4  1354  B U45            447
2387 18 06  ARRAY   LCA   9&X1,1&X2                                       I  7  1358  L 0|9 0!1         447
2388 18 07          LCA   3&X1                                             I  4  1365  L 0|3             447
2389 18 08          SBR   X2                                               I  4  1369  H 094            447
2390 18 09          CW    4&X2                                             I  4  1373  ) 0!4            447
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 SEQ PG LIN  LABEL  OP    OPERANDS                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD
2391 18 10          B     RESTO                                      I   4  1377  B T47             447
2392 18 11   NOTIN   MCW   HEX1,X1                                   I   7  1381  M P11 089         448
2393 18 12          BW    LOD2,SUBSW                                 I   8  1388  V X67 N03 1       448
2394 18 13          BCE   RUFN,BOX,%                                I   8  1396  B U87 O55 %       448
2395 18 14          LCA   @ _@,1&X2                  BLANK,DELTA 11-7-8  I   7  1404  L P13 0!1         448
2396 18 15          SBR   X2                                         I   4  1411  H 094             448
2397 18 16   SLIDE  LCA   000&X3,001&X2                             I   7  1415  L 0?0 0!1         449
2398 18 17          SBR   X2                                         I   4  1422  H 094             449
2399 18 18          CW    001&X2                                     I   4  1426  ) 0!1             449
2400 18 19          S     &2,COUNT                                   I   7  1430  S P14 P08         449
2401 18 20          BWZ   LOAD1,COUNT,K      B-ZONE                 I   8  1437  V K80 P08 K       449
2402 18 21   BOTM   CW    001&X1                                     I   4  1445  ) 0|1             449
2403 18 22          SAR   X3                                         I   4  1449  Q 099             449
2404 18 23   BOTM2  CW    1&X2                                       I   4  1453  ) 0!1             450
2405 18 24          CW    FEWSW,ERRSW                                I   7  1457  ) N98 N04         450
2406 18 25          CW    TUSW                                       I   4  1464  ) N99             450
2407 18 26   KLOBR  BCE   FIND,0,;                   11-6-8         I   8  1468  B 937 000 ;       450
2408 18 27          MCW   @$@,X1                                    I   7  1476  M P15 089         450
2409 18 28          B     OUT                                        I   4  1483  B J38             450
2410 18 29   *  IF @SUBSCRIPTED@ VARIABLE NOT FUNCTION THEN ERROR
2411 18 30   RUFN   BCE   SLIDE,1&X1,F                              I   8  1487  B U15 0|1 F       451
2412 18 31          FTMSG 6,UNDEFINED ARRAY,CODE,16                  I                        MACRO
2413                CS    332                                        I   4  1495  / 332        GEN   451
2414                CS                                               I   1  1499  /            GEN   451
2415                SW    FAILSW                                     I   4  1500  , 184        GEN   451
2416                MN    CODE,224&16                                I   7  1504  D O46 240    GEN   451
2417                MN                                               I   1  1511  D            GEN   451
2418                MN                                               I   1  1512  D            GEN   451
2419                MCW   @ERROR 6 - UNDEFINED ARRAY, STATEMENT @    I   4  1513  M P52        GEN   452
2420                W                                                I   1  1517  2            GEN   452
2421                BCV   *&5                                        I   5  1518  B V27 @      GEN   452
2422                B     *&3                                        I   4  1523  B V29        GEN   452
2423                CC    1                                          I   2  1527  F 1          GEN   452
2424 18 32          LCA   @%000@,1&X2                                I   7  1529  L P56 0!1         452
2425 18 33          SBR   X2                                         I   4  1536  H 094             452
2426 18 34          MZ    VZONE,3&X2                                 I   7  1540  Y P68 0!3         453
2427 18 35   SKLOZ  BCE   FNDLZ,0&X1,)                              I   8  1547  B V71 0|0 )       453
2428 18 36          BCE   NOMO1,0&X1,}                  GM          I   8  1555  B K35 0|0 } GMARK 453
2429 18 37          SBR   X1                                         I   4  1563  H 089             453
2430 18 38          B     SKLOZ                                      I   4  1567  B V47             453
2431 18 39   FNDLZ  MN    0&X1                                       I   4  1571  D 0|0             453
2432 18 40          SAR   X1                                         I   4  1575  Q 089             453
2433 18 41          B     BOTM2                                      I   4  1579  B U53             454
2434 18 42   *  PROCESS SUBSCRIPTS
2435 18 43   SBSCR  ZA    00&X1,ACCUM#6                              I   7  1583  ? 0|0 P62         454
2436 18 44          SAR   X3                                         I   4  1590  Q 099             454
2437 18 45          SW    VBLSW                                      I   4  1594  , P79             454
2438 18 46          ZA    000&X3,ROWS#5                              I   7  1598  ? 0?0 P67         454
2439 18 47          ZA    005&X1,WORDL                               I   7  1605  ? 0|5 N87         454
2440 18 48          S     &1,ACCUM                                   I   7  1612  S P06 P62         455
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 SEQ PG LIN  LABEL  OP    OPERANDS                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD
2441 18 49          MZ    8&X1,VZONE#1                               I   7  1619  Y 0|8 P68         455
2442 18 50          MCW   HEX1,X1                                   I   7  1626  M P11 089         455
2443 18 51          LCA   @ $@,001&X2                               I   7  1633  L P70 0!1         455
2444 18 52          SBR   X2                                        I   4  1640  H 094            455
2445 18 53          MN    000&X1                                    I   4  1644  D 0|0            455
2446 18 54          SAR   X1                                        I   4  1648  Q 089            456
2447 18 55          SBR   X3                                        I   4  1652  H 099            456
2448 18 56   SPLIT  BWZ   CONST,000&X1,2      NO ZONE               I   8  1656  V Y51 0|0 2      456
2449 18 57   *  PROCESS VARIABLE SUSCRIPTS
2450 18 58          SBR   X1,2&X1                                   I   7  1664  H 089 0|2        456
2451 18 59          LCA   @*1@,000&X1                              I   7  1671  L P72 0|0        456
2452 18 60          B     CONST                                     I   4  1678  B Y51            456
2453 18 61   DELTA  LCA   @ _@,001&X2    11-7-8  DELTA           I   7  1682  L P13 0!1        457
2454 18 62          SBR   X2                                        I   4  1689  H 094            457
2455 18 63   FEED   MCW   000&X1,BOX                                I   7  1693  M 0|0 O55        457
2456 18 64          SAR   X1                                        I   4  1700  Q 089            457
2457 18 65          MCW   BOX,*&8                                  I   7  1704  M O55 X18        457
2458 18 66          BCE   XPAND,@-&),@,0                           I   8  1711  B X26 P76 0      457
2459 18 67          B                                               I   1  1719  B                457
2460 18 68          B                                               I   1  1720  B                458
2461 18 69          B                                               I   1  1721  B                458
2462 18 70          B     FEED                                      I   4  1722  B W93            458
2463 18 71   XPAND  SW    2&X1                                      I   4  1726  , 0|2            458
2464 18 72          SW                                              I   1  1730  ,                458
2465 18 73          SAR   HEX1                                      I   4  1731  Q P11            458
2466 18 74          SW    SUBSW                                     I   4  1735  , N03            458
2467 18 75          B     TLU                                       I   4  1739  B S40            459
2468 18 76   SBRAY  LCA   9&X1,2&X2                                 I   7  1743  L 0|9 0!2        459
2469 18 77          SBR   X2                                        I   4  1750  H 094            459
2470 18 78          CW    1&X2                                      I   4  1754  ) 0!1            459
2471 18 79          MN                                              I   1  1758  D                459
2472 18 80          SAR   X2                                        I   4  1759  Q 094            459
2473 18 81          B     LDCOM                                     I   4  1763  B X83            459
2474 18 82   LOD2   LCA   000&X3,001&X2                             I   7  1767  L 0?0 0!1        460
2475 18 83          LCA                                             I   1  1774  L                460
2476 18 84          SBR   X2                                        I   4  1775  H 094            460
2477 18 85          CW    2&X2                                      I   4  1779  ) 0!2            460
2478 18 86   LDCOM  MCW   HEX1,X1                                   I   7  1783  M P11 089        460
2479 18 87          CW    2&X1                                      I   4  1790  ) 0|2            460
2480 18 88          BCE   LOAD2,003&X2,_      DELTA  11-7-8         I   8  1794  B K65 0!3 _      460
2481 18 89          LCA   @ ,@,1&X2                  BLANK COMMA    I   7  1802  L P78 0!1        461
2482 18 90          SBR   X2                                        I   4  1809  H 094            461
2483 18 91          CW    SUBSW                                     I   4  1813  ) N03            461
2484 18 92          BCE   PUTC,BOX,,          COMMA                 I   8  1817  B M38 O55 ,      461
2485 18 93          BCE   PHEW,BOX,)         RT PAREN              I   8  1825  B Z54 O55 )      461
2486 18 94          MZ    BOX,WORDL                                 I   7  1833  Y O55 N87        461
2487 18 95   COPY   MCW   X1,X3                                     I   7  1840  M 089 099        462
2488 18 96          B     SPLIT                                     I   4  1847  B W56            462
2489 18 97   *FLIP CONSTANT
2490 18 98   CONST  SBR   X3,VERSE-2                                I   7  1851  H 099 N03        462
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 SEQ PG LIN  LABEL  OP    OPERANDS                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD
2491 18 99   TURN   MCW   000&X1,BOX                                I   7  1858  M 0|0 O55         462
2492 19 00          SAR   X1                                        I   4  1865  Q 089             462
2493 19 01          MCW   BOX,002&X3                               I   7  1869  M O55 0?2         462
2494 19 02          SBR   X3                                        I   4  1876  H 099             463
2495 19 03          BWZ   TURN,000&X1,2       NO ZONE              I   8  1880  V Y58 0|0 2       463
2496 19 04          SBR   X1                                        I   4  1888  H 089             463
2497 19 05          M     WORDL,007&X3        SWITCH C, SINCE WORDL MODIFIED I   7  1892  @ N87 0?7  463
2498 19 06          BCE   VARBL,001&X1,*      ASTERISK             I   8  1899  B Z92 0|1 *       463
2499 19 07          A     007&X3,ACCUM                              I   7  1907  A 0?7 P62         463
2500 19 08          BCE   PHEW,1&X1,)                               I   8  1914  B Z54 0|1 )       464
2501 19 09          BCE   PUTC,1&X1,,                               I   8  1922  B M38 0|1 ,       464
2502 19 10          SW    SYN2S                                     I   4  1930  , N02             464
2503 19 11          B     VSERR                                     I   4  1934  B |36             464
2504 19 12   SYN2R  CW    SYN2S                                     I   4  1938  ) N02             464
2505 19 13          SW    ERVBL                                     I   4  1942  , O00             464
2506 19 14          B     LIMIT                                     I   4  1946  B /71             464
2507 19 15   RTNB   CW    ERVBL                                     I   4  1950  ) O00             465
2508 19 16   *  END OF PROCESS SUBSCRIPT
2509 19 17   PHEW   NOP   ACCUM-7                                   I   4  1954  N P55             465
2510 19 18          SAR   X3                                        I   4  1958  Q 099             465
2511 19 19          SW    FEWSW                                     I   4  1962  , N98             465
2512 19 20          B     NORML                                     I   4  1966  B !29             465
2513 19 21   LDOLR  LCA   @$@,0&X2                                  I   7  1970  L P15 0!0         465
2514 19 22          SBR   X2                                        I   4  1977  H 094             465
2515 19 23          MZ    VZONE,3&X2                                I   7  1981  Y P68 0!3         466
2516 19 24          B     BOTM                                      I   4  1988  B U45             466
2517 19 25   *  PROCESS VARIABLE SUBSCRIPT
2518 19 26   VARBL  CW    1&X1,VBLSW#1                              I   7  1992  ) 0|1 P79         466
2519 19 27          B     NORML                                     I   4  1999  B !29             466
2520 19 28          LCA   @ *@,000&X2         BLANK, ASTERISK      I   7  2003  L P81 0!0         466
2521 19 29          SBR   X2                                        I   4  2010  H 094             466
2522 19 30          CW    001&X2                                    I   4  2014  ) 0!1             466
2523 19 31          MCW   X1,X3                                     I   7  2018  M 089 099         467
2524 19 32          B     DELTA                                     I   4  2025  B W82             467
2525 19 33   NORML  SBR   EXIT&3                                    I   4  2029  H J37             467
2526 19 34   X3AND  EQU   007&X3                                    I      0007 X
2527 19 35   SUBTR  S     &16000,X3AND                              I   7  2033  S P86 0?7         467
2528 19 36          BWZ   SUBTR,X3AND,B    AB ZONE                I   8  2040  V !33 0?7 B       467
2529 19 37   ADD    A     &16000,X3AND                              I   7  2048  A P86 0?7         467
2530 19 38          BWZ   ADD,X3AND,K      B ZONE                 I   8  2055  V !48 0?7 K       468
2531 19 39          BW    ALCON,FEWSW                               I   8  2063  V L35 N98 1       468
2532 19 40   GET    SBR   X3,1&X3                                   I   7  2071  H 099 0?1         468
2533 19 41          BCE   GET,002&X3,0     ZERO                   I   8  2078  B !71 0?2 0       468
2534 19 42          SBR   X2,1&X2                                   I   7  2086  H 094 0!1         468
2535 19 43          LCA   BLNK6#6                                   I   4  2093  L P92             469
2536 19 44   TWIST  MCW   002&X3,BOX                                I   7  2097  M 0?2 O55         469
2537 19 45          SAR   X3                                        I   4  2104  Q 099             469
2538 19 46          MCW   BOX,000&X2                               I   7  2108  M O55 0!0         469
2539 19 47          SBR   X2                                        I   4  2115  H 094             469
2540 19 48          BWZ   TWIST,001&X3,2       NO ZONE              I   8  2119  V !97 0?1 2       469
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 SEQ PG LIN  LABEL  OP    OPERANDS                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD
2541 19 49          MZ    BLANK,1&X2                                 I   7  2127  Y P87 0!1        470
2542 19 50   EXIT   B     00                                         I   4  2134  B 000            470
2543 19 51   OUT    FENDX C,,,,PHSE2P,,ORGVB-1,VARBL TWO             I                    MACRO
2544         OUT    BSS   333,C                                     I   5  2138  B 333 C     GEN  470
2545                SBR   INITXT&3,PHSE2P                           I   7  2143  H 796 849   GEN  470
2546                SBR   TCLEAR,ORGVB-1                           I   7  2150  H 710 Q13   GEN  470
2547                LCA   @VARBL TWO@,110                          I   7  2157  L Q01 110   GEN  470
2548                B     MONTER                                   I   4  2164  B 700       GEN  471
2549 19 52   LIST   MCW   @B@,SWCHA                                I   7  2168  M Q02 956        471
2550 19 53          MCW   @B@,SWCHB                                I   7  2175  M Q02 T32        471
2551 19 54          MCW   CODE-3,*&8                              I   7  2182  M O43 J96        471
2552 19 55          BCE   TU,@1356@,0                             I   8  2189  B K04 Q06 0      471
2553 19 56          CHAIN 3                                        I                    MACRO
2554                BCE                                          I   1  2197  B           GEN  471
2555                BCE                                          I   1  2198  B           GEN  471
2556                BCE                                          I   1  2199  B           GEN  472
2557 19 57          B     FIND                                     I   4  2200  B 937            472
2558 19 58   TU     SW    TUSW                                     I   4  2204  , N99            472
2559 19 59          B     FIND                                     I   4  2208  B 937            472
2560 19 60   RTPAR  BCE   PUTB,BOX,)     RT PAREN                 I   8  2212  B K24 O55 )      472
2561 19 61          B     MDIFY                                    I   4  2220  B 960            472
2562 19 62   PUTB   MCW   @B@,SWCHB                                I   7  2224  M Q02 T32        472
2563 19 63          B     MDIFY                                    I   4  2231  B 960            473
2564 19 64   NOMO1  MN    0&X2                                     I   4  2235  D 0!0            473
2565 19 65          SAR   X2                                       I   4  2239  Q 094            473
2566 19 66   NOMO   LCA   GM,001&X2                                I   7  2243  L N55 0!1        473
2567 19 67          B     START                                    I   4  2250  B 856            473
2568 19 68   EQUAL  MCW   @N@,SWCHB                                I   7  2254  M O54 T32        473
2569 19 69          B     LOOP                                     I   4  2261  B S55            473
2570 19 70   LOAD2  LCA   BLNK2,1&X2                               I   7  2265  L P88 0!1        474
2571 19 71          SBR   X2                                       I   4  2272  H 094            474
2572 19 72          B     LDCOM                                    I   4  2276  B X83            474
2573 19 73   LOAD1  LCA   BLANK,0&X2                               I   7  2280  L P87 0!0        474
2574 19 74          SBR   X2                                       I   4  2287  H 094            474
2575 19 75          CW    001&X2                                   I   4  2291  ) 0!1            474
2576 19 76          B     BOTM                                     I   4  2295  B U45            474
2577 19 77   CKXPN  BCE   SW1,2&X1,#                               I   8  2299  B /19 0|2 #      475
2578 19 78          BCE   SW1,2&X1,@                               I   8  2307  B /19 0|2 @      475
2579 19 79          BWZ   FIND,2&X1,2                             I   8  2315  V 937 0|2 2      475
2580 19 80          BCE   FIND,2&X1,.                             I   8  2323  B 937 0|2 .      475
2581 19 81          B     SW1                                      I   4  2331  B /19            475
2582 19 82   ALCON  MCW   7&X3,HOLD5#5                            I   7  2335  M 0?7 Q11        476
2583 19 83          FPACK HOLD5,WORK3,X3                           I                    MACRO
2584                INCLD ZONES                                    I                    MACRO
2585                MN    HOLD5,WORK3                              I   7  2342  D Q11 N97   GEN  476
2586                MN                                           I   1  2349  D           GEN  476
2587                MN                                           I   1  2350  D           GEN  476
2588                SAR   *&4                                      I   4  2351  Q L58       GEN  476
2589                MCW   0,X3                                     I   7  2355  M 000 099   GEN  476
2590                MCW   @0@                                      I   4  2362  M Q12       GEN  476
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 SEQ PG LIN  LABEL  OP    OPERANDS                                          SFX CT  LOCN  INSTRUCTION TYPE  CARD
2591             A     X3                                                 I   4  2366  A 099       GEN   477
2592             MZ    ZONES&1&X3,WORK3                                   I   7  2370  Y O?3 N97   GEN   477
2593             CW                                                       I   1  2377  )           GEN   477
2594             SBR   *&7                                                I   4  2378  H L88       GEN   477
2595             MZ    ZONES&X3, 0                                        I   7  2382  Y O?2 000   GEN   477
2596 19 84       BCE   *&8,2&X2,,                                         I   8  2389  B M04 0!2 ,       477
2597 19 85       SBR   X2,1&X2                                           I   7  2397  H 094 0!1         477
2598 19 86       LCA   WORK3,1&X2                                        I   7  2404  L N97 0!1         478
2599 19 87       SBR   X2                                                 I   4  2411  H 094             478
2600 19 88       CW    1&X2                                               I   4  2415  ) 0!1             478
2601 19 89       MZ    VZONE,2&X2                                         I   7  2419  Y P68 0!2         478
2602 19 90       BW    BOTM,VBLSW                                         I   8  2426  V U45 P79 1       478
2603 19 91       B     LDOLR                                              I   4  2434  B Z70             478
2604 19 92  PUTC   MZ    *-4,WORDL                                          I   7  2438  Y M40 N87         479
2605 19 93       M     ROWS,WORDL&6                                       I   7  2445  @ P67 N93         479
2606 19 94       MCM   WORDL&2,WORDL-4      ROWS*WORDL IN WORDL %2 DIMENS) I   7  2452  P N89 N83         479
2607 19 95       S     WORDL,ACCUM                                        I   7  2459  S N87 P62         479
2608 19 96       B     COPY                                               I   4  2466  B Y40             479
2609 19 97  FMAT   LCA   0&X1,0&X2                                        I   7  2470  L 0|0 0!0         479
2610 19 98       SBR   X2                                                 I   4  2477  H 094             480
2611 19 99       C     0&X1                                               I   4  2481  C 0|0             480
2612 20 00       SAR   X1                                                 I   4  2485  Q 089             480
2613 20 01       B     START                                              I   4  2489  B 856             480
2614 20 02  MRKRS  DCW   @#,}*@&-%)@                  EQUALS,COMMA,GR MARK I   9  2501                    480
2615 20 03  SYN2S  DC    #1                                                 I   1  2502                    480
2616 20 04  SUBSW  DC    #1                                                 I   1  2503                    480
2617 20 05  ERRSW  DC    #1                                                 I   1  2504                    480
2618 20 06  VERSE  DCW   #1                                                 I   1  2505                    480
2619 20 07       DC    #49                                                I  49  2554                    482
2620 20 08  GM     DC    @}@                              G-M               I   1  2555          GMARK    482
2621 20 09  KERR   DCW   @ERROR @                                          I   6  2561                    482
2622 20 10  KVSTM  DCW   @ VARIABLE, STATEMENT @                           I  21  2582                    482
2623 20 11  WORDL  DCW   #5                                                 I   5  2587                    483
2624 20 12       DC    #6                                                 I   6  2593                    483
2625 20 13       DC    @|@   RECORD MARK                                  I   1  2594                    483
2626 20 14  WORK3  DCW   #3                                                 I   3  2597                    483
2627 20 15  FEWSW  DC    #1                                                 I   1  2598                    483
2628 20 16  TUSW   DC    #1                                                 I   1  2599                    483
2629 20 17  ERVBL  DC    #1                                                 I   1  2600                    483
2630 20 18       ORG   *                                                  I          2601
2631             LTORG *    WVS: AUTOCODER SHOULDN'T LOAD INCLD AT ORG     I          2601
2632             DCW   #1                                                 I   1  2601          GEN      483
2633        ZONES  DC    9                                                  I   1  2602          GEN      483
2634             DCW   @9Z9R9I99ZZZRZIZ9RZRRRIR9IZIRIII@                  I  31  2633          GEN      484
            *         LTORG*                                                                     GEN
            DRESSI DCW   #03                                              I   3  2636          AREA     484
            WORK I DCW   #10                                              I  10  2646          AREA     485
                   DCW   @3L5UP61@                                        I   7  2653          LIT      485
                   DCW   @N@                                              I   1  2654          LIT      485
            BOX  I DCW   #01                                              I   1  2655          AREA     485
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SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
				DCW	@@*-&.%),@	I	8	2663		LIT	485
			BOX2 I	DCW	#01	I	1	2664		AREA	485
				DCW	@ERROR 9 - VARIABLE SYNTAX, STATEMENT @	I	37	2701		LIT	486
				DCW	@0?0@	I	3	2704		LIT	487
				DCW	@;@	I	1	2705		LIT	487
				DCW	&1	I	1	2706		LIT	487
			COUNTI	DCW	#02	I	2	2708		AREA	487
			HEX1 I	DCW	#03	I	3	2711		AREA	487
				DCW	@ _@	I	2	2713		LIT	487
				DCW	&2	I	1	2714		LIT	487
				DCW	@$@	I	1	2715		LIT	488
				DCW	@ERROR 6 - UNDEFINED ARRAY, STATEMENT @	I	37	2752		LIT	488
				DCW	@%000@	I	4	2756		LIT	489
			ACCUMI	DCW	#06	I	6	2762		AREA	489
			ROWS I	DCW	#05	I	5	2767		AREA	489
			VZONEI	DCW	#01	I	1	2768		AREA	489
				DCW	@ $@	I	2	2770		LIT	489
				DCW	@*1@	I	2	2772		LIT	489
				DCW	@-&),@	I	4	2776		LIT	489
				DCW	@ ,@	I	2	2778		LIT	490
			VBLSWI	DCW	#01	I	1	2779		AREA	490
				DCW	@ *@	I	2	2781		LIT	490
				DCW	&16000	I	5	2786		LIT	490
			BLNK6I	DCW	#06	I	6	2792		AREA	490
				DCW	@VARBL TWO@	I	9	2801		LIT	490
				DCW	@B@	I	1	2802		LIT	490
				DCW	@1356@	I	4	2806		LIT	491
			HOLD5I	DCW	#05	I	5	2811		AREA	491
				DCW	@0@	I	1	2812		LIT	491
2635	20	19	CODE	EQU	WORK	I		2646			
2636	20	20	BLANK	EQU	BLNK6-5	I		2787			
2637	20	21	BLNK2	EQU	BLNK6-4	I		2788			
2638	20	22		DCW	@}@ SYSTEM GROUP MARK	I	1	2813		GMARK	491
2639	20	23	ORGVB	EQU	*&1	I		2814			
2640	20	24		XFR	INITL	I			B 838		492

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 SEQ PG LIN  LABEL  OP    OPERANDS                                          SFX CT  LOCN  INSTRUCTION TYPE  CARD
2641 20 25          JOB   1401 FORTRAN  VARIABLES PHASE TWO                 I
2642 20 26    * MOVES THE SOURCE PROGRAM UP TO SAUCE AND COMPUTES PARAMETERS FOR
2643 20 27    * THE RANDOMIZER IN VARBL. PHASE 3
2644 20 28          FBEGN VARBL TWO,X1,R,X2,,X3,R,P                         I                      MACRO
2645                SFX   P                                                 P                      GEN
2646          110   DCW   @VARBL TWO@                                       P   9  0110              GEN    495
2647          X1    EQU   089                                               P      0089              GEN
2648          089   DCW   000                                               P   3  0089              GEN    496
2649          091   DC    00                                                P   2  0091              GEN    496
2650          X2    EQU   094                                               P      0094              GEN
2651          X3    EQU   099                                               P      0099              GEN
2652          099   DCW   000                                               P   3  0099              GEN    497
2653          100   DC    0                                                 P   1  0100              GEN    497
2654 20 29    SAUCE EQU   SAUCEK                                            P      2700
2655 20 30          ORG   XBEGIN                                            P            0838
2656 20 31    BASE  DCW   #3                                                P   3  0840                     498
2657 20 32    MAX   DCW   #4                                                P   4  0844                     498
2658 20 33          DC    #1                                                P   1  0845                     498
2659 20 34    UPLIM DCW   #3                                                P   3  0848                     498
2660 20 35    NXBTM EQU   083                                               P      0083
2661 20 36    PHSE2 MCW   NXBTM,X3                                          P   7  0849  M 083 099          498
2662 20 37          BCE   FQUIT,X1,$                                       P   8  0856  B /97 089 $        498
2663 20 38          SBR   NOMO#3,2&X3                                      P   7  0864  H T42 0?2          498
2664 20 39          MCW   X2,X3                                           P   7  0871  M 094 099          499
2665 20 40    CLR1  CS    000&X3                                           P   4  0878  / 0?0              499
2666 20 41          SBR   X3                                              P   4  0882  H 099              499
2667 20 42          C     X3,&SAUCE-1                                     P   7  0886  C 099 T45          499
2668 20 43          BU    CLR1                                            P   5  0893  B 878 /            499
2669 20 44          SBR   X1,SAUCE-1                                      P   7  0898  H 089 O99          499
2670 20 45    *  SHIFT SOURCE PROGRAM UP TO COMPILER PROGRAM
2671 20 46          MOVUP X2,X1,NOMO,ALL,|                                P                      MACRO
2672                MN    0&X1                                            P   4  0905  D 0|0        GEN    499
2673                SAR   X1                                              P   4  0909  Q 089        GEN    500
2674          )0J065 MCM  0&X2                                            P   4  0913  P 0!0        GEN    500
2675                SAR   )0L065&6                                        P   4  0917  Q 939        GEN    500
2676                MCM   0&X2,1&X1                                       P   7  0921  P 0!0 0|1    GEN    500
2677                MN                                                    P   1  0928  D            GEN    500
2678                SBR   X1                                              P   4  0929  H 089        GEN    500
2679          )0L065 SBR  X2,0                                            P   7  0933  H 094 000    GEN    500
2680                BCE   )0J065,0&X1,|                                   P   8  0940  B 913 0|0 |  GEN    501
2681                MN    0&X2                                            P   4  0948  D 0!0        GEN    501
2682                CW                                                    P   1  0952  )            GEN    501
2683                SW    0&X1                                            P   4  0953  , 0|0        GEN    501
2684                C     X2,NOMO                                         P   7  0957  C 094 T42    GEN    501
2685                BU    )0J065                                          P   5  0964  B 913 /      GEN    501
2686 20 47          CW    0&X2                                            P   4  0969  ) 0!0              501
2687 20 48          CW                                                    P   1  0973  )                  502
2688 20 49          SBR   BASE,2&X1                                       P   7  0974  H 840 0|2          502
2689 20 50          MN    TWO9,BASE                                       P   7  0981  D T07 840          502
2690 20 51          MN                                                    P   1  0988  D                  502
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 SEQ PG LIN  LABEL  OP    OPERANDS                                          SFX CT  LOCN  INSTRUCTION TYPE  CARD
2691 20 52          MCW   PARAMA&2,X3                                      P   7  0989  M 688 099          502
2692 20 53          MN    000&X3                                           P   4  0996  D 0?0              502
2693 20 54          SW                                                     P   1  1000  ,                  502
2694 20 55          SAR   NXBTM                                           P   4  1001  Q 083              503
2695 20 56          SBR   X3                                               P   4  1005  H 099              503
2696 20 57    *  CLEAR BALANCE OF CORE
2697 20 58    CLR2  CS    000&X3                                           P   4  1009  / 0?0              503
2698 20 59          SBR   X3                                               P   4  1013  H 099              503
2699 20 60          C     X3,BASE                                          P   7  1017  C 099 840          503
2700 20 61          BU    CLR2                                             P   5  1024  B |09 /            503
2701 20 62          MCW   @<@,0&X3                        12-6-8           P   7  1029  M T46 0?0          503
2702 20 63    *  DIVIDE REST OF CORE FOR TABLES   RATIO 3 TO 7
2703 20 64          MCW   NXBTM,LOC                                        P   7  1036  M 083 T05          504
2704 20 65          B     UNPAK                                            P   4  1043  B S31              504
2705 20 66          MCW   NUM#5,MAX&1                                      P   7  1047  M T51 845          504
2706 20 67          MCW   BASE,LOC                                         P   7  1054  M 840 T05          504
2707 20 68          B     UNPAK                                            P   4  1061  B S31              504
2708 20 69          S     NUM,MAX&1                                        P   7  1065  S T51 845          504
2709 20 70          A     MAX,ACCUM#6                                      P   7  1072  A 844 T57          505
2710 20 71          A     ACCUM                                            P   4  1079  A T57              505
2711 20 72          A     MAX,ACCUM       3*MAX IN ACCUM                   P   7  1083  A 844 T57          505
2712 20 73    *  1/10 OF NXBTM-BASE IN MAX
2713 20 74          A     NUM,ACCUM                                        P   7  1090  A T51 T57          505
2714 20 75          MCW   ACCUM-3,X3                                       P   7  1097  M T54 099          505
2715 20 76          A     X3                                               P   4  1104  A 099              505
2716 20 77          MZ    ZONES&X3,ACCUM-2                                 P   7  1108  Y T?8 T55          506
2717 20 78          MZ    ZONES&1&X3,ACCUM                                 P   7  1115  Y T?9 T57          506
2718 20 79          MCW   ACCUM,X3                                         P   7  1122  M T57 099          506
2719 20 80          SW    002&X3                                           P   4  1129  , 0?2              506
2720 20 81          MCW   @<@      12-6-8                                  P   4  1133  M T46              506
2721 20 82          SBR   UPLIM                                            P   4  1137  H 848              506
2722 20 83          MCW   X1,X2                                            P   7  1141  M 089 094          507
2723 20 84          MN    0&X2                                             P   4  1148  D 0!0              507
2724 20 85          SAR   X1                                               P   4  1152  Q 089              507
2725 20 86          FENDX C,,,WORK5J-4,PHSE3J,WORK5J,SYS2,VARBL TRI        P                      MACRO
2726                BSS   333,C                                            P   5  1156  B 333 C     GEN    507
2727                SBR   INITAP&6,WORK5J-4                                P   7  1161  H 786 849   GEN    507
2728                SBR   BCLEAR                                           P   4  1168  H 833       GEN    507
2729                SBR   INITXT&3,PHSE3J                                 P   7  1172  H 796 857   GEN    507
2730                SBR   TCLEAR,SYS2                                      P   7  1179  H 710 U05   GEN    508
2731                LCA   @VARBL TRI@,110                                  P   7  1186  L T66 110   GEN    508
2732                B     MONTER                                           P   4  1193  B 700      GEN    508
2733 20 87    FQUIT FQUIT                                                  P                      MACRO
2734          FQUIT CS    332                                              P   4  1197  / 332      GEN    508
2735                CS                                                     P   1  1201  /          GEN    508
2736                CC    1                                                P   2  1202  F 1        GEN    508
2737                MCW   @MESSAGE 2 - OBJECT PROGRAM TOO LARGE@,270        P   7  1204  M U02 270  GEN    508
2738                W                                                      P   1  1211  2          GEN    509
2739                CC    1                                                P   2  1212  F 1        GEN    509
2740                BCE   *&6,MONTOR,1                                     P   8  1214  B S27 769 1 GEN    509
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 SEQ PG LIN  LABEL   OP    OPERANDS                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD
2741                RWD   1                                          P   5  1222  U %U1 R     GEN   509
2742                H     *-3                                        P   4  1227  . S27       GEN   509
2743 20 88  UNPAK   SBR   EXIT&3                                     P   4  1231  H T00            509
2744 20 89          MN    LOC,NUM                                    P   7  1235  D T05 T51        509
2745 20 90          MN                                               P   1  1242  D                510
2746 20 91          MN                                               P   1  1243  D                510
2747 20 92          MCW                                              P   1  1244  M                510
2748 20 93          MZ    LOC,TWO9                                   P   7  1245  Y T05 T07        510
2749 20 94          MZ    LOC-2,TWO9-1                               P   7  1252  Y T03 T06        510
2750 20 95          NOP   ZONES-3                                    P   4  1259  N T05            510
2751 20 96          SAR   X3                                         P   4  1263  Q 099            510
2752 20 97  COMP    C     004&X3,TWO9                                P   7  1267  C 0?4 T07        511
2753 20 98          SAR   X3                                         P   4  1274  Q 099            511
2754 20 99          A     &1,NUM-3                                   P   7  1278  A U03 T48        511
2755 21 00          BU    COMP                                       P   5  1285  B S67 /          511
2756 21 01          MZ    BLANK#1,NUM-3                              P   7  1290  Y U04 T48        511
2757 21 02  EXIT    B     000                                        P   4  1297  B 000            511
2758 21 03  LOC     DCW   @0J   @                                    P   5  1305                   511
2759 21 04  TWO9    DCW   @99@                                      P   2  1307                   512
2760 21 05  ZONES   DC    @9@                                        P   1  1308                   512
2761 21 06          DC    @9Z9R9I99ZZZRZIZ9RZRRRIR9IZIRIII@          P  31  1339                   512
2762 21 07          LTORG *                                          P          1340
             NOMO P DCW   #03                                        P   3  1342       AREA   512
                    DCW   &SAUCEP-1                                  P   3  1345  O99  ADCON  513
                    DCW   @<@                                        P   1  1346       LIT    513
             NUM  P DCW   #05                                        P   5  1351       AREA   513
             ACCUMP DCW   #06                                        P   6  1357       AREA   513
                    DCW   @VARBL TRI@                                P   9  1366       LIT    513
                    DCW   @MESSAGE 2 - OBJECT PROGRAM TOO LARGE@     P  36  1402       LIT    514
                    DCW   &1                                         P   1  1403       LIT    514
             BLANKP DCW   #01                                        P   1  1404       AREA   514
2763 21 08          LTORG *                                          P          1405
2764 21 09  SYS2    DCW   @}@                          SYSTEM GROUP MARK P   1  1405       GMARK  514
2765 21 10          XFR   PHSE2                                      P          B 849            516
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 SEQ PG LIN  LABEL   OP    OPERANDS                                          SFX CT  LOCN  INSTRUCTION TYPE  CARD
2766 21 11           JOB   1401 FORTRAN   VARIABLES  PHASE THREE            P
2767 21 12           FBEGN VARBL TRI,X1,,X2,,X3,R,J                          P                      MACRO
2768                 SFX   J                                                 J                      GEN
2769          110    DCW   @VARBL TRI@                                       J   9  0110             GEN    519
2770          X1     EQU   089                                               J      0089             GEN
2771          X2     EQU   094                                               J      0094             GEN
2772          X3     EQU   099                                               J      0099             GEN
2773          099    DCW   000                                               J   3  0099             GEN    520
2774          100    DC    0                                                 J   1  0100             GEN    520
2775 21 13    * DEFINES VARIABLES IN SOURCE PROGRAM
2776 21 14           ORG   XBEGIN                                            J          0838
2777 21 15    BASE   DS    3                                                 J      0840
2778 21 16    MAX    DS    4                                                 J      0844
2779 21 17    UPLIM  DS    4                                                 J      0848
2780 21 18    NXTOP  EQU   086                                               J      0086
2781 21 19    NXBTM  EQU   083                                               J      0083
2782 21 20    WORK5  DCW   #5                                                J   5  0853                   521
2783 21 21    SAVE2  DCW   #3                                                J   3  0856                   521
2784 21 22    PHSE3  MESSG @STORAGE ASSIGNMENT - SIMPLE VARIABLES@,37,L,J    J                      MACRO
2785          PHSE3  CC    L                                                 J   2  0857  F L        GEN    521
2786                 CS    332                                               J   4  0859  / 332      GEN    521
2787                 CS                                                      J   1  0863  /          GEN    521
2788                 MCW   @STORAGE ASSIGNMENT - SIMPLE VARIABLES@,37&200   J   7  0864  M |47 237  GEN    521
2789                 W                                                       J   1  0871  2          GEN    521
2790                 CC    J                                                 J   2  0872  F J        GEN    522
2791 21 23           MCW   @ @,SAUCEK-1                  BLANK              J   7  0874  M |48 O99   GEN    522
2792 21 24           MCW   X2,SAVE2                                          J   7  0881  M 094 856  GEN    522
2793 21 25           UNPAK NXTOP,WORK5                                       J                      MACRO
2794                 S     )0M070#2                                          J   4  0888  S |50      GEN    522
2795                 S     )0L070#2                                          J   4  0892  S |52      GEN    522
2796                 MZ    NXTOP,)0M070-1                                    J   7  0896  Y 086 |49  GEN    522
2797                 MZ    NXTOP-2,)0L070-1                                  J   7  0903  Y 084 |51  GEN    522
2798          )0J070 BWZ   )0K070, )0L070-1, 2                               J   8  0910  V 929 |51 2 GEN  523
2799                 A     @A0@, )0L070                                      J   7  0918  A |54 |52  GEN    523
2800                 B     )0J070                                            J   4  0925  B 910      GEN    523
2801          )0K070 BWZ   )0P070, )0M070-1, 2                               J   8  0929  V 948 |49 2 GEN  523
2802                 A     @?4@, )0M070                                      J   7  0937  A |56 |50  GEN    523
2803                 B     )0K070                                            J   4  0944  B 929      GEN    523
2804          )0P070 A     )0L070-1,)0M070                                   J   7  0948  A |51 |50  GEN    524
2805                 MCW   NXTOP,WORK5                                       J   7  0955  M 086 853  GEN    524
2806                 MCW   )0M070                                           J   4  0962  M |50      GEN    524
2807                 ZA    WORK5                                             J   4  0966  ? 853      GEN    524
2808                 MZ    *-4, WORK5                                        J   7  0970  Y 972 853  GEN    524
2809 21 26           FENDX C,,,PHSE3,,PHSE3,SAUCEK-1,VARBL QUAD              J                      MACRO
2810                 BSS   333,C                                             J   5  0977  B 333 C    GEN    524
2811                 SBR   INITAP&6,PHSE3                                    J   7  0982  H 786 857  GEN    525
2812                 SBR   BCLEAR                                           J   4  0989  H 833      GEN    525
2813                 SBR   TCLEAR,SAUCEK-1                                  J   7  0993  H 710 O99  GEN    525
2814                 LCA   @VARBL QUAD@,110                                 J   7  1000  L |66 110  GEN    525
2815                 B     MONTER                                            J   4  1007  B 700      GEN    525
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 SEQ PG LIN  LABEL   OP    OPERANDS                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD
2816 21 27           LTORG *                                          J          1011
                     DCW   @STORAGE ASSIGNMENT - SIMPLE VARIABLES@    J  37  1047             LIT   526
                     DCW   @ @                                        J   1  1048             LIT   526
              )0M070 DCW   #02                                       J   2  1050             AREA  527
              )0L070 DCW   #02                                       J   2  1052             AREA  527
                     DCW   @A0@                                      J   2  1054             LIT   527
                     DCW   @?4@                                      J   2  1056             LIT   527
                     DCW   @VARBL QUAD@                              J  10  1066             LIT   527
2817 21 28           DCW   @}@                    SYSTEM GROUP MARK  J   1  1067             GMARK 527
2818 21 29           XFR   PHSE3                                     J          B 857           528
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 SEQ PG LIN  LABEL  OP    OPERANDS                                          SFX CT  LOCN  INSTRUCTION TYPE  CARD

2819 21 30          JOB   1401 FORTRAN   VARIABLES PHASE FOUR                J
2820 21 31   110    DCW   @VARBL QUAD@                                       J  10  0110                      531
2821 21 32          ORG   PHSE3                                              J             0857
2822 21 33   BEGIN  MCW   BASE,BUMP&3                                        J   7  0857  M 840 /89           532
2823 21 34          MZ    @S@,BUMP&2                                         J   7  0864  Y K82 /88           532
2824 21 35          SW    GM                                                 J   4  0871  , M93               532
2825 21 36          CW    ISFSW                                              J   4  0875  ) L10               532
2826 21 37   START  BCE   OUT,000&X1,                    BLANK               J   8  0879  B !57 0|0           532
2827 21 38          MCW   000&X1,CODE#4                                      J   7  0887  M 0|0 K86           532
2828 21 39          LCA   000&X1,WORK#10                                     J   7  0894  L 0|0 K96           533
2829 21 40          SAR   X1                                                 J   4  0901  Q 089               533
2830 21 41          SBR   X3                                                 J   4  0905  H 099               533
2831 21 42          LCA   WORK,000&X2                                        J   7  0909  L K96 0!0           533
2832 21 43          SBR   X2                                                 J   4  0916  H 094               533
2833 21 44          BCE   PASS,CODE-3,/                  BAD STATEMENT       J   8  0920  B J63 K83 /         533
2834 21 45          BCE   PASS,CODE-3,F                                      J   8  0928  B J63 K83 F         534
2835 21 46          MCW   @01@,FNCTR#2                                       J   7  0936  M K98 L00           534
2836 21 47   *  DETERMINE IF IN RUN ONE OF RUN TWO
2837 21 48   SWCHE  B     TEST                                               J   4  0943  B W71               534
2838 21 49   FIND2  BCE   SEEK,000&X1,_                  DELTA 11-7-8        J   8  0947  B 981 0|0 _         534
2839 21 50          CHAIN 5                                                  J                         MACRO
2840                BCE                                                      J   1  0955  B           GEN     534
2841                BCE                                                      J   1  0956  B           GEN     534
2842                BCE                                                      J   1  0957  B           GEN     534
2843                BCE                                                      J   1  0958  B           GEN     535
2844                BCE                                                      J   1  0959  B           GEN     535
2845 21 51          BCE   PASS,000&X1,}       GROUP MARK                     J   8  0960  B J63 0|0 } GMARK   535
2846 21 52          CHAIN 5                                                  J                         MACRO
2847                BCE                                                      J   1  0968  B           GEN     535
2848                BCE                                                      J   1  0969  B           GEN     535
2849                BCE                                                      J   1  0970  B           GEN     535
2850                BCE                                                      J   1  0971  B           GEN     535
2851                BCE                                                      J   1  0972  B           GEN     536
2852 21 53          SBR   X1                                                 J   4  0973  H 089               536
2853 21 54          B     FIND2                                              J   4  0977  B 947               536
2854 21 55   SEEK   BCE   FOUND,000&X1,_                 DELTA 11-7-8        J   8  0981  B 997 0|0 _         536
2855 21 56          SBR   X1                                                 J   4  0989  H 089               536
2856 21 57          B     SEEK                                               J   4  0993  B 981               536
2857 21 58   FOUND  SW    001&X1                                             J   4  0997  , 0|1               536
2858 21 59          CW                                   DUMMY               J   1  1001  )                   537
2859 21 60          CW                                   DUMMY               J   1  1002  )                   537
2860 21 61          CW                                   DUMMY               J   1  1003  )                   537
2861 21 62          SAR   X1                                                 J   4  1004  Q 089               537
2862 21 63          BCE   COPY,004&X1,}     GROUP MK, FIRST CHAR MAY BE DELTA J   8  1008  B |31 0|4 } GMARK   537
2863 21 64          LCA   000&X3,000&X2                                      J   7  1016  L 0?0 0!0           537
2864 21 65          SBR   X2                                                 J   4  1023  H 094               537
2865 21 66          CW    001&X2                                             J   4  1027  ) 0!1               538
2866 21 67   COPY   SBR   X3,2&X1                                            J   7  1031  H 099 0|2           538
2867 21 68   *  SCAN FOR ENDING CHARACTER
2868 21 69   LIMIT  MCW   000&X1,BOX#1                                       J   7  1038  M 0|0 L01           538
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 SEQ PG LIN  LABEL  OP    OPERANDS                                        SFX CT  LOCN  INSTRUCTION TYPE  CARD
2869 21 70          SAR   X1                                               J  4  1045  Q 089              538
2870 21 71          MCW   BOX,*&8                                          J  7  1049  M L01 |63           538
2871 21 72          BCE   RANDM,@@}#*-&),@,0       AT,12-7-8  ETC        J  8  1056  B |75 L09 0        538
2872 21 73          CHAIN 7                                                J                 MACRO
2873                BCE                                                    J  1  1064  B           GEN   538
2874                BCE                                                    J  1  1065  B           GEN   539
2875                BCE                                                    J  1  1066  B           GEN   539
2876                BCE                                                    J  1  1067  B           GEN   539
2877                BCE                                                    J  1  1068  B           GEN   539
2878                BCE                                                    J  1  1069  B           GEN   539
2879                BCE                                                    J  1  1070  B           GEN   539
2880 21 74          B     LIMIT                                            J  4  1071  B |38               539
2881 21 75  RANDM   BCE   SWCHF,BOX,#      EQUAL                          J  8  1075  B Y06 L01 #          540
2882 21 76          BCE   *&5,2&X1,]                  11-5-8  FUNCT STMT   J  8  1083  B |95 0|2 ]        540
2883 21 77          B     *&5                                              J  4  1091  B |99               540
2884 21 78          SW    ISFSW#1                                          J  4  1095  , L10               540
2885 21 79  SWCHA   NOP   BOTM                                           J  4  1099  N J93               540
2886 21 80  *  RANDOMIZING VARIABLE NAME
2887 21 81  MIXUP  SW    002&X1                                           J  4  1103  , 0|2               540
2888 21 82          ZA    000&X3,MOD#4                                     J  7  1107  ? 0?0 L14           540
2889 21 83          A     004&X1,MOD                                       J  7  1114  A 0|4 L14           541
2890 21 84          MZ    @    @,MOD                                       J  7  1121  Y L18 L14           541
2891 21 85          MZ                                                     J  1  1128  Y                   541
2892 21 86          MZ                                                     J  1  1129  Y                   541
2893 21 87          MCW                              3 DIGIT NO. IN MOD    J  1  1130  M                   541
2894 21 88  SUBTR   S     MAX,MOD                                          J  7  1131  S 844 L14           541
2895 21 89          BWZ   SUBTR,MOD,B                                      J  8  1138  V /31 L14 B         541
2896 21 90          A     MAX,MOD                                          J  7  1146  A 844 L14           542
2897 21 91          MZ    @ @,MOD                          BLANK           J  7  1153  Y L19 L14           542
2898 21 92          MCW   X2,HEX2#8                                        J  7  1160  M 094 L27           542
2899 21 93          MCW                              STORES X1 IN HEX1     J  1  1167  M                   542
2900 21 94          MCW   MOD,X1                                           J  7  1168  M L14 089           542
2901 21 95          A     X1                                               J  4  1175  A 089               542
2902 21 96          A     MOD,X1                                           J  7  1179  A L14 089           543
2903 21 97  *  GET TABLE 1 ADDRESS
2904 21 98  BUMP    NOP   000                                              J  4  1186  N 000               543
2905 21 99          SAR   X1                               TAGGED BY A-BIT J  4  1190  Q 089               543
2906 22 00          MCW   @N@,OVFLW                                        J  7  1194  M L28 Z73           543
2907 22 01  CHAIN   BCE   NEW,000&X1,   BLANK  VARBL NOT YET ENDOUNTERED   J  8  1201  B T02 0|0           543
2908 22 02          BCE   OVFLW,000&X1,<   12-6-8                          J  8  1209  B Z73 0|0 <         543
2909 22 03  *  SEE IF DEFINED ALREADY
2910 22 04          MCW   000&X1,X2                                        J  7  1217  M 0|0 094           544
2911 22 05          SAR   X1                                               J  4  1224  Q 089               544
2912 22 06          C     000&X3,000&X2                                    J  7  1228  C 0?0 0!0           544
2913 22 07          BU    CHAIN                                            J  5  1235  B S01 /             544
2914 22 08          C     000&X2,000&X3                                    J  7  1240  C 0!0 0?0           544
2915 22 09          SAR   SWCHC&3                                          J  4  1247  Q S59               544
2916 22 10          BU    CHAIN                                            J  5  1251  B S01 /             544
2917 22 11  SWCHC   MN    0                                                J  4  1256  D 000               545
2918 22 12          SAR   SEND&3                                           J  4  1260  Q S75               545
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 SEQ PG LIN  LABEL  OP    OPERANDS                                          SFX CT  LOCN  INSTRUCTION TYPE  CARD
2919 22 13   RESTR  MCW   HEX2,X2                                          J   7   1264  M L27 094         545
2920 22 14          MCW                                                    J   1   1271  M                 545
2921 22 15   SEND   LCA   000,000&X2                                       J   7   1272  L 000 0!0         545
2922 22 16          SBR   X2                                               J   4   1279  H 094             545
2923 22 17          CW    001&X2                                           J   4   1283  ) 0!1             545
2924 22 18          SBR   X3,1&X1                                         J   7   1287  H 099 0|1         546
2925 22 19          SBR   X1                                               J   4   1294  H 089             546
2926 22 20   GOBAK  B     FIND1     OPERAND SET TO FIND2 FOR RUN2          J   4   1298  B X23             546
2927 22 21   NEW    MCW   NXBTM,X2                                         J   7   1302  M 083 094         546
2928 22 22          MCW   NXBTM,000&X1                                     J   7   1309  M 083 0|0         546
2929 22 23          MCW   000&X3,000&X2                                    J   7   1316  M 0?0 0!0         546
2930 22 24          SBR   X2                                               J   4   1323  H 094             547
2931 22 25   *  CHECK TO SEE IF THERE IS ROOM FOR ADDRESS
2932 22 26          BCE   FULL,000&X2,<                    12-6-8          J   8   1327  B K11 0!0 <       547
2933 22 27          CHAIN 4                                                J                 MACRO
2934                BCE                                                    J   1   1335  B           GEN   547
2935                BCE                                                    J   1   1336  B           GEN   547
2936                BCE                                                    J   1   1337  B           GEN   547
2937                BCE                                                    J   1   1338  B           GEN   547
2938 22 28          SW    000&X3                                           J   4   1339  , 0?0             547
2939 22 29          MCW   000&X3,*&8                                       J   7   1343  M 0?0 T57         548
2940 22 30          BCE   FIXED,@IJKLMN@,0                                J   8   1350  B !31 L34 0       548
2941 22 31          CHAIN 5                                                J                 MACRO
2942                BCE                                                    J   1   1358  B           GEN   548
2943                BCE                                                    J   1   1359  B           GEN   548
2944                BCE                                                    J   1   1360  B           GEN   548
2945                BCE                                                    J   1   1361  B           GEN   548
2946                BCE                                                    J   1   1362  B           GEN   548
2947 22 32          MZ    @A@,VZONE#1                                      J   7   1363  Y L35 L36         549
2948 22 33          BW    FUNST,ISFSW                                      J   8   1370  V W49 L10 1       549
2949 22 34          A     PARAMA&6,WORK5                                   J   7   1378  A 692 853         549
2950 22 35   PACK   C     WORK5,&16000                                     J   7   1385  C 853 L41         549
2951 22 36          BH    PACK2                                            J   5   1392  B U25 U           549
2952 22 37          BW    PACK2,LGSW                                       J   8   1397  V U25 K48 1       550
2953 22 38          CS    332                                              J   4   1405  / 332             550
2954 22 39          CS                                                     J   1   1409  /                 550
2955 22 40          MLC   @MESSAGE 2 - OBJECT PROGRAM TOO LARGE@,270      J   7   1410  M L77 270         550
2956 22 41          W                                                      J   1   1417  2                 550
2957 22 42          SW    FAILSW,LGSW                                      J   7   1418  , 184 K48         550
2958 22 43   PACK2  MCW   WORK5,HOLD5#5                                    J   7   1425  M 853 L82         550
2959 22 44          MCW   X3,HOLD8#8                                       J   7   1432  M 099 L90         551
2960 22 45          MCW                                                    J   1   1439  M                 551
2961 22 46          FPACK HOLD5,NXTOP,X2                                   J                 MACRO
2962                INCLD ZONES                                            J                 MACRO
2963                MN    HOLD5,NXTOP                                      J   7   1440  D L82 086   GEN   551
2964                MN                                                     J   1   1447  D           GEN   551
2965                MN                                                     J   1   1448  D           GEN   551
2966                SAR   *&4                                              J   4   1449  Q U56       GEN   551
2967                MCW   0,X2                                             J   7   1453  M 000 094   GEN   551
2968                MCW   @0@                                              J   4   1460  M L91       GEN   552
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 SEQ PG LIN  LABEL  OP    OPERANDS                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD

2969                A     X2                                        J   4  1464  A 094       GEN    552
2970                MZ    ZONES&1&X2,NXTOP                          J   7  1468  Y KN1 086   GEN    552
2971                CW                                              J   1  1475  )           GEN    552
2972                SBR   *&7                                       J   4  1476  H U86       GEN    552
2973                MZ    ZONES&X2, 0                               J   7  1480  Y KN0 000   GEN    552
2974 22 47          MCW   NXTOP,ADRSS#3                             J   7  1487  M 086 L94          552
2975 22 48   RTN2   CW    0&X3                                      J   4  1494  ) 0?0             553
2976 22 49          CS    299                                       J   4  1498  / 299             553
2977 22 50          FFLIP 0&X3,201,X3,X2,INC,WM                     J                         MACRO
2978                MN    201                                       J   4  1502  D 201       GEN    553
2979                MN                                              J   1  1506  D           GEN    553
2980                SAR   X2                                        J   4  1507  Q 094       GEN    553
2981                SBR   X3, 0&X3                                  J   7  1511  H 099 0?0   GEN    553
2982         )0K073 MCW   0&X3,)0L073#1                             J   7  1518  M 0?0 L95   GEN    553
2983                SAR   X3                                        J   4  1525  Q 099       GEN    554
2984                MCW   )0L073, 2&X2                              J   7  1529  M L95 0!2   GEN    554
2985                SBR   X2                                        J   4  1536  H 094       GEN    554
2986                BW    )0M073, 1&X3                              J   8  1540  V V52 0?1 1 GEN    554
2987                B     )0K073                                    J   4  1548  B V18       GEN    554
2988         )0M073 EQU   *&1                                       J      1552              GEN
2989 22 51          MCW   HOLD8,X3                                  J   7  1552  M L90 099          554
2990 22 52          MCW                                             J   1  1559  M                  554
2991 22 53          MCW   NXTOP,227                                 J   7  1560  M 086 227          555
2992 22 54          MCS   WORK5,219                                 J   7  1567  Z 853 219          555
2993 22 55          BW    SWIX2,ISFSW                               J   8  1574  V V94 L10 1        555
2994 22 56          W                                               J   1  1582  2                  555
2995 22 57          FORMS                                           J                         MACRO
2996                BCV   *&5                                       J   5  1583  B V92 @     GEN    555
2997                B     *&3                                       J   4  1588  B V94       GEN    555
2998                CC    1                                         J   2  1592  F 1         GEN    555
2999 22 58   SWIX2  SW    1&X2                                      J   4  1594  , 0!1             556
3000 22 59          LCA   GM                                        J   4  1598  L M93             556
3001 22 60          SBR   SEND&3                                    J   4  1602  H S75             556
3002 22 61          LCA   ADRSS                                     J   4  1606  L L94             556
3003 22 62          SBR   NXBTM                                     J   4  1610  H 083             556
3004 22 63          SBR   X2                                        J   4  1614  H 094             556
3005 22 64          BCE   *&5,CODE-3,D                              J   8  1618  B W30 K83 D        556
3006 22 65          B     *&5                                       J   4  1626  B W34             557
3007 22 66          CW    4&X2                                      J   4  1630  ) 0!4             557
3008 22 67          MZ    VZONE,2&X2                                J   7  1634  Y L36 0!2          557
3009 22 68          CW    ISFSW                                     J   4  1641  ) L10             557
3010 22 69          B     RESTR                                     J   4  1645  B S64             557
3011 22 70   FUNST  MCW   FNCTR,ADRSS                               J   7  1649  M L00 L94          557
3012 22 71          MCW   @]@                          11-5-8       J   4  1656  M L96             557
3013 22 72          A     &1,FNCTR                                  J   7  1660  A L97 L00          558
3014 22 73          B     RTN2                                      J   4  1667  B U94             558
3015 22 74   TEST   FBCEQ INPUT,CODE-3,1,5,L                        J                         MACRO
3016         TEST   BCE   INPUT, CODE-3, 1                          J   8  1671  B X63 K83 1 GEN    558
3017                BCE   INPUT, CODE-3, 5                          J   8  1679  B X63 K83 5 GEN    558
3018                BCE   INPUT, CODE-3, L                          J   8  1687  B X63 K83 L GEN    558
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 SEQ PG LIN  LABEL  OP    OPERANDS                                        SFX CT  LOCN  INSTRUCTION TYPE  CARD
3019 22 75          MCW   @B@,SWCHA                                       J  7  1695  M L98 |99          559
3020 22 76          MCW   @N@,SWCHB                                       J  7  1702  M L28 X31          559
3021 22 77          MCW   @N@,SWCHF                                       J  7  1709  M L28 Y06          559
3022 22 78          MCW   @N@,SWCHG                                       J  7  1716  M L28 X39          559
3023 22 79  FIND1   BCE   FOUND,000&X1,_              DELTA   11-7-8      J  8  1723  B 997 0|0 _         559
3024 22 80  SWCHB  NOP   RTPAR,000&X1,)              RT PAREN             J  8  1731  N X95 0|0 )         560
3025 22 81  SWCHG  NOP   DOLR1,000&X1,$   DOLLAR, A-OPERAND ALSO MODIFIED J  8  1739  N Z95 0|0 $         560
3026 22 82  DONE   BCE   PASS,000&X1,}                GROUP MARK           J  8  1747  B J63 0|0 } GMARK   560
3027 22 83          SBR   X1                                              J  4  1755  H 089               560
3028 22 84          B     FIND1                                           J  4  1759  B X23               560
3029 22 85  INPUT  MCW   @N@,SWCHA                                       J  7  1763  M L28 |99          560
3030 22 86          MCW   @B@,SWCHB                                       J  7  1770  M L98 X31          561
3031 22 87          MCW   @M@,SWCHF                                       J  7  1777  M L99 Y06          561
3032 22 88          MCW   @B@,SWCHG                                       J  7  1784  M L98 X39          561
3033 22 89          B     FIND1                                           J  4  1791  B X23               561
3034 22 90  RTPAR  MCW   @N@,SWCHA                                       J  7  1795  M L28 |99          561
3035 22 91          B     DONE                                            J  4  1802  B X47               561
3036 22 92  SWCHF  NOP   @B@,SWCHB                                       J  7  1806  N L98 X31          562
3037 22 93          MCW   @B@,SWCHA                                       J  7  1813  M L98 |99          562
3038 22 94          B     MIXUP                                           J  4  1820  B /03               562
3039 22 95  UNDEF  CS    299                                             J  4  1824  / 299               562
3040 22 96          SW    FAILSW                                          J  4  1828  , 184               562
3041 22 97          MCW   @ERROR 10 - UNDEFINED VARIABLE @,230            J  7  1832  M M29 230           562
3042 22 98          FFLIP 0&X3,231,X3,X1,INC,WM                           J                MACRO
3043                MN    231                                             J  4  1839  D 231       GEN   562
3044                MN                                                    J  1  1843  D            GEN   563
3045                SAR   X1                                              J  4  1844  Q 089       GEN   563
3046                SBR   X3, 0&X3                                        J  7  1848  H 099 0?0   GEN   563
3047        )0K076 MCW   0&X3,)0L076#1                                    J  7  1855  M 0?0 M30   GEN   563
3048                SAR   X3                                              J  4  1862  Q 099       GEN   563
3049                MCW   )0L076, 2&X1                                    J  7  1866  M M30 0|2   GEN   563
3050                SBR   X1                                              J  4  1873  H 089       GEN   563
3051                BW    )0M076, 1&X3                                    J  8  1877  V Y89 0?1 1 GEN   564
3052                B     )0K076                                          J  4  1885  B Y55       GEN   564
3053        )0M076 EQU   *&1                                              J     1889              GEN
3054 22 99          MN    CODE,255                                        J  7  1889  D K86 255           564
3055 23 00          MN                                                    J  1  1896  D                   564
3056 23 01          MN                                                    J  1  1897  D                   564
3057 23 02          MCW   @STATEMENT @                                    J  4  1898  M M40               564
3058 23 03          W                                                     J  1  1902  2                   564
3059 23 04          FORMS                                                 J                MACRO
3060                BCV   *&5                                             J  5  1903  B Z12 @     GEN   565
3061                B     *&3                                             J  4  1908  B Z14       GEN   565
3062                CC    1                                               J  2  1912  F 1         GEN   565
3063 23 05          SBR   SEND&3,ZEROZ                                    J  7  1914  H S75 K47           565
3064 23 06          BWZ   CKFIX,231,K                                     J  8  1921  V Z40 231 K         565
3065 23 07  ZNA    MZ    @A@,ZEROZ-1                                     J  7  1929  Y L35 K46           565
3066 23 08          B     RESTR                                           J  4  1936  B S64               565
3067 23 09  CKFIX  SW    231                                             J  4  1940  , 231               566
3068 23 10          MCW   231,*&8                                        J  7  1944  M 231 Z58           566
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 SEQ PG LIN  LABEL  OP    OPERANDS                          SFX CT  LOCN  INSTRUCTION TYPE  CARD
3069 23 11          BCE   ZNA,@OPQR@,       INITIALIZED     J   8  1951  B Z29 M44          566
3070 23 12          CHAIN 3                                 J                    MACRO
3071                BCE                                     J   1  1959  B           GEN    566
3072                BCE                                     J   1  1960  B           GEN    566
3073                BCE                                     J   1  1961  B           GEN    566
3074 23 13          MZ    @K@,ZEROZ-1                       J   7  1962  Y M45 K46          566
3075 23 14          B     RESTR                             J   4  1969  B S64             567
3076 23 15  OVFLW   NOP   FULL                              J   4  1973  N K11             567
3077 23 16          MCW   @B@,OVFLW                         J   7  1977  M L98 Z73         567
3078 23 17          MCW   UPLIM,X1                          J   7  1984  M 848 089         567
3079 23 18          B     CHAIN                             J   4  1991  B S01             567
3080 23 19  DOLR1   SBR   SWCHG&3,DOLR2                     J   7  1995  H X42 !13         567
3081 23 20          MCW   @B@,SWCHA                         J   7  2002  M L98 |99         568
3082 23 21          B     DONE                              J   4  2009  B X47             568
3083 23 22  DOLR2   SBR   SWCHG&3,DOLR1                     J   7  2013  H X42 Z95         568
3084 23 23          MCW   @N@,SWCHA                         J   7  2020  M L28 |99         568
3085 23 24          B     DONE                              J   4  2027  B X47             568
3086 23 25  FIXED   MZ    @J@,VZONE                         J   7  2031  Y M46 L36         568
3087 23 26          BW    FUNST,ISFSW                       J   8  2038  V W49 L10 1       569
3088 23 27          A     PARAMA&4,WORK5                    J   7  2046  A 690 853         569
3089 23 28          B     PACK                              J   4  2053  B T85             569
3090 23 29  OUT     MLC   SAVE2,X1                          J   7  2057  M 856 089         569
3091 23 30          CS    0&X2                              J   4  2064  / 0!0             569
3092 23 31          CS                                      J   1  2068  /                 569
3093 23 32          SBR   TCLEAR,SYS4                      J   7  2069  H 710 M99         569
3094 23 33  SWCHD   NOP   DUN                               J   4  2076  N J47             570
3095 23 34          SW    GM                                J   4  2080  , M93             570
3096 23 35          MCW   @B@,SWCHD                        J   7  2084  M L98 !76         570
3097 23 36          MCW   @)@,SWCHC                        J   7  2091  M M47 S56         570
3098 23 37          MCW   @N@,SWCHE                        J   7  2098  M L28 943         570
3099 23 38          MCW   @N@,SWCHA                        J   7  2105  M L28 |99         570
3100 23 39          SBR   CHAIN&3,UNDEF                    J   7  2112  H S04 Y24         571
3101 23 40          SBR   GOBAK&3,FIND2                    J   7  2119  H T01 947         571
3102 23 41          CS    0&X2                              J   4  2126  / 0!0             571
3103 23 42          SBR   X2,1&X1                           J   7  2130  H 094 0|1         571
3104 23 43          SBR   SAVE2                             J   4  2137  H 856             571
3105 23 44          CC    J                                 J   2  2141  F J               571
3106 23 45          B     START                             J   4  2143  B 879             571
3107 23 46  DUN     BSS   333,C                             J   5  2147  B 333 C           572
3108 23 47          MCW   @VARBLQUIN@,110                   J   7  2152  M M56 110         572
3109 34 48          B     MONTOR                            J   4  2159  B 769             572
3110 23 49  PASS    MVDWN X3,X2                             J                    MACRO
3111        PASS    LCA   0&X3,0&X2                         J   7  2163  L 0?0 0!0  GEN    572
3112                SAR   X3                                J   4  2170  Q 099      GEN    572
3113                C     0&X2                              J   4  2174  C 0!0      GEN    572
3114                SAR   X2                                J   4  2178  Q 094      GEN    572
3115 23 50          MCW   X3,X1                           J   7  2182  M 099 089         573
3116 23 51          B     START                             J   4  2189  B 879             573
3117 23 52  BOTM    SBR   X1,1&X1                          J   7  2193  H 089 0|1         573
3118 23 53          SBR   X3,1&X3                          J   7  2200  H 099 0?1         573
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 SEQ PG LIN  LABEL   OP    OPERANDS                                          SFX CT  LOCN  INSTRUCTION TYPE  CARD
3119 23 54           B     FIND1                                             J   4  2207  B X23            573
3120 23 55   FULL    FQUIT                                                   J                MACRO
3121         FULL    CS    332                                               J   4  2211  / 332        GEN   573
3122                 CS                                                      J   1  2215  /            GEN   573
3123                 CC    1                                                 J   2  2216  F 1          GEN   574
3124                 MCW   @MESSAGE 2 - OBJECT PROGRAM TOO LARGE@,270         J   7  2218  M M92 270    GEN   574
3125                 W                                                       J   1  2225  2            GEN   574
3126                 CC    1                                                 J   2  2226  F 1          GEN   574
3127                 BCE   *&6,MONTOR,1                                      J   8  2228  B K41 769 1 GEN   574
3128                 RWD   1                                                 J   5  2236  U %U1 R      GEN   574
3129                 H     *-3                                               J   4  2241  . K41        GEN   574
3130 23 56   ZEROZ   DCW   @000@                                            J   3  2247                     575
3131 23 57   LGSW    DC    #1                                                J   1  2248                     575
3132 23 58           ORG   *                                                 J            2249
3133                 LTORG *    WVS: AUTOCODER SHOULDN'T LOAD INCLD AT ORG   J            2249
3134                 DCW   #1                                                J   1  2249             GEN   575
3135         ZONES   DC    9                                                 J   1  2250             GEN   575
3136                 DCW   @9Z9R9I99ZZZRZIZ9RZRRRIR9IZIRIII@                 J  31  2281             GEN   575
             *          LTORG*                                                                        GEN
                     DCW   @S@                                               J   1  2282             LIT   575
             CODE J  DCW   #04                                               J   4  2286             AREA  576
             WORK J  DCW   #10                                               J  10  2296             AREA  576
                     DCW   @01@                                              J   2  2298             LIT   576
             FNCTRJ  DCW   #02                                               J   2  2300             AREA  576
             BOX  J  DCW   #01                                               J   1  2301             AREA  576
                     DCW   @@}#*-&),@                                        J   8  2309             LIT   576
             ISFSWJ  DCW   #01                                               J   1  2310             AREA  576
             MOD  J  DCW   #04                                               J   4  2314             AREA  577
                     DCW   @    @                                            J   4  2318             LIT   577
                     DCW   @ @                                               J   1  2319             LIT   577
             HEX2 J  DCW   #08                                               J   8  2327             AREA  577
                     DCW   @N@                                               J   1  2328             LIT   577
                     DCW   @IJKLMN@                                          J   6  2334             LIT   577
                     DCW   @A@                                               J   1  2335             LIT   577
             VZONEJ  DCW   #01                                               J   1  2336             AREA  578
                     DCW   &16000                                            J   5  2341             LIT   578
                     DCW   @MESSAGE 2 - OBJECT PROGRAM TOO LARGE@            J  36  2377             LIT   579
             HOLD5J  DCW   #05                                               J   5  2382             AREA  580
             HOLD8J  DCW   #08                                               J   8  2390             AREA  580
                     DCW   @0@                                               J   1  2391             LIT   580
             ADRSSJ  DCW   #03                                               J   3  2394             AREA  580
             )0L073  DCW   #01                                               J   1  2395             AREA  580
                     DCW   @]@                                               J   1  2396             LIT   580
                     DCW   &1                                                J   1  2397             LIT   580
                     DCW   @B@                                               J   1  2398             LIT   581
                     DCW   @M@                                               J   1  2399             LIT   581
                     DCW   @ERROR 10 - UNDEFINED VARIABLE @                  J  30  2429             LIT   581
             )0L076  DCW   #01                                               J   1  2430             AREA  581
                     DCW   @STATEMENT @                                      J  10  2440             LIT   582
                     DCW   @OPQR@                                            J   4  2444             LIT   582
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SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
				DCW	@K@	J	1	2445		LIT	582
				DCW	@J@	J	1	2446		LIT	582
				DCW	@)@	J	1	2447		LIT	582
				DCW	@VARBLQUIN@	J	9	2456		LIT	582
				DCW	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@	J	36	2492		LIT	583
3137	23	59	GM	DC	@}@ G-M	J	1	2493		GMARK	583
3138	23	60		DC	@ @ SPACE FOR FANCY SCAN	J	5	2498			584
3139	23	61	SYS4	DCW	@}@ WORK AND SYSTEM GROUP MARK	J	1	2499		GMARK	584
3140	23	62		XFR	BEGIN	J			B 857		585

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 SEQ PG LIN  LABEL   OP     OPERANDS                                                SFX CT  LOCN  INSTRUCTION TYPE  CARD
3141 23 63           JOB    1401 FORTRAN   VARIABLES PHASE FIVE                     J
3142 23 64    110    DCW    @VARBL QUIN@                                            J  10  0110                     588
3143 23 65           ORG    PHSE3                                                   J            0857
3144 23 66    CKREF  CC     J                                                       J   2  0857  F J               589
3145 23 67           MCW    X1,KEEP2#3                                              J   7  0859  M 089 |79         589
3146 23 68           MCW    PARAMA&2,X2                                             J   7  0866  M 688 094         589
3147 23 69    SCAN   BCE    ISGM,0&X2,}                      12-7-8                 J   8  0873  B 945 0!0 } GMARK 589
3148 23 70           SBR    X2                                                      J   4  0881  H 094             589
3149 23 71           C      X2,NXBTM                                                J   7  0885  C 094 083         589
3150 23 72           BU     SCAN                                                    J   5  0892  B 873 /           590
3151 23 73           MCW    KEEP2,X1                                                J   7  0897  M |79 089         590
3152 23 74           FENDX  D,,,XBEGIN,XBEGIN,XBEGIN,SAUCEK-2,CONST ONE             J                       MACRO
3153                 BSS    333,D                                                   J   5  0904  B 333 D     GEN   590
3154                 SBR    INITAP&6,XBEGIN                                         J   7  0909  H 786 838   GEN   590
3155                 SBR    BCLEAR                                                  J   4  0916  H 833       GEN   590
3156                 SBR    INITXT&3,XBEGIN                                         J   7  0920  H 796 838   GEN   590
3157                 SBR    TCLEAR,SAUCEK-2                                         J   7  0927  H 710 O98   GEN   591
3158                 LCA    @CONST ONE@,110                                         J   7  0934  L |88 110   GEN   591
3159                 B      MONTER                                                  J   4  0941  B 700       GEN   591
3160 23 75    ISGM   BW     UNREF,0&X2                                              J   8  0945  V 965 0!0 1       591
3161 23 76           MN     0&X2                                                    J   4  0953  D 0!0             591
3162 23 77           SBR    X2                                                      J   4  0957  H 094             591
3163 23 78           B      SCAN                                                    J   4  0961  B 873             591
3164 23 79    UNREF  CS     299                                                     J   4  0965  / 299             592
3165 23 80           MCW    @ERROR 11 - UNREFERENCED VARIABLE @,233                 J   7  0969  M /21 233         592
3166 23 81           MCW    X2,X3                                                   J   7  0976  M 094 099         592
3167 23 82    NOPR   NOP    1&X3                                                    J   4  0983  N 0?1             592
3168 23 83           SAR    X3                                                      J   4  0987  Q 099             592
3169 23 84           BW     FLIP,2&X3                                               J   8  0991  V |03 0?2 1       592
3170 23 85           B      NOPR                                                    J   4  0999  B 983             592
3171 23 86    FLIP   FFLIP  1&X3,234,X3,X1,INCL,WM                                  J                       MACRO
3172          FLIP   MN     234                                                     J   4  1003  D 234       GEN   593
3173                 MN                                                             J   1  1007  D           GEN   593
3174                 SAR    X1                                                      J   4  1008  Q 089       GEN   593
3175                 SBR    X3, 1&X3                                                J   7  1012  H 099 0?1   GEN   593
3176          )0K081 MCW    0&X3,)0L081#1                                           J   7  1019  M 0?0 /22   GEN   593
3177                 SAR    X3                                                      J   4  1026  Q 099       GEN   593
3178                 MCW    )0L081, 2&X1                                            J   7  1030  M /22 0|2   GEN   593
3179                 SBR    X1                                                      J   4  1037  H 089       GEN   594
3180                 BW     )0M081, 1&X3                                            J   8  1041  V |53 0?1 1 GEN   594
3181                 B      )0K081                                                  J   4  1049  B |19       GEN   594
3182          )0M081 EQU    *&1                                                     J      1053              GEN
3183 23 87           W                                                              J   1  1053  2               594
3184 23 88           FORMS                                                          J                       MACRO
3185                 BCV    *&5                                                     J   5  1054  B |63 @     GEN   594
3186                 B      *&3                                                     J   4  1059  B |65       GEN   594
3187                 CC     1                                                       J   2  1063  F 1         GEN   594
3188 23 89           MN     0&X2                                                    J   4  1065  D 0!0             595
3189 23 90           SAR    X2                                                      J   4  1069  Q 094             595
3190 23 91           B      SCAN                                                    J   4  1073  B 873             595
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 SEQ PG LIN  LABEL   OP    OPERANDS                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD

3191 23 92           LTORG *                                          J          1077
             KEEP2J  DCW   #03                                       J   3  1079             AREA  595
                     DCW   @CONST ONE@                               J   9  1088             LIT   595
                     DCW   @ERROR 11 - UNREFERENCED VARIABLE @       J  33  1121             LIT   596
             )0L081  DCW   #01                                       J   1  1122             AREA  596
3192 23 93           DCW   @}@                    SYSTEM GROUP MARK  J   1  1123             GMARK 596
3193 23 94           XFR   CKREF                                      J          B 857            597
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 SEQ PG LIN  LABEL  OP    OPERANDS                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD
3194 23 95          JOB   1401 FORTRAN   CONSTANT PHASE ONE         J
3195 23 96          FBEGN CONST ONE,X1,,X2,R,X3,R,K                 J                      MACRO
3196                SFX   K                                         K                      GEN
3197          110   DCW   @CONST ONE@                               K   9  0110            GEN    600
3198          X1    EQU   089                                       K      0089            GEN
3199          X2    EQU   094                                       K      0094            GEN
3200          094   DCW   000                                       K   3  0094            GEN    601
3201          096   DC    00                                        K   2  0096            GEN    601
3202          X3    EQU   099                                       K      0099            GEN
3203          099   DCW   000                                       K   3  0099            GEN    601
3204          100   DC    0                                         K   1  0100            GEN    601
3205 23 97          ORG   XBEGIN                                    K          0838
3206 23 98    TRACK EQU   200                                       K      0200
3207 23 99    NXBTM EQU   083                                       K      0083
3208 24 00    INITL CS    TRACK&99                                  K   4  0838  / 299             602
3209 24 01          SW    GM                                        K   4  0842  , L49             602
3210 24 02          SW    TRACK                                     K   4  0846  , 200             602
3211 24 03          MCW   PARAMA&2,X2                              K   7  0850  M 688 094          602
3212 24 04          MN    000&X2                                    K   4  0857  D 0!0             602
3213 24 05          MN                                              K   1  0861  D                 602
3214 24 06          SAR   X2                                        K   4  0862  Q 094             602
3215 24 07          SBR   NXBTM                                     K   4  0866  H 083             603
3216 24 08          LCA   GM, 1&X2                                  K   7  0870  L L49 0!1         603
3217 24 09    START BCE   OUT,000&X1,    BLANK                      K   8  0877  B J53 0|0         603
3218 24 10          MCW   000&X1,CODE#4                             K   7  0885  M 0|0 L53         603
3219 24 11          LCA   000&X1,WORK#10                           K   7  0892  L 0|0 L63         603
3220 24 12          SAR   X1                                        K   4  0899  Q 089             603
3221 24 13          SBR   HEX3#3                                    K   4  0903  H L66             604
3222 24 14          SBR   KILL#3,0&X2                              K   7  0907  H L69 0!0         604
3223 24 15          LCA   WORK,000&X2                              K   7  0914  L L63 0!0         604
3224 24 16          SBR   X2                                        K   4  0921  H 094             604
3225 24 17          MCW   CODE-3,*&8                               K   7  0925  M L50 939         604
3226 24 18          BCE   TRYIT,@UPL3165DER@,0                      K   8  0932  B 972 L79 0       604
3227 24 19          CHAIN 9                                         K                      MACRO
3228                BCE                                           K   1  0940  B                 604
3229                BCE                                           K   1  0941  B                 605
3230                BCE                                           K   1  0942  B                 605
3231                BCE                                           K   1  0943  B                 605
3232                BCE                                           K   1  0944  B                 605
3233                BCE                                           K   1  0945  B                 605
3234                BCE                                           K   1  0946  B                 605
3235                BCE                                           K   1  0947  B                 605
3236                BCE                                           K   1  0948  B                 606
3237 24 20          MVDWN X1,X2                                   K                      MACRO
3238                LCA   0&X1,0&X2                               K   7  0949  L 0|0 0!0  GEN    606
3239                SAR   X1                                      K   4  0956  Q 089       GEN    606
3240                C     0&X2                                    K   4  0960  C 0!0       GEN    606
3241                SAR   X2                                      K   4  0964  Q 094       GEN    606
3242 24 21          B     START                                   K   4  0968  B 877             606
3243 24 22    TRYIT SBR   X3,TABLE-4                              K   7  0972  H 099 L07         606
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 SEQ PG LIN  LABEL  OP    OPERANDS                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD
3244 24 23          MCW   CODE-3,SCAN&7                             K   7  0979  M L50 993         607
3245 24 24   SCAN   BCE   SETUP,004&X3,0      D-CHAR MODIFIED        K   8  0986  B |02 0?4 0       607
3246 24 25          SBR   X3                                        K   4  0994  H 099             607
3247 24 26          B     SCAN                                      K   4  0998  B 986             607
3248 24 27   SETUP  MCW   006&X3,CNTRL#2                           K   7  1002  M 0?6 L81         607
3249 24 28          MCW   CNTRL-1,TEST2&7                           K   7  1009  M L80 |38         607
3250 24 29   TEST1  BCE   GUTS,CNTRL,2                             K   8  1016  B |67 L81 2       608
3251 24 30          A     @1@,CNTRL                                 K   7  1024  A L82 L81         608
3252 24 31   TEST2  BCE   BUMP1,0&X1,0                            K   8  1031  B |55 0|0 0       608
3253 24 32          BCE   GUTS,0&X1,}                 GM            K   8  1039  B |67 0|0 } GMARK 608
3254 24 33          SBR   X1                                        K   4  1047  H 089             608
3255 24 34          B     TEST2                                     K   4  1051  B |31             608
3256 24 35   BUMP1  MN    0&X1                                      K   4  1055  D 0|0             609
3257 24 36          SAR   X1                                        K   4  1059  Q 089             609
3258 24 37          B     TEST1                                     K   4  1063  B |16             609
3259 24 38   GUTS   BWZ   MAYBE,000&X1,3  NUMBER,EQUAL SIGN,WORD MK K   8  1067  V |91 0|0 3       609
3260 24 39          SBR   X1                                        K   4  1075  H 089             609
3261 24 40          BCE   SUBSC,1&X1,$                             K   8  1079  B /76 0|1 $       609
3262 24 41          B     GUTS                                      K   4  1087  B |67             609
3263 24 42   MAYBE  BCE   PASS,000&X1,}       12-7-8                K   8  1091  B J95 0|0 } GMARK 610
3264 24 43          SBR   X1                                        K   4  1099  H 089             610
3265 24 44          BCE   GUTS,001&X1,#                            K   8  1103  B |67 0|1 #       610
3266 24 45          BCE   GUTS,1&X1,@                              K   8  1111  B |67 0|1 @       610
3267 24 46          MCW   002&X1,BOX&1                            K   7  1119  M 0|2 L48         610
3268 24 47          MCW                                           K   1  1126  M                 610
3269 24 48          MCW                                           K   1  1127  M                 610
3270 24 49          SAR   X1                                        K   4  1128  Q 089             611
3271 24 50          MCW   BOX&1,*&8                               K   7  1132  M L48 /46         611
3272 24 51          BCE   RUCON,@)}@.#%$,*-&@,0       RT PAREN,GROUP MARK K   8  1139  B S16 L93 0       611
3273 24 52          CHAIN 10                                      K                             MACRO
3274                BCE                                           K   1  1147  B                 GEN   611
3275                BCE                                           K   1  1148  B                 GEN   611
3276                BCE                                           K   1  1149  B                 GEN   611
3277                BCE                                           K   1  1150  B                 GEN   611
3278                BCE                                           K   1  1151  B                 GEN   612
3279                BCE                                           K   1  1152  B                 GEN   612
3280                BCE                                           K   1  1153  B                 GEN   612
3281                BCE                                           K   1  1154  B                 GEN   612
3282                BCE                                           K   1  1155  B                 GEN   612
3283                BCE                                           K   1  1156  B                 GEN   612
3284 24 53          BCE   PASS,1&X1,}                 GM            K   8  1157  B J95 0|1 } GMARK 612
3285 24 54   BMPX1  SBR   X1,1&X1                                   K   7  1165  H 089 0|1         613
3286 24 55          B     GUTS                                      K   4  1172  B |67             613
3287 24 56   SUBSC  NOP   SUB2                                      K   4  1176  N /98             613
3288 24 57          MCW   @B@,SUBSC                                K   7  1180  M L94 /76         613
3289 24 58          MCW   BLANK,SUBSW&4                            K   7  1187  M N04 !42         613
3290 24 59          B     GUTS                                      K   4  1194  B |67             613
3291 24 60   SUB2   MCW   @N@,SUBSC                                K   7  1198  M L95 /76         614
3292 24 61          MCW   @/@,SUBSW&4                              K   7  1205  M L96 !42         614
3293 24 62          B     GUTS                                      K   4  1212  B |67             614
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 SEQ PG LIN  LABEL  OP    OPERANDS                                        SFX CT  LOCN  INSTRUCTION TYPE  CARD
3294 24 63   RUCON  BCE   BAKUP,3&X1,.                                    K   8  1216  B K32 0|3 .       614
3295 24 64          MCW   BOX-1,*&8                                       K   7  1224  M L46 S38         614
3296 24 65          BCE   BMPX1,@?ABCDEFGHI!JKLMNOPQR@,0      &ZERO,- ZERO K   8  1231  B /65 M16 0       615
3297 24 66          CHAIN 19                                              K                MACRO
3298                BCE                                                 K   1  1239  B           GEN   615
3299                BCE                                                 K   1  1240  B           GEN   615
3300                BCE                                                 K   1  1241  B           GEN   615
3301                BCE                                                 K   1  1242  B           GEN   615
3302                BCE                                                 K   1  1243  B           GEN   615
3303                BCE                                                 K   1  1244  B           GEN   615
3304                BCE                                                 K   1  1245  B           GEN   616
3305                BCE                                                 K   1  1246  B           GEN   616
3306                BCE                                                 K   1  1247  B           GEN   616
3307                BCE                                                 K   1  1248  B           GEN   616
3308                BCE                                                 K   1  1249  B           GEN   616
3309                BCE                                                 K   1  1250  B           GEN   616
3310                BCE                                                 K   1  1251  B           GEN   616
3311                BCE                                                 K   1  1252  B           GEN   617
3312                BCE                                                 K   1  1253  B           GEN   617
3313                BCE                                                 K   1  1254  B           GEN   617
3314                BCE                                                 K   1  1255  B           GEN   617
3315                BCE                                                 K   1  1256  B           GEN   617
3316                BCE                                                 K   1  1257  B           GEN   617
3317 24 67          BCE   CKIF,3&X1,)                                   K   8  1258  B J83 0|3 )       617
3318 24 68   SET    SW    003&X1                                        K   4  1266  , 0|3             618
3319 24 69          MCW   HEX3,X3                                       K   7  1270  M L66 099         618
3320 24 70          LCA   000&X3,000&X2                                 K   7  1277  L 0?0 0!0         618
3321 24 71          SBR   X2                                            K   4  1284  H 094             618
3322 24 72          MCW   @<@,3&X1                    12-6-8          K   7  1288  M M17 0|3         618
3323 24 73          SBR   KLOBR&6,3&X1                                 K   7  1295  H J17 0|3         618
3324 24 74          CW    001&X2                                        K   4  1302  ) 0!1             619
3325 24 75          LCA   @_@,000&X2          11-7-8                  K   7  1306  L M18 0!0         619
3326 24 76          SBR   X2                                            K   4  1313  H 094             619
3327 24 77          CW    001&X2                                        K   4  1317  ) 0!1             619
3328 24 78          CW    ODDSW                                         K   4  1321  ) N44             619
3329 24 79          S     XPONT#2                                       K   4  1325  S M20             619
3330 24 80          S     COUNT#3                                       K   4  1329  S M23             619
3331 24 81          S     TOTAL                                         K   4  1333  S M28             620
3332 24 82          MCW   @,@,STODD                                     K   7  1337  M M24 K64         620
3333 24 83          MCW   @N@,SWCHX                                     K   7  1344  M L95 T90         620
3334 24 84          MCW   @B@,SWCHZ                                     K   7  1351  M L94 U04         620
3335 24 85          SBR   SWCHA&3,A                                     K   7  1358  H K75 L41         620
3336 24 86          SBR   SWCHS&3,S                                     K   7  1365  H K46 L42         620
3337 24 87          SBR   X1,2&X1                                       K   7  1372  H 089 0|2         621
3338 24 88   NORML  MCW   000&X1,BOX                                     K   7  1379  M 0|0 L47         621
3339 24 89          SAR   X1                                            K   4  1386  Q 089             621
3340 24 90   SWCHX  NOP   &1,XPONT                                       K   7  1390  N M25 M20         621
3341 24 91          A     &1,TOTAL#3                                    K   7  1397  A M25 M28         621
3342 24 92   SWCHZ  BCE   NORML,BOX,0     PASSES BY LEADING ZEROS      K   8  1404  B T79 L47 0       622
3343 24 93          BCE   SWCHS,BOX,.                                   K   8  1412  B K43 L47 .       622
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 SEQ PG LIN  LABEL  OP    OPERANDS                                    SFX CT  LOCN  INSTRUCTION TYPE  CARD
3344 24 94          BCE   SWCHA,SWCHZ,B      BRANCHES ON FIRST SIGNIF CHAR  K  8  1420  B K72 U04 B       622
3345 24 95          A     &1,COUNT                                    K  7  1428  A M25 M23          622
3346 24 96   TEST   BCE   CNLFT,BOX,#                                 K  8  1435  B X20 L47 #        622
3347 24 97          BCE   *&9,BOX,@                                   K  8  1443  B U59 L47 @        623
3348 24 98          BWZ   NORML,BOX,2    NO ZONE                    K  8  1451  V T79 L47 2        623
3349 24 99   CR     C     SWCHA&3,NOPAD                               K  7  1459  C K75 L45         623
3350 25 00   *  DECIMAL POINT SENDS THE ADDRESS OF NOP TO SWCHA&3
3351 25 01   *  CANNOT USE ADDRESS CONSTANT
3352 25 02          BU    FIXED                                       K  5  1466  B Z31 /           623
3353 25 03          BWZ   MARK,XPONT,B                                K  8  1471  V U86 M20 B       623
3354 25 04          A     &1,XPONT                                    K  7  1479  A M25 M20         624
3355 25 05   MARK   SW    002&X1                                      K  4  1486  , 0|2             624
3356 25 06          BCE   ODDBL,2&X1,.                               K  8  1490  B Y22 0|2 .       624
3357 25 07   CKTAL  BCE   TAIL,BOX,E                                  K  8  1498  B Y37 L47 E       624
3358 25 08   FLOAT  C     TOTAL,&01                                   K  7  1506  C M28 M30         624
3359 25 09          NOP   SYNTX                                       K  4  1513  N X84             624
3360 25 10          NOP                                             K  1  1517  N                 624
3361 25 11          C     COUNT,&000                                  K  7  1518  C M23 M33         625
3362 25 12          BU    RTLFT                                       K  5  1525  B V49 /           625
3363 25 13   LDZER  LCA   @?0?@,0&X2          12-0,0,12-0           K  7  1530  L M36 0!0         625
3364 24 14          SBR   X2                                          K  4  1537  H 094             625
3365 25 15          CW    001&X2                                      K  4  1541  ) 0!1             625
3366 25 16          B     BOTM2                                       K  4  1545  B J00             625
3367 25 17   RTLFT  MCW   X1,HEX1#3                                   K  7  1549  M 089 M39         625
3368 25 18          BW    *&8,ODDSW                                   K  8  1556  V V71 N44 1       626
3369 25 19          LCA   000&X3,001&X3                               K  7  1564  L 0?0 0?1         626
3370 25 20          MCW   RIGHT#3,X1                                  K  7  1571  M M42 089         626
3371 25 21          MCW   PARAMA&6,PRESZ#2                            K  7  1578  M 692 M44         626
3372 25 22          A     &2,PRESZ                                    K  7  1585  A M45 M44         626
3373 25 23          SBR   X3,TRACK-2                                  K  7  1592  H 099 198         627
3374 25 24          SW    TRACK                                       K  4  1599  , 200             627
3375 25 25   TWIST  MCW   000&X1,BOX                                  K  7  1603  M 0|0 L47         627
3376 25 26          SAR   X1                                          K  4  1610  Q 089             627
3377 25 27          MCW   BOX,002&X3                                  K  7  1614  M L47 0?2         627
3378 25 28          SBR   X3                                          K  4  1621  H 099             627
3379 25 29          BWZ   PHEW,001&X1,1       WORD MARK               K  8  1625  V W52 0|1 1       628
3380 25 30          S     &1,PRESZ                                    K  7  1633  S M25 M44         628
3381 25 31          C     PRESZ,&00                                   K  7  1640  C M44 M47         628
3382 25 32          BU    TWIST                                       K  5  1647  B W03 /           628
3383 25 33   PHEW   SBR   X3,1&X3                                    K  7  1652  H 099 0?1         628
3384 25 34   PHEW1  BCE   *&5,0&X3,0                                 K  8  1659  B W71 0?0 0       629
3385 25 35          B     XEUNT                                       K  4  1667  B W83            629
3386 25 36          MN    0&X3                                        K  4  1671  D 0?0             629
3387 25 37          SAR   X3                                          K  4  1675  Q 099             629
3388 25 38          B     PHEW1                                       K  4  1679  B W59             629
3389 25 39   XEUNT  MN    0&X3                                        K  4  1683  D 0?0             629
3390 25 40          SAR   X3                                          K  4  1687  Q 099             629
3391 25 41          MCW   XPONT,3&X3                                  K  7  1691  M M20 0?3         630
3392 25 42          MZ    @A@,1&X3                                    K  7  1698  Y M48 0?1         630
3393 25 43          LCA   003&X3,000&X2                               K  7  1705  L 0?3 0!0         630
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 SEQ PG LIN  LABEL  OP     OPERANDS                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD
3394 25 44          SBR    X2                                        K   4  1712  H 094            630
3395 25 45          B      BOTM                                      K   4  1716  B !89            630
3396 25 46   CNLFT  CS     332                                       K   4  1720  / 332            630
3397 25 47          CS                                               K   1  1724  /                630
3398 25 48          SW     FAILSW                                    K   4  1725  , 184            631
3399 25 49          MN     CODE,256                                  K   7  1729  D L53 256        631
3400 25 50          CHAIN  2                                         K                  MACRO
3401                MN                                               K   1  1736  D          GEN   631
3402                MN                                               K   1  1737  D          GEN   631
3403 25 51          MCW    @EQUAL SIGN, STATEMENT @                  K   4  1738  M M70            631
3404 25 52          MCW    @ERROR 41 - CONSTANT LEFT SIDE OF @       K   4  1742  M N03            631
3405 25 53          W                                                K   1  1746  2                631
3406 25 54          FORMS                                            K                  MACRO
3407                BCV    *&5                                       K   5  1747  B X56 @     GEN   632
3408                B      *&3                                       K   4  1752  B X58       GEN   632
3409                CC     1                                         K   2  1756  F 1         GEN   632
3410 25 55          MCW    KILL,X2                                   K   7  1758  M L69 094        632
3411 25 56          MCW    BLANK#1,0&X2                              K   7  1765  M N04 0!0        632
3412 25 57          C      0&X1                                      K   4  1772  C 0|0            632
3413 25 58          SAR    X1                                        K   4  1776  Q 089            632
3414 25 59          B      START                                     K   4  1780  B 877            633
3415 25 60   SYNTX  FTMSG  44,CONSTANT SYNTAX,CODE,17                K                  MACRO
3416         SYNTX  CS     332                                       K   4  1784  / 332       GEN   633
3417                CS                                               K   1  1788  /           GEN   633
3418                SW     FAILSW                                    K   4  1789  , 184       GEN   633
3419                MN     CODE,224&17                               K   7  1793  D L53 241   GEN   633
3420                MN                                               K   1  1800  D           GEN   633
3421                MN                                               K   1  1801  D           GEN   633
3422                MCW    @ERROR 44 - CONSTANT SYNTAX, STATEMENT @  K   4  1802  M N42       GEN   634
3423                W                                                K   1  1806  2           GEN   634
3424                BCV    *&5                                       K   5  1807  B Y16 @     GEN   634
3425                B      *&3                                       K   4  1812  B Y18       GEN   634
3426                CC     1                                         K   2  1816  F 1         GEN   634
3427 25 61          B      LDZER                                     K   4  1818  B V30            634
3428 25 62   ODDBL  MCW    @0@,2&X1                                  K   7  1822  M N43 0|2        634
3429 25 63          SW     ODDSW#1                                   K   4  1829  , N44            635
3430 25 64          B      CKTAL                                     K   4  1833  B U98            635
3431 25 65   TAIL   ZA     &0,BUMP#2                                 K   7  1837  ? N45 N47        635
3432 25 66          BWZ    FLIP,000&X1,2       NO ZONE               K   8  1844  V Y63 0|0 2      635
3433 25 67          MZ     000&X1,BUMP                               K   7  1852  Y 0|0 N47        635
3434 25 68   *                             ZONE RESPECTIVELY
3435 25 69          SAR    X1                                        K   4  1859  Q 089            635
3436 25 70   FLIP   MN     000&X1                                    K   4  1863  D 0|0            635
3437 25 71          SAR    X1                                        K   4  1867  Q 089            636
3438 25 72          C      0&X1,@Z@                                  K   7  1871  C 0|0 N48        636
3439 25 73          BL     UNITS               NUMERIC, TWO DIGIT EXPON K   5  1878  B Y94 T          636
3440 25 74          MN     001&X1,BUMP                               K   7  1883  D 0|1 N47        636
3441 25 75          B      BUMPR                                     K   4  1890  B Z12            636
3442 25 76   UNITS  MN     001&X1,BUMP-1                             K   7  1894  D 0|1 N46        636
3443 25 77          MN     000&X1,BUMP                               K   7  1901  D 0|0 N47        637
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 SEQ PG LIN  LABEL  OP    OPERANDS                                        SFX CT  LOCN  INSTRUCTION TYPE  CARD
3444 25 78          SAR   X1                                               K  4  1908  Q 089              637
3445 25 79   BUMPR  A     BUMP,XPONT                                       K  7  1912  A N47 M20          637
3446 25 80          MN    0&X1                                             K  4  1919  D 0|0              637
3447 25 81          SAR   X1                                               K  4  1923  Q 089              637
3448 25 82          B     FLOAT                                            K  4  1927  B V06              637
3449 25 83   FIXED  C     COUNT,&000                                       K  7  1931  C M23 M33          637
3450 25 84          BU    LFTRT                                            K  5  1938  B Z62 /            638
3451 25 85          LCA   @ 0@,000&X2      BLANK, ZERO                    K  7  1943  L N50 0!0          638
3452 25 86          SBR   X2                                               K  4  1950  H 094              638
3453 25 87          CW    001&X2                                           K  4  1954  ) 0!1              638
3454 25 88          B     BOTM2                                            K  4  1958  B J00              638
3455 25 89   LFTRT  MCW   X1,HEX1                                          K  7  1962  M 089 M39          638
3456 25 90          MCW   RIGHT,X3                                         K  7  1969  M M42 099          638
3457 25 91          SW    0&X3                                             K  4  1976  , 0?0              639
3458 25 92          SBR   X3,TRACK&99                                      K  7  1980  H 099 299          639
3459 25 93          MCW   PARAMA&4,PRESZ                                  K  7  1987  M 690 M44          639
3460 25 94   TURN   MCW   002&X1,BOX                                       K  7  1994  M 0|2 L47          639
3461 25 95          SAR   X1                                               K  4  2001  Q 089              639
3462 25 96          MCW   BOX,000&X3                                       K  7  2005  M L47 0?0          639
3463 25 97          SBR   X3                                               K  4  2012  H 099              640
3464 25 98          BWZ   WOW,001&X1,1       WORD MARK                     K  8  2016  V !43 0|1 1        640
3465 25 99          S     &1,PRESZ                                         K  7  2024  S M25 M44          640
3466 26 00          C     PRESZ,&00                                        K  7  2031  C M44 M47          640
3467 26 01   SUBSW  BU    TURN                                             K  5  2038  B Z94 /            640
3468 26 02   WOW    SW    001&X3                                           K  4  2043  , 0?1              640
3469 26 03          LCA   TRACK&99,000&X2                                  K  7  2047  L 299 0!0          641
3470 26 04          SBR   X2                                               K  4  2054  H 094              641
3471 26 05          CW    001&X3                                           K  4  2058  ) 0?1              641
3472 26 06          C     COUNT,&001                                       K  7  2062  C M23 N53          641
3473 26 07          BU    BOTM                                             K  5  2069  B !89 /            641
3474 26 08          CW    001&X2                                           K  4  2074  ) 0!1              641
3475 26 09          LCA   @ @,000&X2     BLANK                           K  7  2078  L N54 0!0          641
3476 26 10          SBR   X2                                               K  4  2085  H 094              642
3477 26 11   BOTM   CW    001&X2                                           K  4  2089  ) 0!1              642
3478 26 12          MCW   HEX1,X1                                          K  7  2093  M M39 089          642
3479 26 13   BOTM2  SBR   X1,1&X1                                          K  7  2100  H 089 0|1          642
3480 26 14          SBR   HEX3                                            K  4  2107  H L66              642
3481 26 15   KLOBR  BCE   GUTS,0,<                          12-6-8         K  8  2111  B |67 000 <        642
3482 26 16          FQUIT                                                  K                  MACRO
3483                CS    332                                              K  4  2119  / 332       GEN    642
3484                CS                                                     K  1  2123  /           GEN    643
3485                CC    1                                                K  2  2124  F 1         GEN    643
3486                MCW   @MESSAGE 2 - OBJECT PROGRAM TOO LARGE@,270       K  7  2126  M N90 270   GEN    643
3487                W                                                      K  1  2133  2           GEN    643
3488                CC    1                                                K  2  2134  F 1         GEN    643
3489                BCE   *&6,MONTOR,1                                     K  8  2136  B J49 769 1  GEN    643
3490                RWD   1                                                K  5  2144  U %U1 R     GEN    643
3491                H     *-3                                              K  4  2149  . J49       GEN    644
3492 26 17   OUT    FENDX C,GM,,,PHSE2O,,SYS1,CONST TWO                    K                  MACRO
3493         OUT    BSS   333,C                                            K  5  2153  B 333 C     GEN    644
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 SEQ PG LIN  LABEL  OP    OPERANDS                                      SFX CT  LOCN  INSTRUCTION TYPE  CARD

3494                SBR   INITXT&3,PHSE2O                                K   7  2158  H 796 849   GEN    644
3495                SBR   TCLEAR,SYS1                                    K   7  2165  H 710 O01   GEN    644
3496                LCA   @CONST TWO@,110                                K   7  2172  L N99 110   GEN    644
3497                B     MONTER                                         K   4  2179  B 700       GEN    644
3498 26 18   CKIF   BCE   PASS,CODE-3,E                                  K   8  2183  B J95 L50 E        645
3499 26 19          B     SET                                            K   4  2191  B S66              645
3500 26 20   PASS   MCW   HEX3,X3                                        K   7  2195  M L66 099          645
3501 26 21          MVDWN X3,X2                                          K                         MACRO
3502                LCA   0&X3,0&X2                                      K   7  2202  L 0?0 0!0   GEN    645
3503                SAR   X3                                             K   4  2209  Q 099       GEN    645
3504                C     0&X2                                           K   4  2213  C 0!0       GEN    645
3505                SAR   X2                                             K   4  2217  Q 094       GEN    645
3506 26 22          MCW   X3,X1                                          K   7  2221  M 099 089          646
3507 26 23          B     START                                          K   4  2228  B 877              646
3508 26 24   BAKUP  SBR   X1,1&X1                                        K   7  2232  H 089 0|1          646
3509 26 25          B     SET                                            K   4  2239  B S66              646
3510 26 26   SWCHS  MCW   @S@,SWCHX                                      K   7  2243  M O00 T90          646
3511 26 27          MCW   NOPAD,SWCHA&3                                  K   7  2250  M L45 K75          646
3512 26 28          MCW   X1,X3                                          K   7  2257  M 089 099          647
3513 26 29   STODD  SW    ODDSW                                          K   4  2264  , N44              647
3514 26 30          B     NORML                                          K   4  2268  B T79              647
3515 26 31   SWCHA  MCW   @A@,SWCHX                                      K   7  2272  M M48 T90          647
3516 26 32          MCW   NOPAD,SWCHS&3                                  K   7  2279  M L45 K46          647
3517 26 33          MCW   @N@,SWCHZ                                      K   7  2286  M L95 U04          647
3518 26 34          SBR   RIGHT,1&X1                                     K   7  2293  H M42 0|1          648
3519 26 35          MCW   @N@,STODD                                      K   7  2300  M L95 K64          648
3520 26 36          B     TEST                                           K   4  2307  B U35              648
3521 26 37   TABLE  EQU   *&1                                            K      2311
3522 26 38          DCW   @R 2E 2D#1L,15,0U,1P,16,01,13,1@                K  30  2340                     649
3523 26 39   A      DCW   @A@                                            K   1  2341                     649
3524 26 40   S      DCW   @S@                                            K   1  2342                     649
3525 26 41   NOPAD  DCW   &@N@                                           K   3  2345  L95                649
3526 26 42          DCW   @ @         BLANK                              K   1  2346                     649
3527 26 43   BOX    DCW   @ @      BLANK                                 K   1  2347                     649
3528 26 44          DCW   @ @     BLANK                                  K   1  2348                     649
3529 26 45   GM     DC    @}@                          GROUP MARK        K   1  2349              GMARK  649
3530 26 46          LTORG *                                              K             2350
             CODE K DCW   #04                                            K   4  2353              AREA   650
             WORK K DCW   #10                                            K  10  2363              AREA   650
             HEX3 K DCW   #03                                            K   3  2366              AREA   650
             KILL K DCW   #03                                            K   3  2369              AREA   650
                    DCW   @UPL3165DER@                                   K  10  2379              LIT    650
             CNTRLK DCW   #02                                            K   2  2381              AREA   650
                    DCW   @1@                                            K   1  2382              LIT    650
                    DCW   @)}@.#%$,*-&@                                  K  11  2393              LIT    651
                    DCW   @B@                                            K   1  2394              LIT    651
                    DCW   @N@                                            K   1  2395              LIT    651
                    DCW   @/@                                            K   1  2396              LIT    651
                    DCW   @?ABCDEFGHI!JKLMNOPQR@                         K  20  2416              LIT    651
                    DCW   @<@                                            K   1  2417              LIT    651
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SEQ PG LIN  LABEL  OP    OPERANDS                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD
                   DCW   @_@                                       K   1  2418              LIT    651
            XPONTK DCW   #02                                       K   2  2420              AREA   652
            COUNTK DCW   #03                                       K   3  2423              AREA   652
                   DCW   @,@                                       K   1  2424              LIT    652
                   DCW   &1                                        K   1  2425              LIT    652
            TOTALK DCW   #03                                       K   3  2428              AREA   652
                   DCW   &01                                       K   2  2430              LIT    652
                   DCW   &000                                      K   3  2433              LIT    652
                   DCW   @?0?@                                     K   3  2436              LIT    653
            HEX1 K DCW   #03                                       K   3  2439              AREA   653
            RIGHTK DCW   #03                                       K   3  2442              AREA   653
            PRESZK DCW   #02                                       K   2  2444              AREA   653
                   DCW   &2                                        K   1  2445              LIT    653
                   DCW   &00                                       K   2  2447              LIT    653
                   DCW   @A@                                       K   1  2448              LIT    653
                   DCW   @EQUAL SIGN, STATEMENT @                  K  22  2470              LIT    654
                   DCW   @ERROR 41 - CONSTANT LEFT SIDE OF @       K  33  2503              LIT    655
            BLANKK DCW   #01                                       K   1  2504              AREA   655
                   DCW   @ERROR 44 - CONSTANT SYNTAX, STATEMENT @  K  38  2542              LIT    656
                   DCW   @0@                                       K   1  2543              LIT    656
            ODDSWK DCW   #01                                       K   1  2544              AREA   657
                   DCW   &0                                        K   1  2545              LIT    657
            BUMP K DCW   #02                                       K   2  2547              AREA   657
                   DCW   @Z@                                       K   1  2548              LIT    657
                   DCW   @ 0@                                      K   2  2550              LIT    657
                   DCW   &001                                      K   3  2553              LIT    657
                   DCW   @ @                                       K   1  2554              LIT    657
                   DCW   @MESSAGE 2 - OBJECT PROGRAM TOO LARGE@    K  36  2590              LIT    658
                   DCW   @CONST TWO@                               K   9  2599              LIT    659
                   DCW   @S@                                       K   1  2600              LIT    659
3531 26 47  SYS1   DCW   @}@                 SYSTEM GROUP MARK     K   1  2601              GMARK  659
3532 26 48         ORG   *&X00                                      K          2700
3533 26 49  SAUCE  EQU   *&1                                       K      2700
3534 26 50         XFR   INITL                                     K          B 838              660
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 SEQ PG LIN  LABEL  OP    OPERANDS                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD
3535 26 51          JOB   1401 FORTRAN  CONSTANT PHASE TWO          K
3536 26 52          FBEGN CONST TWO,X1,R,X2,,X3,R,O                 K                    MACRO
3537                SFX   O                                       O                    GEN
3538          110   DCW   @CONST TWO@                             O   9  0110            GEN    663
3539          X1    EQU   089                                     O      0089            GEN
3540          089   DCW   000                                     O   3  0089            GEN    664
3541          091   DC    00                                      O   2  0091            GEN    664
3542          X2    EQU   094                                     O      0094            GEN
3543          X3    EQU   099                                     O      0099            GEN
3544          099   DCW   000                                     O   3  0099            GEN    665
3545          100   DC    0                                       O   1  0100            GEN    665
3546 26 53          ORG   XBEGIN                                  O            0838
3547 26 54    NXBTM EQU   083                                     O      0083
3548 26 55    NOMO  EQU   PARAMA&2                                O      0688
3549 26 56    BASE  DCW   #3                                      O   3  0840                   666
3550 26 57    MAX   DCW   #4                                      O   4  0844                   666
3551 26 58          DC    #1                                      O   1  0845                   666
3552 26 59    UPLIM DCW   #3                                      O   3  0848                   666
3553 26 60    PHSE2 MCW   X2, X3                                  O   7  0849  M 094 099        666
3554 26 61          SW    GM2                                     O   4  0856  , T33           666
3555 26 62    CLR1  CS    000&X3                                  O   4  0860  / 0?0           666
3556 26 63          SBR   X3                                      O   4  0864  H 099           666
3557 26 64          C     X3,&SAUCE-1                             O   7  0868  C 099 T68       667
3558 26 65          BU    CLR1                                    O   5  0875  B 860 /         667
3559 26 66          SBR   X1,SAUCE-1                             O   7  0880  H 089 N99       667
3560 26 67    *  SHIFT SOURCE PROGRAM UP TO COMPILER PROGRAM
3561 26 68          MOVUP X2,X1,NOMO,ALL,|                        O                    MACRO
3562                MN    0&X1                                    O   4  0887  D 0|0           GEN    667
3563                SAR   X1                                      O   4  0891  Q 089           GEN    667
3564          )0J091 MCM  0&X2                                    O   4  0895  P 0!0           GEN    667
3565                SAR   )0L091&6                                O   4  0899  Q 921           GEN    667
3566                MCM   0&X2,1&X1                               O   7  0903  P 0!0 0|1       GEN    668
3567                MN                                          O   1  0910  D               GEN    668
3568                SBR   X1                                      O   4  0911  H 089           GEN    668
3569          )0L091 SBR  X2,0                                    O   7  0915  H 094 000       GEN    668
3570                BCE   )0J091,0&X1,|                           O   8  0922  B 895 0|0 |     GEN    668
3571                MN    0&X2                                    O   4  0930  D 0!0           GEN    668
3572                CW                                          O   1  0934  )               GEN    668
3573                SW    0&X1                                    O   4  0935  , 0|0           GEN    669
3574                C     X2,NOMO                                 O   7  0939  C 094 688       GEN    669
3575                BU    )0J091                                  O   5  0946  B 895 /         GEN    669
3576 26 69          CW    0&X2                                    O   4  0951  ) 0!0                  669
3577 26 70          CW                                            O   1  0955  )                      669
3578 26 71          SBR   BASE,1&X1                               O   7  0956  H 840 0|1           669
3579 26 72          MN    TWO9,BASE                               O   7  0963  D T32 840          669
3580 26 73          MN                                            O   1  0970  D                  670
3581 26 74          MCW   NXBTM,X3                               O   7  0971  M 083 099          670
3582 26 75    *  CLEAR BALANCE OF CORE
3583 26 76    CLR2  CS    000&X3                                  O   4  0978  / 0?0              670
3584 26 77          SBR   X3                                      O   4  0982  H 099              670
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 SEQ PG LIN  LABEL  OP    OPERANDS                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD
3585 26 78          C     X3,BASE                                    O   7  0986  C 099 840          670
3586 26 79          BU    CLR2                                       O   5  0993  B 978 /            670
3587 26 80          MCW   @<@,0&X3                    12-6-8       O   7  0998  M T69 0?0          670
3588 26 81    *  DIVIDE REST OF CORE FOR TABLES   RATIO 3 TO 7
3589 26 82          MCW   NXBTM,LOC                                  O   7  1005  M 083 T30          671
3590 26 83          B     UNPAK                                      O   4  1012  B S56              671
3591 26 84          MCW   NUM#5,MAX&1                               O   7  1016  M T74 845          671
3592 26 85          MCW   BASE,LOC                                   O   7  1023  M 840 T30          671
3593 26 86          B     UNPAK                                      O   4  1030  B S56              671
3594 26 87          S     NUM,MAX&1                                  O   7  1034  S T74 845          671
3595 26 88          A     MAX,ACCUM#6                                O   7  1041  A 844 T80          672
3596 26 89          A     ACCUM                                      O   4  1048  A T80              672
3597 26 90          A     MAX,ACCUM       3*MAX IN ACCUM             O   7  1052  A 844 T80          672
3598 26 91    * 1/10 OF NXBTM-BASE IN MAX
3599 26 92          A     NUM,ACCUM                                  O   7  1059  A T74 T80          672
3600 26 93          MCW   ACCUM-3,X3                                 O   7  1066  M T77 099          672
3601 26 94          A     X3                                         O   4  1073  A 099              672
3602 26 95          MZ    ZON19&X3,ACCUM-2                           O   7  1077  Y TC4 T78          673
3603 26 96          MZ    ZON19&1&X3,ACCUM                           O   7  1084  Y TC5 T80          673
3604 26 97          MCW   ACCUM,X3                                   O   7  1091  M T80 099          673
3605 26 98          SW    002&X3                                     O   4  1098  , 0?2              673
3606 26 99          MCW   @<@      12-6-8                            O   4  1102  M T69              673
3607 27 00          SBR   UPLIM                                      O   4  1106  H 848              673
3608 27 01          MCW   X1,X2                                      O   7  1110  M 089 094          674
3609 27 02          MN    0&X2                                       O   4  1117  D 0!0              674
3610 27 03          SAR   X1                                         O   4  1121  Q 089              674
3611 27 04          MCW   NXBTM,X3                                   O   7  1125  M 083 099          674
3612 27 05          LCA   GM2,1&X3                                   O   7  1132  L T33 0?1          674
3613 27 06          CS    299                                        O   4  1139  / 299              674
3614 27 07          MCW   PARAMA&6,X3                                O   7  1143  M 692 099          675
3615 27 08          MCW   @0@                                        O   4  1150  M T81              675
3616 27 09          SW    200                                        O   4  1154  , 200              675
3617 27 10          MCW   NXBTM,LDFLT&6                              O   7  1158  M 083 /71          675
3618 27 11    LDFLT LCA   199&X3,0                                   O   7  1165  L 1I9 000          675
3619 27 12          SBR   NXBTM                                      O   4  1172  H 083              675
3620 27 13          SBR   LODX&6                                     O   4  1176  H /94              675
3621 27 14          MN    PARAMA&4,X3                                O   7  1180  D 690 099          676
3622 27 15          MN                                               O   1  1187  D                  676
3623 27 16    LODX  LCA   199&X3,0                                   O   7  1188  L 1I9 000          676
3624 27 17          SBR   X3                                         O   4  1195  H 099              676
3625 27 18          SBR   ONEADR                                    O   4  1199  H 142              676
3626 27 19          LCA   @1@,0&X3                                  O   7  1203  L T82 0?0          676
3627 27 20          SBR   XEXPON                                     O   4  1210  H 157              676
3628 27 21          LCA   @A0?@            0,12-0                  O   4  1214  L T85              677
3629 27 22          SBR   NXBTM                                      O   4  1218  H 083              677
3630 27 23          FENDX C,GM2,,PHSE2,,PHSE2,SYS2,CONST TRI         O                     MACRO
3631                BSS   333,C                                      O   5  1222  B 333 C    GEN     677
3632                SBR   INITAP&6,PHSE2                           O   7  1227  H 786 849  GEN     677
3633                SBR   BCLEAR                                    O   4  1234  H 833      GEN     677
3634                SBR   TCLEAR,SYS2                              O   7  1238  H 710 T97  GEN     677
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 SEQ PG LIN  LABEL   OP    OPERANDS                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD
3635                LCA   @CONST TRI@,110                          O   7  1245  L T94 110   GEN    677
3636                B     MONTER                                    O   4  1252  B 700      GEN    678
3637 27 24  UNPAK   SBR   EXIT&3                                    O   4  1256  H T25             678
3638 27 25          MN    LOC,NUM                                   O   7  1260  D T30 T74         678
3639 27 26          MN                                              O   1  1267  D                 678
3640 27 27          MN                                              O   1  1268  D                 678
3641 27 28          MCW                                             O   1  1269  M                 678
3642 27 29          MZ    LOC,TWO9                                  O   7  1270  Y T30 T32         678
3643 27 30          MZ    LOC-2,TWO9-1                              O   7  1277  Y T28 T31         679
3644 27 31          NOP   ZON19-3                                   O   4  1284  N T31             679
3645 27 32          SAR   X3                                        O   4  1288  Q 099             679
3646 27 33  COMP    C     004&X3,TWO9                               O   7  1292  C 0?4 T32         679
3647 27 34          SAR   X3                                        O   4  1299  Q 099             679
3648 27 35          A     &1,NUM-3                                  O   7  1303  A T95 T71         679
3649 27 36          BU    COMP                                      O   5  1310  B S92 /           679
3650 27 37          MZ    @ @,NUM-3                                 O   7  1315  Y T96 T71         680
3651 27 38  EXIT    B     000                                       O   4  1322  B 000             680
3652 27 39  LOC     DCW   @0J   @                                   O   5  1330                    680
3653 27 40  TWO9    DCW   @99@                                      O   2  1332                    680
3654 27 41  GM2     DC    @}@                                       O   1  1333            GMARK   680
3655 27 42  ZON19   DC    @9@                                       O   1  1334                    680
3656 27 43          DC    @9Z9R9I99ZZZRZIZ9RZRRRIR9IZIRIII@         O  31  1365                    681
3657 27 44          LTORG *                                         O          1366
                    DCW   &SAUCEO-1                                 O   3  1368  N99         ADCON   681
                    DCW   @<@                                       O   1  1369              LIT     681
             NUM  O DCW   #05                                       O   5  1374              AREA    682
             ACCUMO DCW   #06                                       O   6  1380              AREA    682
                    DCW   @0@                                       O   1  1381              LIT     682
                    DCW   @1@                                       O   1  1382              LIT     682
                    DCW   @A0?@                                     O   3  1385              LIT     682
                    DCW   @CONST TRI@                               O   9  1394              LIT     682
                    DCW   &1                                        O   1  1395              LIT     682
                    DCW   @ @                                       O   1  1396              LIT     683
3658 27 45  SYS2    DCW   @}@                          SYSTEM GROUP MARK O  1  1397            GMARK   683
3659 27 46          XFR   PHSE2                                     O          B 849                   684
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 SEQ PG LIN  LABEL   OP    OPERANDS                                          SFX CT  LOCN  INSTRUCTION TYPE  CARD
3660 27 47           JOB   1401 FORTRAN  CONSTANT PHASE THREE                O
3661 27 48   110     DCW   @CONST TRI@                                       O   9  0110                    687
3662 27 49           ORG   PHSE2                                             O          0849
3663 27 50   * DEFINES NORMALIZED CONSTANTS IN SAUCE
3664 27 51   *              CALCULATING AMOUNT BY WHICH OBJECT TIME ADDRESSES OF
3665 27 52   *              CONSTANTS, FORMATS, AND LISTS MUST BE REDUCED
3666 27 53   *              (VIA MA INSTRUCTIONS)  BECAUSE OF ARRAY STORAGE
3667 27 54   *              PLUSDF IS USED IN PHASES 24,26&50
3668 27 55   *              MACFLS IS USED IN PHASES 20,24,25,26,&50
3669 27 56   PHSE3   UNPAK PARAMA&2,WK5                                      O                        MACRO
3670         PHSE3   S     )0M093#2                                          O   4  0849  S !48        GEN    688
3671                 S     )0L093#2                                          O   4  0853  S !50        GEN    688
3672                 MZ    PARAMA&2,)0M093-1                                 O   7  0857  Y 688 !47    GEN    688
3673                 MZ    PARAMA&2-2,)0L093-1                               O   7  0864  Y 686 !49    GEN    688
3674         )0J093  BWZ   )0K093, )0L093-1, 2                               O   8  0871  V 890 !49 2  GEN    688
3675                 A     @A0@, )0L093                                      O   7  0879  A !52 !50    GEN    688
3676                 B     )0J093                                            O   4  0886  B 871        GEN    689
3677         )0K093  BWZ   )0P093, )0M093-1, 2                               O   8  0890  V 909 !47 2  GEN    689
3678                 A     @?4@, )0M093                                      O   7  0898  A !54 !48    GEN    689
3679                 B     )0K093                                            O   4  0905  B 890        GEN    689
3680         )0P093  A     )0L093-1,)0M093                                   O   7  0909  A !49 !48    GEN    689
3681                 MCW   PARAMA&2,WK5                                      O   7  0916  M 688 !71    GEN    689
3682                 MCW   )0M093                                            O   4  0923  M !48        GEN    690
3683                 ZA    WK5                                               O   4  0927  ? !71        GEN    690
3684                 MZ    *-4, WK5                                          O   7  0931  Y 933 !71    GEN    690
3685 27 57           MCW   X2,SAVX2#3          SAVE X2                      O   7  0938  M 094 !57           690
3686 27 58           UNPAK CONLST,CNLS5                                      O                        MACRO
3687                 S     )0M094#2                                          O   4  0945  S !59        GEN    690
3688                 S     )0L094#2                                          O   4  0949  S !61        GEN    690
3689                 MZ    CONLST,)0M094-1                                   O   7  0953  Y 194 !58    GEN    690
3690                 MZ    CONLST-2,)0L094-1                                 O   7  0960  Y 192 !60    GEN    691
3691         )0J094  BWZ   )0K094, )0L094-1, 2                               O   8  0967  V 986 !60 2  GEN    691
3692                 A     @A0@, )0L094                                      O   7  0975  A !52 !61    GEN    691
3693                 B     )0J094                                            O   4  0982  B 967        GEN    691
3694         )0K094  BWZ   )0P094, )0M094-1, 2                               O   8  0986  V |05 !58 2  GEN    691
3695                 A     @?4@, )0M094                                      O   7  0994  A !54 !59    GEN    692
3696                 B     )0K094                                            O   4  1001  B 986        GEN    692
3697         )0P094  A     )0L094-1,)0M094                                   O   7  1005  A !60 !59    GEN    692
3698                 MCW   CONLST,CNLS5                                      O   7  1012  M 194 !66    GEN    692
3699                 MCW   )0M094                                            O   4  1019  M !59        GEN    692
3700                 ZA    CNLS5                                             O   4  1023  ? !66        GEN    692
3701                 MZ    *-4, CNLS5                                        O   7  1027  Y |29 !66    GEN    693
3702 27 59           S     CNLS5#5,WK5#5                                     O   7  1034  S !66 !71           693
3703 27 60           C     @0000?@,WK5                PLUS ZERO              O   7  1041  C !76 !71           693
3704 27 61           BE    RSX2                                              O   5  1048  B /61 S             693
3705 27 62           FPACK WK5,PLUSDF,X2                                     O                        MACRO
3706                 INCLD ZONES                                             O                        MACRO
3707                 MN    WK5,PLUSDF                                        O   7  1053  D !71 160    GEN    693
3708                 MN                                                      O   1  1060  D           GEN    693
3709                 MN                                                      O   1  1061  D           GEN    693
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 SEQ PG LIN  LABEL  OP    OPERANDS                                SFX CT  LOCN  INSTRUCTION TYPE  CARD
3710                SAR   *&4                                     O   4  1062  Q |69       GEN    694
3711                MCW   0,X2                                    O   7  1066  M 000 094  GEN    694
3712                MCW   @0@                                     O   4  1073  M !77       GEN    694
3713                A     X2                                      O   4  1077  A 094       GEN    694
3714                MZ    ZONES&1&X2,PLUSDF                       O   7  1081  Y !J6 160  GEN    694
3715                CW                                            O   1  1088  )          GEN    694
3716                SBR   *&7                                     O   4  1089  H |99       GEN    694
3717                MZ    ZONES&X2, 0                             O   7  1093  Y !J5 000  GEN    695
3718 27 63          MCW   @160000@,MCFL5#5                       O   7  1100  M !82 !87       695
3719 27 64          S     WK5,MCFL5                               O   7  1107  S !71 !87       695
3720 27 65          FPACK MCFL5,MACFLS,X2                         O                    MACRO
3721                INCLD ZONES                                   O                    MACRO
3722                MN    MCFL5,MACFLS                            O   7  1114  D !87 163  GEN    695
3723                MN                                            O   1  1121  D          GEN    695
3724                MN                                            O   1  1122  D          GEN    695
3725                SAR   *&4                                     O   4  1123  Q /30       GEN    695
3726                MCW   0,X2                                    O   7  1127  M 000 094  GEN    696
3727                MCW   @0@                                     O   4  1134  M !77       GEN    696
3728                A     X2                                      O   4  1138  A 094       GEN    696
3729                MZ    ZONES&1&X2,MACFLS                       O   7  1142  Y !J6 163  GEN    696
3730                CW                                            O   1  1149  )          GEN    696
3731                SBR   *&7                                     O   4  1150  H /60       GEN    696
3732                MZ    ZONES&X2, 0                             O   7  1154  Y !J5 000  GEN    696
3733 27 66  RSX2    MCW   SAVX2,X2           RESTORE X2           O   7  1161  M !57 094       697
3734 27 67          MA    MACFLS,ONEADR                           O   7  1168  # 163 142       697
3735 27 68          MA    MACFLS,XEXPON                           O   7  1175  # 163 157       697
3736 27 69          MCW   BASE,BUMP&3                            O   7  1182  M 840 U82       697
3737 27 70          MZ    @S@,BUMP&2                              O   7  1189  Y !88 U81       697
3738 27 71          MCW   X2,HEX1#3                               O   7  1196  M 094 !91       698
3739 27 72          MCW   @ @,SAUCE-1    BLANK, MAY NOT BE NECESSARY O   7  1203  M !92 N99       698
3740 27 73  START   BCE   OUT,000&X1,    BLANK                   O   8  1210  B X76 0|0       698
3741 27 74          MCW   000&X1,CODE#4                           O   7  1218  M 0|0 !96       698
3742 27 75          LCA   000&X1,WORK#10                         O   7  1225  L 0|0 J06       698
3743 27 76          SAR   X1                                      O   4  1232  Q 089           699
3744 27 77          SBR   X3                                      O   4  1236  H 099           699
3745 27 78          LCA   WORK,000&X2                            O   7  1240  L J06 0!0       699
3746 27 79          SBR   X2                                      O   4  1247  H 094           699
3747 27 80          BCE   PASS,CODE-3,/                           O   8  1251  B X46 !93 /     699
3748 27 81  FIND    BCE   SEEK,000&X1,_       DELTA   11-7-8      O   8  1259  B S93 0|0 _     699
3749 27 82          CHAIN 5                                       O                    MACRO
3750                BCE                                           O   1  1267  B          GEN    699
3751                BCE                                           O   1  1268  B          GEN    700
3752                BCE                                           O   1  1269  B          GEN    700
3753                BCE                                           O   1  1270  B          GEN    700
3754                BCE                                           O   1  1271  B          GEN    700
3755 27 83          BCE   PASS,000&X1,}       GROUP MARK          O   8  1272  B X46 0|0 } GMARK  700
3756 27 84          CHAIN 5                                       O                    MACRO
3757                BCE                                           O   1  1280  B          GEN    700
3758                BCE                                           O   1  1281  B          GEN    700
3759                BCE                                           O   1  1282  B          GEN    701
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 SEQ PG LIN  LABEL  OP    OPERANDS                                          SFX CT  LOCN  INSTRUCTION TYPE  CARD
3760                BCE                                                    O   1  1283  B           GEN    701
3761                BCE                                                    O   1  1284  B           GEN    701
3762 27 85          SBR   X1                                               O   4  1285  H 089             701
3763 27 86          B     FIND                                             O   4  1289  B S59             701
3764 27 87  SEEK    BCE   FOUND,000&X1,_      DELTA   11-7-8               O   8  1293  B T09 0|0 _      701
3765 27 88          SBR   X1                                               O   4  1301  H 089            701
3766 27 89          B     SEEK                                             O   4  1305  B S93            702
3767 27 90  FOUND   SW    001&X1                                           O   4  1309  , 0|1            702
3768 27 91          CW                                                     O   1  1313  )                702
3769 27 92          CW                                                     O   1  1314  )                702
3770 27 93          CW                                                     O   1  1315  )                702
3771 27 94          SAR   X1                                               O   4  1316  Q 089            702
3772 27 95          BCE   COPY, 004&X1,}      GROUP MK, FIRST CHAR MAY BE DLTA O   8  1320  B T43 0|4 } GMARK  702
3773 27 96          LCA   000&X3,000&X2                                    O   7  1328  L 0?0 0!0        703
3774 27 97          SBR   X2                                               O   4  1335  H 094            703
3775 27 98          CW    001&X2                                           O   4  1339  ) 0!1            703
3776 27 99  COPY    SBR   X3,2&X1                                          O   7  1343  H 099 0|2        703
3777 28 00  LIMIT   MCW   000&X1,BOX#1                                     O   7  1350  M 0|0 J07        703
3778 28 01          SAR   X1                                               O   4  1357  Q 089            703
3779 28 02          MCW   BOX,*&8                                         O   7  1361  M J07 T75        704
3780 28 03          BCE   RANDM,@#}@*-&)$,@,0            EQUAL, GM       O   8  1368  B T88 J16 0      704
3781 28 04          CHAIN 8                                                O                   MACRO
3782                BCE                                                    O   1  1376  B           GEN    704
3783                BCE                                                    O   1  1377  B           GEN    704
3784                BCE                                                    O   1  1378  B           GEN    704
3785                BCE                                                    O   1  1379  B           GEN    704
3786                BCE                                                    O   1  1380  B           GEN    704
3787                BCE                                                    O   1  1381  B           GEN    705
3788                BCE                                                    O   1  1382  B           GEN    705
3789                BCE                                                    O   1  1383  B           GEN    705
3790 28 05          B     LIMIT                                            O   4  1384  B T50            705
3791 28 06  RANDM   SW    002&X1                                           O   4  1388  , 0|2            705
3792 28 07          ZA    000&X3,MOD#4                                     O   7  1392  ? 0?0 J20        705
3793 28 08          A     004&X1,MOD                                       O   7  1399  A 0|4 J20        705
3794 28 09          BCE   SQUOZ,002&X1,        BLANK, 1 CHAR FIXED PT. NUM O   8  1406  B X04 0|2        706
3795 28 10  STRIP   MZ    @    @,MOD                                       O   7  1414  Y J24 J20        706
3796 28 11          MZ                                                     O   1  1421  Y                706
3797 28 12          MZ                                                     O   1  1422  Y                706
3798 28 13          MCW            3 DIGIT NO. IN MOD                      O   1  1423  M                706
3799 28 14  SUBTR   S     MAX,MOD                                          O   7  1424  S 844 J20        706
3800 28 15          BWZ   SUBTR,MOD,B                                      O   8  1431  V U24 J20 B      706
3801 28 16          A     MAX,MOD                                          O   7  1439  A 844 J20        707
3802 28 17          MZ    @ @,MOD        BLANK                             O   7  1446  Y !92 J20        707
3803 28 18          MCW   X2,HEX2#8                                        O   7  1453  M 094 J32        707
3804 28 19          MCW                  STORES X1                         O   1  1460  M                707
3805 28 20          MCW   MOD,X1                                           O   7  1461  M J20 089        707
3806 28 21          A     X1                                               O   4  1468  A 089            707
3807 28 22          A     MOD,X1                                           O   7  1472  A J20 089        708
3808 28 23  BUMP    NOP   000       BASE & 3*MOD IN X1, TABLE 1 ENTRY ADDRESS O   4  1479  N 000            708
3809 28 24          SAR   X1                                               O   4  1483  Q 089            708
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 SEQ PG LIN  LABEL  OP    OPERANDS                                          SFX CT  LOCN  INSTRUCTION TYPE  CARD
3810 28 25          MCW   @N@,OVFLW                                        O   7  1487  M J33 W71          708
3811 28 26   CHAIN   BCE   NEW,000&X1,    BLANK, CONST NOT YET ENCOUNTERED  O   8  1494  B W26 0|0          708
3812 28 27          BCE   OVFLW,000&X1,<      12-6-8                       O   8  1502  B W71 0|0 <        708
3813 28 28          MCW   000&X1,X2                                        O   7  1510  M 0|0 094          709
3814 28 29          SAR   X1                                               O   4  1517  Q 089              709
3815 28 30          C     000&X3,000&X2                                    O   7  1521  C 0?0 0!0          709
3816 28 31          BU    CHAIN                                            O   5  1528  B U94 /            709
3817 28 32          C     000&X2,000&X3                                    O   7  1533  C 0!0 0?0          709
3818 28 33          BU    CHAIN                                            O   5  1540  B U94 /            709
3819 28 34   RESTR  MCW   X2,TEMP#3                                        O   7  1545  M 094 J36          710
3820 28 35          MCW   TEMP,TEMP2    COMPUTE CORRECT CONSTANT ADDRS. BEFORE O   7  1552  M J36 J39          710
3821 28 36          MA    MACFLS,TEMP   PUTTING THEM IN ARITHMETIC STRINGS.  O   7  1559  # 163 J36          710
3822 28 37          MCW   HEX2,X2                                          O   7  1566  M J32 094          710
3823 28 38          MCW                                                    O   1  1573  M                  710
3824 28 39          LCA   TEMP,0&X2                                       O   7  1574  L J36 0!0          710
3825 28 40          SBR   X2                                               O   4  1581  H 094              711
3826 28 41          CW    001&X2                                           O   4  1585  ) 0!1              711
3827 28 42          MCW   TEMP2#3,*&7                                     O   7  1589  M J39 W02          711
3828 28 43          BWZ   FIXED,0,2                                       O   8  1596  V W93 000 2        711
3829 28 44          MZ    @ @,002&X2                  BLANK                O   7  1604  Y !92 0!2          711
3830 28 45   BOTM   SBR   X1,1&X1                                         O   7  1611  H 089 0|1          711
3831 28 46          SBR   X3                                               O   4  1618  H 099              712
3832 28 47          B     FIND                                             O   4  1622  B S59              712
3833 28 48   NEW    MCW   NXBTM,X2                                        O   7  1626  M 083 094          712
3834 28 49          MCW   NXBTM,000&X1                                    O   7  1633  M 083 0|0          712
3835 28 50          MCW   000&X3,000&X2                                    O   7  1640  M 0?0 0!0          712
3836 28 51          SBR   X1                                               O   4  1647  H 089              712
3837 28 52          SBR   NXBTM                                            O   4  1651  H 083              712
3838 28 53          BCE   FULL,000&X1,<      12-6-8                        O   8  1655  B X12 0|0 <        713
3839 28 54          SW    001&X1                                           O   4  1663  , 0|1              713
3840 28 55          B     RESTR                                            O   4  1667  B V45              713
3841 28 56   OVFLW  NOP   FULL                                             O   4  1671  N X12              713
3842 28 57          MCW   @S@,OVFLW                                        O   7  1675  M !88 W71          713
3843 28 58          MCW   UPLIM,X1                                         O   7  1682  M 848 089          713
3844 28 59          B     CHAIN                                            O   4  1689  B U94              713
3845 28 60   FIXED  MZ    *-6,2&X2                                         O   7  1693  Y W93 0!2          714
3846 28 61          B     BOTM                                             O   4  1700  B W11              714
3847 28 62   SQUOZ  SW    003&X1                                           O   4  1704  , 0|3              714
3848 28 63          B     STRIP                                            O   4  1708  B U14              714
3849 28 64   FULL   FQUIT                                                  O                             MACRO
3850         FULL   CS    332                                              O   4  1712  / 332        GEN   714
3851                CS                                                     O   1  1716  /            GEN   714
3852                CC    1                                                O   2  1717  F 1          GEN   714
3853                MCW   @MESSAGE 2 - OBJECT PROGRAM TOO LARGE@,270        O   7  1719  M J75 270    GEN   715
3854                W                                                      O   1  1726  2            GEN   715
3855                CC    1                                                O   2  1727  F 1          GEN   715
3856                BCE   *&6,MONTOR,1                                     O   8  1729  B X42 769 1   GEN   715
3857                RWD   1                                                O   5  1737  U %U1 R      GEN   715
3858                H     *-3                                              O   4  1742  . X42        GEN   715
3859 28 65   PASS   MVDWN X3,X2                                           O                             MACRO
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 SEQ PG LIN  LABEL  OP    OPERANDS                                          SFX CT  LOCN  INSTRUCTION TYPE  CARD
3860         PASS   LCA   0&X3,0&X2                                        O   7  1746  L 0?0 0!0   GEN    715
3861                SAR   X3                                               O   4  1753  Q 099       GEN    716
3862                C     0&X2                                             O   4  1757  C 0!0       GEN    716
3863                SAR   X2                                               O   4  1761  Q 094       GEN    716
3864 28 66          MCW   X3,X1                                            O   7  1765  M 099 089          716
3865 28 67          B     START                                            O   4  1772  B S10              716
3866 28 68  OUT     MCW   HEX1,X1                                          O   7  1776  M !91 089          716
3867 28 69          CS    332                                              O   4  1783  / 332              716
3868 28 70          CS                                                     O   1  1787  /                  717
3869 28 71          MCW   @CONSTANTS LOCATED FROM @,223                    O   7  1788  M J98 223          717
3870 28 72          UNPAK NXBTM,WK51                                       O                 MACRO
3871                S     )0M099#2                                         O   4  1795  S K00       GEN    717
3872                S     )0L099#2                                         O   4  1799  S K02       GEN    717
3873                MZ    NXBTM,)0M099-1                                   O   7  1803  Y 083 J99   GEN    717
3874                MZ    NXBTM-2,)0L099-1                                 O   7  1810  Y 081 K01   GEN    717
3875        )0J099  BWZ   )0K099, )0L099-1, 2                              O   8  1817  V Y36 K01 2 GEN    717
3876                A     @A0@, )0L099                                     O   7  1825  A !52 K02   GEN    718
3877                B     )0J099                                           O   4  1832  B Y17       GEN    718
3878        )0K099  BWZ   )0P099, )0M099-1, 2                              O   8  1836  V Y55 J99 2 GEN    718
3879                A     @?4@, )0M099                                     O   7  1844  A !54 K00   GEN    718
3880                B     )0K099                                           O   4  1851  B Y36       GEN    718
3881        )0P099  A     )0L099-1,)0M099                                  O   7  1855  A K01 K00   GEN    718
3882                MCW   NXBTM,WK51                                       O   7  1862  M 083 K08   GEN    719
3883                MCW   )0M099                                          O   4  1869  M K00       GEN    719
3884                ZA    WK51                                             O   4  1873  ? K08       GEN    719
3885                MZ    *-4, WK51                                        O   7  1877  Y Y79 K08   GEN    719
3886 28 73          S     WK5,WK51                                         O   7  1884  S !71 K08          719
3887 28 74          MZ    @ @,WK51            REMOVE SIGN                  O   7  1891  Y !92 K08          719
3888 28 75          A     &1,WK51#5                                        O   7  1898  A K03 K08          720
3889 28 76          MCW   NXBTM,X3                                         O   7  1905  M 083 099          720
3890 28 77          MA    MACFLS,X3                                        O   7  1912  # 163 099          720
3891 28 78          SBR   X3,1&X3                                         O   7  1919  H 099 0?1          720
3892 28 79          MCW   CONLST,247                                       O   7  1926  M 194 247          720
3893 28 80          MCW   @-@                                              O   4  1933  M K09              720
3894 28 81          MCW   X3                                               O   4  1937  M 099              721
3895 28 82          MCW   @   @                                            O   4  1941  M K12              721
3896 28 83          MCW   CNLS5                                            O   4  1945  M !66              721
3897 28 84          MCW   @ TO @                                           O   4  1949  M K16              721
3898 28 85          MCW   WK51                                             O   4  1953  M K08              721
3899 28 86          CC    J                                                O   2  1957  F J                721
3900 28 87          W                                                      O   1  1959  2                  721
3901 28 88          CC    J                                                O   2  1960  F J                722
3902 28 89          FORMS                                                  O                 MACRO
3903                BCV   *&5                                              O   5  1962  B Z71 @     GEN    722
3904                B     *&3                                              O   4  1967  B Z73       GEN    722
3905                CC    1                                                O   2  1971  F 1         GEN    722
3906 28 90          FENDX D,,,XBEGIN,XBEGIN,XBEGIN,SAUCE-2,SUBSCR          O                 MACRO
3907                BSS   333,D                                            O   5  1973  B 333 D     GEN    722
3908                SBR   INITAP&6,XBEGIN                                  O   7  1978  H 786 838   GEN    722
3909                SBR   BCLEAR                                          O   4  1985  H 833       GEN    722
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 SEQ PG LIN  LABEL   OP    OPERANDS                                        SFX CT  LOCN  INSTRUCTION TYPE  CARD
3910                SBR   INITXT&3,XBEGIN                                  O   7  1989  H 796 838   GEN    723
3911                SBR   TCLEAR,SAUCE-2                                  O   7  1996  H 710 N98   GEN    723
3912                LCA   @SUBSCR@,110                                    O   7  2003  L K22 110   GEN    723
3913                B     MONTER                                          O   4  2010  B 700      GEN    723
3914 28 91          ORG   *                                               O             2014
3915                LTORG *    WVS: AUTOCODER SHOULDN'T LOAD INCLD AT ORG  O             2014
3916                DCW   #1                                              O   1  2014               GEN    723
3917          ZONES DC    9                                               O   1  2015               GEN    723
3918                DCW   @9Z9R9I99ZZZRZIZ9RZRRRIR9IZIRIII@                O  31  2046               GEN    724
              *        LTORG*                                                                        GEN
              )0M093 DCW   #02                                             O   2  2048               AREA   724
              )0L093 DCW   #02                                             O   2  2050               AREA   724
                     DCW   @A0@                                            O   2  2052               LIT    724
                     DCW   @?4@                                            O   2  2054               LIT    724
              SAVX2O DCW   #03                                             O   3  2057               AREA   725
              )0M094 DCW   #02                                             O   2  2059               AREA   725
              )0L094 DCW   #02                                             O   2  2061               AREA   725
              CNLS5O DCW   #05                                             O   5  2066               AREA   725
              WK5  O DCW   #05                                             O   5  2071               AREA   725
                     DCW   @0000?@                                         O   5  2076               LIT    725
                     DCW   @0@                                             O   1  2077               LIT    725
                     DCW   @16000@                                         O   5  2082               LIT    726
              MCFL5O DCW   #05                                             O   5  2087               AREA   726
                     DCW   @S@                                             O   1  2088               LIT    726
              HEX1 O DCW   #03                                             O   3  2091               AREA   726
                     DCW   @ @                                             O   1  2092               LIT    726
              CODE O DCW   #04                                             O   4  2096               AREA   726
              WORK O DCW   #10                                             O  10  2106               AREA   726
              BOX  O DCW   #01                                             O   1  2107               AREA   727
                     DCW   @#}@*-&)$,@                                     O   9  2116               LIT    727
              MOD  O DCW   #04                                             O   4  2120               AREA   727
                     DCW   @    @                                         O   4  2124               LIT    727
              HEX2 O DCW   #08                                             O   8  2132               AREA   727
                     DCW   @N@                                             O   1  2133               LIT    727
              TEMP O DCW   #03                                             O   3  2136               AREA   727
              TEMP2O DCW   #03                                             O   3  2139               AREA   728
                     DCW   @MESSAGE 2 - OBJECT PROGRAM TOO LARGE@          O  36  2175               LIT    728
                     DCW   @CONSTANTS LOCATED FROM @                       O  23  2198               LIT    729
              )0M099 DCW   #02                                             O   2  2200               AREA   729
              )0L099 DCW   #02                                             O   2  2202               AREA   729
                     DCW   &1                                              O   1  2203               LIT    729
              WK51 O DCW   #05                                             O   5  2208               AREA   729
                     DCW   @-@                                             O   1  2209               LIT    729
                     DCW   @   @                                           O   3  2212               LIT    729
                     DCW   @ TO @                                          O   4  2216               LIT    730
                     DCW   @SUBSCR@                                        O   6  2222               LIT    730
3919 28 92           DCW   @}@                          SYSTEM GROUP MARK  O   1  2223               GMARK  730
3920 28 93           ORG   TAMAXT&X00                                      O             2600
3921 28 94    SAUCE  EQU   *&1                                             O             2600
3922 28 95           XFR   PHSE3                                           O                  B 849          731
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 SEQ PG LIN  LABEL  OP    OPERANDS                                        SFX CT  LOCN  INSTRUCTION TYPE  CARD
3923 28 96          JOB   1401 FORTRAN  SUBSCRIPTS PHASE                  O
3924 28 97          FBEGN SUBSCR,X1,,X2,,X3,R,W                           O                       MACRO
3925                SFX   W                                               W                       GEN
3926          110   DCW   @SUBSCR@                                       W   6  0110              GEN    734
3927          X1    EQU   089                                             W      0089              GEN
3928          X2    EQU   094                                             W      0094              GEN
3929          X3    EQU   099                                             W      0099              GEN
3930          099   DCW   000                                             W   3  0099              GEN    735
3931          100   DC    0                                               W   1  0100              GEN    735
3932 28 98          ORG   XBEGIN                                          W            0838
3933 28 99    *  SQUEEZE ADDRESSES BETWEEN $ SIGNS TOGETHER, ERROR CHECK
3934 29 00    INITL CS    0&X2                                            W   4  0838  / 0!0               736
3935 29 01          CS                                                    W   1  0842  /                   736
3936 29 02          SBR   X2,1&X1                                         W   7  0843  H 094 0|1           736
3937 29 03          SBR   HEX1#3                                         W   4  0850  H /94              736
3938 29 04    START BCE   OUT,000&X1,      BLANK                         W   8  0854  B /39 0|0           736
3939 29 05          MCW   000&X1,CODE#4                                   W   7  0862  M 0|0 /98           736
3940 29 06          B     SLIDE          X2 INITIALLY GREATER THAN X1     W   4  0869  B |64              736
3941 29 07          BCE   PASS,CODE-3,/                                   W   8  0873  B /31 /95 /         737
3942 29 08          BCE   PASS,CODE-3,F                                   W   8  0881  B /31 /95 F         737
3943 29 09    FIND  BCE   SEEK,000&X1,$                                   W   8  0889  B 923 0|0 $         737
3944 29 10          CHAIN 5                                               W                       MACRO
3945                BCE                                                   W   1  0897  B               GEN    737
3946                BCE                                                   W   1  0898  B               GEN    737
3947                BCE                                                   W   1  0899  B               GEN    737
3948                BCE                                                   W   1  0900  B               GEN    737
3949                BCE                                                   W   1  0901  B               GEN    738
3950 29 11          BWZ   FNISH,000&X1,1      WORD MK                     W   8  0902  V /24 0|0 1         738
3951 29 12          CHAIN 5                                               W                       MACRO
3952                BWZ                                                   W   1  0910  V               GEN    738
3953                BWZ                                                   W   1  0911  V               GEN    738
3954                BWZ                                                   W   1  0912  V               GEN    738
3955                BWZ                                                   W   1  0913  V               GEN    738
3956                BWZ                                                   W   1  0914  V               GEN    738
3957 29 13          SBR   X1                                              W   4  0915  H 089              739
3958 29 14          B     FIND                                            W   4  0919  B 889              739
3959 29 15    SEEK  BCE   FOUND,000&X1,$                                  W   8  0923  B 939 0|0 $         739
3960 29 16          SBR   X1                                              W   4  0931  H 089              739
3961 29 17          B     SEEK                                            W   4  0935  B 923              739
3962 29 18    FOUND SW    000&X1                                          W   4  0939  , 0|0              739
3963 29 19          B     SEND                                            W   4  0943  B /69              739
3964 29 20          MN    000&X1                                          W   4  0947  D 0|0              740
3965 29 21          SAR   X1                                              W   4  0951  Q 089              740
3966 29 22          B     DROP4                                           W   4  0955  B |98              740
3967 29 23    SQUOZ SW    2&X1                                            W   4  0959  , 0|2              740
3968 29 24          B     SEND                                            W   4  0963  B /69              740
3969 29 25          B     DROP4                                           W   4  0967  B |98              740
3970 29 26          BWZ   CPAR,3&X1,S                                     W   8  0971  V |21 0|3 S         740
3971 29 27          BWZ   CPAR,3&X1,K                                     W   8  0979  V |21 0|3 K         741
3972 29 28          FTMSG 12,FLOATING POINT SUBSCRIPT,CODE,26             W                       MACRO
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 SEQ PG LIN  LABEL  OP    OPERANDS                                          SFX CT  LOCN  INSTRUCTION TYPE  CARD
3973                CS    332                                               W  4  0987  / 332       GEN   741
3974                CS                                                      W  1  0991  /           GEN   741
3975                SW    FAILSW                                            W  4  0992  , 184       GEN   741
3976                MN    CODE,224&26                                       W  7  0996  D /98 250   GEN   741
3977                MN                                                      W  1  1003  D           GEN   741
3978                MN                                                      W  1  1004  D           GEN   741
3979                MCW   @ERROR 12 - FLOATING POINT SUBSCRIPT, STATEMENT @  W  4  1005  M S45       GEN   742
3980                W                                                       W  1  1009  2           GEN   742
3981                BCV   *&5                                               W  5  1010  B |19 @     GEN   742
3982                B     *&3                                               W  4  1015  B |21       GEN   742
3983                CC    1                                                 W  2  1019  F 1         GEN   742
3984 29 29  CPAR    SW    2&X1                                              W  4  1021  , 0|2             742
3985 29 30          B     SEND                                              W  4  1025  B /69             742
3986 29 31          B     DROP4                                             W  4  1029  B |98             743
3987 29 32          C     001&X1,@$@                                        W  7  1033  C 0|1 S46          743
3988 29 33          BU    SQUOZ                                             W  5  1040  B 959 /           743
3989 29 34          SW    001&X1                                            W  4  1045  , 0|1             743
3990 29 35          B     SEND                                              W  4  1049  B /69             743
3991 29 36          MCW   X1,X3                                             W  7  1053  M 089 099         743
3992 29 37          B     FIND                                              W  4  1060  B 889             743
3993 29 38  SLIDE   SBR   EXSLD&3                                           W  4  1064  H |97             744
3994 29 39          MVDWN X1,X2                                             W                 MACRO
3995                LCA   0&X1,0&X2                                         W  7  1068  L 0|0 0!0   GEN   744
3996                SAR   X1                                                W  4  1075  Q 089       GEN   744
3997                C     0&X2                                              W  4  1079  C 0!0       GEN   744
3998                SAR   X2                                                W  4  1083  Q 094       GEN   744
3999 29 40          MCW   X1,X3                                             W  7  1087  M 089 099         744
4000 29 41  EXSLD   B     000                                               W  4  1094  B 000             744
4001 29 42  DROP4   SBR   EXDRP&3                                           W  4  1098  H /23             745
4002 29 43          MCW   X1,X3                                             W  7  1102  M 089 099         745
4003 29 44          MN    0&X1                                              W  4  1109  D 0|0            745
4004 29 45          CHAIN 3                                                 W                 MACRO
4005                MN                                                      W  1  1113  D           GEN   745
4006                MN                                                      W  1  1114  D           GEN   745
4007                MN                                                      W  1  1115  D           GEN   745
4008 29 46          SBR   X1                                                W  4  1116  H 089           745
4009 29 47  EXDRP   B     000                                               W  4  1120  B 000             746
4010 29 48  FNISH   MCW   X3,X1                                             W  7  1124  M 099 089         746
4011 29 49  PASS    B     SLIDE                                             W  4  1131  B |64             746
4012 29 50          B     START                                             W  4  1135  B 854             746
4013 29 51  OUT     MCW   HEX1,X1                                           W  7  1139  M /94 089         746
4014 29 52          FENDX C,,,,,,SYS1,STNUM ONE                             W                 MACRO
4015                BSS   333,C                                             W  5  1146  B 333 C     GEN   746
4016                SBR   TCLEAR,SYS1                                       W  7  1151  H 710 S56   GEN   746
4017                LCA   @STNUM ONE@,110                                   W  7  1158  L S55 110   GEN   747
4018                B     MONTER                                            W  4  1165  B 700       GEN   747
4019 29 53  SEND    SBR   EXSND&3                                           W  4  1169  H /91            747
4020 29 54          LCA   000&X3,000&X2                                     W  7  1173  L 0?0 0!0        747
4021 29 55          SBR   X2                                                W  4  1180  H 094            747
4022 29 56          CW    001&X2                                            W  4  1184  ) 0!1            747
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 SEQ PG LIN  LABEL   OP    OPERANDS                                          SFX CT  LOCN  INSTRUCTION TYPE  CARD
4023 29 57   EXSND   B     000                                                W   4  1188  B 000             747
4024 29 58           LTORG *                                                  W             1192
             HEX1 W  DCW   #03                                                W   3  1194              AREA  748
             CODE W  DCW   #04                                                W   4  1198              AREA  748
                     DCW   @ERROR 12 - FLOATING POINT SUBSCRIPT, STATEMENT @   W  47  1245              LIT   750
                     DCW   @$@                                                W   1  1246              LIT   750
                     DCW   @STNUM ONE@                                        W   9  1255              LIT   750
4025 29 59   SYS1    DCW   @}@                          SYSTEM GROUP MARK     W   1  1256              GMARK 750
4026 29 60           XFR   INITL                                              W             B 838             751
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 SEQ PG LIN  LABEL  OP    OPERANDS                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD
4027 29 61          JOB   1401 FORTRAN   STATEMENT NUMBER PHASE ONE  W
4028 29 62          FBEGN STNUM ONE,X1,,X2,,X3,R,M                   W                    MACRO
4029                SFX   M                                        M                    GEN
4030          110   DCW   @STNUM ONE@                               M   9  0110            GEN    754
4031          X1    EQU   089                                      M      0089            GEN
4032          X2    EQU   094                                      M      0094            GEN
4033          X3    EQU   099                                      M      0099            GEN
4034          099   DCW   000                                      M   3  0099            GEN    755
4035          100   DC    0                                        M   1  0100            GEN    755
4036 29 63          ORG   XBEGIN                                   M          0838
4037 29 64    NXBTM EQU   083                                      M      0083
4038 29 65    INITL CS    0&X2                                     M   4  0838  / 0!0             756
4039 29 66          MCW   NXBTM,X2                                 M   7  0842  M 083 094         756
4040 29 67          SW    GM               FROM THE BOTTOM         M   4  0849  , Z30             756
4041 29 68          LCA   GM,000&X2                                M   7  0853  L Z30 0!0         756
4042 29 69          SBR   X2                                       M   4  0860  H 094             756
4043 29 70    START BCE   OUT,000&X1,       BLANK                  M   8  0864  B Y99 0|0         756
4044 29 71          LCA   000&X1,WORK1#10                          M   7  0872  L 0|0 !09         757
4045 29 72          SAR   X1                                       M   4  0879  Q 089             757
4046 29 73          CW    001&X1                                   M   4  0883  ) 0|1             757
4047 29 74          SW    WORK1-3                                  M   4  0887  , !06             757
4048 29 75          LCA   WORK1,000&X2                            M   7  0891  L !09 0!0         757
4049 29 76          SBR   X2                                       M   4  0898  H 094             757
4050 29 77          CW    001&X2                                   M   4  0902  ) 0!1             757
4051 29 78          BWZ   LABEL,WORK1-4,2        NO ZONE           M   8  0906  V |03 !05 2       758
4052 29 79    TOP   LCA   GM,000&X2                                M   7  0914  L Z30 0!0         758
4053 29 80          SBR   X2                                       M   4  0921  H 094             758
4054 29 81          MCW   WORK1-3,TEST&7                          M   7  0925  M !06 939         758
4055 29 82    TEST  BCE   WORRY,@WT65UPLDEGK@,0                    M   8  0932  B |26 !20 0       758
4056 29 83          CHAIN 10                                       M                    MACRO
4057                BCE                                          M   1  0940  B                 GEN    758
4058                BCE                                          M   1  0941  B                 GEN    758
4059                BCE                                          M   1  0942  B                 GEN    759
4060                BCE                                          M   1  0943  B                 GEN    759
4061                BCE                                          M   1  0944  B                 GEN    759
4062                BCE                                          M   1  0945  B                 GEN    759
4063                BCE                                          M   1  0946  B                 GEN    759
4064                BCE                                          M   1  0947  B                 GEN    759
4065                BCE                                          M   1  0948  B                 GEN    759
4066                BCE                                          M   1  0949  B                 GEN    760
4067 29 84          BCE   KILL,WORK1-3,/                         M   8  0950  B 981 !06 /       760
4068 29 85    BOTM  MVDWN X1,X2                                    M                    MACRO
4069          BOTM  LCA   0&X1,0&X2                                M   7  0958  L 0|0 0!0         GEN    760
4070                SAR   X1                                       M   4  0965  Q 089             GEN    760
4071                C     0&X2                                     M   4  0969  C 0!0             GEN    760
4072                SAR   X2                                       M   4  0973  Q 094             GEN    760
4073 29 86          B     START                                    M   4  0977  B 864                   760
4074 29 87    KILL  C     0&X1                                     M   4  0981  C 0|0                   761
4075 29 88          SAR   X1                                       M   4  0985  Q 089                   761
4076 29 89          MCM   4&X2                                     M   4  0989  P 0!4                   761
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 SEQ PG LIN  LABEL  OP    OPERANDS                                          SFX CT  LOCN  INSTRUCTION TYPE  CARD

4077 29 90          MN                                                       M   1  0993  D                  761
4078 29 91          MN                                                       M   1  0994  D                  761
4079 29 92          SAR   X2                                                 M   4  0995  Q 094              761
4080 29 93          B     START                                              M   4  0999  B 864              761
4081 29 94   LABEL  LCA   WORK1-4,STATE#6                                    M   7  1003  L !05 !26          762
4082 29 95          SBR   X3                                                 M   4  1010  H 099              762
4083 29 96          SW    002&X3                                             M   4  1014  , 0?2              762
4084 29 97          B     ALPHA                                              M   4  1018  B W10              762
4085 29 98          B     TOP                                                M   4  1022  B 914              762
4086 29 99   WORRY  B     IFEXP,WORK1-3,E                                    M   8  1026  B T62 !06 E        762
4087 30 00          BCE   DO,WORK1-3,D                                       M   8  1034  B S76 !06 D        762
4088 30 01          BCE   INOUT,WORK1-3,5                                    M   8  1042  B /30 !06 5        763
4089 30 02          BCE   INOUT,WORK1-3,6                                    M   8  1050  B /30 !06 6        763
4090 30 03          BCE   PUTE,WORK1-3,T                                     M   8  1058  B |90 !06 T        763
4091 30 04          BCE   SENSE,WORK1-3,W                                    M   8  1066  B /93 !06 W        763
4092 30 05          BCE   SENSE,WORK1-3,K                                    M   8  1074  B /93 !06 K        764
4093 30 06          B     GRAB1                                              M   4  1082  B U73              764
4094 30 07          B     BOTM                                               M   4  1086  B 958              764
4095 30 08   PUTE   B     GRAB1                                              M   4  1090  B U73              764
4096 30 09          BCE   OVER,000&X1,)        RT PAREN                      M   8  1094  B /18 0|0 )        764
4097 30 10          BCE   SYNER,0&X1,}                    GM                 M   8  1102  B Y02 0|0 } GMARK  764
4098 30 11          SBR   X1                                                 M   4  1110  H 089              765
4099 30 12          B     PUTE                                               M   4  1114  B |90              765
4100 30 13   OVER   MN    000&X1                                             M   4  1118  D 0|0              765
4101 30 14          SAR   X1                                                 M   4  1122  Q 089              765
4102 30 15          B     BOTM                                               M   4  1126  B 958              765
4103 30 16   INOUT  MCW   X1,LOAD&3                                          M   7  1130  M 089 /77          765
4104 30 17   FIND   BCE   TPNAM,000&X1,,       COMMA                         M   8  1137  B /61 0|0 ,        765
4105 30 18          BCE   SYNER,0&X1,}                    GM                 M   8  1145  B Y02 0|0 } GMARK  766
4106 30 19          SBR   X1                                                 M   4  1153  H 089              766
4107 30 20          B     FIND                                               M   4  1157  B /37              766
4108 30 21   TPNAM  SW    001&X1                                             M   4  1161  , 0|1              766
4109 30 22          MN                                                       M   1  1165  D                  766
4110 30 23          SAR   X1                                                 M   4  1166  Q 089              766
4111 30 24          B     GRAB1                                              M   4  1170  B U73              766
4112 30 25   LOAD   LCA   000,000&X2                                         M   7  1174  L 000 0!0          767
4113 30 26          SBR   X2                                                 M   4  1181  H 094              767
4114 30 27          CW    001&X2                                             M   4  1185  ) 0!1              767
4115 30 28          B     BOTM                                               M   4  1189  B 958              767
4116 30 29   SENSE  MCW   X1,LOAD&3                                          M   7  1193  M 089 /77          767
4117 30 30   FIND2  BCE   WITCH,000&X1,)       RT PAREN                      M   8  1200  B S24 0|0 )        767
4118 30 31          BCE   SYNER,0&X1,}                    GM                 M   8  1208  B Y02 0|0 } GMARK  768
4119 30 32          SBR   X1                                                 M   4  1216  H 089              768
4120 30 33          B     FIND2                                              M   4  1220  B S00              768
4121 30 34   WITCH  SW    001&X1                                             M   4  1224  , 0|1              768
4122 30 35          MN                                                       M   1  1228  D                  768
4123 30 36          SAR   X1                                                 M   4  1229  Q 089              768
4124 30 37          B     GRAB1                                              M   4  1233  B U73              768
4125 30 38          MN    000&X1                                             M   4  1237  D 0|0              769
4126 30 39          SAR   X1                                                 M   4  1241  Q 089              769
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 SEQ PG LIN  LABEL  OP    OPERANDS                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD
4127 30 40          BCE   SYNER,0&X1,}                  GM          M  8  1245  B Y02 0|0 } GMARK  769
4128 30 41          B     GRAB1                                     M  4  1253  B U73              769
4129 30 42   COMMA  LCA   @,@,000&X2                               M  7  1257  L !27 0!0          769
4130 30 43          SBR   X2                                        M  4  1264  H 094              769
4131 30 44          CW    001&X2                                    M  4  1268  ) 0!1              769
4132 30 45          B     LOAD                                      M  4  1272  B /74              770
4133 30 46   DO     MCW   X1,X3                                     M  7  1276  M 089 099          770
4134 30 47   VARBL  BCE   BACK2,0&X3,#                            M  8  1283  B S99 0?0 #        770
4135 30 48          SBR   X3                                        M  4  1291  H 099              770
4136 30 49          B     VARBL                                     M  4  1295  B S83              770
4137 30 50   BACK2  MCW   3&X3,SVZN#1                             M  7  1299  M 0?3 !28          770
4138 30 51          MCW   @,@,3&X3                                M  7  1306  M !27 0?3          771
4139 30 52          SBR   HEX3#3,3&X3                            M  7  1313  H !31 0?3          771
4140 30 53          B     GRAB1                                     M  4  1320  B U73              771
4141 30 54          C     HEX3,X1                                   M  7  1324  C !31 089          771
4142 30 55          BU    SYNER                                     M  5  1331  B Y02 /            771
4143 30 56          MCW   SVZN,0&X1                               M  7  1336  M !28 0|0          771
4144 30 57          LCA   @,@,000&X2                              M  7  1343  L !27 0!0          772
4145 30 58          SBR   X2                                        M  4  1350  H 094              772
4146 30 59          CW    001&X2                                    M  4  1354  ) 0!1              772
4147 30 60          B     BOTM                                      M  4  1358  B 958              772
4148 30 61   IFEXP  MCW   X1,LOAD&3                               M  7  1362  M 089 /77          772
4149 30 62   RTPAR  BCE   NOZO,000&X1,)                           M  8  1369  B T93 0|0 )        772
4150 30 63          BCE   SYNER,0&X1,}                  GM          M  8  1377  B Y02 0|0 } GMARK  773
4151 30 64          SBR   X1                                        M  4  1385  H 089              773
4152 30 65          B     RTPAR                                     M  4  1389  B T69              773
4153 30 66   NOZO   MN    000&X1                                    M  4  1393  D 0|0              773
4154 30 67          SAR   X1                                        M  4  1397  Q 089              773
4155 30 68          BWZ   YEAH,000&X1,2        NO ZONE              M  8  1401  V U13 0|0 2       773
4156 30 69          B     RTPAR                                     M  4  1409  B T69              773
4157 30 70   YEAH   BCE   RTPAR,0&X1,@                            M  8  1413  B T69 0|0 @        774
4158 30 71          SW    1&X1                                      M  4  1421  , 0|1             774
4159 30 72          B     GRAB1                                     M  4  1425  B U73              774
4160 30 73          MN    000&X1                                    M  4  1429  D 0|0              774
4161 30 74          SAR   X1                                        M  4  1433  Q 089              774
4162 30 754         BCE   BADST,0&X1,}                  GM    V3M4  M  8  1437  B Y48 0|0 } GMARK  774
4163 30 764         MN    0&X1                          V3M4  V3M4  M  4  1445  D 0|0              774
4164 30 774         SAR   X1                            V3M4  V3M4  M  4  1449  Q 089              775
4165 30 784         B     GRAB1                         V3M4  V3M4  M  4  1453  B U73              775
4166 30 794         BCE   BADST,0&X1,}                  GM    V3M4  M  8  1457  B Y48 0|0 } GMARK  775
4167 30 80          B     GRAB1                                     M  4  1465  B U73              775
4168 30 81          B     COMMA                                     M  4  1469  B S57              775
4169 30 82   GRAB1  SBR   EXIT2&3                                  M  4  1473  H W09              775
4170 30 83          MCW   X1,TAKE&3                               M  7  1477  M 089 V94          775
4171 30 84          BWZ   LOOP,000&X1,2        NO ZONE              M  8  1484  V U96 0|0 2       776
4172 30 85          B     BADST                                     M  4  1492  B Y48              776
4173 30 86   LOOP   MN    000&X1                                    M  4  1496  D 0|0              776
4174 30 87          SAR   X1                                        M  4  1500  Q 089              776
4175 30 88          BWZ   LOOP,000&X1,2         NO ZONE             M  8  1504  V U96 0|0 2       776
4176 30 89          FBCEQ SETWM,0&X1,,,},)                COMMA,GM  M                  MACRO
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 SEQ PG LIN  LABEL  OP    OPERANDS                                SFX CT  LOCN  INSTRUCTION TYPE  CARD
4177                BCE   SETWM, 0&X1, ,                           M  8  1512  B V40 0|0 , GEN    776
4178                BCE   SETWM, 0&X1, }                           M  8  1520  B V40 0|0 } GEN    777
4179                BCE   SETWM, 0&X1, )                           M  8  1528  B V40 0|0 ) GEN    777
4180 30 90          B     BADST                                    M  4  1536  B Y48               777
4181 30 91  SETWM   SW    1&X1                                     M  4  1540  , 0|1               777
4182 30 911         SW    MKTST&1                            V3M4  M  4  1544  , V60               777
4183 30 912         MLC   TAKE&3,MKTST&3                       V3M4  M  7  1548  M V94 V62           777
4184 30 913         CW    MKTST&1                            V3M4  M  4  1555  ) V60               777
4185 30 914 MKTST   MLC   0,TEST                              V3M4  M  7  1559  M 000 932           778
4186 30 915         B     TAKE,TEST5-5,:       5-8           V3M4  M  8  1566  B V91 V85 :         778
4187 30 916         MLC   @:@,TEST5-5          5-8           V3M4  M  7  1574  M !32 V85          778
4188 30 917         B     BADST                              V3M4  M  4  1581  B Y48             778
4189 30 918 TEST5   DCW   @:    @              5-8, BLANK....V3M4  M  6  1590                   778
4190 30 92  TAKE    LCA   000,STATE                                M  7  1591  L 000 !26          778
4191 30 93          CW    001&X1                                   M  4  1598  ) 0|1              779
4192 30 94          B     ALPHA                                    M  4  1602  B W10              779
4193 30 95  EXIT2   B     000                                      M  4  1606  B 000              779
4194 30 96  ALPHA   SBR   EXIT1&3                                  M  4  1610  H Y01              779
4195 30 97          LCA   SIX0,PLACE                               M  7  1614  L Z99 Z37          779
4196 30 98          C     SIX0,STATE                               M  7  1621  C Z99 !26          779
4197 30 99          BU    NORM                                     M  5  1628  B W37 /            779
4198 31 00          B     SET3                                     M  4  1633  B W71              780
4199 31 01  NORM    SBR   X3,STATE&1                              M  7  1637  H 099 !27          780
4200 31 02  ZERO    MN    000&X3                                   M  4  1644  D 0?0              780
4201 31 03          SAR   X3                                       M  4  1648  Q 099              780
4202 31 04          BCE   ZERO,000&X3,0                            M  8  1652  B W44 0?0 0        780
4203 31 05          MCW   000&X3,PLACE                             M  7  1660  M 0?0 Z37          780
4204 31 06          MCW   @1@                                      M  4  1667  M !33             780
4205 31 07  SET3    SW    PLACE-1                                  M  4  1671  , Z36              781
4206 31 08          CW                                             M  1  1675  )                  781
4207 31 09          SW                                             M  1  1676  ,                  781
4208 31 10          CW                                             M  1  1677  )                  781
4209 31 11          SW                                             M  1  1678  ,                  781
4210 31 12          S     @5050@,PLACE                             M  7  1679  S !37 Z37          781
4211 31 13          S                                              M  1  1686  S                  781
4212 31 14          BWZ   TRY2,PLACE,K         B-BIT              M  8  1687  V X02 Z37 K        782
4213 31 15          A     @1@,PLACE-5                              M  7  1695  A !33 Z32          782
4214 31 16  TRY2    BWZ   STRIP,PLACE-2,K      B-BIT              M  8  1702  V X17 Z35 K        782
4215 31 17          A     @2@,PLACE-5                              M  7  1710  A !38 Z32          782
4216 31 18  STRIP   MZ    @Z Z Z @,PLACE       SET UP FOR GENER   M  7  1717  Y !44 Z37          782
4217 31 19          CHAIN 5                                        M                   MACRO
4218                MZ                                             M  1  1724  Y           GEN    782
4219                MZ                                             M  1  1725  Y           GEN    782
4220                MZ                                             M  1  1726  Y           GEN    783
4221                MZ                                             M  1  1727  Y           GEN    783
4222                MZ                                             M  1  1728  Y           GEN    783
4223 31 20          MCW   X1,HEX1                                  M  7  1729  M 089 Z41          783
4224 31 21          MCW   &TABLE-49,X1                            M  7  1736  M !47 089          783
4225 31 22          MCW   &PLACE,X3                               M  7  1743  M !50 099          783
4226 31 23  COOL    MCW   000&X3,GENER&3                         M  7  1750  M 0?0 X64          783
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 SEQ PG LIN  LABEL  OP    OPERANDS                                                SFX CT  LOCN  INSTRUCTION TYPE  CARD
4227 31 24          SAR   X3                                                      M   4  1757  Q 099             784
4228 31 25   GENER   MCW   000,BOX    MODIFIED AND INDEXED BY X1                  M   7  1761  M 000 Z38         784
4229 31 26          LCA   BOX,000&X2                                            M   7  1768  L Z38 0!0         784
4230 31 27          SBR   X2                                                      M   4  1775  H 094             784
4231 31 28          CW    001&X2                                                  M   4  1779  ) 0!1             784
4232 31 29          BWZ   COOL,000&X3,2  NO ZONE                                M   8  1783  V X50 0?0 2       784
4233 31 30          MCW   HEX1,X1                                                M   7  1791  M Z41 089         785
4234 31 31   EXIT1  B     000                                                     M   4  1798  B 000             785
4235 31 32   SYNER  FTMSG 13,STATEMENT NUMBER SYNTAX,WORK1,25                     M                    MACRO
4236        SYNER  CS    332                                                     M   4  1802  / 332       GEN   785
4237               CS                                                           M   1  1806  /           GEN   785
4238               SW    FAILSW                                                  M   4  1807  , 184       GEN   785
4239               MN    WORK1,224&25                                            M   7  1811  D !09 249   GEN   785
4240               MN                                                           M   1  1818  D           GEN   785
4241               MN                                                           M   1  1819  D           GEN   786
4242               MCW   @ERROR 13 - STATEMENT NUMBER SYNTAX, STATEMENT @       M   4  1820  M !96       GEN   786
4243               W                                                            M   1  1824  2           GEN   786
4244               BCV   *&5                                                    M   5  1825  B Y34 @     GEN   786
4245               B     *&3                                                    M   4  1830  B Y36       GEN   786
4246               CC    1                                                      M   2  1834  F 1         GEN   786
4247 31 33          BW    PMOV,BADSW                                             M   8  1836  V Y56 Z42 1       786
4248 31 34          B     ERR                                                    M   4  1844  B Y77             787
4249 31 35   BADST  SW    BADSW                                                  M   4  1848  , Z42            787
4250 31 36          B     SYNER                                                  M   4  1852  B Y02            787
4251 31 37   PMOV   MCM   1&X2                                                   M   4  1856  P 0!1            787
4252 31 38          MN                                                           M   1  1860  D                787
4253 31 39          SAR   X2                                                     M   4  1861  Q 094            787
4254 31 40          BCE   PMOV,0&X2,|                                           M   8  1865  B Y56 0!0 |       787
4255 31 41          CW    BADSW                                                  M   4  1873  ) Z42            788
4256 31 42   ERR    MCM   4&X2                                                   M   4  1877  P 0!4            788
4257 31 43          MN                                                           M   1  1881  D                788
4258 31 44          MN                                                           M   1  1882  D                788
4259 31 45          SAR   X2                                                     M   4  1883  Q 094            788
4260 31 46          C     0&X1                                                   M   4  1887  C 0|0            788
4261 31 47          SAR   X1                                                     M   4  1891  Q 089            788
4262 31 48          B     START                                                  M   4  1895  B 864            789
4263 31 49   OUT    FENDX C,,,,TAMROF,,TAMR1T,TAMROF ONE                        M                    MACRO
4264        OUT    BSS   333,C                                                  M   5  1899  B 333 C     GEN   789
4265               SBR   INITXT&3,TAMROF                                        M   7  1904  H 796 980   GEN   789
4266               SBR   TCLEAR,TAMR1T                                         M   7  1911  H 710 V99   GEN   789
4267               LCA   @TAMROF ONE@,110                                      M   7  1918  L J06 110   GEN   789
4268               B     MONTER                                                 M   4  1925  B 700       GEN   789
4269 31 50          DCW   @ @                                                    M   1  1929                    789
4270 31 51   GM     DC    @}@                                 G-M              M   1  1930              GMARK 789
4271 31 52          DC    @.@                                                    M   1  1931                    789
4272 31 53   PLACE  DCW   @      @                                              M   6  1937                    790
4273 31 54   BOX    DCW   @ @                                                    M   1  1938                    790
4274 31 55   HEX1   DCW   @   @                                                  M   3  1941                    790
4275 31 56   BADSW  DC    #1                                                     M   1  1942                    790
4276 31 57   TABLE  DC    @.")&$*-%#@?ABCDEFGHI!JKLMNOPQR_/STUVWXYZ0123456789@ M  50  1992                    792
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 SEQ PG LIN  LABEL   OP     OPERANDS                                          SFX CT  LOCN  INSTRUCTION TYPE  CARD
4277 31 58           DC     @.@                                                M  1  1993                    792
4278 31 59    SIX0   DCW    @000000@                                           M  6  1999                    792
4279 31 60    *             & IS 12-0 PUNCH, - 11-0 PUNCH   .,0-7-8  R,11-7-8
4280 31 61    *             NO COMMA, RECORD MARK, OR GROUP MARK IN TABLE
4281 31 62           LTORG  *                                                  M           2000
              WORK1M DCW    #10                                                M 10  2009              AREA  792
                     DCW    @WT65UPLDEGK@                                      M 11  2020              LIT   792
              STATEM DCW    #06                                                M  6  2026              AREA  793
                     DCW    @,@                                                M  1  2027              LIT   793
              SVZN M DCW    #01                                                M  1  2028              AREA  793
              HEX3 M DCW    #03                                                M  3  2031              AREA  793
                     DCW    @:@                                                M  1  2032              LIT   793
                     DCW    @1@                                                M  1  2033              LIT   793
                     DCW    @5050@                                             M  4  2037              LIT   793
                     DCW    @2@                                                M  1  2038              LIT   794
                     DCW    @Z Z Z @                                           M  6  2044              LIT   794
                     DCW    &TABLEM-49                                         M  3  2047  Z43         ADCON 794
                     DCW    &PLACEM                                            M  3  2050  Z37         ADCON 794
                     DCW    @ERROR 13 - STATEMENT NUMBER SYNTAX, STATEMENT @   M 46  2096              LIT   796
                     DCW    @TAMROF ONE@                                       M 10  2106              LIT   796
4282 31 63           DCW    @}@                          SYSTEM GROUP MARK     M  1  2107              GMARK 796
4283 31 64           XFR    INITL                                              M           B 838             797
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 SEQ PG LIN  LABEL  OP    OPERANDS                                          SFX CT  LOCN  INSTRUCTION TYPE  CARD
4284 31 65          JOB   1401 FORTRAN  TAMROF PHASE ONE  FORMAT SPECS     M
4285 31 66          FBEGN TAMROF ONE,X1,R,X2,,X3,R,T,XXX                    M                    MACRO
4286                SFX   T                                                 T                    GEN
4287          XXX   EQU   0                                                 T      0000          GEN
4288          110   DCW   @TAMROF ONE@                                      T  10  0110          GEN    800
4289          X1    EQU   089                                               T      0089          GEN
4290          089   DCW   000                                               T   3  0089          GEN    801
4291          091   DC    00                                                T   2  0091          GEN    801
4292          X2    EQU   094                                               T      0094          GEN
4293          X3    EQU   099                                               T      0099          GEN
4294          099   DCW   000                                               T   3  0099          GEN    802
4295          100   DC    0                                                 T   1  0100          GEN    802
4296 31 67    *
4297 31 68    NXBTM EQU   83                                                T      0083
4298 31 69    *
4299 31 70          ORG   XBEGIN                                            T             0838
4300 31 71    KLOBR FQUIT                                                   T                    MACRO
4301          KLOBR CS    332                                               T   4  0838  / 332       GEN    803
4302                CS                                                    T   1  0842  /           GEN    803
4303                CC    1                                               T   2  0843  F 1         GEN    803
4304                MCW   @MESSAGE 2 - OBJECT PROGRAM TOO LARGE@,270       T   7  0845  M 963 270   GEN    803
4305                W                                                     T   1  0852  2           GEN    803
4306                CC    1                                               T   2  0853  F 1         GEN    803
4307                BCE   *&6,MONTOR,1                                     T   8  0855  B 868 769 1 GEN    803
4308                RWD   1                                               T   5  0863  U %U1 R     GEN    804
4309                H     *-3                                             T   4  0868  . 868       GEN    804
4310 31 72    CKBIT DCW   @;@   11-6-8                                     T   1  0872                     804
4311 31 73    HEX3  DCW   #3                                                T   3  0875                     804
4312 31 74    CODE  DCW   #4                                                T   4  0879                     804
4313 31 75    *                                    ERROR MESSAGE ROUTINE
4314 31 76    *
4315 31 77    ERROR EQU   206                                               T      0206
4316 31 78    PRNTN EQU   250                                               T      0250
4317 31 79    *
4318 31 80    GETST SBR   GSTXT&3                                           T   4  0880  H 927             804
4319 31 81          FORMS                                                   T                    MACRO
4320                BCV   *&5                                               T   5  0884  B 893 @     GEN    804
4321                B     *&3                                             T   4  0889  B 895       GEN    805
4322                CC    1                                               T   2  0893  F 1         GEN    805
4323 31 82          CS    332                                             T   4  0895  / 332             805
4324 31 83          CS                                                    T   1  0899  /                 805
4325 31 84          SW    FAILSW                                          T   4  0900  , 184             805
4326 31 85          MN    CODE,PRNTN                                      T   7  0904  D 879 250         805
4327 31 86          CHAIN 2                                               T                    MACRO
4328                MN                                                    T   1  0911  D           GEN    805
4329                MN                                                    T   1  0912  D           GEN    806
4330 31 87          MCW   @STATEMENT  @                                   T   4  0913  M 974             806
4331 31 88          MCW   @ERROR@, ERROR-1                                T   7  0917  M 979 205         806
4332 31 89    GSTXT B     XXX                                             T   4  0924  B 000             806
4333 31 90    *
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 SEQ PG LIN  LABEL   OP     OPERANDS                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD
4334 31 91           LTORG  *                                          T          0928
                     DCW    @MESSAGE 2 - OBJECT PROGRAM TOO LARGE@     T  36  0963            LIT   807
                     DCW    @STATEMENT  @                              T  11  0974            LIT   808
                     DCW    @ERROR@                                    T   5  0979            LIT   808
4335 31 92    *
4336 31 93    TAMROF CS     1&X2                                       T   4  0980  / 0!1              808
4337 31 94           SBR    X1                                         T   4  0984  H 089              808
4338 31 95           SW     GM1                                        T   4  0988  , V03              808
4339 31 96    CLR    CS     0&X1                                       T   4  0992  / 0|0              808
4340 31 97           SBR    X1                                         T   4  0996  H 089              808
4341 31 98           C      X1, &TAMR1                                 T   7  1000  C 089 U36          809
4342 31 99           BU     CLR                                        T   5  1007  B 992 /            809
4343 32 00           LCA    GM1, TAMAX&1                               T   7  1012  L V03 O01          809
4344 32 01           SBR    X1, TAMAX&2                                T   7  1019  H 089 O02          809
4345 32 02           SBR    X2, 2&X2                                   T   7  1026  H 094 0!2          809
4346 32 03           MCW    @.@, 96                                    T   7  1033  M U37 096          810
4347 32 04           SW     IOSW#1                                     T   4  1040  , U38              810
4348 32 05    CHKND  MCW    NXBTM, X3                                  T   7  1044  M 083 099          810
4349 32 06           SBR    X3, 1&X3                                   T   7  1051  H 099 0?1          810
4350 32 07           C      X3,X2                                      T   7  1058  C 099 094          810
4351 32 08           BE     FINI                                       T   5  1065  B S16 S            810
4352 32 09           CW     DBLSW#1                                    T   4  1070  ) U39              811
4353 32 10           MN     0&X2                                       T   4  1074  D 0!0              811
4354 32 11           SAR    X3                                         T   4  1078  Q 099              811
4355 32 12           MCW    CKBIT                                      T   4  1082  M 872              811
4356 32 13    MVUP2  MOVUP  X2,X1,,,|                                  T                       MACRO
4357         MVUP2  MN     0&X1                                       T   4  1086  D 0|0        GEN   811
4358                SAR    X1                                         T   4  1090  Q 089        GEN   811
4359         )0J114 MCM    0&X2                                       T   4  1094  P 0!0        GEN   811
4360                SAR    )0L114&6                                   T   4  1098  Q /20        GEN   812
4361                MCM    0&X2,1&X1                                  T   7  1102  P 0!0 0|1    GEN   812
4362                MN                                                T   1  1109  D            GEN   812
4363                SBR    X1                                         T   4  1110  H 089        GEN   812
4364         )0L114 SBR    X2,0                                       T   7  1114  H 094 000    GEN   812
4365                BCE    )0J114,0&X1,|                              T   8  1121  B |94 0|0 |  GEN   812
4366                MN     0&X2                                       T   4  1129  D 0!0        GEN   812
4367                CW                                                T   1  1133  )            GEN   813
4368                SW     0&X1                                       T   4  1134  , 0|0        GEN   813
4369                SBR    X1, 1&X1                                   T   7  1138  H 089 0|1    GEN   813
4370 32 14          BW     BOTH,DBLSW                                 T   8  1145  V /61 U39 1        813
4371 32 15          SW     DBLSW                                      T   4  1153  , U39              813
4372 32 16          B      MVUP2                                      T   4  1157  B |86              813
4373 32 17    BOTH   MN     0&X1                                       T   4  1161  D 0|0              813
4374 32 18           MN                                                T   1  1165  D                  814
4375 32 19           SAR    X3                                         T   4  1166  Q 099              814
4376 32 20           SBR    MKFMT&6                                    T   4  1170  H T97              814
4377 32 21           MCW    0&X3, CODE                                 T   7  1174  M 0?0 879          814
4378 32 22           SAR    X3                                         T   4  1181  Q 099              814
4379 32 23           B      CKFMT, CODE-3, F                           T   8  1185  B T15 876 F        814
4380 32 24           MCW    CODE-3, *&8                                T   7  1193  M 876 S07          814
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 SEQ PG LIN  LABEL  OP    OPERANDS                                          SFX CT  LOCN  INSTRUCTION TYPE  CARD
4381 32 25          BCE   YESIO, @56ULP@, X                                 T  8  1200  B S91 U44 X       815
4382 32 26          CHAIN 4                                                 T                  MACRO
4383                BCE                                                     T  1  1208  B           GEN   815
4384                BCE                                                     T  1  1209  B           GEN   815
4385                BCE                                                     T  1  1210  B           GEN   815
4386                BCE                                                     T  1  1211  B           GEN   815
4387 32 27          B     CHKND                                             T  4  1212  B |44           815
4388 32 28  FINI    MN    0&X1                                              T  4  1216  D 0|0           815
4389 32 29          MN                                                      T  1  1220  D               816
4390 32 30          SAR   X1                                               T  4  1221  Q 089           816
4391 32 31          MCW   LSTIO, X2                                         T  7  1225  M U57 094       816
4392 32 32          MCW   NXBTM, X3                                        T  7  1232  M 083 099       816
4393 32 33          MCW   @ @, 0&X3                                        T  7  1239  M U45 0?0       816
4394 32 34          MCW   0&X3                                              T  4  1246  M 0?0           816
4395 32 35          MCW   CKBIT, 0&X3                                      T  7  1250  M 872 0?0       816
4396 32 36          FENDX C,GM1,,TAMROF,,TAMROF,TAMAX,TAMROF 2              T                  MACRO
4397                BSS   333,C                                             T  5  1257  B 333 C     GEN   817
4398                SBR   INITAP&6,TAMROF                                   T  7  1262  H 786 980   GEN   817
4399                SBR   BCLEAR                                           T  4  1269  H 833       GEN   817
4400                SBR   TCLEAR,TAMAX                                      T  7  1273  H 710 O00   GEN   817
4401                LCA   @TAMROF 2@,110                                   T  7  1280  L U53 110   GEN   817
4402                B     MONTER                                            T  4  1287  B 700       GEN   817
4403 32 37  *
4404 32 38  YESIO  MZ    @A@, 3&X3                                         T  7  1291  Y U54 0?3       818
4405 32 39          CW    IOSW                                              T  4  1298  ) U38           818
4406 32 40          MN    0&X1                                              T  4  1302  D 0|0           818
4407 32 41          MN                                                      T  1  1306  D               818
4408 32 42          SAR   LSTIO#3                                          T  4  1307  Q U57           818
4409 32 43          B     CHKND                                             T  4  1311  B |44           818
4410 32 44  *
4411 32 45  CKFMT  MCW   @ @, 96                                           T  7  1315  M U45 096       818
4412 32 46          BW    UNREF, IOSW                                       T  8  1322  V T61 U38 1     819
4413 32 47          BCE   UNREF, 0&X3,}       GMWM                        T  8  1330  B T61 0?0 } GMARK 819
4414 32 48          MCW   0&X3, FBOX#3                                      T  7  1338  M 0?0 U60       819
4415 32 49          MCW   LSTIO, X3                                         T  7  1345  M U57 099       819
4416 32 50  RUIO    BWZ   IOTYP, 0&X3, B                                    T  8  1352  V U02 0?0 B     819
4417 32 51          BWZ                                                     T  1  1360  V               819
4418 32 52  UNREF  FTMSG 14,UNREFERENCED FORMAT,CODE,21,NOFAIL              T                  MACRO
4419        UNREF  CS    332                                               T  4  1361  / 332       GEN   820
4420               CS                                                      T  1  1365  /           GEN   820
4421               MN    CODE,224&21                                       T  7  1366  D 879 245   GEN   820
4422               MN                                                      T  1  1373  D           GEN   820
4423               MN                                                      T  1  1374  D           GEN   820
4424               MCW   @ERROR 14 - UNREFERENCED FORMAT, STATEMENT @       T  4  1375  M V02       GEN   820
4425               W                                                       T  1  1379  2           GEN   820
4426               BCV   *&5                                               T  5  1380  B T89 @     GEN   821
4427               B     *&3                                               T  4  1385  B T91       GEN   821
4428               CC    1                                                 T  2  1389  F 1         GEN   821
4429 32 53  MKFMT  MZ    @A@, XXX                                          T  7  1391  Y U54 000       821
4430 32 54          B     CHKND                                             T  4  1398  B |44           821
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 SEQ PG LIN  LABEL  OP    OPERANDS                                        SFX CT  LOCN  INSTRUCTION TYPE  CARD
4431 32 55   IOTYP  C     0&X3                                             T   4  1402  C 0?0              821
4432 32 56          SAR   X3                                               T   4  1406  Q 099              821
4433 32 57          C     0&X3, FBOX                                       T   7  1410  C 0?0 U60          822
4434 32 58          BE    CHKND                                            T   5  1417  B |44 S            822
4435 32 59          C     0&X3                                             T   4  1422  C 0?0              822
4436 32 60          SAR   X3                                               T   4  1426  Q 099              822
4437 32 61          B     RUIO                                             T   4  1430  B T52              822
4438 32 62   *
4439 32 63          LTORG *                                                T            1434
                    DCW   &TAMR1T                                          T   3  1436  V99         ADCON  822
                    DCW   @.@                                              T   1  1437                LIT    822
             IOSW T DCW   #01                                              T   1  1438                AREA   823
             DBLSWT DCW   #01                                              T   1  1439                AREA   823
                    DCW   @56ULP@                                          T   5  1444                LIT    823
                    DCW   @ @                                              T   1  1445                LIT    823
                    DCW   @TAMROF 2@                                       T   8  1453                LIT    823
                    DCW   @A@                                              T   1  1454                LIT    823
             LSTIOT DCW   #03                                              T   3  1457                AREA   823
             FBOX T DCW   #03                                              T   3  1460                AREA   824
                    DCW   @ERROR 14 - UNREFERENCED FORMAT, STATEMENT @     T  42  1502                LIT    826
4440 32 64   GM1    DCW   @}@                          SYSTEM AND WORK GM  T   1  1503                GMARK  826
4441 32 65          ORG   *&X00                                            T            1600
4442 32 66   TAMR1  EQU   *                                                T       1599
4443 32 67          XFR   TAMROF                                           T            B 980              827
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 SEQ PG LIN  LABEL  OP    OPERANDS                                          SFX CT  LOCN  INSTRUCTION TYPE  CARD
4444 32 68          JOB   1401 FORTRAN   TAMROF TWO                        T
4445 32 69   110    DCW   @TAMROF 2@                                       T   8   0110                    830
4446 32 70   *
4447 32 71   XL2    EQU   X2                                                T       0094
4448 32 72   XL3    EQU   X3                                                T       0099
4449 32 73          ORG   TAMROF                                           T             0980
4450 32 74   *
4451 32 75   PHSE2  BCE   END2, 96, .                                       T   8   0980  B |21 096 .        831
4452 32 76          MCW   X2, IOBGN&6                                       T   7   0988  M 094 J59         831
4453 32 77   RETRN  SBR   X2, 2&X1                                         T   7   0995  H 094 0|2         831
4454 32 78          LCA   @ @                                               T   4   1002  L M20            831
4455 32 79          MCW   0&X1, CODE                                        T   7   1006  M 0|0 879        831
4456 32 80          BCE   MOR, CODE-3, F                                    T   8   1013  B |62 876 F      832
4457 32 81   END2   FENDX C,GM2,,XBEGIN,PHSE1X,XBEGIN,SYS2,LISTR1          T                       MACRO
4458         END2   BSS   333,C                                             T   5   1021  B 333 C    GEN   832
4459                SBR   INITAP&6,XBEGIN                                   T   7   1026  H 786 838  GEN   832
4460                SBR   BCLEAR                                            T   4   1033  H 833      GEN   832
4461                SBR   INITXT&3,PHSE1X                                   T   7   1037  H 796 845  GEN   832
4462                SBR   TCLEAR,SYS2                                       T   7   1044  H 710 N99  GEN   832
4463                LCA   @LISTR1@,110                                      T   7   1051  L M26 110  GEN   833
4464                B     MONTER                                            T   4   1058  B 700      GEN   833
4465 32 82   MOR    C     0&X1                                              T   4   1062  C 0|0            833
4466 32 83          SAR   X1                                              T   4   1066  Q 089            833
4467 32 84          SBR   COMPL&6                                          T   4   1070  H /21            833
4468 32 85          MCW   4&X1, FMTNO#3                                    T   7   1074  M 0|4 M29        833
4469 32 86          SW    SW1#1                                             T   4   1081  , M30            833
4470 32 87          CW    PARSW#1                                           T   4   1085  ) M31            834
4471 32 88          ZA    &1, NCTR                                          T   7   1089  ? M32 M38        834
4472 32 89          BCE   ERSIG, 0&X1, )     Q. FIRST CHAR RIGHT PAREN    T   8   1096  B S58 0|0 )      834
4473 32 90          MCW   X2,SCNBX#3                                       T   7   1104  M 094 M35        834
4474 32 91          B     BGIN                                              T   4   1111  B V10            834
4475 32 92   *
4476 32 93   COMPL  SBR   X1, XXX                                           T   7   1115  H 089 000        834
4477 32 94   SETN   ZA    &1, NCTR#3                                        T   7   1122  ? M32 M38        835
4478 32 95   COMRT  BCE   RTPAR,0&X1, )                                    T   8   1129  B V41 0|0 )      835
4479 32 96          SBR   COMPL&6                                          T   4   1137  H /21            835
4480 32 97          BCE   LFPAR, 0&X1,%                                    T   8   1141  B U98 0|0 %      835
4481 32 98          FBCEQ ARIT, 0&X1,I,F,E                                T                       MACRO
4482                BCE   ARIT, 0&X1, I                                    T   8   1149  B W64 0|0 I GEN   835
4483                BCE   ARIT, 0&X1, F                                    T   8   1157  B W64 0|0 F GEN   836
4484                BCE   ARIT, 0&X1, E                                    T   8   1165  B W64 0|0 E GEN   836
4485 32 99          BCE   ARIT,0&X1,A                                      T   8   1173  B W64 0|0 A      836
4486 33 00          FBCEQ PGET, 0&X1, &,-                                 T                       MACRO
4487                BCE   PGET, 0&X1, &                                    T   8   1181  B U24 0|0 & GEN   836
4488                BCE   PGET, 0&X1, -                                    T   8   1189  B U24 0|0 - GEN   837
4489 33 01          BCE   SLASH,0&X1,@                                     T   8   1197  B W36 0|0 @      837
4490 33 02          C     0&X1, @Z@                                         T   7   1205  C 0|0 M39        837
4491 33 03          BL    MV2N                                              T   5   1212  B Z04 T          837
4492 33 04          BL    PUTN                                              T   5   1217  B !10 T          837
4493 33 05          BW    ERSIG, SW1                                        T   8   1222  V S58 M30 1      838
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 SEQ PG LIN  LABEL  OP    OPERANDS                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD
4494 33 06          BCE   HNOT, 0&X1, H                              T  8  1230  B T06 0|0 H        838
4495 33 07          SBR   X1                                         T  4  1238  H 089             838
4496 33 08          BCE   XNOT, 1&X1, X                              T  8  1242  B S81 0|1 X        838
4497 33 09          BCE   PNOT, 1&X1, P                              T  8  1250  B U79 0|1 P        838
4498 33 10   *
4499 33 11   ERSIG  B     GETST                                      T  4  1258  B 880             839
4500 33 12          MCW   @15 - FORMAT SYNTAX@,ERROR&17              T  7  1262  M M57 223          839
4501 33 13   ERRWT  W                                                T  1  1269  2                 839
4502 33 14          MZ    @A@,CODE                                   T  7  1270  Y M58 879          839
4503 33 15          B     FINIS                                      T  4  1277  B !54             839
4504 33 16   *
4505 33 17   XNOT   SW    8&X2                                       T  4  1281  , 0!8             839
4506 33 18          SBR   X2                                         T  4  1285  H 094             839
4507 33 19          LCA   KX                                         T  4  1289  L L95             840
4508 33 20          MN    NCTR, 0&X2                                 T  7  1293  D M38 0!0          840
4509 33 21          MN                                               T  1  1300  D                 840
4510 33 22          MN                                               T  1  1301  D                 840
4511 33 23          B     MKND                                       T  4  1302  B Y35             840
4512 33 24   *
4513 33 25   HNOT   SW    5&X2                                       T  4  1306  , 0!5             840
4514 33 26          CW                                               T  1  1310  )                 840
4515 33 27          SBR   X2                                         T  4  1311  H 094             841
4516 33 28          LCA   KH, 1&X2                                   T  7  1315  L L88 0!1          841
4517 33 29          S     &1, NCTR                                   T  7  1322  S M32 M38          841
4518 33 30          BM    ERSIG, NCTR                                T  8  1329  V S58 M38 K        841
4519 33 31          MN    0&X1                                       T  4  1337  D 0|0             841
4520 33 32          SAR   X1                                         T  4  1341  Q 089             841
4521 33 33   FLIP   MN    0&X1, 2&X2                                 T  7  1345  D 0|0 0!2          842
4522 33 34          SBR   X2                                         T  4  1352  H 094             842
4523 33 35          MZ    0&X1, 1&X2                                 T  7  1356  Y 0|0 0!1          842
4524 33 36          SAR   X1                                         T  4  1363  Q 089             842
4525 33 37          SBR   COMPL&6                                    T  4  1367  H /21             842
4526 33 38          CW    2&X2                                       T  4  1371  ) 0!2             842
4527 33 39          S     &1, NCTR                                   T  7  1375  S M32 M38          842
4528 33 40          BCE   HLERR,0&X1,}          GM                  T  8  1382  B U09 0|0 } GMARK  843
4529 33 41          BWZ   FLIP, NCTR, B                             T  8  1390  V T45 M38 B       843
4530 33 42   BX2B2  SBR   X2,1&X2                                    T  7  1398  H 094 0!1         843
4531 33 43          B     MKND                                       T  4  1405  B Y35             843
4532 33 44   HLERR  B     GETST                                      T  4  1409  B 880             843
4533 33 45          MCW   @45 - HOLLERITH COUNT@,ERROR &25          T  7  1413  M M78 231          843
4534 33 46          W     BX2B2                                      T  4  1420  2 T98             844
4535 33 47   *
4536 33 48   PGET   MZ    0&X1, NCTR                                 T  7  1424  Y 0|0 M38          844
4537 33 49          SAR   X1                                         T  4  1431  Q 089             844
4538 33 50          B     MV2N                                       T  4  1435  B Z04             844
4539 33 51          C     X3,@020@                                   T  7  1439  C 099 M81          844
4540 33 52          BL    ERSIG                                      T  5  1446  B S58 T           844
4541 33 53          MN    X3, NCTR                                   T  7  1451  D 099 M38          844
4542 33 54          MN                                               T  1  1458  D                 845
4543 33 55          C     0&X1, @P@                                  T  7  1459  C 0|0 M82          845
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 SEQ PG LIN  LABEL  OP    OPERANDS                                SFX CT  LOCN  INSTRUCTION TYPE  CARD
4544 33 56          SAR   COMPL&6                                  T  4  1466  Q /21              845
4545 33 57          SBR   X1                                       T  4  1470  H 089              845
4546 33 58          BU    ERSIG                                    T  5  1474  B S58 /            845
4547 33 59   *
4548 33 60   PNOT   SBR   X2, 7&X2                                 T  7  1479  H 094 0!7          845
4549 33 61          LCA   NCTR                                     T  4  1486  L M38              845
4550 33 62          LCA   KP                                       T  4  1490  L M19              846
4551 33 63          B     MKND                                     T  4  1494  B Y35              846
4552 33 64   *
4553 33 65   LFPAR  BW    PARER, PARSW                             T  8  1498  V V69 M31 1        846
4554 33 66          SW    PARSW                                    T  4  1506  , M31              846
4555 33 67   BGIN   SW    8&X2                                     T  4  1510  , 0!8              846
4556 33 68          SBR   X2                                       T  4  1514  H 094              846
4557 33 69          CW    URFSW                                    T  4  1518  ) N62              846
4558 33 70          LCA   NCTR,0&X2                               T  7  1522  L M38 0!0          847
4559 33 71          LCA   KLEFT                                    T  4  1529  L L99              847
4560 33 72   SET1   SW    SW1                                      T  4  1533  , M30              847
4561 33 73          B     COMPL                                    T  4  1537  B /15              847
4562 33 74   *
4563 33 75   RTPAR  MN    0&X1                                     T  4  1541  D 0|0              847
4564 33 76          SAR   COMPL&6                                  T  4  1545  Q /21              847
4565 33 77          SBR   *&7                                      T  4  1549  H V59              847
4566 33 78          BCE   EOSTM, XXX, }     GMWM                   T  8  1553  B W12 000 } GMARK  848
4567 33 79          BW    PAROK, PARSW                             T  8  1561  V V84 M31 1        848
4568 33 80   PARER  B     GETST                                    T  4  1569  B 880              848
4569 33 81          MCW   @16 - PARENTHESIS ERROR@,ERROR&22        T  7  1573  M N04 228          848
4570 33 82          B     ERRWT                                    T  4  1580  B S69              848
4571 33 83   *
4572 33 84   PAROK  CW    PARSW                                    T  4  1584  ) M31              848
4573 33 85          SW    5&X2                                     T  4  1588  , 0!5              848
4574 33 86          SBR   X2                                       T  4  1592  H 094              849
4575 33 87          LCA   KRITE                                    T  4  1596  L M03              849
4576 33 88          MN    0&X1                                     T  4  1600  D 0|0              849
4577 33 89          SAR   X1                                       T  4  1604  Q 089              849
4578 33 90          B     MKND                                     T  4  1608  B Y35              849
4579 33 91   *
4580 33 92   EOSTM  CW    5&X2                                     T  4  1612  ) 0!5              849
4581 33 93          SBR   X2                                       T  4  1616  H 094              849
4582 33 94          LCA   KEOJ                                     T  4  1620  L M15              850
4583 33 95          BW    PARER, PARSW                             T  8  1624  V V69 M31 1        850
4584 33 96          B     FINIS                                    T  4  1632  B !54              850
4585 33 97   *
4586 33 98   SLASH  BW    *&5,SW1                                  T  8  1636  V W48 M30 1        850
4587 33 99          B     ERSIG                                    T  4  1644  B S58              850
4588 34 00          SW    5&X2                                     T  4  1648  , 0!5              850
4589 34 01          SBR   X2                                       T  4  1652  H 094              850
4590 34 02          LCA   KLINE                                    T  4  1656  L M07              851
4591 34 03          B     COMPL                                    T  4  1660  B /15              851
4592 34 04   *
4593 34 05   ARIT   SW    5&X2                                     T  4  1664  , 0!5              851
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 SEQ PG LIN  LABEL  OP     OPERANDS                          SFX CT  LOCN  INSTRUCTION TYPE  CARD
4594 34 06           LCA    KARIT                              T  4  1668  L M11             851
4595 34 07   MVRPT   LCA    NCTR,8&X2                          T  7  1672  L M38 0!8         851
4596 34 08           MCW    0&X1                               T  4  1679  M 0|0             851
4597 34 09           SAR    X1                                 T  4  1683  Q 089             851
4598 34 10           B      MV2N                               T  4  1687  B Z04             852
4599 34 11           ZA     XL3, WCTR#3                        T  7  1691  ? 099 N07         852
4600 34 12           SW     IEXIT&4                            T  4  1698  , Y12             852
4601 34 13           BCE    CLRI, 5&X2, F                      T  8  1702  B X33 0!5 F       852
4602 33 14           FBCEQ  NOSUB, 5&X2, I, A                  T                 MACRO
4603                 BCE    NOSUB, 5&X2, I                     T  8  1710  B X72 0!5 I GEN   852
4604                 BCE    NOSUB, 5&X2, A                     T  8  1718  B X72 0!5 A GEN   852
4605 33 15           S      &4, WCTR                           T  7  1726  S N08 N07         853
4606 33 16   CLRI    CW     IEXIT&4                            T  4  1733  ) Y12             853
4607 34 17           C      0&X1, @.@                          T  7  1737  C 0|0 N09         853
4608 34 18           SAR    X1                                 T  4  1744  Q 089             853
4609 34 19           BU     ERSIG                              T  5  1748  B S58 /           853
4610 34 20           B      MV2N                               T  4  1753  B Z04             853
4611 34 21           S      XL3, WCTR                          T  7  1757  S 099 N07         853
4612 34 224          BM     TESTE,WCTR                   V3M4  T  8  1764  V Z98 N07 K       854
4613 34 23   NOSUB   BCE    *&8, 5&X2, F                       T  8  1772  B X87 0!5 F       854
4614 34 24           A      &4, X3                             T  7  1780  A N08 099         854
4615 34 25   HERE    SBR    X2,11&X2                           T  7  1787  H 094 0J1         854
4616 34 26           MZ     *-4,WCTR                           T  7  1794  Y X96 N07         854
4617 34 27           LCA    WCTR,0&X2                          T  7  1801  L N07 0!0         855
4618 34 28   IEXIT   BCE    CKZRO, *-7, C                      T  8  1808  B Y27 Y08 C       855
4619 34 29           SBR    XL2, 3&X2                          T  7  1816  H 094 0!3         855
4620 34 30           LCA    XL3                                T  4  1823  L 099             855
4621 34 31   CKZRO   BM     ERSIG,WCTR                         T  8  1827  V S58 N07 K       855
4622 34 32   MKND    SW     SW1                                T  4  1835  , M30             855
4623 34 33   LK4CM   C      0&X1,@,@                           T  7  1839  C 0|0 N10         856
4624 34 34           SAR    COMPL&6                            T  4  1846  Q /21             856
4625 34 35           SBR    X1                                 T  4  1850  H 089             856
4626 34 36           BE     LK4CM                              T  5  1854  B Y39 S           856
4627 34 37           SBR    X1,1&X1                            T  7  1859  H 089 0|1         856
4628 34 38           B      SETN                               T  4  1866  B /22             856
4629 34 39   EINPT   A      XL3,WCTR                           T  7  1870  A 099 N07         856
4630 34 40           A      @4@,WCTR                           T  7  1877  A N11 N07         857
4631 34 41           MN     WCTR,XL3                           T  7  1884  D N07 099         857
4632 34 42           MN                                        T  1  1891  D                 857
4633 34 43           MN                                        T  1  1892  D                 857
4634 34 44           MCW    @000@,WCTR                         T  7  1893  M N14 N07         857
4635 34 45           B      HERE                               T  4  1900  B X87             857
4636 34 46   *
4637 34 47   MV2N    SBR    MV2XT&3                            T  4  1904  H Z97             857
4638 34 48           S      XL3&1                              T  4  1908  S 100             858
4639 34 49           C      0&X1, @0@                          T  7  1912  C 0|0 N15         858
4640 34 50           BH     ERSIG                              T  5  1919  B S58 U           858
4641 34 51   MVDIG   MN     0&X1, XL3                          T  7  1924  D 0|0 099         858
4642 34 52           SAR    X1                                 T  4  1931  Q 089             858
4643 34 53           C      0&X1, @0@                          T  7  1935  C 0|0 N15         858
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 SEQ PG LIN  LABEL  OP     OPERANDS                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD
4644 34 54           BH     CHKN                                       T  5  1942  B Z77 U           858
4645 34 55           C      XL3,@133@                                  T  7  1947  C 099 N18         859
4646 34 56           BL     ERSIG                                      T  5  1954  B S58 T           859
4647 34 57           MN     XL3-1, XL3-2                               T  7  1959  D 098 097         859
4648 34 58           MN     XL3, XL3-1                                 T  7  1966  D 099 098         859
4649 34 59           B      MVDIG                                      T  4  1973  B Z24             859
4650 34 60    *
4651 34 61    CHKN   C      @134@, XL3                                 T  7  1977  C N21 099         859
4652 34 62           BH     ERSIG                                      T  5  1984  B S58 U           860
4653 34 63           BE     ERSIG                                      T  5  1989  B S58 S           860
4654 34 64    MV2XT  B      XXX                                        T  4  1994  B 000             860
4655 34 65    *
4656 34 651   TESTE  BCE    EINPT, 5&X2, E                       V3M4  T  8  1998  B Y70 0!5 E       860
4657 34 652          B      ERSIG                                V3M4  T  4  2006  B S58             860
4658 34 66    *
4659 34 67    PUTN   ZA     XL3, NCTR                                  T  7  2010  ? 099 M38         860
4660 34 68           SW     BCEQ&7                                     T  4  2017  , !42             860
4661 34 69           MCW    0&X1, BCEQ&7                               T  7  2021  M 0|0 !42         861
4662 34 70           CW     BCEQ&7, SW1                                T  7  2028  ) !42 M30         861
4663 34 71    BCEQ   BCE    COMRT, @PAXHIFE%@, X                       T  8  2035  B /29 N29 X       861
4664 34 72           CHAIN  7                                          T                 MACRO
4665                 BCE                                               T  1  2043  B           GEN   861
4666                 BCE                                               T  1  2044  B           GEN   861
4667                 BCE                                               T  1  2045  B           GEN   861
4668                 BCE                                               T  1  2046  B           GEN   861
4669                 BCE                                               T  1  2047  B           GEN   862
4670                 BCE                                               T  1  2048  B           GEN   862
4671                 BCE                                               T  1  2049  B           GEN   862
4672 34 73           B      ERSIG                                      T  4  2050  B S58             862
4673 34 74    *
4674 34 75    FINIS  MCW    NXBTM, X3                                  T  7  2054  M 083 099         862
4675 34 76           BWZ    SETX2, CODE, B                             T  8  2061  V K72 879 B       862
4676 34 77           C      0&X3,CKBIT                                 T  7  2069  C 0?0 872         862
4677 34 78           BU     KLOBR                                      T  5  2076  B 838 /           863
4678 34 79    MVDWN  LCA    0&X2,0&X3                                  T  7  2081  L 0!0 0?0         863
4679 34 80           SAR    X2                                         T  4  2088  Q 094             863
4680 34 81           C      0&X3                                       T  4  2092  C 0?0             863
4681 34 82           SAR    X3                                         T  4  2096  Q 099             863
4682 34 83           CW     1&X2                                       T  4  2100  ) 0!1             863
4683 34 84           C      X2,SCNBX                                   T  7  2104  C 094 M35         863
4684 34 85           BU     MVDWN                                      T  5  2111  B !81 /           864
4685 34 86           SBR    HEX3, 0&X3                                 T  7  2116  H 875 0?0         864
4686 34 87           CW     0&X2                                       T  4  2123  ) 0!0             864
4687 34 88           CW                                                T  1  2127  )                 864
4688 34 89           MCW                                               T  1  2128  M                 864
4689 34 90           SAR    X2                                         T  4  2129  Q 094             864
4690 34 91           CW     1&X2                                       T  4  2133  ) 0!1             864
4691 34 92           BW     MV2GM,URFSW                                T  8  2137  V K60 N62 1       865
4692 34 93           BCE    MV2GM,IOBGN&5,              BLANK          T  8  2145  B K60 J58         865
4693 34 94    IOBGN  SBR    X2, XXX                                    T  7  2153  H 094 000         865
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 SEQ PG LIN  LABEL  OP    OPERANDS                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD
4694 34 95          CW    REFSW#1                                    T   4  2160  ) N30              865
4695 34 96          SBR   MVADR&6, 1&X3                            T   7  2164  H L58 0?1           865
4696 34 97  REPLS   MN    0&X2                                       T   4  2171  D 0!0              865
4697 34 98          CHAIN 2                                          T                MACRO
4698                MN                                             T   1  2175  D          GEN     865
4699                MN                                             T   1  2176  D          GEN     866
4700 34 99          SAR   X3                                       T   4  2177  Q 099              866
4701 35 00          MN    0&X3, *&15                                 T   7  2181  D 0?0 K02          866
4702 35 01          MZ    0&X3, *&8                                  T   7  2188  Y 0?0 K02          866
4703 35 02          BCE   IOWK, @56ULP@, X                         T   8  2195  B L09 N35 X        866
4704 35 03          CHAIN 4                                          T                MACRO
4705                BCE                                            T   1  2203  B          GEN     866
4706                BCE                                            T   1  2204  B          GEN     866
4707                BCE                                            T   1  2205  B          GEN     867
4708                BCE                                            T   1  2206  B          GEN     867
4709 35 04          BW    NDRPL, REFSW                               T   8  2207  V K31 N30 1        867
4710 35 05          B     GETST                                      T   4  2215  B 880              867
4711 35 06          MCW   @17 - DOUBLY DEFINED FORMAT@,ERROR&26     T   7  2219  M N61 232          867
4712 35 07          W                                                T   1  2226  2                  867
4713 35 08          B     FBAD                                       T   4  2227  B K87              867
4714 35 09  NDRPL   MCW   HEX3, X3                                   T   7  2231  M 875 099          868
4715 35 10          BWZ   FBAD, CODE, B                             T   8  2238  V K87 879 B        868
4716 35 11  FOKAY   MCW   X3, NXBTM                                 T   7  2246  M 099 083          868
4717 35 12          MCW   CKBIT, 0&X3                              T   7  2253  M 872 0?0          868
4718 35 13  MV2GM   C     0&X1                                       T   4  2260  C 0|0              868
4719 35 14          SAR   X1                                       T   4  2264  Q 089              868
4720 35 15          B     RETRN                                      T   4  2268  B 995              869
4721 35 16  SETX2   MCW   X2, X3                                    T   7  2272  M 094 099          869
4722 35 17          SW    URFSW#1                                    T   4  2279  , N62              869
4723 35 18          B     MVDWN                                      T   4  2283  B !81              869
4724 35 19  FBAD    MCW   NXBTM, X3                                  T   7  2287  M 083 099          869
4725 35 20          LCA   @.@,0&X3                                  T   7  2294  L N09 0?0          869
4726 35 21          SBR   X3                                       T   4  2301  H 099              869
4727 35 22          B     FOKAY                                      T   4  2305  B K46              870
4728 35 23  IOWK    C     0&X3                                       T   4  2309  C 0?0              870
4729 35 24          SAR   X2                                       T   4  2313  Q 094              870
4730 35 25          BWZ   *&5, 2&X3, B                             T   8  2317  V L29 0?2 B        870
4731 35 26          B     NOSWT                                      T   4  2325  B L73              870
4732 35 27          C     0&X2, FMTNO                                T   7  2329  C 0!0 M29          870
4733 35 28          BU    NOSWT                                      T   5  2336  B L73 /            870
4734 35 29          SW    REFSW                                      T   4  2341  , N30              871
4735 35 30          MA    MACFLS,MVADR&6                             T   7  2345  # 163 L58          871
4736 35 31  MVADR   SBR   0&X2, XXX                                 T   7  2352  H 0!0 000          871
4737 35 32          MZ    @ @, 2&X3                                  T   7  2359  Y M20 0?2          871
4738 35 33          MA    PLUSDF,MVADR&6                             T   7  2366  # 160 L58          871
4739 35 34  NOSWT   C     0&X2                                       T   4  2373  C 0!0              871
4740 35 35          SAR   X2                                       T   4  2377  Q 094              872
4741 35 36          B     REPLS                                      T   4  2381  B J71              872
4742 35 37  *
4743 35 38  KH      DCW   @BL28@  HOLLR  CHANGE IF OBJ FORMAT REASSEMBLED  T   4  2388              872
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 SEQ PG LIN  LABEL  OP    OPERANDS                                          SFX CT  LOCN  INSTRUCTION TYPE  CARD
4744 35 39   KX     DCW   @H0990&0@                                          T   7  2395                     872
4745 35 40   KLEFT  DCW   @BJ52@  OPENR  CHANGE IF OBJ FORMAT REASSEMBLED    T   4  2399                     872
4746 35 41   KRITE  DCW   @BJ85@  CLSPR  CHANGE IF OBJ FORMAT REASSEMBLED    T   4  2403                     872
4747 35 42   KLINE  DCW   @BK08@  NDLIN  CHANGE IF OBJ FORMAT REASSEMBLED    T   4  2407                     872
4748 35 43   KARIT  DCW   @BL85@  GETW   CHANGE IF OBJ FORMAT REASSEMBLED    T   4  2411                     873
4749 35 44   KEOJ   DCW   @BK23@  EOJ1   CHANGE IF OBJ FORMAT REASSEMBLED    T   4  2415                     873
4750 35 45   KP     DCW   @BL10@  SCALE  CHANGE IF OBJ FORMAT REASSEMBLED    T   4  2419                     873
4751 35 46          LTORG *                                                  T          2420
                    DCW   @ @                                               T   1  2420             LIT    873
                    DCW   @LISTR1@                                          T   6  2426             LIT    873
             FMTNOT DCW   #03                                               T   3  2429             AREA   873
             SW1  T DCW   #01                                               T   1  2430             AREA   873
             PARSWT DCW   #01                                               T   1  2431             AREA   874
                    DCW   &1                                                T   1  2432             LIT    874
             SCNBXT DCW   #03                                               T   3  2435             AREA   874
             NCTR T DCW   #03                                               T   3  2438             AREA   874
                    DCW   @Z@                                               T   1  2439             LIT    874
                    DCW   @15 - FORMAT SYNTAX@                              T  18  2457             LIT    874
                    DCW   @A@                                               T   1  2458             LIT    874
                    DCW   @45 - HOLLERITH COUNT@                            T  20  2478             LIT    875
                    DCW   @020@                                             T   3  2481             LIT    875
                    DCW   @P@                                               T   1  2482             LIT    875
                    DCW   @16 - PARENTHESIS ERROR@                          T  22  2504             LIT    876
             WCTR T DCW   #03                                               T   3  2507             AREA   876
                    DCW   &4                                                T   1  2508             LIT    876
                    DCW   @.@                                               T   1  2509             LIT    876
                    DCW   @,@                                               T   1  2510             LIT    876
                    DCW   @4@                                               T   1  2511             LIT    876
                    DCW   @000@                                             T   3  2514             LIT    876
                    DCW   @0@                                               T   1  2515             LIT    877
                    DCW   @133@                                             T   3  2518             LIT    877
                    DCW   @134@                                             T   3  2521             LIT    877
                    DCW   @PAXHIFE%@                                        T   8  2529             LIT    877
             REFSWT DCW   #01                                               T   1  2530             AREA   877
                    DCW   @56ULP@                                           T   5  2535             LIT    877
                    DCW   @17 - DOUBLY DEFINED FORMAT@                      T  26  2561             LIT    878
             URFSWT DCW   #01                                               T   1  2562             AREA   878
4752 35 47          ORG   *&X00                                            T          2600
4753 35 48          ORG   *-1                                              T          2599
4754 35 49   SYS2   DCW   @}@                          SYSTEM GROUP MARK    T   1  2599             GMARK  879
4755 35 50   TAMAX  DCW   #1                                                T   1  2600                    879
4756 35 51          XFR   PHSE2                                            T          B 980                   880
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 SEQ PG LIN  LABEL  OP    OPERANDS                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD
4757 35 52          JOB   1401 FORTRAN  LISTS PHASE ONE             T
4758 35 53          FBEGN LISTR1,X1,,X2,R,X3,R,X                    T                      MACRO
4759                SFX   X                                         X                      GEN
4760          110   DCW   @LISTR1@                                  X   6  0110             GEN    883
4761          X1    EQU   089                                       X      0089             GEN
4762          X2    EQU   094                                       X      0094             GEN
4763          094   DCW   000                                       X   3  0094             GEN    884
4764          096   DC    00                                        X   2  0096             GEN    884
4765          X3    EQU   099                                       X      0099             GEN
4766          099   DCW   000                                       X   3  0099             GEN    884
4767          100   DC    0                                         X   1  0100             GEN    884
4768 35 54    NXBTM EQU   083                                       X      0083
4769 35 55    *  CHECKS FOR DUPLICATE LISTS
4770 35 56          ORG   XBEGIN                                    X          0838
4771 35 57    CODE  DCW   #4                                        X   4  0841                    885
4772 35 58    ABOTM DCW   #3                                        X   3  0844                    885
4773 35 59    PHSE1 MCW   X1,ABOTM                                  X   7  0845  M 089 844         885
4774 35 60          MCW   NXBTM,X2                                  X   7  0852  M 083 094         885
4775 35 61          LCA   @.@,0&X2                                  X   7  0859  L S13 0!0         885
4776 35 62          CW    0&X2                                      X   4  0866  ) 0!0            885
4777 35 63          SBR   NXBTM                                     X   4  0870  H 083            885
4778 35 64          SBR   PERIOD,0&X2                               X   7  0874  H 154 0!0         886
4779 35 65          MA    MACFLS,PERIOD                             X   7  0881  # 163 154         886
4780 35 66    START BCE   DUN,000&X1,      BLANK                   X   8  0888  B /68 0|0         886
4781 35 67          MCW   000&X1,CODE                               X   7  0896  M 0|0 841         886
4782 35 68          MCW   X1,ALTER&6                                X   7  0903  M 089 /63         886
4783 35 69          MCW   CODE-3,*&8                               X   7  0910  M 838 924         887
4784 35 70          BCE   LIST,@5613LUP@,0                         X   8  0917  B 935 S20 0       887
4785 35 71          CHAIN 6                                         X                      MACRO
4786                BCE                                           X   1  0925  B               GEN    887
4787                BCE                                           X   1  0926  B               GEN    887
4788                BCE                                           X   1  0927  B               GEN    887
4789                BCE                                           X   1  0928  B               GEN    887
4790                BCE                                           X   1  0929  B               GEN    887
4791                BCE                                           X   1  0930  B               GEN    888
4792 35 72          B     DUN                                     X   4  0931  B /68                  888
4793 35 73    LIST  C     000&X1                                  X   4  0935  C 0|0                  888
4794 35 74          SAR   X1                                      X   4  0939  Q 089                  888
4795 35 75          B     COMMA                                   X   4  0943  B |88                  888
4796 35 76          CW    XDOINI                                  X   4  0947  ) 114                  888
4797 35 77          BCE   NEXT1,PARAMA&10,L                       X   8  0951  B 963 696 L            888
4798 35 78          CW    XOBLST                                  X   4  0959  ) 115                  889
4799 35 79    NEXT1 SW    000&X1                                  X   4  0963  , 0|0                  889
4800 35 80          SAR   X1                                      X   4  0967  Q 089                  889
4801 35 81          MCW   ABOTM,X3                                X   7  0971  M 844 099             889
4802 35 82    RUDUP C     0&X3                                    X   4  0978  C 0?0                  889
4803 35 83          C                                             X   1  0982  C                      889
4804 35 84          SAR   X3                                      X   4  0983  Q 099                  889
4805 35 85          BCE   RUDUP,1&X3,}                      GM    X   8  0987  B 978 0?1 } GMARK      890
4806 35 86          C     X1,X3                                   X   7  0995  C 089 099             890
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 SEQ PG LIN  LABEL  OP    OPERANDS                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD
4807 35 87          BU    COMP                                       X  5  1002  B |19 /           890
4808 35 88   PASS   C     000&X1                                     X  4  1007  C 0|0             890
4809 35 89          SAR   X1                                        X  4  1011  Q 089             890
4810 35 90          B     START                                      X  4  1015  B 888             890
4811 35 91   COMP   C     000&X1,000&X3                              X  7  1019  C 0|0 0?0         890
4812 35 92          BU    RESET                                      X  5  1026  B |68 /           891
4813 35 93          C     000&X3,000&X1                              X  7  1031  C 0?0 0|0         891
4814 35 94          BU    RESET                                      X  5  1038  B |68 /           891
4815 35 95          BWZ   WRONG,0&X1,1                               X  8  1043  V /16 0|0 1       891
4816 35 96          BWZ                                              X  1  1051  V                 891
4817 35 97          BWZ                                              X  1  1052  V                 891
4818 35 98          LCA   X3,000&X1                                  X  7  1053  L 099 0|0         891
4819 35 99          SBR   X1                                         X  4  1060  H 089             892
4820 36 00          B     PASS                                       X  4  1064  B |07             892
4821 36 01   RESET  C     000&X3                                     X  4  1068  C 0?0             892
4822 36 02          SAR   X3                                        X  4  1072  Q 099             892
4823 36 03          BCE   RUDUP,1&X3,}                    GM        X  8  1076  B 978 0?1 } GMARK  892
4824 36 04          B     RESET                                      X  4  1084  B |68             892
4825 36 05   COMMA  SBR   EXCMA&3                                    X  4  1088  H /03            892
4826 36 06   CKNG   BW    PASS,0&X1                                  X  8  1092  V |07 0|0 1       893
4827 36 07   EXCMA  BCE   000,000&X1,,                               X  8  1100  B 000 0|0 ,       893
4828 36 08          SBR   X1                                         X  4  1108  H 089             893
4829 36 09          B     CKNG                                       X  4  1112  B |92             893
4830 36 10   WRONG  FTMSG 18,LIST SYNTAX,CODE,13                     X                    MACRO
4831         WRONG  CS    332                                        X  4  1116  / 332       GEN   893
4832                CS                                              X  1  1120  /           GEN   893
4833                SW    FAILSW                                     X  4  1121  , 184       GEN   893
4834                MN    CODE,224&13                                X  7  1125  D 841 237   GEN   894
4835                MN                                               X  1  1132  D           GEN   894
4836                MN                                               X  1  1133  D           GEN   894
4837                MCW   @ERROR 18 - LIST SYNTAX, STATEMENT @       X  4  1134  M S54       GEN   894
4838                W                                                X  1  1138  2           GEN   894
4839                BCV   *&5                                        X  5  1139  B /48 @     GEN   894
4840                B     *&3                                        X  4  1144  B /50        GEN   894
4841                CC    1                                          X  2  1148  F 1         GEN   895
4842 36 11          MCW   @/@,CODE-3                                X  7  1150  M S55 838     GEN   895
4843 36 12   ALTER  MCW   CODE,000                                   X  7  1157  M 841 000     GEN   895
4844 36 13          B     PASS                                       X  4  1164  B |07             895
4845 36 14   DUN    SW    000&X1                                     X  4  1168  , 0|0             895
4846 36 15          MCW   ABOTM,X1                                   X  7  1172  M 844 089       GEN   895
4847 36 16          FENDX C,,,PHSE1,,PHSE1,SYS1,LISTR TWO            X                    MACRO
4848                BSS   333,C                                      X  5  1179  B 333 C     GEN   895
4849                SBR   INITAP&6,PHSE1                             X  7  1184  H 786 845   GEN   896
4850                SBR   BCLEAR                                     X  4  1191  H 833       GEN   896
4851                SBR   TCLEAR,SYS1                                X  7  1195  H 710 S65   GEN   896
4852                LCA   @LISTR TWO@,110                            X  7  1202  L S64 110   GEN   896
4853                B     MONTER                                     X  4  1209  B 700       GEN   896
4854 36 17          LTORG *                                          X           1213
                    DCW   @.@                                        X  1  1213             LIT   896
                    DCW   @5613LUP@                                  X  7  1220             LIT   896
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 SEQ PG LIN  LABEL  OP    OPERANDS                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD
                    DCW   @ERROR 18 - LIST SYNTAX, STATEMENT @       X  34  1254              LIT   897
                    DCW   @/@                                        X   1  1255              LIT   897
                    DCW   @LISTR TWO@                                X   9  1264              LIT   898
4855 36 18  SYS1    DCW   @}@                   SYSTEM GROUP MARK    X   1  1265              GMARK 898
4856 36 19          XFR   PHSE1                                      X             B 845              899
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 SEQ PG LIN  LABEL  OP    OPERANDS                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD
4857 36 20          JOB   1401 FORTRAN  LISTS PHASE TWO             X
4858 36 21   *  REORDERS, SQUEEZES, ERROR CHECKS, AND STORES LIST
4859 36 22   110    DCW   @LISTR TWO@                               X   9  0110                    902
4860 36 23          ORG   PHSE1                                     X          0845                
4861 36 24   PHSE2  MCW   NXBTM,X2                                  X   7  0845  M 083 094          903
4862 36 25   GO     BWZ   OUT,000&X1,1                             X   8  0852  V Z88 0|0 1        903
4863 36 26          MCW   X2,HEX2#3                                 X   7  0860  M 094 !53          903
4864 36 27          MCW   000&X1,CODE                              X   7  0867  M 0|0 841          903
4865 36 28          MCW   X1,EMASQ&6                              X   7  0874  M 089 Z69          903
4866 36 29          C     000&X1                                    X   4  0881  C 0|0              904
4867 36 30          SAR   X1                                        X   4  0885  Q 089              904
4868 36 31          SBR   X3                                        X   4  0889  H 099              904
4869 36 32   SLIP   C     0&X3                                      X   4  0893  C 0?0              904
4870 36 33          SAR   X3                                        X   4  0897  Q 099              904
4871 36 34          BCE   *&5,1&X3,}         GM                    X   8  0901  B 913 0?1 } GMARK  904
4872 36 35          B     SLIP                                      X   4  0909  B 893              904
4873 36 36          SBR   NXGUY&6,0&X3                             X   7  0913  H Z83 0?0          905
4874 36 37          C     000&X1                                    X   4  0920  C 0|0              905
4875 36 38          C                                               X   1  0924  C                  905
4876 36 39          SAR   HEX1#3                                   X   4  0925  Q !56              905
4877 36 40          BCE   HEX1X,0&X1,,                             X   8  0929  B 947 0|0 ,        905
4878 36 41          CHAIN 6                                         X                      MACRO
4879                BCE                                           X   1  0937  B           GEN    905
4880                BCE                                           X   1  0938  B           GEN    905
4881                BCE                                           X   1  0939  B           GEN    906
4882                BCE                                           X   1  0940  B           GEN    906
4883                BCE                                           X   1  0941  B           GEN    906
4884                BCE                                           X   1  0942  B           GEN    906
4885 36 42          B     CKTYP                                     X   4  0943  B Y22              906
4886 36 43   HEX1X  MCW   HEX1,X1                                  X   7  0947  M !56 089          906
4887 36 44          BCE   NEW,001&X1,}     GROUP MK               X   8  0954  B 989 0|1 } GMARK  906
4888 36 45          MCW   003&X1,X3        DUPLICATES WERE CHAINED X   7  0962  M 0|3 099          907
4889 36 46          BWZ   ERROR,001&X3,1     DUPLICATE WAS BAD STATEMENT X   8  0969  V Z22 0?1 1  907
4890 36 47          LCA   001&X3,004&X1                             X   7  0977  L 0?1 0|4          907
4891 36 48          CW                                            X   1  0984  )                  907
4892 36 49          B     NXGUY                                     X   4  0985  B Z77              907
4893 36 50   NEW    BCE   CKLST,2&X3,,     ALLOW LAST CHAR OF COMMA X   8  0989  B X98 0?2 ,       907
4894 36 51          SBR   X3                                        X   4  0997  H 099              907
4895 36 52   SNDPT  LCA   @.@,000&X2                               X   7  1001  L !57 0!0          908
4896 36 53          SBR   X2                                        X   4  1008  H 094              908
4897 36 54          CW    001&X2                                    X   4  1012  ) 0!1              908
4898 36 55          S     COUNT#1                                   X   4  1016  S !58              908
4899 36 56   MAIN   SBR   X3,001&X3                                X   7  1020  H 099 0?1          908
4900 36 57          BCE   RTPAR,000&X3,)                           X   8  1027  B S72 0?0 )       908
4901 36 58          BCE   DOLLR,000&X3,$                           X   8  1035  B X37 0?0 $       909
4902 36 59          B     RUADR                                     X   4  1043  B Y42              909
4903 36 60          LCA   ADRSS,000&X2                             X   7  1047  L J45 0!0          909
4904 36 61          SBR   X2                                        X   4  1054  H 094              909
4905 36 62          BCE   CKWMK,0&X3,,                             X   8  1058  B S60 0?0 ,       909
4906 36 63          BCE   LFPAR,0&X3,%                             X   8  1066  B U67 0?0 %       909
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 SEQ PG LIN  LABEL  OP    OPERANDS                                SFX CT  LOCN  INSTRUCTION TYPE  CARD
4907 36 64          B     RUADR                                    X  4  1074  B Y42              910
4908 36 65          LCA   ADRSS,000&X2                            X  7  1078  L J45 0!0          910
4909 36 66          LCA   @,@                                      X  4  1085  L !59              910
4910 36 67          SBR   X2                                       X  4  1089  H 094              910
4911 36 68          CW    5&X2                                     X  4  1093  ) 0!5              910
4912 36 69          CW    001&X2                                   X  4  1097  ) 0!1              910
4913 36 70          MZ    3&X2,SVZN#1                              X  7  1101  Y 0!3 !60          910
4914 36 71          MCW   X1,SV1#3                                 X  7  1108  M 089 !63          911
4915 36 72          ZA    PARAMA&4,HOLD5                           X  7  1115  ? 690 !68          911
4916 36 73          BWZ   DUN2,3&X2,K                             X  8  1122  V /37 0!3 K        911
4917 36 74          MCW   PARAMA&6,HOLD5#5                        X  7  1130  M 692 !68          911
4918 36 75  DUN2    S     &16000,HOLD5                             X  7  1137  S !73 !68          911
4919 36 76          FPACK HOLD5,HOLD3,X1                           X                 MACRO
4920                INCLD ZONES                                    X                 MACRO
4921                MN    HOLD5,HOLD3                              X  7  1144  D !68 !77   GEN    912
4922                MN                                             X  1  1151  D           GEN    912
4923                MN                                             X  1  1152  D           GEN    912
4924                SAR   *&4                                      X  4  1153  Q /60        GEN    912
4925                MCW   0,X1                                     X  7  1157  M 000 089   GEN    912
4926                MCW   @0@                                      X  4  1164  M !74        GEN    912
4927                A     X1                                       X  4  1168  A 089        GEN    912
4928                MZ    ZONES&1&X1,HOLD3                         X  7  1172  Y !S0 !77   GEN    913
4929                CW                                             X  1  1179  )           GEN    913
4930                SBR   *&7                                      X  4  1180  H /90        GEN    913
4931                MZ    ZONES&X1, 0                              X  7  1184  Y !/9 000   GEN    913
4932 36 77          MCW   HOLD3#3,X1                               X  7  1191  M !77 089          913
4933 36 78          MCW   4&X2,SBR4&6                              X  7  1198  M 0!4 S18          913
4934 36 79          MZ    *-6,SBR4&5                               X  7  1205  Y S05 S17          914
4935 36 80  SBR4    SBR   4&X2,0                                   X  7  1212  H 0!4 000          914
4936 36 81          MZ    SVZN,3&X2                                X  7  1219  Y !60 0!3          914
4937 36 82          MCW   SV1,X1                                   X  7  1226  M !63 089          914
4938 36 83          MZ    *-4,6&X2                                 X  7  1233  Y S35 0!6          914
4939 36 84  CKLFP   BCE   LFPAR,0&X3,%                            X  8  1240  B U67 0?0 %        915
4940 36 85  CKCOM   C     000&X3,@,@                               X  7  1248  C 0?0 !59          915
4941 36 86          BU    ERROR                                    X  5  1255  B Z22 /            915
4942 36 87  CKWMK   BWZ   FNLIZ,000&X3,1      WORD MK              X  8  1260  V W97 0?0 1        915
4943 36 88          B     MAIN                                     X  4  1268  B |20             915
4944 36 89  RTPAR   BCE   SETUP,COUNT,?      PLUS ZERO            X  8  1272  B W34 !58 ?        916
4945 36 90  PUTS    MCW   X1,SAVE1#3                              X  7  1280  M 089 !80          916
4946 36 91          LCA   @.@,000&X1                             X  7  1287  L !57 0|0          916
4947 36 92          SBR   X1                                       X  4  1294  H 089              916
4948 36 93          A     &1,COUNT                                 X  7  1298  A !81 !58          916
4949 36 94          BCE   ERROR,COUNT,D     ALLOW FOR NEST THREE DEEP X  8  1305  B Z22 !58 D      917
4950 36 95          B     PUTMI                                    X  4  1313  B W52              917
4951 36 96          C     000&X3,@,@                               X  7  1317  C 0?0 !59          917
4952 36 97          BU    ERROR                                    X  5  1324  B Z22 /            917
4953 36 98          B     PUTMI                                    X  4  1329  B W52              917
4954 36 99          BCE   PUTMI,000&X3,,                           X  8  1333  B W52 0?0 ,        917
4955 37 00          C     000&X3,@#@                               X  7  1341  C 0?0 !82          918
4956 37 01          BU    ERROR                                    X  5  1348  B Z22 /            918
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 SEQ PG LIN  LABEL  OP    OPERANDS                          SFX CT  LOCN  INSTRUCTION TYPE  CARD
4957 37 02          B     PUTMI                              X   4  1353  B W52             918
4958 37 03          SBR   000&X1,001&X2                      X   7  1357  H 0|0 0!1         918
4959 37 04          CW    000&X1                             X   4  1364  ) 0|0             918
4960 37 05          CW                                       X   1  1368  )                 918
4961 37 06          SW                                       X   1  1369  ,                 918
4962 37 07          SAR   X1                                 X   4  1370  Q 089             919
4963 37 08          MCW   X3,HEX3#3                          X   7  1374  M 099 !85          919
4964 37 09          MN    000&X3                             X   4  1381  D 0?0             919
4965 37 10          SAR   X3                                 X   4  1385  Q 099             919
4966 37 11  LOOPY   BCE   INNER,002&X3,%     LFPAR          X   8  1389  B U21 0?2 %       919
4967 37 12          BCE   OUTER,002&X3,)       RTPAR        X   8  1397  B U40 0?2 )       919
4968 37 13          BWZ   ERROR,002&X3,1                     X   8  1405  V Z22 0?2 1       920
4969 37 14          SBR   X3                                 X   4  1413  H 099            920
4970 37 15          B     LOOPY                              X   4  1417  B T89            920
4971 37 16  INNER   LCA   @)@,000&X2                        X   7  1421  L !86 0!0         920
4972 37 17          SBR   X2                                 X   4  1428  H 094            920
4973 37 18          CW    001&X2                             X   4  1432  ) 0!1            920
4974 37 19          B     RESTR                              X   4  1436  B U56            920
4975 37 20  OUTER   LCA   @#   @,000&X2    3 BLANKS        X   7  1440  L !90 0!0         921
4976 37 21          SBR   X2                                 X   4  1447  H 094            921
4977 37 22          SW    002&X2                             X   4  1451  , 0!2            921
4978 37 23          CW                                       X   1  1455  )                921
4979 37 24  RESTR   MCW   HEX3,X3                           X   7  1456  M !85 099         921
4980 37 25          B     CKCOM                              X   4  1463  B S48            921
4981 37 26  LFPAR   S     &1,COUNT                           X   7  1467  S !81 !58         921
4982 37 27          BWZ   ERROR,COUNT,K                     X   8  1474  V Z22 !58 K       922
4983 37 28          MA    MACFLS,3&X1                        X   7  1482  # 163 0|3         922
4984 37 29          LCA   003&X1,000&X2                     X   7  1489  L 0|3 0!0         922
4985 37 30          LCA   6&X1                              X   4  1496  L 0|6             922
4986 37 31          SBR   X2                                 X   4  1500  H 094            922
4987 37 32          BCE   M3IS1,013&X1,.                    X   8  1504  B W19 0/3 .       922
4988 37 33          LCA   015&X1,000&X2                     X   7  1512  L 0/5 0!0         923
4989 37 34          SBR   X2                                 X   4  1519  H 094            923
4990 37 35  SNDM2   LCA   012&X1,000&X2                     X   7  1523  L 0/2 0!0         923
4991 37 36          LCA                                      X   1  1530  L                923
4992 37 37          LCA   @%@                               X   4  1531  L !91            923
4993 37 38          SBR   X2                                 X   4  1535  H 094            923
4994 37 39          CW    001&X2                             X   4  1539  ) 0!1            923
4995 37 40  SWTCH   NOP   SWOFF                             X   4  1543  N W08            924
4996 37 41          MCW   003&X1,X1                         X   7  1547  M 0|3 089         924
4997 37 42          MN    000&X1                             X   4  1554  D 0|0            924
4998 37 43          SAR   X1                                 X   4  1558  Q 089            924
4999 37 44          MA    PLUSDF,X1                          X   7  1562  # 160 089        924
5000 37 45          MA    MACFLS,X2                          X   7  1569  # 163 094        924
5001 37 46          SBR   0&X1,1&X2                         X   7  1576  H 0|0 0!1        925
5002 37 47          MA    PLUSDF,X2                          X   7  1583  # 160 094        925
5003 37 48  BUMP    SBR   X3,001&X3                         X   7  1590  H 099 0?1        925
5004 37 49          MCW   SAVE1,X1                          X   7  1597  M !80 089        925
5005 37 50          B     CKLFP                              X   4  1604  B S40            925
5006 37 51  SWOFF   MCW   @N@,SWTCH                         X   7  1608  M !92 V43        925
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 SEQ PG LIN  LABEL  OP     OPERANDS                                SFX CT  LOCN  INSTRUCTION TYPE  CARD
5007 37 52          B      BUMP                                     X   4  1615  B V90             926
5008 37 53   M3IS1  LCA    ADONE,000&X2      OBJ TIME ADDR OF FIX PT ONE  X   7  1619  L 142 0!0         926
5009 37 54          SBR    X2                                       X   4  1626  H 094             926
5010 37 55          B      SNDM2                                    X   4  1630  B V23             926
5011 37 56   SETUP  SBR    X1,SPACE#48                              X   7  1634  H 089 J40          926
5012 37 57          MCW    @B@,SWTCH                                X   7  1641  M J41 V43         926
5013 37 58          B      PUTS                                     X   4  1648  B S80             926
5014 37 59   PUTMI  SBR    EXPMI&3                                  X   4  1652  H W96             927
5015 37 60          SBR    X3,001&X3                                X   7  1656  H 099 0?1         927
5016 37 61          B      RUADR                                    X   4  1663  B Y42             927
5017 37 62          LCA    ADRSS,000&X1                             X   7  1667  L J45 0|0         927
5018 37 63          SBR    X1                                       X   4  1674  H 089             927
5019 37 64          MZ     *-4,2&X1                                 X   7  1678  Y W80 0|2         927
5020 37 65          BWZ    ERROR,000&X3,1                           X   8  1685  V Z22 0?0 1       928
5021 37 66   EXPMI  B      000                                      X   4  1693  B 000             928
5022 37 67   FNLIZ  C      COUNT,@?@           PLUS ZERO            X   7  1697  C !58 J42         928
5023 37 68          BU     ERROR                                    X   5  1704  B Z22 /           928
5024 37 69          CW     000&X3                                   X   4  1709  ) 0?0             928
5025 37 70          CW                                              X   1  1713  )                 928
5026 37 71          SW                                              X   1  1714  ,                 928
5027 37 72          SAR    X3                                       X   4  1715  Q 099             929
5028 37 73          SBR    003&X3,001&X2                            X   7  1719  H 0?3 0!1         929
5029 37 74          MA     MACFLS,3&X3                              X   7  1726  # 163 0?3         929
5030 37 75          B      NXGUY                                    X   4  1733  B Z77             929
5031 37 76   DOLLR  SW     0&X3                                     X   4  1737  , 0?0             929
5032 37 77          SAR    X3                                       X   4  1741  Q 099             929
5033 37 78          SBR    CW&3,1&X3                                X   7  1745  H X93 0?1         929
5034 37 79   LOOP   BCE    NDOLR,2&X3,$                             X   8  1752  B X68 0?2 $       930
5035 37 80          SBR    X3                                       X   4  1760  H 099             930
5036 37 81          B      LOOP                                     X   4  1764  B X52             930
5037 37 82   NDOLR  LCA    2&X3,0&X2                                X   7  1768  L 0?2 0!0         930
5038 37 83          SBR    X2                                       X   4  1775  H 094             930
5039 37 84          CW     1&X2                                     X   4  1779  ) 0!1             930
5040 37 85          SBR    X3,3&X3                                  X   7  1783  H 099 0?3         930
5041 37 86   CW     CW     0                                        X   4  1790  ) 000             931
5042 37 87          B      CKLFP                                    X   4  1794  B S40             931
5043 37 88   CKLST  BWZ    RMVCM,2&X3,1                             X   8  1798  V Y17 0?2 1       931
5044 37 89          SBR    X3,2&X3                                  X   7  1806  H 099 0?2         931
5045 37 90          B      SNDPT                                    X   4  1813  B |01             931
5046 37 91   RMVCM  SW     3&X3                                     X   4  1817  , 0?3             931
5047 37 92          CW                                              X   1  1821  )                 931
5048 37 93   CKTYP  FBCEQ  ERROR,CODE-3,1,3                         X                  MACRO
5049        CKTYP  BCE    ERROR, CODE-3, 1                         X   8  1822  B Z22 838 1 GEN   932
5050               BCE    ERROR, CODE-3, 3                         X   8  1830  B Z22 838 3 GEN   932
5051 37 94          B      EMASQ                                    X   4  1838  B Z63             932
5052 37 95   RUADR  SBR    EXRUA&3                                  X   4  1842  H Y96             932
5053 37 96          MN     002&X3,EXRUK&7                           X   7  1846  D 0?2 Z08         932
5054 37 97          B      RUOK                                     X   4  1853  B Y97             932
5055 37 98          MN     001&X3,EXRUK&7                           X   7  1857  D 0?1 Z08         933
5056 37 99          B      RUOK                                     X   4  1864  B Y97             933
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 SEQ PG LIN  LABEL  OP    OPERANDS                                        SFX CT  LOCN  INSTRUCTION TYPE  CARD
5057 38 00          MN    000&X3,EXRUK&7                                   X   7  1868  D 0?0 Z08          933
5058 38 01          B     RUOK                                             X   4  1875  B Y97              933
5059 38 02          MCW   002&X3,ADRSS#3                                  X   7  1879  M 0?2 J45          933
5060 38 03          SBR   X3,003&X3                                       X   7  1886  H 099 0?3          933
5061 38 04  EXRUA   B     000                                              X   4  1893  B 000              934
5062 38 05  RUOK    SBR   EXRUK&3                                         X   4  1897  H Z04              934
5063 38 06  EXRUK   BCE   000,@01234567890@,0                             X   8  1901  B 000 J55 0         934
5064 38 07          CHAIN 9                                                X                 MACRO
5065                BCE                                                    X   1  1909  B           GEN    934
5066                BCE                                                    X   1  1910  B           GEN    934
5067                BCE                                                    X   1  1911  B           GEN    934
5068                BCE                                                    X   1  1912  B           GEN    934
5069                BCE                                                    X   1  1913  B           GEN    935
5070                BCE                                                    X   1  1914  B           GEN    935
5071                BCE                                                    X   1  1915  B           GEN    935
5072                BCE                                                    X   1  1916  B           GEN    935
5073                BCE                                                    X   1  1917  B           GEN    935
5074 38 08          B     ERROR                                            X   4  1918  B Z22              935
5075 38 09  ERROR   FTMSG 47,BAD LIST,CODE,10                              X                 MACRO
5076        ERROR   CS    332                                              X   4  1922  / 332          GEN    935
5077                CS                                                     X   1  1926  /              GEN    936
5078                SW    FAILSW                                           X   4  1927  , 184          GEN    936
5079                MN    CODE,224&10                                      X   7  1931  D 841 234       GEN    936
5080                MN                                                     X   1  1938  D              GEN    936
5081                MN                                                     X   1  1939  D              GEN    936
5082                MCW   @ERROR 47 - BAD LIST, STATEMENT @                X   4  1940  M J86          GEN    936
5083                W                                                      X   1  1944  2              GEN    936
5084                BCV   *&5                                              X   5  1945  B Z54 @        GEN    937
5085                B     *&3                                              X   4  1950  B Z56          GEN    937
5086                CC    1                                                X   2  1954  F 1            GEN    937
5087 38 10          MCW   @/@,CODE-3                                      X   7  1956  M J87 838          937
5088 38 11  EMASQ   MCW   CODE,000                                         X   7  1963  M 841 000          937
5089 38 12          MCW   HEX2,X2                                         X   7  1970  M !53 094          937
5090 38 13  NXGUY   SBR   X1,0                                           X   7  1977  H 089 000          937
5091 38 14          B     GO                                               X   4  1984  B 852              938
5092 38 15  OUT     MCW   ABOTM,X1                                        X   7  1988  M 844 089          938
5093 38 16          FENDX C,,,,,,SYS2,LISTR TRI                            X                 MACRO
5094                BSS   333,C                                            X   5  1995  B 333 C        GEN    938
5095                SBR   TCLEAR,SYS2                                      X   7  2000  H 710 J97      GEN    938
5096                LCA   @LISTR TRI@,110                                  X   7  2007  L J96 110      GEN    938
5097                B     MONTER                                           X   4  2014  B 700          GEN    938
5098 38 17          ORG   *                                                X            2018
5099                LTORG *    WVS: AUTOCODER SHOULDN'T LOAD INCLD AT ORG   X            2018
5100                DCW   #1                                               X   1  2018              GEN    938
5101        ZONES   DC    9                                                X   1  2019              GEN    938
5102                DCW   @9Z9R9I99ZZZRZIZ9RZRRRIR9IZIRIII@                 X  31  2050              GEN    939
            *         LTORG*                                                                          GEN
            HEX2 X  DCW   #03                                              X   3  2053              AREA   939
            HEX1 X  DCW   #03                                              X   3  2056              AREA   939
                    DCW   @.@                                              X   1  2057              LIT    939
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SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
			COUNTX	DCW	#01	X	1	2058		AREA	939
				DCW	@,@	X	1	2059		LIT	940
			SVZN X	DCW	#01	X	1	2060		AREA	940
			SV1 X	DCW	#03	X	3	2063		AREA	940
			HOLD5X	DCW	#05	X	5	2068		AREA	940
				DCW	&16000	X	5	2073		LIT	940
				DCW	@0@	X	1	2074		LIT	940
			HOLD3X	DCW	#03	X	3	2077		AREA	940
			SAVE1X	DCW	#03	X	3	2080		AREA	941
				DCW	&1	X	1	2081		LIT	941
				DCW	@#@	X	1	2082		LIT	941
			HEX3 X	DCW	#03	X	3	2085		AREA	941
				DCW	@)@	X	1	2086		LIT	941
				DCW	@# @	X	4	2090		LIT	941
				DCW	@%@	X	1	2091		LIT	941
				DCW	@N@	X	1	2092		LIT	942
			SPACEX	DCW	#48	X	48	2140		AREA	944
				DCW	@B@	X	1	2141		LIT	944
				DCW	@?@	X	1	2142		LIT	944
			ADRSSX	DCW	#03	X	3	2145		AREA	944
				DCW	@0123456789@	X	10	2155		LIT	944
				DCW	@ERROR 47 - BAD LIST, STATEMENT @	X	31	2186		LIT	945
				DCW	@/@	X	1	2187		LIT	945
				DCW	@LISTR TRI@	X	9	2196		LIT	946
5103	38	18	SYS2	DCW	@}@ SYSTEM GROUP MARK	X	1	2197		GMARK	946
5104	38	19	ADONE	EQU	ONEADR	X		0142			
5105	38	20		XFR	PHSE2	X			B 845		947

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 SEQ PG LIN  LABEL  OP    OPERANDS                                          SFX CT  LOCN  INSTRUCTION TYPE  CARD
5106 38 21          JOB   1401 FORTRAN   LISTS PHASE THREE                  X
5107 38 22   110    DCW   @LISTR TRI@                                       X   9  0110                    950
5108 38 23   *    MOVES DOWN PROGRAM
5109 38 24          ORG   PHSE2                                             X          0845
5110 38 25   PHSE3  MCW   X2,NXBTM                                          X   7  0845  M 094 083          951
5111 38 26          SW    GM                                                X   4  0852  , |11            951
5112 38 27          LCA   GM,0&X2                                           X   7  0856  L |11 0!0          951
5113 38 28          SBR   X2                                                X   4  0863  H 094            951
5114 38 29   BEGIN  BWZ   NOLST,000&X1,1                                    X   8  0867  V 918 0|0 1       951
5115 38 30          B     SLIDE                                             X   4  0875  B 942            951
5116 38 31          B     SLIDE                                             X   4  0879  B 942            951
5117 38 32          BCE   BEGIN,1&X2,}                  GM                 X   8  0883  B 867 0!1 } GMARK  952
5118 38 33          CW    001&X2                                            X   4  0891  ) 0!1            952
5119 38 34          C     0&X1                                              X   4  0895  C 0|0            952
5120 38 35          SAR   X1                                                X   4  0899  Q 089            952
5121 38 36          SBR   X1,001&X1                                         X   7  0903  H 089 0|1        952
5122 38 37          B     SLIDE                                             X   4  0910  B 942            952
5123 38 38          B     BEGIN                                             X   4  0914  B 867            952
5124 38 39   NOLST  CW    000&X1                                            X   4  0918  ) 0|0            953
5125 38 40   RUDUN  BCE   EXPH3,000&X1,         BLANK                      X   8  0922  B 969 0|0        953
5126 38 41          B     SLIDE                                             X   4  0930  B 942            953
5127 38 42          B     SLIDE                                             X   4  0934  B 942            953
5128 38 43          B     RUDUN                                             X   4  0938  B 922            953
5129 38 44   SLIDE  SBR   EXSLD&3                                           X   4  0942  H 968            953
5130 38 45          MVDWN X1,X2                                             X                    MACRO
5131                LCA   0&X1,0&X2                                         X   7  0946  L 0|0 0!0   GEN    953
5132                SAR   X1                                                X   4  0953  Q 089       GEN    954
5133                C     0&X2                                              X   4  0957  C 0!0       GEN    954
5134                SAR   X2                                                X   4  0961  Q 094       GEN    954
5135 38 46   EXSLD  B     000                                               X   4  0965  B 000            954
5136 38 47   EXPH3  FENDX D,,,XBEGIN,PHSE2N,XBEGIN,SYS3,STNUM2              X                    MACRO
5137        EXPH3  BSS   333,D                                             X   5  0969  B 333 D    GEN    954
5138                SBR   INITAP&6,XBEGIN                                   X   7  0974  H 786 838  GEN    954
5139                SBR   BCLEAR                                            X   4  0981  H 833      GEN    954
5140                SBR   INITXT&3,PHSE2N                                   X   7  0985  H 796 937  GEN    955
5141                SBR   TCLEAR,SYS3                                       X   7  0992  H 710 |18  GEN    955
5142                LCA   @STNUM2@,110                                      X   7  0999  L |17 110  GEN    955
5143                B     MONTER                                            X   4  1006  B 700      GEN    955
5144 38 48          DCW   @ @       BLANK                                   X   1  1010                   955
5145 38 49   GM     DC    @}@                          GROUP MARK           X   1  1011             GMARK  955
5146 38 50          LTORG *                                                 X          1012
                    DCW   @STNUM2@                                          X   6  1017             LIT    955
5147 38 51   SYS3   DCW   @}@                          SYSTEM GROUP MARK    X   1  1018             GMARK  955
5148 38 52          XFR   PHSE3                                             X          B 845                   956
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 SEQ PG LIN  LABEL  OP    OPERANDS                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD
5149 38 53          JOB   1401 FORTRAN  STATEMENT NUMBER DEFINER TWO  X
5150 38 54          FBEGN STNUM TWO,X1,,X2,,X3,R,N                  X                    MACRO
5151                SFX   N                                         N                    GEN
5152          110   DCW   @STNUM TWO@                               N   9  0110           GEN    959
5153          X1    EQU   089                                       N      0089           GEN
5154          X2    EQU   094                                       N      0094           GEN
5155          X3    EQU   099                                       N      0099           GEN
5156          099   DCW   000                                       N   3  0099           GEN    960
5157          100   DC    0                                         N   1  0100           GEN    960
5158 38 55          ORG   XBEGIN                                    N          0838
5159 38 56    BASE  DCW   #3                                        N   3  0840                  961
5160 38 57    MAX   DCW   #4                                        N   4  0844                  961
5161 38 58          DC    #2                                        N   2  0846                  961
5162 38 59    UPLIM DCW   #3                                        N   3  0849                  961
5163 38 60    NOMO  DCW   #3                                        N   3  0852                  961
5164 38 61    MVUP  SBR   EXMVP&3                                   N   4  0853  H 936           961
5165 38 62          MOVUP X2,X1,NOMO,ALL,|                          N                    MACRO
5166                MN    0&X1                                      N   4  0857  D 0|0     GEN    961
5167                SAR   X1                                        N   4  0861  Q 089     GEN    961
5168          )0J131 MCM  0&X2                                      N   4  0865  P 0!0     GEN    962
5169                SAR   )0L131&6                                  N   4  0869  Q 891     GEN    962
5170                MCM   0&X2,1&X1                                 N   7  0873  P 0!0 0|1 GEN    962
5171                MN                                            N   1  0880  D         GEN    962
5172                SBR   X1                                        N   4  0881  H 089     GEN    962
5173          )0L131 SBR  X2,0                                      N   7  0885  H 094 000 GEN    962
5174                BCE   )0J131,0&X1,|                           N   8  0892  B 865 0|0 | GEN    962
5175                MN    0&X2                                      N   4  0900  D 0!0     GEN    963
5176                CW                                            N   1  0904  )         GEN    963
5177                SW    0&X1                                      N   4  0905  , 0|0     GEN    963
5178                C     X2,NOMO                                   N   7  0909  C 094 852 GEN    963
5179                BU    )0J131                                    N   5  0916  B 865 /   GEN    963
5180 38 63          MN    000&X1                                    N   4  0921  D 0|0            963
5181 38 64          SAR   X1                                        N   4  0925  Q 089            963
5182 38 65          SBR   X2                                        N   4  0929  H 094            964
5183 38 66    EXMVP B     000                                       N   4  0933  B 000            964
5184 38 67    NXBTM EQU   083                                       N      0083
5185 38 68    PHSE2 MCW   NXBTM,X3                                  N   7  0937  M 083 099        964
5186 38 69          SBR   NOMO,1&X3                                 N   7  0944  H 852 0?1        964
5187 38 70          MCW   X2,X3                                     N   7  0951  M 094 099        964
5188 38 71    CLR1  CS    000&X3                                    N   4  0958  / 0?0            964
5189 38 72          SBR   X3                                        N   4  0962  H 099            964
5190 38 73          C     X3,&SAUCE-1                               N   7  0966  C 099 T10        965
5191 38 74          BU    CLR1                                      N   5  0973  B 958 /          965
5192 38 75          SBR   X1,SAUCE-1                               N   7  0978  H 089 A99        965
5193 38 76    *  SHIFT SOURCE PROGRAM UP TO COMPILER PROGRAM
5194 38 77          B     MVUP                                      N   4  0985  B 853            965
5195 38 78          SBR   BASE,5&X1                                N   7  0989  H 840 0|5        965
5196 38 79          MN    TWO9,BASE                                 N   7  0996  D S75 840        965
5197 38 80          MN                                            N   1  1003  D                965
5198 38 81          MCW   NXBTM,X3                                 N   7  1004  M 083 099        966
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 SEQ PG LIN  LABEL  OP    OPERANDS                                          SFX CT  LOCN  INSTRUCTION TYPE  CARD
5199 38 82    *  CLEAR BALANCE OF CORE
5200 38 83    CLR2   CS    000&X3                                            N   4  1011  / 0?0              966
5201 38 84           SBR   X3                                                N   4  1015  H 099              966
5202 38 85           C     X3,BASE                                           N   7  1019  C 099 840          966
5203 38 86           BU    CLR2                                              N   5  1026  B |11 /            966
5204 38 87           MCW   @<@,0&X3                  12-6-8                 N   7  1031  M T11 0?0          966
5205 38 88    *  DIVIDE REST OF CORE FOR TABLES   RATIO 3 TO 7
5206 38 89           MCW   NXBTM,LOC                                         N   7  1038  M 083 S73          967
5207 38 90           B     UNPAK                                             N   4  1045  B S00              967
5208 38 91           MCW   NUM#5,MAX&2                                       N   7  1049  M T16 846          967
5209 38 92           MCW   BASE,LOC                                          N   7  1056  M 840 S73          967
5210 38 93           B     UNPAK                                             N   4  1063  B S00              967
5211 38 94           S     NUM,MAX&2                                         N   7  1067  S T16 846          967
5212 38 95           A     MAX&2                                             N   4  1074  A 846              968
5213 38 96           A     MAX&2                                             N   4  1078  A 846              968
5214 38 97           A     MAX&2                                             N   4  1082  A 846              968
5215 38 98           A     MAX&2                                             N   4  1086  A 846              968
5216 38 99           A     MAX,ACCUM#6                                       N   7  1090  A 844 T22          968
5217 39 00           A     ACCUM                                             N   4  1097  A T22              968
5218 39 01           A     MAX,ACCUM        3*MAX IN ACCUM                   N   7  1101  A 844 T22          968
5219 39 02           A     NUM,ACCUM                                         N   7  1108  A T16 T22          969
5220 39 03           MCW   ACCUM-3,X3                                       N   7  1115  M T19 099          969
5221 39 04           A     X3                                                N   4  1122  A 099              969
5222 39 05           MZ    ZONES&X3,ACCUM-2                                  N   7  1126  Y SG6 T20          969
5223 39 06           MZ    ZONES&1&X3,ACCUM                                  N   7  1133  Y SG7 T22          969
5224 39 07           MCW   ACCUM,X3                                          N   7  1140  M T22 099          969
5225 39 08           SW    002&X3                                            N   4  1147  , 0?2              970
5226 39 09           MCW   @<@       12-6-8                                  N   4  1151  M T11              970
5227 39 10           SBR   UPLIM                                             N   4  1155  H 849              970
5228 39 11           FENDX C,,,PHSE2,PHSE3,PHSE2,SAUCE-1,STNUM TRI           N                        MACRO
5229                 BSS   333,C                                             N   5  1159  B 333 C     GEN    970
5230                 SBR   INITAP&6,PHSE2                                    N   7  1164  H 786 937   GEN    970
5231                 SBR   BCLEAR                                           N   4  1171  H 833       GEN    970
5232                 SBR   INITXT&3,PHSE3                                   N   7  1175  H 796 /87   GEN    970
5233                 SBR   TCLEAR,SAUCE-1                                   N   7  1182  H 710 A99   GEN    971
5234                 LCA   @STNUM TRI@,110                                  N   7  1189  L T31 110   GEN    971
5235                 B     MONTER                                            N   4  1196  B 700       GEN    971
5236 39 12    UNPAK  SBR   EXIT&3                                           N   4  1200  H S68              971
5237 39 13           MN    LOC,NUM                                           N   7  1204  D S73 T16          971
5238 39 14           MN                                                      N   1  1211  D                  971
5239 39 15           MN                                                      N   1  1212  D                  971
5240 39 16           MCW                                                     N   1  1213  M                  972
5241 39 17           MZ    LOC,TWO9                                          N   7  1214  Y S73 S75          972
5242 39 18           MZ    LOC-2,TWO9-1                                      N   7  1221  Y S71 S74          972
5243 39 19           SBR   X3,ZONES-3                                       N   7  1228  H 099 S73          972
5244 39 20    COMP   C     004&X3,TWO9                                       N   7  1235  C 0?4 S75          972
5245 39 21           SAR   X3                                                N   4  1242  Q 099              972
5246 39 22           A     &1,NUM-3                                          N   7  1246  A T32 T13          973
5247 39 23           BU    COMP                                              N   5  1253  B S35 /            973
5248 39 24           MZ    @ @,NUM-3                                         N   7  1258  Y T33 T13          973
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 SEQ PG LIN  LABEL   OP    OPERANDS                                        SFX CT  LOCN  INSTRUCTION TYPE  CARD
5249 39 25   EXIT    B     0                                                N  4  1265  B 000             973
5250 39 26   LOC     DCW   @0J   @                                          N  5  1273                   973
5251 39 27   TWO9    DCW   @99@                                            N  2  1275                   973
5252 39 28   ZONES   DC    @9@                                             N  1  1276                   973
5253 39 29           DC    @9Z9R9I99ZZZRZIZ9RZRRRIR9IZIRIII@               N 31  1307                   974
5254 39 30           LTORG *                                               N           1308
                     DCW   &SAUCEN-1                                       N  3  1310  A99         ADCON  974
                     DCW   @<@                                             N  1  1311                LIT    974
             NUM  N  DCW   #05                                             N  5  1316                AREA   975
             ACCUMN  DCW   #06                                             N  6  1322                AREA   975
                     DCW   @STNUM TRI@                                     N  9  1331                LIT    975
                     DCW   &1                                              N  1  1332                LIT    975
                     DCW   @ @                                             N  1  1333                LIT    975
5255 39 31           DCW   @}@                          SYSTEM GROUP MARK  N  1  1334                GMARK  975
5256 39 32           XFR   PHSE2                                           N           B 937             976
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 SEQ PG LIN  LABEL  OP    OPERANDS                                          SFX CT  LOCN  INSTRUCTION TYPE  CARD
5257 39 33          JOB   1401 FORTRAN   STATEMENT NUMBER PHASE THREE       N
5258 39 34   110    DCW   @STNUM TRI@                                       N  9  0110                    979
5259 39 35          ORG   PHSE2                                             N          0937
5260 39 36   SLIDE  SBR   EXSLD&3                                           N  4  0937  H 963             980
5261 39 37          MVDWN X1,X2                                            N                   MACRO
5262                LCA   0&X1,0&X2                                        N  7  0941  L 0|0 0!0  GEN     980
5263                SAR   X1                                              N  4  0948  Q 089      GEN     980
5264                C     0&X2                                            N  4  0952  C 0!0      GEN     980
5265                SAR   X2                                              N  4  0956  Q 094      GEN     980
5266 39 38   EXSLD  B     000                                             N  4  0960  B 000              980
5267 39 39   RANDM  SBR   EXRDM&3                                         N  4  0964  H |47              980
5268 39 40          MCW   000&X1,ALPH                                     N  7  0968  M 0|0 |51          981
5269 39 41          SAR   HEX1                                            N  4  0975  Q |54              981
5270 39 42          MN    ALPH,MOD                                        N  7  0979  D |51 |58          981
5271 39 43          CHAIN 3     BLANK IN ALPH-3 IMPLIES 3 DIGIT NO. IN MOD N                   MACRO
5272                MN                                                    N  1  0986  D           GEN     981
5273                MN                                                    N  1  0987  D           GEN     981
5274                MN                                                    N  1  0988  D           GEN     981
5275 39 44   SUBTR  S     MAX,MOD                                         N  7  0989  S 844 |58          981
5276 39 45          BWZ   SUBTR,MOD,B                                     N  8  0996  V 989 |58 B        982
5277 39 46          A     MAX,MOD                                         N  7  1004  A 844 |58          982
5278 39 47          MZ    *-4,MOD                                         N  7  1011  Y |13 |58          982
5279 39 48          MCW   MOD,X1                                          N  7  1018  M |58 089          982
5280 39 49          A     X1                                              N  4  1025  A 089              982
5281 39 50          A     MOD,X1                                          N  7  1029  A |58 089          983
5282 39 51   BUMP   NOP   000       INITIALIZED BY PHSE3                  N  4  1036  N 000              983
5283 39 52          SAR   X1                                              N  4  1040  Q 089              983
5284 39 53   EXRDM  B     000                                             N  4  1044  B 000              983
5285 39 54          DCW   #1                                              N  1  1048                    983
5286 39 55   ALPH   DCW   #3                                              N  3  1051                    983
5287 39 56   HEX1   DCW   #3                                              N  3  1054                    983
5288 39 57   MOD    DCW   #4                                              N  4  1058                    984
5289 39 58   CODE   DCW   #4                                              N  4  1062                    984
5290 39 59   NEXT   DCW   #3                                              N  3  1065                    984
5291 39 60   FULL   FQUIT                                                 N                   MACRO
5292         FULL   CS    332                                             N  4  1066  / 332      GEN     984
5293                CS                                                    N  1  1070  /           GEN     984
5294                CC    1                                               N  2  1071  F 1        GEN     984
5295                MCW   @MESSAGE 2 - OBJECT PROGRAM TOO LARGE@,270      N  7  1073  M /79 270  GEN     984
5296                W                                                     N  1  1080  2           GEN     985
5297                CC    1                                               N  2  1081  F 1        GEN     985
5298                BCE   *&6,MONTOR,1                                    N  8  1083  B |96 769 1  GEN     985
5299                RWD   1                                               N  5  1091  U %U1 R     GEN     985
5300                H     *-3                                             N  4  1096  . |96       GEN     985
5301 39 61   OUT    MCW   SAVE1,X1                                        N  7  1100  M /43 089          985
5302 39 62          FENDX C,,,PHSE3,,PHSE3,SYS3,STNUM 4                   N                   MACRO
5303                BSS   333,C                                           N  5  1107  B 333 C    GEN     985
5304                SBR   INITAP&6,PHSE3                                  N  7  1112  H 786 /87  GEN     986
5305                SBR   BCLEAR                                         N  4  1119  H 833      GEN     986
5306                SBR   TCLEAR,SYS3                                     N  7  1123  H 710 W89  GEN     986
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 SEQ PG LIN  LABEL  OP    OPERANDS                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD
5307                LCA   @STNUM 4@,110                             N   7  1130  L /86 110   GEN    986
5308                B     MONTER                                    N   4  1137  B 700       GEN    986
5309 39 63  SAVE1   DCW   #3                                        N   3  1143                     986
5310 39 64          LTORG *                                         N        1144
                    DCW   @MESSAGE 2 - OBJECT PROGRAM TOO LARGE@    N  36  1179             LIT    987
                    DCW   @STNUM 4@                                 N   7  1186             LIT    988
5311 39 65  PHSE3   MCW   NXBTM,NEXT                                N   7  1187  M 083 |65          988
5312 39 66          MCW   NXBTM,ADTBLL                             N   7  1194  M 083 145         988
5313 39 67          MCW   BASE,BUMP&3                              N   7  1201  M 840 |39         988
5314 39 68          MZ    @S@,BUMP&2                                N   7  1208  Y W67 |38         988
5315 39 69          SBR   NOMO,2&X2                                N   7  1215  H 852 0!2         989
5316 39 70          MCW   X1,SAVE1                                  N   7  1222  M 089 /43         989
5317 39 71  RUCGT   MCW   000&X1,CODE                               N   7  1229  M 0|0 |62         989
5318 39 72          BCE   CGOTO,CODE-3,T                            N   8  1236  B T67 |59 T       989
5319 39 73          MCW   @B@,SWCH                                  N   7  1244  M W68 V83         989
5320 39 74          MCW   NEXT,NXBTM                                N   7  1251  M |65 083         990
5321 39 75          C     X1,X2                                     N   7  1258  C 089 094         990
5322 39 76          BE    *&5                                       N   5  1265  B S74 S           990
5323 39 77          B     MVUP                                      N   4  1270  B 853            990
5324 39 78  NORML   BCE   OUT,000&X1,     BLANK                    N   8  1274  B /00 0|0         990
5325 39 79          MCW   000&X1,CODE                               N   7  1282  M 0|0 |62         990
5326 39 80          B     SLIDE                                     N   4  1289  B 937            991
5327 39 81          MCW   CODE-3,*&8                                N   7  1293  M |59 T07         991
5328 39 82          BCE   WORRY,@WTDEGK@,0                          N   8  1300  B T21 W74 0       991
5329 39 83          CHAIN 5                                         N                   MACRO
5330                BCE                                             N   1  1308  B           GEN    991
5331                BCE                                             N   1  1309  B           GEN    991
5332                BCE                                             N   1  1310  B           GEN    991
5333                BCE                                             N   1  1311  B           GEN    991
5334                BCE                                             N   1  1312  B           GEN    992
5335 39 84  BTMNL   B     SLIDE                                     N   4  1313  B 937            992
5336 39 85          B     NORML                                     N   4  1317  B S74            992
5337 39 86  WORRY   B     RANDM                                     N   4  1321  B 964            992
5338 39 87          B     CHAIN                                     N   4  1325  B V33            992
5339 39 88          MCW   X3,000&X2                                N   7  1329  M 099 0!0        992
5340 39 89          SBR   X2                                        N   4  1336  H 094            992
5341 39 90          MCW   HEX1,X1                                  N   7  1340  M |54 089        993
5342 39 91          BCE   BTMNL,000&X1,}        GROUP MK           N   8  1347  B T13 0|0 } GMARK  993
5343 39 92          BCE   BTMNL,000&X1,,                            N   8  1355  B T13 0|0 ,      993
5344 39 93          B     WORRY                                     N   4  1363  B T21            993
5345 39 94  CGOTO   C     0&X1                                      N   4  1367  C 0|0            993
5346 39 95          MN                                              N   1  1371  D                993
5347 39 96          SAR   X3                                        N   4  1372  Q 099            993
5348 39 97          S     COUNT#3                                   N   4  1376  S W77            994
5349 39 98  RTLFT   MN    000&X3                                    N   4  1380  D 0?0            994
5350 39 99          MN                                              N   1  1384  D                994
5351 40 00          MN                                              N   1  1385  D                994
5352 40 01          SAR   X3                                        N   4  1386  Q 099            994
5353 40 02          A     @1@,COUNT                                 N   7  1390  A W78 W77        994
5354 40 03          BCE   FORK,001&X3,,                             N   8  1397  B U09 0?1 ,      994
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 SEQ PG LIN  LABEL  OP    OPERANDS                                          SFX CT  LOCN  INSTRUCTION TYPE  CARD
5355 40 04          B     RTLFT                                              N   4  1405  B T80              995
5356 40 05   FORK   S     &11,COUNT                                          N   7  1409  S W80 W77          995
5357 40 06          BWZ   BIG,COUNT,B     PLUS                            N   8  1416  V U36 W77 B        995
5358 40 07          B     SLIDE                                              N   4  1424  B 937             995
5359 40 08   BTMCG  B     SLIDE                                              N   4  1428  B 937             995
5360 40 09          B     RUCGT                                              N   4  1432  B S29             995
5361 40 10   BIG    MN    000&X1                                             N   4  1436  D 0|0             995
5362 40 11          MN                                                       N   1  1440  D                 996
5363 40 12          MN                                                       N   1  1441  D                 996
5364 40 13          MCW   @H@                                                N   4  1442  M W81             996
5365 40 14          B     SLIDE                                              N   4  1446  B 937             996
5366 40 15          MCW   X3,HEX3#3                                          N   7  1450  M 099 W84         996
5367 40 16          MN    000&X3                                             N   4  1457  D 0?0             996
5368 40 17          MN                                                       N   1  1461  D                 996
5369 40 18          SAR   X1                                                 N   4  1462  Q 089             997
5370 40 19          A     &9,COUNT                                           N   7  1466  A W85 W77         997
5371 40 20   LOOP   SBR   X1,6&X1                                           N   7  1473  H 089 0|6         997
5372 40 21          B     RANDM                                              N   4  1480  B 964             997
5373 40 22          B     CHAIN                                              N   4  1484  B V33             997
5374 40 23          MCW   HEX1,X1                                            N   7  1488  M |54 089         997
5375 40 24          BCE   HEADR,004&X1,}        GROUP MK                     N   8  1495  B V07 0|4 } GMARK 998
5376 40 25          B     LOOP                                               N   4  1503  B U73             998
5377 40 26   HEADR  MCW   NEXT,000&X2                                        N   7  1507  M |65 0!0         998
5378 40 27          MCW   COUNT                                              N   4  1514  M W77             998
5379 40 28          SBR   X2                                                 N   4  1518  H 094             998
5380 40 29          MCW   HEX3,X1                                            N   7  1522  M W84 089         998
5381 40 30          B     BTMCG                                              N   4  1529  B U28             998
5382 40 31   CHAIN  SBR   EXCHN&3                                           N   4  1533  H W44             999
5383 40 32          MCW   @N@,OVFLW                                          N   7  1537  M W86 W45         999
5384 40 33   AGAIN  MCW   000&X1,X3                                          N   7  1544  M 0|0 099         999
5385 40 34          SAR   X1                                                 N   4  1551  Q 089             999
5386 40 35          BCE   NEW,003&X1,      BLANK                           N   8  1555  B W06 0|3         999
5387 40 36          BCE   OVFLW,003&X1,<     12-6-8   ALTER STNUM PHSE 1    N   8  1563  B W45 0|3 <       999
5388 40 37          C     000&X3,ALPH                                        N   7  1571  C 0?0 |51        1000
5389 40 38          BU    AGAIN                                              N   5  1578  B V44 /          1000
5390 40 39   SWCH   NOP   EXCHN                                             N   4  1583  N W41            1000
5391 40 40          MCW   NEXT,000&X3                                        N   7  1587  M |65 0?0        1000
5392 40 41          SBR   X3                                                 N   4  1594  H 099            1000
5393 40 42          MZ    @ A@,002&X3     BLANK                            N   7  1598  Y W88 0?2        1000
5394 40 43          CW      DUMMY ON A-OPER, EFFECTIVE ON B-OPER             N   1  1605  )                1000
5395 40 44   NEW    LCA   NEXT,003&X1                                        N   7  1606  L |65 0|3        1001
5396 40 45          MCW   NEXT,X3                                           N   7  1613  M |65 099        1001
5397 40 46          BCE   FULL,000&X3,<      12-6-8                         N   8  1620  B |66 0?0 <      1001
5398 40 47          B                                                        N   1  1628  B                1001
5399 40 48          B                                                        N   1  1629  B                1001
5400 40 49          LCA   ALPH,000&X3                                       N   7  1630  L |51 0?0        1001
5401 40 50          SBR   NEXT                                             N   4  1637  H |65            1001
5402 40 51   EXCHN  B     000                                                N   4  1641  B 000            1002
5403 40 52   OVFLW  NOP   FULL                                               N   4  1645  N |66            1002
5404 40 53          MCW   @B@,OVFLW                                         N   7  1649  M W68 W45        1002
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SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
5405	40	54		MCW	UPLIM,X1	N	7	1656	M 849 089		1002
5406	40	55		B	AGAIN	N	4	1663	B V44		1002
5407	40	56		LTORG	*	N			1667		
				DCW	@S@	N	1	1667		LIT	1002
				DCW	@B@	N	1	1668		LIT	1002
				DCW	@WTDEGK@	N	6	1674		LIT	1003
			COUNTN	DCW	#03	N	3	1677		AREA	1003
				DCW	@1@	N	1	1678		LIT	1003
				DCW	&11	N	2	1680		LIT	1003
				DCW	@H@	N	1	1681		LIT	1003
			HEX3 N	DCW	#03	N	3	1684		AREA	1003
				DCW	&9	N	1	1685		LIT	1003
				DCW	@N@	N	1	1686		LIT	1004
				DCW	@ A@	N	2	1688		LIT	1004
5408	40	57	SYS3	DCW	@}@ SYSTEM GROUP MARK	N	1	1689		GMARK	1004
5409	40	58		ORG	NDRITH&X00	N			3200		
5410	40	59		ORG	*-5	N			3195		
5411	40	60		DCW	#5	N	5	3199			1005
5412	40	61	SAUCE	EQU	*&1	N		3200			
5413	40	62		XFR	PHSE3	N			B /87		1006

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 SEQ PG LIN  LABEL  OP    OPERANDS                                          SFX CT  LOCN  INSTRUCTION TYPE  CARD
5414 40 63           JOB   1401 FORTRAN   STATEMENT NUMBER PHASE FOUR        N
5415 40 64   110     DCW   @STNUM FOR@                                      N   9  0110                    1009
5416 40 65           ORG   PHSE3                                            N          1187
5417 40 66   PHSE4   LCA   @ @,000&X2      BLANK                            N   7  1187  L W25 0!0         1010
5418 40 67           SW    GM                                               N   4  1194  , X25             1010
5419 40 68           MCW   X1,X2                                            N   7  1198  M 089 094         1010
5420 40 69   START   BCE   OUT1,0&X1,                    BLANK              N   8  1205  B U84 0|0         1010
5421 40 70           MCW   000&X1,CODE                                      N   7  1213  M 0|0 |62         1010
5422 40 71           SAR   X1                                               N   4  1220  Q 089             1010
5423 40 72           BCE   NONUM,000&X1,}     GROUP  MK                     N   8  1224  B V69 0|0 } GMARK 1011
5424 40 73           B     RANDM                                            N   4  1232  B 964             1011
5425 40 74           MCW   @N@,WRAP                                         N   7  1236  M W26 T90         1011
5426 40 75   NOTHR   MCW   000&X1,X3                                        N   7  1243  M 0|0 099         1011
5427 40 76           SAR   X1                                               N   4  1250  Q 089             1011
5428 40 77           BWZ   NOTYT,001&X1,1       WORD MK                    N   8  1254  V S94 0|1 1       1011
5429 40 78           BCE   WRAP,003&X1,<        12-6-8                     N   8  1262  B T90 0|3 <       1012
5430 40 79           BCE   UNREF,1&X1,                    BLANK             N   8  1270  B U12 0|1         1012
5431 40 80           C     003&X1,ALPH                                      N   7  1278  C 0|3 |51         1012
5432 40 81           BU    NOTHR                                            N   5  1285  B S43 /           1012
5433 40 82           B     MULTY                                            N   4  1290  B U46             1012
5434 40 83   NOTYT   C     000&X3,ALPH                                      N   7  1294  C 0?0 |51         1012
5435 40 84           BU    NOTHR                                            N   5  1301  B S43 /           1013
5436 40 85           MZ    CODE-1,ZONE#1                                    N   7  1306  Y |61 W27         1013
5437 40 86           MZ    *-4,CODE-1                                       N   7  1313  Y T15 |61         1013
5438 40 87           MCW   CODE,000&X3                                      N   7  1320  M |62 0?0         1013
5439 40 88           SBR   X3                                               N   4  1327  H 099             1013
5440 40 89           CW    001&X3                                           N   4  1331  ) 0?1             1013
5441 40 90           MCW   003&X1,CODE                                      N   7  1335  M 0|3 |62         1014
5442 40 91           MZ    ZONE,CODE-1                                      N   7  1342  Y W27 |61         1014
5443 40 92           MCW   ALPH,003&X1                                      N   7  1349  M |51 0|3         1014
5444 40 93           CW    001&X1                                           N   4  1356  ) 0|1             1014
5445 40 94   HEX2X   MCW   HEX1,X1                                          N   7  1360  M |54 089         1014
5446 40 95   BOTM    SBR   X1,4&X1                                         N   7  1367  H 089 0|4         1014
5447 40 96           MCW   CODE                                             N   4  1374  M |62             1015
5448 40 97           B     SLIDE                                            N   4  1378  B 937             1015
5449 40 98           B     SLIDE                                            N   4  1382  B 937             1015
5450 40 99           B     START                                            N   4  1386  B S05             1015
5451 41 00   WRAP    NOP   UNREF                                           N   4  1390  N U12             1015
5452 41 01           MCW   @B@,WRAP                                         N   7  1394  M W28 T90         1015
5453 41 02           MCW   UPLIM,X1                                         N   7  1401  M 849 089         1015
5454 41 03           B     NOTHR                                            N   4  1408  B S43             1016
5455 41 04   UNREF   FTMSG 19,UNREFERENCED STMT NUMBER,CODE,26,NOFAIL       N                       MACRO
5456         UNREF   CS    332                                              N   4  1412  / 332       GEN   1016
5457                 CS                                                     N   1  1416  /           GEN   1016
5458                 MN    CODE,224&26                                      N   7  1417  D |62 250   GEN   1016
5459                 MN                                                     N   1  1424  D           GEN   1016
5460                 MN                                                     N   1  1425  D           GEN   1016
5461                 MCW   @ERROR 19 - UNREFERENCED STMT NUMBER, STATEMENT @ N   4  1426  M W75       GEN   1016
5462                 W                                                      N   1  1430  2           GEN   1017
5463                 BCV   *&5                                              N   5  1431  B U40 @     GEN   1017
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 SEQ PG LIN  LABEL   OP    OPERANDS                                          SFX CT  LOCN  INSTRUCTION TYPE  CARD
5464                B     *&3                                                N  4  1436  B U42       GEN   1017
5465                CC    1                                                  N  2  1440  F 1         GEN   1017
5466 41 05          B     PRNUM                                              N  4  1442  B V62             1017
5467 41 06  MULTY   FTMSG 20,DOUBLY DEFINED STMT,CODE,21                     N                  MACRO
5468        MULTY   CS    332                                                N  4  1446  / 332       GEN   1017
5469                CS                                                       N  1  1450  /           GEN   1017
5470                SW    FAILSW                                             N  4  1451  , 184       GEN   1018
5471                MN    CODE,224&21                                        N  7  1455  D |62 245    GEN   1018
5472                MN                                                       N  1  1462  D           GEN   1018
5473                MN                                                       N  1  1463  D           GEN   1018
5474                MCW   @ERROR 20 - DOUBLY DEFINED STMT, STATEMENT @       N  4  1464  M X17       GEN   1018
5475                W                                                        N  1  1468  2           GEN   1018
5476                BCV   *&5                                                N  5  1469  B U78 @     GEN   1018
5477                B     *&3                                                N  4  1474  B U80       GEN   1019
5478                CC    1                                                  N  2  1478  F 1         GEN   1019
5479 41 07          B     HEX2X                                              N  4  1480  B T60             1019
5480 41 08  OUT1    MCW   NEXT,X3                                           N  7  1484  M |65 099         1019
5481 41 09          LCA   GM,0&X3                                           N  7  1491  L X25 0?0         1019
5482 41 10          SBR   X3                                                 N  4  1498  H 099             1019
5483 41 11          SBR   BSAUCE                                             N  4  1502  H 148             1019
5484 41 12          CS    0&X2                                               N  4  1506  / 0!0             1020
5485 41 13          MCW   SAVE1,X1                                           N  7  1510  M /43 089         1020
5486 41 14          SW    0&X2                                               N  4  1517  , 0!0             1020
5487 41 15          FENDX C,GM,,XBEGIN,XBEGIN,XBEGIN,SYS4,STNUM 5            N                  MACRO
5488                BSS   333,C                                              N  5  1521  B 333 C     GEN   1020
5489                SBR   INITAP&6,XBEGIN                                    N  7  1526  H 786 838   GEN   1020
5490                SBR   BCLEAR                                             N  4  1533  H 833       GEN   1020
5491                SBR   INITXT&3,XBEGIN                                    N  7  1537  H 796 838   GEN   1020
5492                SBR   TCLEAR,SYS4                                        N  7  1544  H 710 X26   GEN   1021
5493                LCA   @STNUM 5@,110                                     N  7  1551  L X24 110   GEN   1021
5494                B     MONTER                                             N  4  1558  B 700       GEN   1021
5495 41 16  PRNUM   MCW   HEX1,X1                                           N  7  1562  M |54 089         1021
5496 41 17  NONUM   BCE   PSUDO,CODE-3,D                                     N  8  1569  B V81 |59 D       1021
5497 41 18          B     BOTM                                               N  4  1577  B T67            1021
5498 41 19  PSUDO   MCW   NEXT,X3                                           N  7  1581  M |65 099         1022
5499 41 20          MCW   CODE,000&X3                                        N  7  1588  M |62 0?0         1022
5500 41 21          SBR   X3                                                 N  4  1595  H 099             1022
5501 41 22          BCE   FULL,000&X3,<     12-6-8                           N  8  1599  B |66 0?0 <       1022
5502 41 23          MCW   NEXT,CODE                                          N  7  1607  M |65 |62         1022
5503 41 24          SBR   NEXT,1&X3                                          N  7  1614  H |65 0?1         1023
5504 41 25          B     BOTM                                               N  4  1621  B T67            1023
5505 41 26          LTORG *                                                  N           1625
                    DCW   @ @                                                N  1  1625             LIT   1023
                    DCW   @N@                                                N  1  1626             LIT   1023
             ZONE N DCW   #01                                                N  1  1627             AREA  1023
                    DCW   @B@                                                N  1  1628             LIT   1023
                    DCW   @ERROR 19 - UNREFERENCED STMT NUMBER, STATEMENT @  N 47  1675             LIT   1025
                    DCW   @ERROR 20 - DOUBLY DEFINED STMT, STATEMENT @       N 42  1717             LIT   1027
                    DCW   @STNUM 5@                                          N  7  1724             LIT   1027
5506 41 27  GM      DC    @}@               GM                               N  1  1725             GMARK 1027
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 SEQ PG LIN  LABEL  OP    OPERANDS                                SFX CT  LOCN  INSTRUCTION TYPE  CARD
5507 41 28   SYS4   DCW   @}@                    SYSTEM GROUP MARK  N   1  1726              GMARK 1027
5508 41 29          XFR   PHSE4                                     N             B /87             1028
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 SEQ PG LIN  LABEL  OP    OPERANDS                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD
5509 41 30          JOB   1401 FORTRAN   STATEMENT NUMBER PHASE FIVE  N
5510 41 31          FBEGN STNUM 5,X1,,X2,R,X3,,L                     N                    MACRO
5511                SFX   L                                          L                    GEN
5512          110   DCW   @STNUM 5@                                  L   7  0110           GEN   1031
5513          X1    EQU   089                                        L      0089           GEN
5514          X2    EQU   094                                        L      0094           GEN
5515          094   DCW   000                                        L   3  0094           GEN   1032
5516          096   DC    00                                         L   2  0096           GEN   1032
5517          X3    EQU   099                                        L      0099           GEN
5518 41 32          ORG   XBEGIN                                     L          0838
5519 41 33  INITL   MCW   X3,HEX3#3                                  L   7  0838  M 099 S76        1033
5520 41 34          MCW   X1,HEX1#3                                  L   7  0845  M 089 S79        1033
5521 41 35          C     0&X3                                       L   4  0852  C 0?0            1033
5522 41 36          SAR   X3                                         L   4  0856  Q 099            1033
5523 41 37          CW    1&X3                                       L   4  0860  ) 0?1            1033
5524 41 38          MCW   ADTBL,X2                                  L   7  0864  M 145 094        1033
5525 41 39          C     000&X2                                     L   4  0871  C 0!0            1033
5526 41 40          SAR   X2                                         L   4  0875  Q 094            1034
5527 41 41          C     X2,HEX3                                    L   7  0879  C 094 S76        1034
5528 41 42          BE    OUT                                        L   5  0886  B S37 S          1034
5529 41 43          MCW   ADTBL,CGBTM#3                              L   7  0891  M 145 S82        1034
5530 41 44  START   BWZ   OUT,000&X1,1                              L   8  0898  V S37 0|0 1      1034
5531 41 45          MCW   000&X1,CODE#4                             L   7  0906  M 0|0 S86        1034
5532 41 46          C     000&X1                                     L   4  0913  C 0|0            1035
5533 41 47          SAR   X1                                         L   4  0917  Q 089            1035
5534 41 48          MCW   @   @,COUNT#3                            L   7  0921  M S89 S92        1035
5535 41 49          BCE   WORRY,CODE-3,H                           L   8  0928  B 968 S83 H      1035
5536 41 50          MCW   CODE-3,*&8                               L   7  0936  M S83 950        1035
5537 41 51          BCE   RUBAD,@TWEDGK@,0        CHECK           L   8  0943  B /78 S98 0      1035
5538 41 52          CHAIN 5                                        L                    MACRO
5539                BCE                                            L   1  0951  B              GEN   1035
5540                BCE                                            L   1  0952  B              GEN   1036
5541                BCE                                            L   1  0953  B              GEN   1036
5542                BCE                                            L   1  0954  B              GEN   1036
5543                BCE                                            L   1  0955  B              GEN   1036
5544 41 53  SKIP    C     000&X1                                     L   4  0956  C 0|0            1036
5545 41 54          SAR   X1                                         L   4  0960  Q 089            1036
5546 41 55          B     START                                      L   4  0964  B 898            1036
5547 41 56  WORRY   MCW   CGBTM,X3                                  L   7  0968  M S82 099        1037
5548 41 57  CKEXT   C     000&X1,X3                                  L   7  0975  C 0|0 099        1037
5549 41 58          BE    THRU                                       L   5  0982  B |45 S          1037
5550 41 59          MN    000&X3                                     L   4  0987  D 0?0            1037
5551 41 60          MN                                             L   1  0991  D                1037
5552 41 61          MN                                             L   1  0992  D                1037
5553 41 62          SAR   X3                                         L   4  0993  Q 099            1037
5554 41 63          SBR   X2                                         L   4  0997  H 094            1038
5555 41 64  CHAIN   BWZ   ADD1,001&X2,1                             L   8  1001  V /67 0!1 1      1038
5556 41 65          BWZ   CKEXT,002&X2,2                           L   8  1009  V 975 0!2 2      1038
5557 41 66          MCW   003&X2,X2                                 L   7  1017  M 0!3 094        1038
5558 41 67          MZ    @ @,X2-1        BLANK                    L   7  1024  Y S99 093        1038
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 SEQ PG LIN  LABEL  OP    OPERANDS                                        SFX CT  LOCN  INSTRUCTION TYPE  CARD
5559 41 68          MN    000&X2                                           L   4  1031  D 0!0             1038
5560 41 69          MN                                                     L   1  1035  D                 1038
5561 41 70          MN                                                     L   1  1036  D                 1039
5562 41 71          SAR   X2                                               L   4  1037  Q 094             1039
5563 41 72          B     CHAIN                                            L   4  1041  B |01             1039
5564 41 73  THRU    MCW   X3,CGBTM                                        L   7  1045  M 099 S82         1039
5565 41 74  DUN     BCE   SKIP,COUNT,      BLANK                         L   8  1052  B 956 S92         1039
5566 41 75          BWZ   *&5,CODE,2                                      L   8  1060  V |72 S86 2       1039
5567 41 76          B     ZONE                                             L   4  1068  B |80             1039
5568 41 77          BWZ   PRINT,CODE-2,2                                   L   8  1072  V |94 S84 2       1040
5569 41 78  ZONE    MCW   CODE,X3                                          L   7  1080  M S86 099         1040
5570 41 79          MCW   000&X3,CODE                                      L   7  1087  M 0?0 S86         1040
5571 41 80  PRINT   CS    299                                              L   4  1094  / 299             1040
5572 41 81          SW    FAILSW                                           L   4  1098  , 184             1040
5573 41 82          MCW   @ERROR 21 -@,210                                L   7  1102  M T09 210         1040
5574 41 83          MCW   @UNDEFINED STATEMENT NUMBERS, STATEMENT@,253     L   7  1109  M T47 253         1041
5575 41 84          MN    CODE,257                                         L   7  1116  D S86 257         1041
5576 41 85          MN                                                     L   1  1123  D                 1041
5577 41 86          MN                                                     L   1  1124  D                 1041
5578 41 87          MCS   COUNT,214                                        L   7  1125  Z S92 214         1041
5579 41 88          C     COUNT,@001@                                      L   7  1132  C S92 T50         1041
5580 41 89          BU    *&8                                              L   5  1139  B /51 /           1041
5581 41 90          MCW   @, @,243                                         L   7  1144  M T52 243         1042
5582 41 91          W                                                      L   1  1151  2                 1042
5583 41 92          FORMS                                                  L                   MACRO
5584                BCV   *&5                                              L   5  1152  B /61 @     GEN   1042
5585                B     *&3                                              L   4  1157  B /63       GEN   1042
5586                CC    1                                                L   2  1161  F 1         GEN   1042
5587 41 93          B     SKIP                                             L   4  1163  B 956            1042
5588 41 94  ADD1    A     @1@,COUNT                                        L   7  1167  A T53 S92         1042
5589 41 95          B     CKEXT                                            L   4  1174  B 975            1043
5590 41 96  RUBAD   BWZ   DUN,000&X1,1                                     L   8  1178  V |52 0|0 1       1043
5591 41 97          BCE   DUN,000&X1,,                                     L   8  1186  B |52 0|0 ,       1043
5592 41 98          MCW   000&X1,X3                                        L   7  1194  M 0|0 099         1043
5593 41 99          SAR   X1                                               L   4  1201  Q 089             1043
5594 42 00          MN    000&X3                                           L   4  1205  D 0?0             1043
5595 42 01          MN                                                     L   1  1209  D                 1043
5596 42 02          SAR   X3                                               L   4  1210  Q 099             1044
5597 42 03          BWZ   PLUS1,000&X3,1                                   L   8  1214  V S26 0?0 1       1044
5598 42 04          B     RUBAD                                            L   4  1222  B /78            1044
5599 42 05  PLUS1   A     @1@,COUNT                                        L   7  1226  A T53 S92         1044
5600 42 06          B     RUBAD                                            L   4  1233  B /78            1044
5601 42 07  OUT     MCW   HEX1,X1                                          L   7  1237  M S79 089         1044
5602 42 08          MCW   HEX3,X3                                          L   7  1244  M S76 099         1045
5603 42 09          FENDX E,,,,,,SYS5,I/O ONE                              L                   MACRO
5604                BSS   333,E                                           L   5  1251  B 333 E     GEN   1045
5605                SBR   TCLEAR,SYS5                                      L   7  1256  H 710 T61   GEN   1045
5606                LCA   @I/O ONE@,110                                    L   7  1263  L T60 110   GEN   1045
5607                B     MONTER                                           L   4  1270  B 700       GEN   1045
5608 42 10          LTORG *                                                L            1274
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 SEQ PG LIN  LABEL   OP    OPERANDS                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD
             HEX3 L  DCW   #03                                        L   3  1276              AREA  1045
             HEX1 L  DCW   #03                                        L   3  1279              AREA  1045
             CGBTML  DCW   #03                                        L   3  1282              AREA  1046
             CODE L  DCW   #04                                        L   4  1286              AREA  1046
                     DCW   @   @                                      L   3  1289              LIT   1046
             COUNTL  DCW   #03                                        L   3  1292              AREA  1046
                     DCW   @TWEDGK@                                   L   6  1298              LIT   1046
                     DCW   @ @                                        L   1  1299              LIT   1046
                     DCW   @ERROR 21 -@                               L  10  1309              LIT   1046
                     DCW   @UNDEFINED STATEMENT NUMBERS, STATEMENT@   L  38  1347              LIT   1047
                     DCW   @001@                                      L   3  1350              LIT   1048
                     DCW   @, @                                       L   2  1352              LIT   1048
                     DCW   @1@                                        L   1  1353              LIT   1048
                     DCW   @I/O ONE@                                  L   7  1360              LIT   1048
5609 42 11   SYS5    DCW   @}@                 SYSTEM GROUP MARK      L   1  1361              GMARK 1048
5610 42 12           XFR   INITL                                      L          B 838             1049
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 SEQ PG LIN  LABEL  OP    OPERANDS                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD
5611 42 13          JOB   1401 FORTRAN  INPUT/OUTPUT PHASE ONE      L
5612 42 14          FBEGN I/O ONE,X1,,X2,R,X3,,9                    L                      MACRO
5613                SFX   9                                         9                      GEN
5614          110   DCW   @I/O ONE@                                 9   7  0110            GEN   1052
5615          X1    EQU   089                                       9      0089            GEN
5616          X2    EQU   094                                       9      0094            GEN
5617          094   DCW   000                                       9   3  0094            GEN   1053
5618          096   DC    00                                        9   2  0096            GEN   1053
5619          X3    EQU   099                                       9      0099            GEN
5620 42 15          ORG   XBEGIN                                    9           0838
5621 42 16    BEGIN SW    GM1                                       9   4  0838  , W27             1054
5622 42 17    START BCE   OUT2,0&X1,                    BLANK       9   8  0842  B 886 0|0         1054
5623 42 18          LCA   0&X1,CODE#5                               9   7  0850  L 0|0 W49         1054
5624 42 19          CW    XTPSW                                     9   4  0857  ) X57             1054
5625 42 20          SW    CODE-3                                    9   4  0861  , W46             1054
5626 42 21          MCW   CODE-3,*&8                               9   7  0865  M W46 879         1054
5627 42 22          BCE   IOTYP,@1356LPU@,0                         9   8  0872  B |12 W56 0       1055
5628 42 23          CHAIN 6                                         9                      MACRO
5629                BCE                                           9   1  0880  B               GEN   1055
5630                BCE                                           9   1  0881  B               GEN   1055
5631                BCE                                           9   1  0882  B               GEN   1055
5632                BCE                                           9   1  0883  B               GEN   1055
5633                BCE                                           9   1  0884  B               GEN   1055
5634                BCE                                           9   1  0885  B               GEN   1055
5635 42 24    OUT2  SBR   X1,1&X1                                  9   7  0886  H 089 0|1         1056
5636 42 25          MZ    X3,ALL9                                   9   7  0893  Y 099 W16         1056
5637 42 26          MZ                                            9   1  0900  Y                 1056
5638 42 27          MCW                                           9   1  0901  M                 1056
5639 42 28          MZ    X1,ALL91                                  9   7  0902  Y 089 W19         1056
5640 42 29          MZ                                            9   1  0909  Y                 1056
5641 42 30          MCW                                           9   1  0910  M                 1056
5642 42 31          C     ALL9,ALL91                                9   7  0911  C W16 W19         1057
5643 42 32          BE    SNGL                                      9   5  0918  B 943 S           1057
5644 42 33    CLR   CS    0&X3                                      9   4  0923  / 0?0             1057
5645 42 34          SBR   CLR&3                                     9   4  0927  H 926             1057
5646 42 35          C     CLR&3,ALL91                               9   7  0931  C 926 W19         1057
5647 42 36          BU    CLR                                       9   5  0938  B 923 /           1057
5648 42 37    SNGL  MCW   ALL91,X2                                  9   7  0943  M W19 094         1057
5649 42 38    BACK3 C     X2,X1                                     9   7  0950  C 094 089         1058
5650 42 39          BE    OUT3                                      9   5  0957  B 981 S           1058
5651 42 40          LCA   BLANK,0&X2                                9   7  0962  L X11 0!0         1058
5652 42 41          CW    0&X2                                      9   4  0969  ) 0!0             1058
5653 42 42          SAR   X2                                        9   4  0973  Q 094             1058
5654 42 43          B     BACK3                                     9   4  0977  B 950             1058
5655 42 44    OUT3  MN    0&X1                                      9   4  0981  D 0|0             1058
5656 42 45          SAR   X1                                        9   4  0985  Q 089             1059
5657 42 46          FENDX C,GM1,,,,,SYS1,ARITH ONE                  9                      MACRO
5658                BSS   333,C                                     9   5  0989  B 333 C     GEN   1059
5659                SBR   TCLEAR,SYS1                               9   7  0994  H 710 X58   GEN   1059
5660                LCA   @ARITH ONE@,110                           9   7  1001  L W65 110   GEN   1059
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 SEQ PG LIN  LABEL  OP    OPERANDS                          SFX CT  LOCN  INSTRUCTION TYPE  CARD
5661                B     MONTER                             9  4  1008  B 700       GEN   1059
5662 42 47  IOTYP   SW    CODE-2                             9  4  1012  , W47             1059
5663 42 48          MCW   @<@,2&X1                 12-6-8   9  7  1016  M W66 0|2         1059
5664 42 49          SBR   KLOBR&6,2&X1                       9  7  1023  H T55 0|2         1060
5665 42 50          C     0&X1                               9  4  1030  C 0|0             1060
5666 42 51          SAR   X1                                 9  4  1034  Q 089             1060
5667 42 52          LCA   CODE,0&X3                          9  7  1038  L W49 0?0         1060
5668 42 53          LCA   GM1                                9  4  1045  L W27             1060
5669 42 54          SBR   X3                                 9  4  1049  H 099             1060
5670 42 55          CW    2&X3                               9  4  1053  ) 0?2             1060
5671 42 56          BWZ   NOFMT,CODE-1,B                     9  8  1057  V U39 W48 B       1061
5672 42 57          FBCEQ DOLST,CODE-3,1,3                   9                 MACRO
5673                BCE   DOLST, CODE-3, 1                   9  8  1065  B /16 W46 1 GEN   1061
5674                BCE   DOLST, CODE-3, 3                   9  8  1073  B /16 W46 3 GEN   1061
5675 42 58          FBCEQ DOSPC,CODE-3,L,P,U                 9                 MACRO
5676                BCE   DOSPC, CODE-3, L                   9  8  1081  B V32 W46 L GEN   1061
5677                BCE   DOSPC, CODE-3, P                   9  8  1089  B V32 W46 P GEN   1062
5678                BCE   DOSPC, CODE-3, U                   9  8  1097  B V32 W46 U GEN   1062
5679 42 59          MCW   0&X1,SPEC                          9  7  1105  M 0|0 W44         1062
5680 42 60          SAR   X1                                 9  4  1112  Q 089             1062
5681 42 61  DOLST   MCW   0&X1,TUNO                          9  7  1116  M 0|0 W38         1062
5682 42 62          SAR   X1                                 9  4  1123  Q 089             1062
5683 42 63          MCW   0&X1,TUNO-3                       9  7  1127  M 0|0 W35         1063
5684 42 64          BCE   ACTL,TUNO-4,}             GM       9  8  1134  B T91 W34 } GMARK 1063
5685 42 65          BCE   ACTL,TUNO-1,}             GM       9  8  1142  B T91 W37 } GMARK 1063
5686 42 66          MN    @1@,TAPE                           9  7  1150  D W67 X10         1063
5687 42 67          BCE   OTHR2,TUNO-3,}            GM       9  8  1157  B U28 W35 } GMARK 1063
5688 42 68  XXX     MCW   0&X1,LIST                          9  7  1165  M 0|0 W41         1064
5689 42 69          SAR   X1                                 9  4  1172  Q 089             1064
5690 42 70  RETRN   LCA   LIST,0&X3                          9  7  1176  L W41 0?0         1064
5691 42 71          SBR   X3                                 9  4  1183  H 099             1064
5692 42 72          LCA   SPEC,0&X3                          9  7  1187  L W44 0?0         1064
5693 42 73          SBR   X3                                 9  4  1194  H 099             1064
5694 42 74          LCA   TAPE,0&X3                          9  7  1198  L X10 0?0         1065
5695 42 75          LCA   BRANCH                             9  4  1205  L W31             1065
5696 42 76          SBR   X3                                 9  4  1209  H 099             1065
5697 42 77          FBCEQ TLGM,CODE-3,L,P,U,1                9                 MACRO
5698                BCE   TLGM, CODE-3, L                   9  8  1213  B S82 W46 L GEN   1065
5699                BCE   TLGM, CODE-3, P                   9  8  1221  B S82 W46 P GEN   1065
5700                BCE   TLGM, CODE-3, U                   9  8  1229  B S82 W46 U GEN   1065
5701                BCE   TLGM, CODE-3, 1                   9  8  1237  B S82 W46 1 GEN   1066
5702 42 78          MZ    @S@,5&X3                           9  7  1245  Y W68 0?5         1066
5703 42 79          BCE   TLGM,CODE-3,3                      9  8  1252  B S82 W46 3       1066
5704 42 80          MZ    @K@,5&X3                           9  7  1260  Y W69 0?5         1066
5705 42 81          BCE   TLGM,CODE-3,5                      9  8  1267  B S82 W46 5       1066
5706 42 82          MZ    @B@,5&X3                           9  7  1275  Y W70 0?5         1067
5707 42 83  TLGM    BW    LGM,XTPSW                          9  8  1282  V T23 X57 1       1067
5708 42 84          BWZ   LGM,TUNO-1,2                       9  8  1290  V T23 W37 2       1067
5709 42 85          MCW   TUNO,MASK1-3                      9  7  1298  M W38 W23         1067
5710 42 86          MZ    BLANK,MASK1-4                      9  7  1305  Y X11 W22         1067
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 SEQ PG LIN  LABEL  OP    OPERANDS                                        SFX CT  LOCN  INSTRUCTION TYPE  CARD
5711 42 87           LCA   MASK1,0&X3                                       9  7  1312  L W26 0?0       1068
5712 42 88           SBR   X3                                               9  4  1319  H 099          1068
5713 42 894  LGM     MCW   BLNK#3,TUNO-3                              V3M4  9  7  1323  M W73 W35      1068
5714 42 904          LCA   GM1,0&X3                                   V3M4  9  7  1330  L W27 0?0      1068
5715 42 91           SBR   X3                                               9  4  1337  H 099          1068
5716 42 92           C     0&X1                                             9  4  1341  C 0|0          1068
5717 42 93           SAR   X1                                               9  4  1345  Q 089          1068
5718 42 94   KLOBR   BCE   START,0,<                    12-6-8              9  8  1349  B 842 000 <     1069
5719 42 95           FQUIT                                                  9                MACRO
5720                 CS    332                                              9  4  1357  / 332       GEN   1069
5721                 CS                                                     9  1  1361  /           GEN   1069
5722                 CC    1                                                9  2  1362  F 1         GEN   1069
5723                 MCW   @MESSAGE 2 - OBJECT PROGRAM TOO LARGE@,270       9  7  1364  M X09 270   GEN   1069
5724                 W                                                      9  1  1371  2           GEN   1069
5725                 CC    1                                                9  2  1372  F 1         GEN   1069
5726                 BCE   *&6,MONTOR,1                                     9  8  1374  B T87 769 1 GEN   1070
5727                 RWD   1                                                9  5  1382  U %U1 R     GEN   1070
5728                 H     *-3                                              9  4  1387  . T87       GEN   1070
5729 42 96   ACTL    MN    TUNO,TAPE#1                                      9  7  1391  D W38 X10         1070
5730 42 97           SW    XTPSW                                            9  4  1398  , X57             1070
5731 42 98           BCE   OTHER,TUNO-1,}                GM                 9  8  1402  B U21 W37 } GMARK 1070
5732 42 99           SBR   X1,2&X1                                          9  7  1410  H 089 0|2         1071
5733 43 00           B     XXX                                              9  4  1417  B /65             1071
5734 43 01   OTHER   SBR   X1,1&X1                                          9  7  1421  H 089 0|1         1071
5735 43 02   OTHR2   MCW   PERIOD,LIST                                      9  7  1428  M 154 W41         1071
5736 43 03           B     RETRN                                            9  4  1435  B /76             1071
5737 43 04   NOFMT   MZ    BLANK#1,3&X3                                     9  7  1439  Y X11 0?3         1071
5738 43 05           MCW   4&X3,ADR#3                                       9  7  1446  M 0?4 X14         1072
5739 43 06           BWZ   *&5,ADR,2                                        9  8  1453  V U65 X14 2       1072
5740 43 07           B     GTADR                                            9  4  1461  B U73             1072
5741 43 08           BWZ   ERR,ADR-2,2                                      9  8  1465  V U87 X12 2       1072
5742 43 09   GTADR   MCW   ADR,*&4                                         9  7  1473  M X14 U83         1072
5743 43 10           MCW   0,ADR                                            9  7  1480  M 000 X14         1073
5744 43 11   ERR     FTMSG 22,UNDEFINED FORMAT,ADR,18                       9                MACRO
5745         ERR     CS    332                                              9  4  1487  / 332       GEN   1073
5746                 CS                                                     9  1  1491  /           GEN   1073
5747                 SW    FAILSW                                           9  4  1492  , 184       GEN   1073
5748                 MN    ADR,224&18                                       9  7  1496  D X14 242   GEN   1073
5749                 MN                                                     9  1  1503  D           GEN   1073
5750                 MN                                                     9  1  1504  D           GEN   1073
5751                 MCW   @ERROR 22 - UNDEFINED FORMAT, STATEMENT @        9  4  1505  M X53       GEN   1074
5752                 W                                                      9  1  1509  2           GEN   1074
5753                 BCV   *&5                                              9  5  1510  B V19 @     GEN   1074
5754                 B     *&3                                              9  4  1515  B V21       GEN   1074
5755                 CC    1                                                9  2  1519  F 1         GEN   1074
5756 43 12           MZ    *-4,CODE-1                                       9  7  1521  Y V23 W48         1074
5757 43 13           B     DOLST                                            9  4  1528  B /16             1074
5758 43 14   DOSPC   MCW   0&X1,SPEC                                       9  7  1532  M 0|0 W44         1075
5759 43 15           SAR   X1                                               9  4  1539  Q 089             1075
5760 43 16           MCW   PERIOD,LIST                                      9  7  1543  M 154 W41         1075
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 SEQ PG LIN  LABEL   OP    OPERANDS                                        SFX CT  LOCN  INSTRUCTION TYPE  CARD
5761 43 17           BCE   HERE,0&X1,}                  GM                  9  8  1550  B V69 0|0 } GMARK 1075
5762 43 18           MCW   0&X1,LIST                                        9  7  1558  M 0|0 W41         1075
5763 43 19           SAR   X1                                              9  4  1565  Q 089             1075
5764 43 20   HERE    MCW   @&@,TAPE                                        9  7  1569  M X54 X10         1076
5765 43 21           BCE   SETP,CODE-3,L                                   9  8  1576  B W06 W46 L       1076
5766 43 22           MCW   @-@,TAPE                                        9  7  1584  M X55 X10         1076
5767 43 23           BCE   SETP,CODE-3,U                                   9  8  1591  B W06 W46 U       1076
5768 43 24           MCW   @*@,TAPE                                        9  7  1599  M X56 X10         1076
5769 43 25   SETP    SW    XTPSW#1                                         9  4  1606  , X57             1077
5770 43 26           B     RETRN                                           9  4  1610  B /76             1077
5771 43 27   ALL9    DCW   999                                             9  3  1616                    1077
5772 43 28   ALL91   DCW   999                                             9  3  1619                    1077
5773 43 29   MASK1   DCW   @DXXX0?5@          PLUS ZERO                  9  7  1626                    1077
5774 43 30   GM1     DC    @}@            GROUP MARK                      9  1  1627            GMARK   1077
5775 43 31   BRANCH  DCW   @BW97@          CHANGE ON REASSM OF OBJ FORMAT  9  4  1631                    1077
5776 43 32           DCW   #4                                              9  4  1635                    1077
5777 43 33   TUNO    DCW   #3                                              9  3  1638                    1078
5778 43 34   LIST    DCW   000                                             9  3  1641                    1078
5779 43 35   SPEC    DCW   000                                             9  3  1644                    1078
5780 43 36           LTORG *                                               9        1645
             CODE 9  DCW   #05                                             9  5  1649            AREA    1078
                     DCW   @1356LPU@                                       9  7  1656            LIT     1078
                     DCW   @ARITH ONE@                                     9  9  1665            LIT     1078
                     DCW   @<@                                             9  1  1666            LIT     1078
                     DCW   @1@                                             9  1  1667            LIT     1079
                     DCW   @S@                                             9  1  1668            LIT     1079
                     DCW   @K@                                             9  1  1669            LIT     1079
                     DCW   @B@                                             9  1  1670            LIT     1079
             BLNK 9  DCW   #03                                             9  3  1673            AREA    1079
                     DCW   @MESSAGE 2 - OBJECT PROGRAM TOO LARGE@          9 36  1709            LIT     1080
             TAPE 9  DCW   #01                                             9  1  1710            AREA    1080
             BLANK9  DCW   #01                                             9  1  1711            AREA    1080
             ADR  9  DCW   #03                                             9  3  1714            AREA    1081
                     DCW   @ERROR 22 - UNDEFINED FORMAT, STATEMENT @       9 39  1753            LIT     1082
                     DCW   @&@                                             9  1  1754            LIT     1083
                     DCW   @-@                                             9  1  1755            LIT     1083
                     DCW   @*@                                             9  1  1756            LIT     1083
             XTPSW9  DCW   #01                                             9  1  1757            AREA    1083
5781 43 37   SYS1    DCW   @}@                        SYSTEM GROUP MARK    9  1  1758            GMARK   1083
5782 43 38           XFR   BEGIN                                           9        B 838             1084
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 SEQ PG LIN  LABEL  OP    OPERANDS                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD
5783 43 39          JOB   ARITH PHASE ONE                            9
5784 43 40          FBEGN ARITH 1, X1,,X2,R,X3,,<       12-6-8 SUFFIX  9                      MACRO
5785                SFX   <                                          <                      GEN
5786          110   DCW   @ARITH 1@                                  <   7  0110            GEN   1087
5787          X1    EQU   089                                        <      0089            GEN
5788          X2    EQU   094                                        <      0094            GEN
5789          094   DCW   000                                        <   3  0094            GEN   1088
5790          096   DC    00                                         <   2  0096            GEN   1088
5791          X3    EQU   099                                        <      0099            GEN
5792 43 41          ORG   XBEGIN                                     <             0838
5793 43 42    *
5794 43 43    * ARITH PHASE ONE ERROR CHECKING ALGORITHM
5795 43 44    *
5796 43 45    *                    PREVIOUS CHARACTER
5797 43 46    *
5798 43 47    *               OPND  &*/.    -  GM   F%   #  %   )   NEG
5799 43 48    *
5800 43 49    *         &      OK    DD    DD  LS  KL   KL  KL  OK   DD
5801 43 50    *      C  -      OK    DD    DD  LS  NG   NG  NG  OK   DD
5802 43 51    *    C H  */     OK    DD    DD  LS  SY   SY  SY  OK   DD
5803 43 52    *    U A  #      OK    A2    A2  LS  A2   A2  A2  A2   A2
5804 43 53    *    R R  %      SY    OK    OK  LS  OK   OK  OK  SY   OK
5805 43 54    *    R A  )      OK    SY    SY  LS  A2   SY  A2  OK   SY
5806 43 55    *    E C  GM     OK    SY    SY  LS  A2   SY  SY  OK  SY
5807 43 56    *    N T  .      OK    DD    DD  LS  SY   SY  SY  OK  DD
5808 43 57    *    T E  NEG    --    --    --  LS  OK   OK  OK  --  DD
5809 43 58    *      R  F%     SY    OK    OK  LS  OK   OK  OK  SY  OK
5810 43 59    *         OPRND  --    OK    OK  LS  OK   OK  OK  SY  OK
5811 43 60    *
5812 43 61    *  OK-  VALID
5813 43 62    *  DD-  DOUBLE OPERATORS
5814 43 63    *  SY-  SYNTAX ERROR
5815 43 64    *  A2-  ERROR NOTED IN ARITH PHASE TWO
5816 43 65    *  LS-  LEFT SIDE INVALID
5817 43 66    *  NG-  GENERATE NEGATE FUNCTION
5818 43 67    *  ---  SYNTACTICALLY INADMISSIBLE
5819 43 68    *  KL-  DELETE UNARY PLUS OPERATOR
5820 43 69    *
5821 43 70    *
5822 43 71    START SBR   NOMO,2&X3                                   <   7  0838  H M53 0?2          1089
5823 43 72          SW    GM1                                         <   4  0845  , J60              1089
5824 43 73          MCW   0&X1,CODE                                   <   7  0849  M 0|0 M47          1089
5825 43 744         FBCEQ NUSTM,CODE-3,R,E                    V3M4  <                              MACRO
5826                BCE   NUSTM, CODE-3, R                          <   8  0856  B 883 M44 R GEN   1089
5827                BCE   NUSTM, CODE-3, E                          <   8  0864  B 883 M44 E GEN   1089
5828 43 75          MCW   @.@,X2                                    <   7  0872  M M43 094          1090
5829 43 76          B     FENDX                                     <   4  0879  B 920              1090
5830 43 77    NUSTM MCW   0&X1,CODE#4                               <   7  0883  M 0|0 M47          1090
5831 43 78          SBR   KILL#3,0&X3                               <   7  0890  H M50 0?0          1090
5832 43 79          FBCEQ DOCOD,CODE-3,R,E                          <                              MACRO
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 SEQ PG LIN  LABEL  OP    OPERANDS                        SFX CT  LOCN  INSTRUCTION TYPE  CARD
5833                BCE   DOCOD, CODE-3, R                <   8  0897  B 943 M44 R GEN   1090
5834                BCE   DOCOD, CODE-3, E                <   8  0905  B 943 M44 E GEN   1091
5835 43 80          MCW   NOMO#3,X2                       <   7  0913  M M53 094       1091
5836 43 81  FENDX   FENDX C,,,,,,SYSGM,ARITH TWO          <                        MACRO
5837        FENDX   BSS   333,C                           <   5  0920  B 333 C     GEN   1091
5838                SBR   TCLEAR,SYSGM                    <   7  0925  H 710 P68   GEN   1091
5839                LCA   @ARITH TWO@,110                 <   7  0932  L M62 110   GEN   1091
5840                B     MONTER                          <   4  0939  B 700       GEN   1091
5841 43 82  DOCOD  MVDWN X1,X3                           <                        MACRO
5842        DOCOD   LCA   0&X1,0&X3                       <   7  0943  L 0|0 0?0   GEN   1092
5843                SAR   X1                              <   4  0950  Q 089       GEN   1092
5844                C     0&X3                            <   4  0954  C 0?0       GEN   1092
5845                SAR   X3                              <   4  0958  Q 099       GEN   1092
5846 43 83          BWZ   *&5, CODE,2                     <   8  0962  V 974 M47 2       1092
5847 43 84          B     INDIR                           <   4  0970  B 982           1092
5848 43 85          BWZ   MAIN,CODE-2,2                   <   8  0974  V 998 M45 2       1092
5849 43 86  INDIR   MCW   CODE,X2                        <   7  0982  M M47 094       1093
5850 43 87          MN    0&X2,CODE                       <   7  0989  D 0!0 M47       1093
5851 43 88          MN                                    <   1  0996  D               1093
5852 43 89          MN                                    <   1  0997  D               1093
5853 43 90  MAIN    C     0&X1                            <   4  0998  C 0|0           1093
5854 43 91          SAR   NEXT#3                         <   4  1002  Q M65           1093
5855 43 92          BCE   ARTYP,CODE-3,R                 <   8  1006  B |85 M44 R     1093
5856 43 93          C     0&X1,BLK10#10                   <   7  1014  C 0|0 M75       1094
5857 43 94          SAR   X1                              <   4  1021  Q 089           1094
5858 43 95          SW    1&X1                            <   4  1025  , 0|1           1094
5859 43 96          LCA   10&X1,0&X3                      <   7  1029  L 0/0 0?0       1094
5860 43 97          SAR   X1                              <   4  1036  Q 089           1094
5861 43 98          C     0&X3                            <   4  1040  C 0?0           1094
5862 43 99          SAR   X3                              <   4  1044  Q 099           1094
5863 44 00          CW    1&X1,1&X3                       <   7  1048  ) 0|1 0?1       1095
5864 44 01          LCA   GM1                             <   4  1055  L J60           1095
5865 44 02          LCA   @#<99@              12-6-8      <   4  1059  L M79           1095
5866 44 03          SBR   X3                              <   4  1063  H 099           1095
5867 44 04          CW    1&X3,5&X3                       <   7  1067  ) 0?1 0?5       1095
5868 44 05          SBR   LAST,0&X1                      <   7  1074  H M82 0|0       1095
5869 44 06          B     LOOP3                           <   4  1081  B /43           1095
5870 44 07  ARTYP   SBR   X2,1&X1                        <   7  1085  H 094 0|1       1096
5871 44 08          BCE   CDINT,0&X1,#                   <   8  1092  B !01 0|0 #     1096
5872 44 09          SBR   LAST#3,0&X1                    <   7  1100  H M82 0|0       1096
5873 44 10  EQSCN   BCE   GOTEQ,0&X1,#                   <   8  1107  B /31 0|0 #     1096
5874 44 11          BCE   CDINT,0&X1,}        G-M         <   8  1115  B !01 0|0 } GMARK 1096
5875 44 12          SBR   X1                              <   4  1123  H 089           1097
5876 44 13          B     EQSCN                           <   4  1127  B /07           1097
5877 44 14  GOTEQ   B     MESUR                           <   4  1131  B !53           1097
5878 44 15  LOOP1   MN    0&X1                            <   4  1135  D 0|0           1097
5879 44 16          SAR   X1                              <   4  1139  Q 089           1097
5880 44 17  LOOP3   SBR   X2,1&X1                        <   7  1143  H 094 0|1       1097
5881 44 18          SBR   FUNBX#3                        <   4  1150  H M85           1097
5882 44 19  LOOP2   MN    0&X1,TST1&7                     <   7  1154  D 0|0 /79       1098
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 SEQ PG LIN  LABEL  OP    OPERANDS                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD
5883 44 20          MZ    0&X1,TST1&7                                <  7  1161  Y 0|0 /79        1098
5884 44 21          SAR   X1                                        <  4  1168  Q 089            1098
5885 44 22  TST1    BCE   GOTOP,@&-@*#%)}@,0          G-M           <  8  1172  B /91 M93 0      1098
5886 44 23          CHAIN 7                                         <                MACRO
5887                BCE                                           <  1  1180  B          GEN   1098
5888                BCE                                           <  1  1181  B          GEN   1098
5889                BCE                                           <  1  1182  B          GEN   1098
5890                BCE                                           <  1  1183  B          GEN   1099
5891                BCE                                           <  1  1184  B          GEN   1099
5892                BCE                                           <  1  1185  B          GEN   1099
5893                BCE                                           <  1  1186  B          GEN   1099
5894 44 24          B     LOOP2                                     <  4  1187  B /54           1099
5895 44 25  GOTOP   SBR   X1,1&X1                                  <  7  1191  H 089 0|1        1099
5896 44 26          BCE   CKNG,0&X1,-                             <  8  1198  B V98 0|0 -      1099
5897 44 27          BCE   CKFUN,0&X1,%                            <  8  1206  B W41 0|0 %      1100
5898 44 28          BCE   CKXP,0&X1,*                             <  8  1214  B U31 0|0 *      1100
5899 44 29          BCE   PLUS,0&X1,&                             <  8  1222  B V44 0|0 &      1100
5900 44 30          BCE   DIV,0&X1,@                              <  8  1230  B U46 0|0 @      1100
5901 44 31          BCE   LOOP1,0&X1,#                           <  8  1238  B /35 0|0 #      1101
5902 44 32          BCE   CLOSE,0&X1,)                           <  8  1246  B T39 0|0 )      1101
5903 44 33          MN    1&X1,CKGM&7       ERGO GROUP MARK       <  7  1254  D 0|1 S75        1101
5904 44 34          MZ    1&X1,CKGM&7                             <  7  1261  Y 0|1 S75        1101
5905 44 35  CKGM    BCE   SYNER,@&-*@.#,@,0                      <  8  1268  B J22 N00 0      1101
5906 44 36          CHAIN 6                                         <                MACRO
5907                BCE                                           <  1  1276  B          GEN   1101
5908                BCE                                           <  1  1277  B          GEN   1102
5909                BCE                                           <  1  1278  B          GEN   1102
5910                BCE                                           <  1  1279  B          GEN   1102
5911                BCE                                           <  1  1280  B          GEN   1102
5912                BCE                                           <  1  1281  B          GEN   1102
5913 44 37          BCE   EOSTM,1&X1,                            <  8  1282  B T10 0|1        1102
5914 44 38          BCE   EOSTM,1&X1,%                          <  8  1290  B T10 0|1 %      1102
5915 44 39          BCE   EOSTM,1&X1,)                          <  8  1298  B T10 0|1 )      1103
5916 44 40          B     MESUR                                   <  4  1306  B !53            1103
5917 44 41  EOSTM   MCW   LAST,X2                                <  7  1310  M M82 094        1103
5918 44 42          LCA   0&X2,0&X3                             <  7  1317  L 0!0 0?0        1103
5919 44 43          SBR   X3                                     <  4  1324  H 099            1103
5920 44 44          MCW   NEXT,X1                               <  7  1328  M M65 089        1103
5921 44 45          B     NUSTM                                   <  4  1335  B 883            1104
5922 44 46  CLOSE   MLC   0&X1,BOX#2                            <  7  1339  M 0|0 N02        1104
5923 44 47          MLC   BOX-1,*&8                             <  7  1346  M N01 T60        1104
5924 44 48          BCE   CLZOK,@&*@-})@,0          G-M,)       <  8  1353  B T78 N08 0      1104
5925 44 49          CHAIN 5                                         <                MACRO
5926                BCE                                           <  1  1361  B          GEN   1104
5927                BCE                                           <  1  1362  B          GEN   1104
5928                BCE                                           <  1  1363  B          GEN   1104
5929                BCE                                           <  1  1364  B          GEN   1105
5930                BCE                                           <  1  1365  B          GEN   1105
5931 44 50          BCE   CLZOK,BOX-1,#                          <  8  1366  B T78 N01 #      1105
5932 44 51          B     SYNER                                   <  4  1374  B J22            1105
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 SEQ PG LIN  LABEL  OP    OPERANDS                  SFX CT  LOCN  INSTRUCTION TYPE  CARD
5933 44 52   CLZOK  MN    1&X1,CLSCK&7               <   7  1378  D 0|1 T99       1105
5934 44 53          MZ    1&X1,CLSCK&7               <   7  1385  Y 0|1 T99       1105
5935 44 54   CLSCK  BCE   SYNER,@&-*.@ %,@,0        <   8  1392  B J22 N16 0     1105
5936 44 55          CHAIN 7                          <                    MACRO
5937                BCE                            <   1  1400  B         GEN   1106
5938                BCE                            <   1  1401  B         GEN   1106
5939                BCE                            <   1  1402  B         GEN   1106
5940                BCE                            <   1  1403  B         GEN   1106
5941                BCE                            <   1  1404  B         GEN   1106
5942                BCE                            <   1  1405  B         GEN   1106
5943                BCE                            <   1  1406  B         GEN   1106
5944 44 56          BCE   LOOP1,1&X1,#             <   8  1407  B /35 0|1 #     1107
5945 44 57          BCE   LOOP1,1&X1,)             <   8  1415  B /35 0|1 )     1107
5946 44 58          B     MESUR                    <   4  1423  B !53           1107
5947 44 59          B     LOOP1                    <   4  1427  B /35           1107
5948 44 60   CKXP   MCW   0&X1,BOX2#2              <   7  1431  M 0|0 N18       1107
5949 44 61          BCE   ISXP,BOX2-1,*            <   8  1438  B V13 N17 *     1107
5950 44 62   DIV    FBCEQ SYNER,1&X1,#,%           <                    MACRO
5951        DIV    BCE   SYNER, 1&X1, #           <   8  1446  B J22 0|1 # GEN   1108
5952                BCE   SYNER, 1&X1, %           <   8  1454  B J22 0|1 % GEN   1108
5953 44 63          BCE   SYNER,1&X1,              <   8  1462  B J22 0|1       1108
5954 44 64   DIV2   MN    1&X1,DIVCK&7             <   7  1470  D 0|1 U91       1108
5955 44 65          MZ    1&X1,DIVCK&7             <   7  1477  Y 0|1 U91       1108
5956 44 66   DIVCK  BCE   DBLOP,@&-@*.,@,0        <   8  1484  B J61 N24 0     1109
5957 44 67          CHAIN 5                          <                    MACRO
5958                BCE                            <   1  1492  B         GEN   1109
5959                BCE                            <   1  1493  B         GEN   1109
5960                BCE                            <   1  1494  B         GEN   1109
5961                BCE                            <   1  1495  B         GEN   1109
5962                BCE                            <   1  1496  B         GEN   1109
5963 44 68          BCE   LOOP1,1&X1,)             <   8  1497  B /35 0|1 )     1109
5964 44 69          B     MESUR                    <   4  1505  B !53           1110
5965 44 70          B     LOOP1                    <   4  1509  B /35           1110
5966 44 71   ISXP   MN    0&X1                     <   4  1513  D 0|0           1110
5967 44 72          MN                             <   1  1517  D               1110
5968 44 73          SAR   X1                       <   4  1518  Q 089           1110
5969 44 74          MCW   @.@,2&X1                 <   7  1522  M M43 0|2       1110
5970 44 75          LCA   0&X1                     <   4  1529  L 0|0           1110
5971 44 76          SBR   X1,2&X1                  <   7  1533  H 089 0|2       1111
5972 44 77          B     DIV                      <   4  1540  B U46           1111
5973 44 78   PLUS   FBCEQ SQUOZ,1&X1,#,%           <                    MACRO
5974        PLUS   BCE   SQUOZ, 1&X1, #           <   8  1544  B V72 0|1 # GEN   1111
5975                BCE   SQUOZ, 1&X1, %           <   8  1552  B V72 0|1 % GEN   1111
5976 44 79          BCE   SQUOZ,1&X1,              <   8  1560  B V72 0|1       1111
5977 44 80          B     DIV2                     <   4  1568  B U70           1111
5978 44 81   SQUOZ  MN    0&X1                     <   4  1572  D 0|0           1112
5979 44 82          SAR   X1                       <   4  1576  Q 089           1112
5980 44 83          LCA   0&X1,1&X1                <   7  1580  L 0|0 0|1       1112
5981 44 84          SBR   X1,1&X1                  <   7  1587  H 089 0|1       1112
5982 44 85          B     LOOP3                    <   4  1594  B /43           1112
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 SEQ PG LIN  LABEL  OP     OPERANDS                                SFX CT  LOCN  INSTRUCTION TYPE  CARD
5983 44 86   CKNG   FBCEQ  NEGAT,1&X1,#,%                          <                       MACRO
5984         CKNG   BCE    NEGAT, 1&X1, #                          <   8  1598  B W26 0|1 # GEN   1112
5985                BCE    NEGAT, 1&X1, %                          <   8  1606  B W26 0|1 % GEN   1113
5986 44 87          BCE    NEGAT,1&X1,                             <   8  1614  B W26 0|1       1113
5987 44 88          B      DIV2                                    <   4  1622  B U70           1113
5988 44 89   NEGAT  MCW    @,@,0&X1                                <   7  1626  M N25 0|0       1113
5989 44 90          CW     XNEGTF                                  <   4  1633  ) 123           1113
5990 44 91          B      LOOP1                                   <   4  1637  B /35           1113
5991 44 92   CKFUN  BCE    ISFUN,1&X1,F                            <   8  1641  B W83 0|1 F     1114
5992 44 93          MN     1&X1,OPNCK&7                            <   7  1649  D 0|1 W70       1114
5993 44 94          MZ     1&X1,OPNCK&7                            <   7  1656  Y 0|1 W70       1114
5994 44 95   OPNCK  BCE    LOOP1,@&-*@ #%,.@,0                     <   8  1663  B /35 N34 0     1114
5995 44 96          CHAIN  8                                       <                       MACRO
5996                BCE                                           <   1  1671  B               GEN   1114
5997                BCE                                           <   1  1672  B               GEN   1114
5998                BCE                                           <   1  1673  B               GEN   1114
5999                BCE                                           <   1  1674  B               GEN   1115
6000                BCE                                           <   1  1675  B               GEN   1115
6001                BCE                                           <   1  1676  B               GEN   1115
6002                BCE                                           <   1  1677  B               GEN   1115
6003                BCE                                           <   1  1678  B               GEN   1115
6004 44 97          B      SYNER                                   <   4  1679  B J22           1115
6005 44 98   ISFUN  MCW    X2,HEX2#3                               <   7  1683  M 094 N37       1115
6006 44 99          MCW    FUNBX,X2                                <   7  1690  M M85 094       1116
6007 45 00          MN     0&X2                                    <   4  1697  D 0!0           1116
6008 45 01          SAR    X2                                      <   4  1701  Q 094           1116
6009 45 02          SW     0&X1                                    <   4  1705  , 0|0           1116
6010 45 03          SBR    FUNBX,2&X1                              <   7  1709  H M85 0|2       1116
6011 45 04          C      FUNBX,X2                                <   7  1716  C M85 094       1116
6012 45 05          BE     SYNER                                   <   5  1723  B J22 S         1116
6013 45 06          SBR    FUNBX,3&X1                              <   7  1728  H M85 0|3       1117
6014 45 07          C      FUNBX,X2                                <   7  1735  C M85 094       1117
6015 45 08          BE     SYNER                                   <   5  1742  B J22 S         1117
6016 45 09          MCW    X3,HEX3#3                               <   7  1747  M 099 N40       1117
6017 45 10          MCW    X1,HEX1#3                               <   7  1754  M 089 N43       1117
6018 45 11          SBR    X1,XSINFU                               <   7  1761  H 089 118       1118
6019 45 12          SBR    X3,FTBL1-1                              <   7  1768  H 099 M41       1118
6020 45 13   FSCAN  BCE    NOFUN,0&X3,*                            <   8  1775  B Y18 0?0 *     1118
6021 45 14          SBR    X3                                      <   4  1783  H 099           1118
6022 45 15          C      0&X3,0&X2                               <   7  1787  C 0?0 0!0       1118
6023 45 16          BE     GOTFN                                   <   5  1794  B Y83 S         1118
6024 45 17          C      0&X3                                    <   4  1799  C 0?0           1119
6025 45 18          SAR    X3                                      <   4  1803  Q 099           1119
6026 45 19          SBR    X1,1&X1                                 <   7  1807  H 089 0|1       1119
6027 45 20          B      FSCAN                                   <   4  1814  B X75           1119
6028 45 21   NOFUN  FTMSG  29,UNDEFINED FUNCTION NAME,CODE,25      <                       MACRO
6029         NOFUN  CS     332                                     <   4  1818  / 332          GEN   1119
6030                CS                                            <   1  1822  /              GEN   1119
6031                SW     FAILSW                                  <   4  1823  , 184          GEN   1119
6032                MN     CODE,224&25                             <   7  1827  D M47 249       GEN   1120
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 SEQ PG LIN  LABEL  OP     OPERANDS                                          SFX CT  LOCN  INSTRUCTION TYPE  CARD
6033                MN                                                     <   1  1834  D           GEN   1120
6034                MN                                                     <   1  1835  D           GEN   1120
6035                MCW    @ERROR 29 - UNDEFINED FUNCTION NAME, STATEMENT @ <   4  1836  M N89       GEN   1120
6036                W                                                      <   1  1840  2           GEN   1120
6037                BCV    *&5                                             <   5  1841  B Y50 @     GEN   1120
6038                B      *&3                                             <   4  1846  B Y52       GEN   1120
6039                CC     1                                               <   2  1850  F 1         GEN   1121
6040 45 22          B      ZONCH                                           <   4  1852  B !35              1121
6041 45 23  COMFN   CW     XCOMF1                                          <   4  1856  ) 117              1121
6042 45 24          B      MOV                                             <   4  1860  B Z26              1121
6043 45 25  COSIN   CW     XSINFU                                          <   4  1864  ) 118              1121
6044 45 26          B      COMFN                                           <   4  1868  B Y56              1121
6045 45 27  ABSVL   CW     XABSVA,XNEGTF                                   <   7  1872  ) 122 123          1121
6046 45 28          B      MOV                                             <   4  1879  B Z26              1122
6047 45 29  GOTFN   SW     1&X3                                            <   4  1883  , 0?1              1122
6048 45 30          BCE    COSIN,1&X3,C                                    <   8  1887  B Y64 0?1 C        1122
6049 45 31          BCE    ABSVL,1&X3,A                                    <   8  1895  B Y72 0?1 A        1122
6050 45 32          CW     0&X1                                            <   4  1903  ) 0|0              1122
6051 45 33          MCW    1&X3,*&8                                        <   7  1907  M 0?1 Z21          1122
6052 45 34          BCE    COMFN,@SGECT@,0                                 <   8  1914  B Y56 N94 0       1123
6053 45 35          CHAIN  4                                               <                      MACRO
6054                BCE                                                    <   1  1922  B           GEN   1123
6055                BCE                                                    <   1  1923  B           GEN   1123
6056                BCE                                                    <   1  1924  B           GEN   1123
6057                BCE                                                    <   1  1925  B           GEN   1123
6058 45 36  MOV     BCE    KEEPX,0&X2,X                                    <   8  1926  B Z89 0!0 X      1123
6059 45 37          MCW    1&X3,0&X2                                       <   7  1934  M 0?1 0!0         1123
6060 45 38          MCW    BLNK1#1                                         <   4  1941  M N95             1124
6061 45 39          SBR    X2                                              <   4  1945  H 094             1124
6062 45 40          MCW    HEX3,X3                                         <   7  1949  M N40 099        1124
6063 45 41          MCW    HEX1,X1                                         <   7  1956  M N43 089        1124
6064 45 42          CW     0&X1                                            <   4  1963  ) 0|0              1124
6065 45 43          SAR    X1                                              <   4  1967  Q 089             1124
6066 45 44          LCA    0&X1,0&X2                                       <   7  1971  L 0|0 0!0         1124
6067 45 45          SBR    X1,0&X2                                         <   7  1978  H 089 0!0         1125
6068 45 46          B      LOOP3                                           <   4  1985  B /43             1125
6069 45 47  KEEPX   MN     0&X2                                            <   4  1989  D 0!0             1125
6070 45 48          SAR    X2                                              <   4  1993  Q 094             1125
6071 45 49          B      MOV&8                                           <   4  1997  B Z34             1125
6072 45 50  CDINT   FTMSG  23,CODING UNINTELLIGIBLE,CODE,23                <                      MACRO
6073        CDINT   CS     332                                             <   4  2001  / 332         GEN   1125
6074                CS                                                     <   1  2005  /             GEN   1125
6075                SW     FAILSW                                          <   4  2006  , 184         GEN   1126
6076                MN     CODE,224&23                                     <   7  2010  D M47 247     GEN   1126
6077                MN                                                     <   1  2017  D             GEN   1126
6078                MN                                                     <   1  2018  D             GEN   1126
6079                MCW    @ERROR 23 - CODING UNINTELLIGIBLE, STATEMENT @  <   4  2019  M O39         GEN   1126
6080                W                                                      <   1  2023  2             GEN   1126
6081                BCV    *&5                                             <   5  2024  B !33 @       GEN   1126
6082                B      *&3                                             <   4  2029  B !35         GEN   1127
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 SEQ PG LIN  LABEL  OP    OPERANDS                                          SFX CT  LOCN  INSTRUCTION TYPE  CARD
6083                  CC    1                                                  <  2  2033  F 1         GEN   1127
6084 45 51   ZONCH  MCW   KILL,X3                                             <  7  2035  M M50 099       1127
6085 45 52           MCW   NEXT,X1                                           <  7  2042  M M65 089       1127
6086 45 53           B     NUSTM                                              <  4  2049  B 883           1127
6087 45 54   MESUR  SBR   MESXT&3                                            <  4  2053  H !82           1127
6088 45 55           BCE   SUBSC,1&X1,$                                       <  8  2057  B J99 0|1 $      1127
6089 45 56           SBR   MESBX#3,4&X1                                       <  7  2065  H O42 0|4       1128
6090 45 57   MESCM  C     MESBX,X2                                           <  7  2072  C O42 094       1128
6091 45 58   MESXT  BE    0                                                  <  5  2079  B 000 S         1128
6092 45 59           FTMSG 25,LEFT SIDE INVALID,CODE,19                      <                 MACRO
6093                  CS    332                                              <  4  2084  / 332         GEN   1128
6094                  CS                                                     <  1  2088  /             GEN   1128
6095                  SW    FAILSW                                           <  4  2089  , 184         GEN   1128
6096                  MN    CODE,224&19                                      <  7  2093  D M47 243     GEN   1128
6097                  MN                                                     <  1  2100  D             GEN   1129
6098                  MN                                                     <  1  2101  D             GEN   1129
6099                  MCW   @ERROR 25 - LEFT SIDE INVALID, STATEMENT @       <  4  2102  M O82         GEN   1129
6100                  W                                                      <  1  2106  2             GEN   1129
6101                  BCV   *&5                                              <  5  2107  B J16 @       GEN   1129
6102                  B     *&3                                              <  4  2112  B J18         GEN   1129
6103                  CC    1                                                <  2  2116  F 1           GEN   1129
6104 45 60           B     ZONCH                                            <  4  2118  B !35           1130
6105 45 61   SYNER   FTMSG 27,ARITHMETIC SYNTAX ERROR,CODE,25               <                 MACRO
6106         SYNER   CS    332                                              <  4  2122  / 332         GEN   1130
6107                 CS                                                     <  1  2126  /             GEN   1130
6108                 SW    FAILSW                                           <  4  2127  , 184         GEN   1130
6109                 MN    CODE,224&25                                      <  7  2131  D M47 249     GEN   1130
6110                 MN                                                     <  1  2138  D             GEN   1130
6111                 MN                                                     <  1  2139  D             GEN   1130
6112                 MCW   @ERROR 27 - ARITHMETIC SYNTAX ERROR, STATEMENT @ <  4  2140  M P28         GEN   1131
6113                 W                                                      <  1  2144  2             GEN   1131
6114                 BCV   *&5                                              <  5  2145  B J54 @       GEN   1131
6115                 B     *&3                                              <  4  2150  B J56         GEN   1131
6116                 CC    1                                                <  2  2154  F 1           GEN   1131
6117 45 62           B     ZONCH                                            <  4  2156  B !35           1131
6118 45 63   GM1    DC    @}@        G-M                                   <  1  2160                GMARK 1131
6119 45 64   DBLOP  FTMSG 31,DOUBLE OPERATORS,CODE,18                       <                 MACRO
6120         DBLOP  CS    332                                              <  4  2161  / 332         GEN   1131
6121                CS                                                     <  1  2165  /             GEN   1132
6122                SW    FAILSW                                           <  4  2166  , 184         GEN   1132
6123                MN    CODE,224&18                                      <  7  2170  D M47 242     GEN   1132
6124                MN                                                     <  1  2177  D             GEN   1132
6125                MN                                                     <  1  2178  D             GEN   1132
6126                MCW   @ERROR 31 - DOUBLE OPERATORS, STATEMENT @        <  4  2179  M P67         GEN   1132
6127                W                                                      <  1  2183  2             GEN   1132
6128                BCV   *&5                                              <  5  2184  B J93 @       GEN   1133
6129                B     *&3                                              <  4  2189  B J95         GEN   1133
6130                CC    1                                                <  2  2193  F 1           GEN   1133
6131 45 65          B     ZONCH                                            <  4  2195  B !35           1133
6132 45 66   SUBSC  SBR   MESBX,12&X1                                       <  7  2199  H O42 0/2         1133
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 SEQ PG LIN  LABEL  OP    OPERANDS                                      SFX CT  LOCN  INSTRUCTION TYPE  CARD

6133 45 67          BCE   MESCM,11&X1,$                                  <   8  2206  B !72 0/1 $       1133
6134 45 68          SBR   MESBX,18&X1                                    <   7  2214  H O42 0/8         1133
6135 45 69          B     MESCM                                          <   4  2221  B !72             1134
6136 45 70   *
6137 45 71   *              TABLE OF FORTRAN FUNCTIONS
6138 45 72   *
6139 45 73          DCW   @*@             SIGNALS END OF TABLE           <   1  2225                    1134
6140 45 74   *
6141 45 75          DCW   @   %FSOCC@                                    <   9  2234                    1134
6142 45 76          DCW   @  %FSBAXA@                                    <   9  2243                    1134
6143 45 77          DCW   @ %FKNILXI@                                    <   9  2252                    1134
6144 45 78   *                          USER FUNCTIONS
6145 45 79          DCW   @        H@    USER FN 12                      <   9  2261                    1135
6146 45 80          DCW   @        D@    USER FN 11                      <   9  2270                    1135
6147 45 81          DCW   @        M@    USER FN 10                      <   9  2279                    1135
6148 45 82          DCW   @        L@    USER FN  9                      <   9  2288                    1135
6149 45 83          DCW   @        K@    USER FN  8                      <   9  2297                    1136
6150 45 84          DCW   @        J@    USER FN  7                      <   9  2306                    1136
6151 45 85          DCW   @        Z@    USER FN  6                      <   9  2315                    1136
6152 45 86          DCW   @        Y@    USER FN  5                      <   9  2324                    1136
6153 45 87          DCW   @        W@    USER FN  4                      <   9  2333                    1137
6154 45 88          DCW   @        P@    USER FN  3                      <   9  2342                    1137
6155 45 89          DCW   @        U@    USER FN  2                      <   9  2351                    1137
6156 45 90          DCW   @        R@    USER FN  1                      <   9  2360                    1137
6157 45 91          DCW   @  %FTRQSQ@                                    <   9  2369                    1138
6158 45 92          DCW   @ %FTAOLFF@                                    <   9  2378                    1138
6159 45 93          DCW   @  %FXIFXX@                                    <   9  2387                    1138
6160 45 94          DCW   #9                                             <   9  2396                    1138
6161 45 95          DCW   @   %FSBAA@                                    <   9  2405                    1139
6162 45 96          DCW   @  %FNATAT@                                    <   9  2414                    1139
6163 45 97          DCW   @   %FPXEE@                                    <   9  2423                    1139
6164 45 98          DCW   @   %FGOLG@                                    <   9  2432                    1139
6165 45 99          DCW   @   %FNISS@                                    <   9  2441                    1140
6166 46 00   FTBL1  DCW   #1                                             <   1  2442                    1140
6167 46 01          LTORG *                                              <             2443
                    DCW   @.@                                            <   1  2443             LIT    1140
             CODE < DCW   #04                                            <   4  2447             AREA   1140
             KILL < DCW   #03                                            <   3  2450             AREA   1140
             NOMO < DCW   #03                                            <   3  2453             AREA   1140
                    DCW   @ARITH TWO@                                    <   9  2462             LIT    1140
             NEXT < DCW   #03                                            <   3  2465             AREA   1141
             BLK10< DCW   #10                                            <  10  2475             AREA   1141
                    DCW   @#<99@                                         <   4  2479             LIT    1141
             LAST < DCW   #03                                            <   3  2482             AREA   1141
             FUNBX< DCW   #03                                            <   3  2485             AREA   1141
                    DCW   @&-@*#%)}@                                     <   8  2493             LIT    1141
                    DCW   @&-*@.#,@                                      <   7  2500             LIT    1141
             BOX  < DCW   #02                                            <   2  2502             AREA   1142
                    DCW   @&*@-})@                                       <   6  2508             LIT    1142
                    DCW   @&-*.@ %,@                                     <   8  2516             LIT    1142
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 SEQ PG LIN  LABEL  OP    OPERANDS                                          SFX CT  LOCN  INSTRUCTION TYPE  CARD

             BOX2 < DCW   #02                                               <   2  2518              AREA  1142
                    DCW   @&-@*.,@                                          <   6  2524              LIT   1142
                    DCW   @,@                                               <   1  2525              LIT   1142
                    DCW   @&-*@ #%,.@                                       <   9  2534              LIT   1142
             HEX2 < DCW   #03                                               <   3  2537              AREA  1143
             HEX3 < DCW   #03                                               <   3  2540              AREA  1143
             HEX1 < DCW   #03                                               <   3  2543              AREA  1143
                    DCW   @ERROR 29 - UNDEFINED FUNCTION NAME, STATEMENT @  <  46  2589              LIT   1145
                    DCW   @SGECT@                                           <   5  2594              LIT   1145
             BLNK1< DCW   #01                                               <   1  2595              AREA  1145
                    DCW   @ERROR 23 - CODING UNINTELLIGIBLE, STATEMENT @    <  44  2639              LIT   1147
             MESBX< DCW   #03                                               <   3  2642              AREA  1147
                    DCW   @ERROR 25 - LEFT SIDE INVALID, STATEMENT @        <  40  2682              LIT   1149
                    DCW   @ERROR 27 - ARITHMETIC SYNTAX ERROR, STATEMENT @  <  46  2728              LIT   1151
                    DCW   @ERROR 31 - DOUBLE OPERATORS, STATEMENT @         <  39  2767              LIT   1152
6168 46 02   SYSGM  DCW   @}@        SYSTEM GROUP MARK                       <   1  2768              GMARK 1153
6169 46 03          XFR   START                                               <          B 838             1154
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 SEQ PG LIN  LABEL  OP    OPERANDS                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD

6170 46 04          JOB   ARITH PHASE TWO                            <
6171 46 05          FBEGN ARITH 2,X1,,X2,,X3,,0                      <                        MACRO
6172                SFX   0                                          0                        GEN
6173         110    DCW   @ARITH 2@                                  0   7  0110             GEN   1157
6174         X1     EQU   089                                        0      0089             GEN
6175         X2     EQU   094                                        0      0094             GEN
6176         X3     EQU   099                                        0      0099             GEN
6177 46 06          ORG   XBEGIN                                     0            0838
6178 46 07   INITL  BCE   OUT,X2,.                                   0   8  0838  B N47 094 .       1158
6179 46 08          SW    GM                                         0   4  0846  , N73             1158
6180 46 09          MCW   X2,NOMO#3                                  0   7  0850  M 094 P45         1158
6181 46 10          SBR   X3,2&X3                                    0   7  0857  H 099 0?2         1158
6182 46 11          SBR   X1,2&X1                                    0   7  0864  H 089 0|2         1158
6183 46 12          MCW   X1,X2                                      0   7  0871  M 089 094         1159
6184 46 13   CLR1   MN    X2,TAIL#2                                  0   7  0878  D 094 P47         1159
6185 46 14          MN                                               0   1  0885  D                 1159
6186 46 15          C     TAIL,@00@                                  0   7  0886  C P47 P49         1159
6187 46 16          BE    STO                                        0   5  0893  B 913 S           1159
6188 46 17          CW    0&X2                                       0   4  0898  ) 0!0             1159
6189 46 18          SBR   X2,1&X2                                    0   7  0902  H 094 0!1         1159
6190 46 19          B     CLR1                                       0   4  0909  B 878             1160
6191 46 20   STO    MN    0&X2                                       0   4  0913  D 0!0             1160
6192 46 21          SAR   LAST#3                                     0   4  0917  Q P52             1160
6193 46 22          MN    0&X3                                       0   4  0921  D 0?0             1160
6194 46 23          SAR   X2                                         0   4  0925  Q 094             1160
6195 46 24   CLR2   C     X2,LAST                                    0   7  0929  C 094 P52         1160
6196 46 25          BE    MVUP                                       0   5  0936  B 953 S           1160
6197 46 26          CS    0&X2                                       0   4  0941  / 0!0             1161
6198 46 27          SBR   X2                                         0   4  0945  H 094             1161
6199 46 28          B     CLR2                                       0   4  0949  B 929             1161
6200 46 29   MVUP   MOVUP X3,X1,NOMO,ALL,|                           0                        MACRO
6201         MVUP   MN    0&X1                                       0   4  0953  D 0|0       GEN   1161
6202                SAR   X1                                         0   4  0957  Q 089       GEN   1161
6203         )0J163 MCM   0&X3                                       0   4  0961  P 0?0       GEN   1161
6204                SAR   )0L163&6                                   0   4  0965  Q 987       GEN   1161
6205                MCM   0&X3,1&X1                                  0   7  0969  P 0?0 0|1   GEN   1162
6206                MN                                               0   1  0976  D           GEN   1162
6207                SBR   X1                                         0   4  0977  H 089       GEN   1162
6208         )0L163 SBR   X3,0                                       0   7  0981  H 099 000   GEN   1162
6209                BCE   )0J163,0&X1,|                              0   8  0988  B 961 0|0 | GEN   1162
6210                MN    0&X3                                       0   4  0996  D 0?0       GEN   1162
6211                CW                                               0   1  1000  )           GEN   1162
6212                SW    0&X1                                       0   4  1001  , 0|0       GEN   1163
6213                C     X3,NOMO                                    0   7  1005  C 099 P45   GEN   1163
6214                BU    )0J163                                     0   5  1012  B 961 /     GEN   1163
6215 46 30          MN    0&X1                                       0   4  1017  D 0|0             1163
6216 46 31          SAR   X1                                         0   4  1021  Q 089             1163
6217 46 32          MN    0&X3                                       0   4  1025  D 0?0             1163
6218 46 33          SBR   NXBTM#3                                    0   4  1029  H P55             1163
6219 46 34          BCE   START,0&X3,}        GROUP MK               0   8  1033  B |60 0?0 } GMARK 1164
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 SEQ PG LIN  LABEL  OP    OPERANDS                                    SFX CT  LOCN  INSTRUCTION TYPE  CARD
6220 46 35          SBR   X3                                          0   4  1041  H 099             1164
6221 46 36          LCA   GM                                          0   4  1045  L N73             1164
6222 46 37          SBR   NXBTM                                       0   4  1049  H P55             1164
6223 46 38          MCW   X3,NOMO                                     0   7  1053  M 099 P45         1164
6224 46 39  START   MCW   NXBTM,HEX2#3                               0   7  1060  M P55 P58         1164
6225 46 40          MCW   0&X1,X3                                     0   7  1067  M 0|0 099         1165
6226 46 41          BWZ   *&5,X3,2                                   0   8  1074  V |86 099 2       1165
6227 46 42          B     *&9                                         0   4  1082  B |94             1165
6228 46 43          BWZ   *&8,X3-2,2                                 0   8  1086  V /01 097 2       1165
6229 46 44          MCW   0&X3,X3                                     0   7  1094  M 0?0 099         1165
6230 46 45          MCW   X3,CODE#3                                   0   7  1101  M 099 P61         1166
6231 46 46          MCW   BLNKS,CNTR                                  0   7  1108  M Q14 Q28         1166
6232 46 47          MCW   @]@,40&X1        11-5-8                    0   7  1115  M P62 0U0         1166
6233 46 48          SBR   KLOBR&6,40&X1                               0   7  1122  H /85 0U0         1166
6234 46 49          B     MVDWN                                       0   4  1129  B S57             1166
6235 46 50          BCE   IF,2&X1,E                                   0   8  1133  B S21 0|2 E       1167
6236 46 51          C     2&X1,@R@                                    0   7  1141  C 0|2 P63         1167
6237 46 52          BU    DUN                                         0   5  1148  B N19 /           1167
6238 46 53  ARITH   MCW   X1,X3                                       0   7  1153  M 089 099         1167
6239 46 54          SBR   TUKIT&3,0&X1                                0   7  1160  H M96 0|0         1167
6240 46 55          C     0&X3                                        0   4  1167  C 0?0             1167
6241 46 56          SAR   NEXT#3                                      0   4  1171  Q P66             1168
6242 46 57          B     GETLF                                       0   4  1175  B S91             1168
6243 46 58  KLOBR   BCE   CNTRL,0,]        11-5-8                    0   8  1179  B T81 000 ]       1168
6244 46 59          FQUIT                                           0                    MACRO
6245                CS    332                                         0   4  1187  / 332       GEN   1168
6246                CS                                                0   1  1191  /           GEN   1168
6247                CC    1                                           0   2  1192  F 1         GEN   1168
6248                MCW   @MESSAGE 2 - OBJECT PROGRAM TOO LARGE@,270  0   7  1194  M Q02 270   GEN   1168
6249                W                                                 0   1  1201  2           GEN   1169
6250                CC    1                                           0   2  1202  F 1         GEN   1169
6251                BCE   *&6,MONTOR,1                                0   8  1204  B S17 769 1 GEN   1169
6252                RWD   1                                           0   5  1212  U %U1 R     GEN   1169
6253                H     *-3                                         0   4  1217  . S17       GEN   1169
6254 46 60  IF      MCW   X1,X3                                       0   7  1221  M 089 099         1169
6255 46 61  RUCOM   BCE   PASS,0&X3,,                                 0   8  1228  B S44 0?0 ,       1169
6256 46 62          SBR   X3                                          0   4  1236  H 099             1170
6257 46 63          B     RUCOM                                       0   4  1240  B S28             1170
6258 46 64  PASS    MN    0&X3                                        0   4  1244  D 0?0             1170
6259 46 65          SW                                                0   1  1248  ,                 1170
6260 46 66          B     MVDWN                                       0   4  1249  B S57             1170
6261 46 67          B     ARITH                                       0   4  1253  B /53             1170
6262 46 68  MVDWN   SBR   EXMVD&3                                     0   4  1257  H S90             1170
6263 46 69          MCW   NXBTM,X2                                    0   7  1261  M P55 094         1171
6264 46 70          LCA   0&X1,0&X2                                   0   7  1268  L 0|0 0!0         1171
6265 46 71          SBR   NXBTM                                       0   4  1275  H P55             1171
6266 46 72          C     0&X1                                        0   4  1279  C 0|0             1171
6267 46 73          SAR   X1                                          0   4  1283  Q 089             1171
6268 46 74  EXMVD   B     0                                           0   4  1287  B 000             1171
6269 46 75  GETLF   SBR   EXGTL&3                                     0   4  1291  H T46             1171
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SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
6270	46	76		BCE	SBSCR,0&X3,$	0	8	1295	B T47 0?0 $		1172
6271	46	77	LOOP	MCW	0&X3,PHILF	0	7	1303	M 0?0 Q15		1172
6272	46	78		SAR	X3	0	4	1310	Q 099		1172
6273	46	79		MCW	PHILF,*&8	0	7	1314	M Q15 T28		1172
6274	46	80		BCE	EXGTL,OPS,0	0	8	1321	B T43 042 0		1172
6275	46	81		CHAIN	10	0				MACRO	
6276				BCE		0	1	1329	B	GEN	1172
6277				BCE		0	1	1330	B	GEN	1172
6278				BCE		0	1	1331	B	GEN	1173
6279				BCE		0	1	1332	B	GEN	1173
6280				BCE		0	1	1333	B	GEN	1173
6281				BCE		0	1	1334	B	GEN	1173
6282				BCE		0	1	1335	B	GEN	1173
6283				BCE		0	1	1336	B	GEN	1173
6284				BCE		0	1	1337	B	GEN	1173
6285				BCE		0	1	1338	B	GEN	1174
6286	46	82		B	LOOP	0	4	1339	B T03		1174
6287	46	83	EXGTL	B	0	0	4	1343	B 000		1174
6288	46	84	SBSCR	C	0&X3,BLNKS#12	0	7	1347	C 0?0 Q14		1174
6289	46	85		SAR	X3	0	4	1354	Q 099		1174
6290	46	86		BCE	EXGTL,2&X3,$	0	8	1358	B T43 0?2 $		1174
6291	46	87		C	0&X3,BLNKS-6	0	7	1366	C 0?0 Q08		1174
6292	46	88		SAR	X3	0	4	1373	Q 099		1175
6293	46	89		B	EXGTL	0	4	1377	B T43		1175
6294	46	90	CNTRL	MCW	1&X3,PHILF#1	0	7	1381	M 0?1 Q15		1175
6295	46	91		MCW	1&X1,PHIRT#1	0	7	1388	M 0|1 Q16		1175
6296	46	92		MCW	PHIRT,CKOP&7	0	7	1395	M Q16 V46		1175
6297	46	93		MCW	BLNKS,UNITS#3	0	7	1402	M Q14 Q19		1175
6298	46	94		B	GTNUM	0	4	1409	B V16		1176
6299	46	95		MN	NUM#1,UNITS-1	0	7	1413	D Q20 Q18		1176
6300	46	96		MCW	PHILF,CKOP&7	0	7	1420	M Q15 V46		1176
6301	46	97		B	GTNUM	0	4	1427	B V16		1176
6302	46	98		MN	NUM,UNITS	0	7	1431	D Q20 Q19		1176
6303	46	99		MCW	UNITS,X2	0	7	1438	M Q19 094		1176
6304	47	00		MN	MATRX&X2,X2	0	7	1445	D OM3 094		1177
6305	47	01		MCW	BLNKS	0	4	1452	M Q14		1177
6306	47	02		BWZ	ERR5,X2,S	0	8	1456	V K61 094 S		1177
6307	47	03		A	X2	0	4	1464	A 094		1177
6308	47	04		A	X2	0	4	1468	A 094		1177
6309	47	05		B	*&1&X2	0	4	1472	B UP6		1177
6310	47	06		B	SKIP	0	4	1476	B W03		1177
6311	47	07		B	PAREN	0	4	1480	B W18		1178
6312	47	08		B	FORCE	0	4	1484	B W59		1178
6313	47	09		B	EOJ	0	4	1488	B M58		1178
6314	47	10		B	NEG	0	4	1492	B Z48		1178
6315	47	11		B	FUN	0	4	1496	B Z81		1178
6316	47	12		B	ERR1	0	4	1500	B M13		1178
6317	47	13		B	ERR2	0	4	1504	B L75		1178
6318	47	14		B	ERR3	0	4	1508	B L37		1179
6319	47	15		B	ERR4	0	4	1512	B K99		1179

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 SEQ PG LIN  LABEL  OP    OPERANDS                SFX CT  LOCN  INSTRUCTION TYPE  CARD
6320 47 16   GTNUM  SBR   CKOP&3                   0  4  1516  H V42             1179
6321 47 17          BCE   GOTUM,CKOP&7,-           0  8  1520  B V62 V46 -       1179
6322 47 18   NISH   S     NUM                      0  4  1528  S Q20             1179
6323 47 19          MCW   &OPS,CKOP&6              0  7  1532  M Q23 V45         1179
6324 47 20   CKOP   BCE   0,0,0                    0  8  1539  B 000 000 0       1179
6325 47 21          SBR   CKOP&6                   0  4  1547  H V45             1180
6326 47 22          A     @1@,NUM                  0  7  1551  A Q24 Q20         1180
6327 47 23          B     CKOP                     0  4  1558  B V39             1180
6328 47 24   GOTUM  MCW   @&@,CKOP&7               0  7  1562  M Q25 V46         1180
6329 47 25          B     NISH                     0  4  1569  B V28             1180
6330 47 26   GNTMP  SBR   EXGTP&3                  0  4  1573  H W02             1180
6331 47 27          A     @1@,CNTR#3               0  7  1577  A Q24 Q28         1180
6332 47 28          MZ    CNTR-1,TEMP              0  7  1584  Y Q27 N72         1181
6333 47 29          MN    CNTR,TEMP                0  7  1591  D Q28 N72         1181
6334 47 30          MN                             0  1  1598  D                 1181
6335 47 31   EXGTP  B     0                        0  4  1599  B 000             1181
6336 47 32   SKIP   MCW   X3,X1                    0  7  1603  M 099 089         1181
6337 47 33          B     GETLF                    0  4  1610  B S91             1181
6338 47 34          B     CNTRL                    0  4  1614  B T81             1181
6339 47 35   PAREN  SW    2&X3                     0  4  1618  , 0?2             1182
6340 47 36          LCA   0&X1,1&X1                0  7  1622  L 0|0 0|1         1182
6341 47 37          CW    3&X3                     0  4  1629  ) 0?3             1182
6342 47 38          CW                             0  1  1633  )                 1182
6343 47 39          LCA   0&X3,2&X3                0  7  1634  L 0?0 0?2         1182
6344 47 40          SBR   X1,1&X1                  0  7  1641  H 089 0|1         1182
6345 47 41          SBR   X3,1&X3                  0  7  1648  H 099 0?1         1182
6346 47 42          B     CNTRL                    0  4  1655  B T81             1183
6347 47 43   FORCE  MCW   NXBTM,X2                 0  7  1659  M P55 094         1183
6348 47 44          MZ    4&X3,ZONE#1              0  7  1666  Y 0?4 Q29         1183
6349 47 45          BCE   *&8,2&X3,$               0  8  1673  B W88 0?2 $       1183
6350 47 46          MZ    3&X3,ZONE                0  7  1681  Y 0?3 Q29         1183
6351 47 47          SW    2&X3                     0  4  1688  , 0?2             1183
6352 47 48          LCA   0&X1,0&X2                0  7  1692  L 0|0 0!0         1184
6353 47 49          SBR   X2                       0  4  1699  H 094             1184
6354 47 50          CW    1&X2                     0  4  1703  ) 0!1             1184
6355 47 51          SW    2&X1                     0  4  1707  , 0|2             1184
6356 47 52          SW                             0  1  1711  ,                 1184
6357 47 53          LCA   1&X1,0&X2                0  7  1712  L 0|1 0!0         1184
6358 47 54          SBR   X2                       0  4  1719  H 094             1184
6359 47 55          SBR   NXBTM                    0  4  1723  H P55             1185
6360 47 56          CW    1&X2                     0  4  1727  ) 0!1             1185
6361 47 57          BCE   SBVRT,2&X1,$             0  8  1731  B Y90 0|2 $       1185
6362 47 58          LCA   4&X1,0&X2                0  7  1739  L 0|4 0!0         1185
6363 47 59          SBR   NXBTM                    0  4  1746  H P55             1185
6364 47 60          MZ    3&X1,TEMP-1              0  7  1750  Y 0|3 N71         1185
6365 47 61          SAR   X1                       0  4  1757  Q 089             1185
6366 47 62   FNISH  B     GNTMP                    0  4  1761  B V73             1186
6367 47 63          LCA   TEMP,2&X1                0  7  1765  L N72 0|2         1186
6368 47 64          LCA   1&X3                     0  4  1772  L 0?1             1186
6369 47 65          CW    0&X1                     0  4  1776  ) 0|0             1186
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 SEQ PG LIN  LABEL  OP    OPERANDS                                      SFX CT  LOCN  INSTRUCTION TYPE  CARD

6370 47 66          MN                                                   0   1  1780  D                  1186
6371 47 67          SAR   X3                                             0   4  1781  Q 099              1186
6372 47 68          SBR   X1,2&X1                                        0   7  1785  H 089 0|2          1186
6373 47 69          BWZ   RUINT,TEMP-1,S                                 0   8  1792  V Y36 N71 S        1187
6374 47 70          BWZ   RUINT,TEMP-1,K                                 0   8  1800  V Y36 N71 K        1187
6375 47 71          BWZ   KLOBR,ZONE,2                                   0   8  1808  V /79 Q29 2        1187
6376 47 72          BWZ   KLOBR,ZONE,B                                   0   8  1816  V /79 Q29 B        1187
6377 47 73          BCE   KLOBR,PHIRT,.                                  0   8  1824  B /79 Q16 .        1188
6378 47 74          B     ERR46                                          0   4  1832  B Y52              1188
6379 47 75   RUINT  BWZ   KLOBR,ZONE,S                                   0   8  1836  V /79 Q29 S        1188
6380 47 76          BWZ   KLOBR,ZONE,K                                   0   8  1844  V /79 Q29 K        1188
6381 47 77   ERR46  FTMSG 46,MIXING IN ARITH,CODE,17                     0                        MACRO
6382         ERR46  CS    332                                            0   4  1852  / 332       GEN   1188
6383                CS                                                   0   1  1856  /           GEN   1188
6384                SW    FAILSW                                         0   4  1857  , 184       GEN   1188
6385                MN    CODE,224&17                                    0   7  1861  D P61 241   GEN   1189
6386                MN                                                   0   1  1868  D           GEN   1189
6387                MN                                                   0   1  1869  D           GEN   1189
6388                MCW   @ERROR 46 - MIXING IN ARITH, STATEMENT @       0   4  1870  M Q67       GEN   1189
6389                W                                                    0   1  1874  2           GEN   1189
6390                BCV   *&5                                            0   5  1875  B Y84 @     GEN   1189
6391                B     *&3                                            0   4  1880  B Y86       GEN   1189
6392                CC    1                                              0   2  1884  F 1         GEN   1190
6393 47 78          B     KILL                                           0   4  1886  B M47              1190
6394 47 79   SBVRT  SBR   X2,10&X1                                       0   7  1890  H 094 0/0          1190
6395 47 80          BCE   SEND,2&X2,$                                    0   8  1897  B Z12 0!2 $        1190
6396 47 81          SBR   X2,6&X2                                        0   7  1905  H 094 0!6          1190
6397 47 82   SEND   MCW   NXBTM,*&7                                      0   7  1912  M P55 Z25          1190
6398 47 83          LCA   2&X2,0                                         0   7  1919  L 0!2 000          1191
6399 47 84          SBR   NXBTM                                          0   4  1926  H P55              1191
6400 47 85          MZ    4&X1,TEMP-1                                    0   7  1930  Y 0|4 N71          1191
6401 47 86          MCW   X2,X1                                          0   7  1937  M 094 089          1191
6402 47 87          B     FNISH                                          0   4  1944  B X61              1191
6403 47 88   NEG    MCW   @N@,1&X1                                       0   7  1948  M Q68 0|1          1191
6404 47 89          MZ    4&X3,TEMP-1                                    0   7  1955  Y 0?4 N71          1192
6405 47 90          BCE   FUNY,2&X3,$                                    0   8  1962  B J17 0?2 $        1192
6406 47 91          MZ    3&X3,TEMP-1                                    0   7  1970  Y 0?3 N71          1192
6407 47 92          B     FUNY                                           0   4  1977  B J17              1192
6408 47 93   FUN    MCW   3&X1,TYPE#2                                    0   7  1981  M 0|3 Q70          1192
6409 47 94          BCE   FXMOD,3&X1,X                                   0   8  1988  B J75 0|3 X        1193
6410 47 95          MZ    *-4,TEMP-1                                     0   7  1996  Y Z98 N71          1193
6411 47 96   CKUSR  SW    2&X1                                           0   4  2003  , 0|2              1193
6412 47 97          MCW   2&X1,*&8                                       0   7  2007  M 0|2 !21          1193
6413 47 98          BCE   OKAY,@RUPWYZKJLMDH@,0                          0   8  2014  B !99 Q82 0        1193
6414 47 99          CHAIN 11                                             0                        MACRO
6415                BCE                                                  0   1  2022  B           GEN   1193
6416                BCE                                                  0   1  2023  B           GEN   1193
6417                BCE                                                  0   1  2024  B           GEN   1194
6418                BCE                                                  0   1  2025  B           GEN   1194
6419                BCE                                                  0   1  2026  B           GEN   1194
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 SEQ PG LIN  LABEL  OP    OPERANDS                SFX CT  LOCN  INSTRUCTION TYPE  CARD
6420                  BCE                           0  1  2027  B           GEN   1194
6421                  BCE                           0  1  2028  B           GEN   1194
6422                  BCE                           0  1  2029  B           GEN   1194
6423                  BCE                           0  1  2030  B           GEN   1194
6424                  BCE                           0  1  2031  B           GEN   1195
6425                  BCE                           0  1  2032  B           GEN   1195
6426 48 00            MZ    4&X3,ZONE               0  7  2033  Y 0?4 Q29         1195
6427 48 01            BCE   *&8,2&X3,$              0  8  2040  B !55 0?2 $       1195
6428 48 02            MZ    3&X3,ZONE               0  7  2048  Y 0?3 Q29         1195
6429 48 03            BCE   RUFIX,2&X1,F            0  8  2055  B K07 0|2 F       1195
6430 48 04            BCE   RUFIX,2&X1,I            0  8  2063  B K07 0|2 I       1196
6431 48 05            C     TYPE,@AX@               0  7  2071  C Q70 Q84         1196
6432 48 06            BE    RUFIX                   0  5  2078  B K07 S           1196
6433 48 07            BWZ   ERR6,ZONE,S             0  8  2083  V K23 Q29 S       1196
6434 48 08            BWZ   ERR6,ZONE,K             0  8  2091  V K23 Q29 K       1196
6435 48 09   OKAY     MCW   2&X1,1&X1               0  7  2099  M 0|2 0|1         1197
6436 48 10            MCW   @%@,2&X1                0  7  2106  M Q85 0|2         1197
6437 48 11            CW    2&X1                    0  4  2113  ) 0|2             1197
6438 48 12   FUNY     MCW   NXBTM,X2                0  7  2117  M P55 094         1197
6439 48 13            SW    2&X3                    0  4  2124  , 0?2             1197
6440 48 14            LCA   1&X1,0&X2               0  7  2128  L 0|1 0!0         1197
6441 48 15            SBR   NXBTM                   0  4  2135  H P55             1198
6442 48 16            B     GNTMP                   0  4  2139  B V73             1198
6443 48 17            LCA   TEMP,1&X1               0  7  2143  L N72 0|1         1198
6444 48 18            LCA   1&X3                    0  4  2150  L 0?1             1198
6445 48 19            MN    0&X1                    0  4  2154  D 0|0             1198
6446 48 20            CW                            0  1  2158  )                 1198
6447 48 21            MN                            0  1  2159  D                 1198
6448 48 22            SAR   X3                      0  4  2160  Q 099             1199
6449 48 23            SBR   X1,1&X1                0  7  2164  H 089 0|1         1199
6450 48 24            B     KLOBR                   0  4  2171  B /79             1199
6451 48 25   FXMOD    MZ    *-6,TEMP-1              0  7  2175  Y J75 N71         1199
6452 48 26            LCA   2&X1,3&X1               0  7  2182  L 0|2 0|3         1199
6453 48 27            SBR   X1,1&X1                0  7  2189  H 089 0|1         1199
6454 48 28            SBR   X3,1&X3                0  7  2196  H 099 0?1         1200
6455 48 29            B     CKUSR                   0  4  2203  B !03             1200
6456 48 30   RUFIX    BWZ   OKAY,ZONE,S             0  8  2207  V !99 Q29 S       1200
6457 48 31            BWZ   OKAY,ZONE,K             0  8  2215  V !99 Q29 K       1200
6458 48 32   ERR6     CS    332                     0  4  2223  / 332             1200
6459 48 33            CS                            0  1  2227  /                 1200
6460 48 34            SW    FAILSW                  0  4  2228  , 184             1200
6461 48 35            MN    CODE,224&37             0  7  2232  D P61 261         1201
6462 48 36            MN                            0  1  2239  D                 1201
6463 48 37            MN                            0  1  2240  D                 1201
6464 48 38            MCW   BGMSG                   0  4  2241  M O31             1201
6465 48 39            W                             0  1  2245  2                 1201
6466 48 40            BCV   *&5                     0  5  2246  B K55 @           1201
6467 48 41            B     *&3                     0  4  2251  B K57             1201
6468 48 42            CC    1                       0  2  2255  F 1               1202
6469 48 43            B     KILL                    0  4  2257  B M47             1202
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 SEQ PG LIN  LABEL  OP    OPERANDS                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD
6470 48 44   ERR5   FTMSG 24,SYSTEM ERROR,CODE,14                    0                       MACRO
6471         ERR5   CS    332                                       0   4  2261  / 332       GEN   1202
6472                CS                                             0   1  2265  /           GEN   1202
6473                SW    FAILSW                                    0   4  2266  , 184       GEN   1202
6474                MN    CODE,224&14                               0   7  2270  D P61 238   GEN   1202
6475                MN                                             0   1  2277  D           GEN   1202
6476                MN                                             0   1  2278  D           GEN   1203
6477                MCW   @ERROR 24 - SYSTEM ERROR, STATEMENT @     0   4  2279  M R20       GEN   1203
6478                W                                              0   1  2283  2           GEN   1203
6479                BCV   *&5                                      0   5  2284  B K93 @     GEN   1203
6480                B     *&3                                      0   4  2289  B K95       GEN   1203
6481                CC    1                                        0   2  2293  F 1         GEN   1203
6482 48 45          B     KILL                                     0   4  2295  B M47             1203
6483 48 46   ERR4   FTMSG 26,EXCESS OF # SIGNS,CODE,19             0                       MACRO
6484         ERR4   CS    332                                       0   4  2299  / 332       GEN   1204
6485                CS                                             0   1  2303  /           GEN   1204
6486                SW    FAILSW                                    0   4  2304  , 184       GEN   1204
6487                MN    CODE,224&19                               0   7  2308  D P61 243   GEN   1204
6488                MN                                             0   1  2315  D           GEN   1204
6489                MN                                             0   1  2316  D           GEN   1204
6490                MCW   @ERROR 26 - EXCESS OF # SIGNS, STATEMENT @ 0   4  2317  M R60       GEN   1204
6491                W                                              0   1  2321  2           GEN   1205
6492                BCV   *&5                                      0   5  2322  B L31 @     GEN   1205
6493                B     *&3                                      0   4  2327  B L33       GEN   1205
6494                CC    1                                        0   2  2331  F 1         GEN   1205
6495 48 47          B     KILL                                     0   4  2333  B M47             1205
6496 48 48   ERR3   FTMSG 32,MULTIPLE EXPONENT,CODE,19            0                       MACRO
6497         ERR3   CS    332                                       0   4  2337  / 332       GEN   1205
6498                CS                                             0   1  2341  /           GEN   1205
6499                SW    FAILSW                                    0   4  2342  , 184       GEN   1206
6500                MN    CODE,224&19                               0   7  2346  D P61 243   GEN   1206
6501                MN                                             0   1  2353  D           GEN   1206
6502                MN                                             0   1  2354  D           GEN   1206
6503                MCW   @ERROR 32 - MULTIPLE EXPONENT, STATEMENT @ 0   4  2355  M ?00       GEN   1206
6504                W                                              0   1  2359  2           GEN   1206
6505                BCV   *&5                                      0   5  2360  B L69 @     GEN   1206
6506                B     *&3                                      0   4  2365  B L71       GEN   1207
6507                CC    1                                        0   2  2369  F 1         GEN   1207
6508 48 49          B     KILL                                     0   4  2371  B M47             1207
6509 48 50   ERR2   FTMSG 16,PARENTHESIS ERROR,CODE,19            0                       MACRO
6510         ERR2   CS    332                                       0   4  2375  / 332       GEN   1207
6511                CS                                             0   1  2379  /           GEN   1207
6512                SW    FAILSW                                    0   4  2380  , 184       GEN   1207
6513                MN    CODE,224&19                               0   7  2384  D P61 243   GEN   1207
6514                MN                                             0   1  2391  D           GEN   1208
6515                MN                                             0   1  2392  D           GEN   1208
6516                MCW   @ERROR 16 - PARENTHESIS ERROR, STATEMENT @ 0   4  2393  M ?40       GEN   1208
6517                W                                              0   1  2397  2           GEN   1208
6518                BCV   *&5                                      0   5  2398  B M07 @     GEN   1208
6519                B     *&3                                      0   4  2403  B M09       GEN   1208
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 SEQ PG LIN  LABEL  OP    OPERANDS                                                SFX CT  LOCN  INSTRUCTION TYPE  CARD
6520                CC    1                                                        0  2  2407  F 1         GEN   1208
6521 48 51          B     KILL                                                     0  4  2409  B M47             1209
6522 48 52  ERR1    FTMSG 25,LEFT SIDE INVALID,CODE,19                             0                  MACRO
6523        ERR1    CS    332                                                      0  4  2413  / 332       GEN   1209
6524                CS                                                             0  1  2417  /           GEN   1209
6525                SW    FAILSW                                                   0  4  2418  , 184       GEN   1209
6526                MN    CODE,224&19                                              0  7  2422  D P61 243   GEN   1209
6527                MN                                                             0  1  2429  D           GEN   1209
6528                MN                                                             0  1  2430  D           GEN   1209
6529                MCW   @ERROR 25 - LEFT SIDE INVALID, STATEMENT @               0  4  2431  M ?80       GEN   1210
6530                W                                                              0  1  2435  2           GEN   1210
6531                BCV   *&5                                                      0  5  2436  B M45 @     GEN   1210
6532                B     *&3                                                      0  4  2441  B M47       GEN   1210
6533                CC    1                                                        0  2  2445  F 1         GEN   1210
6534 48 53  KILL    MCW   HEX2,NXBTM                                              0  7  2447  M P58 P55         1210
6535 48 54          B     RESET                                                    0  4  2454  B N08             1210
6536 48 55  EOJ     MCW   NXBTM,X2                                                 0  7  2458  M P55 094         1211
6537 48 56          SW    2&X3                                                     0  4  2465  , 0?2             1211
6538 48 57          LCA   0&X1,0&X2                                               0  7  2469  L 0|0 0!0         1211
6539 48 58          LCA   @#@                                                     0  4  2476  L ?81             1211
6540 48 59          SBR   X2                                                      0  4  2480  H 094             1211
6541 48 60          CW    2&X2                                                     0  4  2484  ) 0!2             1211
6542 48 61          CW                                                             0  1  2488  )                 1211
6543 48 62          SW    2&X1                                                     0  4  2489  , 0|2             1212
6544 48 63  TUKIT   LCA   0,0&X2                                                  0  7  2493  L 000 0!0         1212
6545 48 64          LCA   GM                                                       0  4  2500  L N73             1212
6546 48 65          SBR   NXBTM                                                   0  4  2504  H P55             1212
6547 48 66  RESET   MCW   NEXT,X1                                                 0  7  2508  M P66 089         1212
6548 48 67          B     START                                                    0  4  2515  B |60             1212
6549 48 68  DUN     SBR   X1,5&X1                                                 0  7  2519  H 089 0|5         1212
6550 48 69          MCW   NXBTM,X3                                                0  7  2526  M P55 099         1213
6551 48 70          SBR   X2,5&X3                                                 0  7  2533  H 094 0?5         1213
6552 48 71          MCW   NOMO,X3                                                  0  7  2540  M P45 099         1213
6553 48 72  OUT     FENDX C,,,,,,SYSGM,ARITH TRI                                   0                  MACRO
6554        OUT     BSS   333,C                                                    0  5  2547  B 333 C     GEN   1213
6555                SBR   TCLEAR,SYSGM                                            0  7  2552  H 710 ?91   GEN   1213
6556                LCA   @ARITH TRI@,110                                        0  7  2559  L ?90 110   GEN   1214
6557                B     MONTER                                                   0  4  2566  B 700       GEN   1214
6558 48 73          DCW   @<@        DELTA   12-6-8                               0  1  2570                    1214
6559 48 74  TEMP    DC    @  @      BLANKS                                       0  2  2572                    1214
6560 48 75  GM      DC    @}@      GROUP MK                                       0  1  2573              GMARK 1214
6561 48 76          DCW   @ERROR 28 - INCORRECT MODE OF FUNCTION ARGUMENT, ST@   0 50  2623                    1216
6562 48 77  BGMSG   DC    @ATEMENT @                                               0  8  2631                    1216
6563 48 78          DCW   @-@                                                      0  1  2632                    1216
6564 48 79  OPS     DCW   @, .@&}#%)*@        PLUS, G-M, EQUAL                    0 10  2642                    1216
6565 48 80  MATRX   EQU   *&1                                                     0     2643
6566 48 81          DC    @220922200SSSSSSSSSS0109700000070930000066605666666@   0 50  2692                    1218
6567 48 82          DC    @020922000S220922200S220922280S0509700000440944400S@   0 50  2742                    1220
6568 48 83  *
6569 48 84  *
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 SEQ PG LIN  LABEL  OP    OPERANDS                                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD

6570 48 85   *    ARITH ALGORITHM
6571 48 86   *
6572 48 87   *
6573 48 88   *
6574 48 89   *                      PHI LEFT
6575 48 90   *
6576 48 91   *                                  -
6577 48 92   *             *   )   %   #  GM   &   /  **  F%  NG
6578 48 93   *
6579 48 94   *   P     *   2   2   0   9   2   2   2   0   0   S
6580 48 95   *   H     )   S   S   S   S   S   S   S   S   S   S
6581 48 96   *   I     %   0   1   0   9   7   0   0   0   0   0
6582 48 97   *         #   0   7   0   9   3   0   0   0   0   0
6583 48 98   *   R    GM   6   6   6   0   S   6   6   6   6   6
6584 48 99   *   I    -&   0   2   0   9   2   2   0   0   0   S
6585 49 00   *   G     /   2   2   0   9   2   2   2   0   0   S
6586 49 01   *   H   .**   2   2   0   9   2   2   2   8   0   S
6587 49 02   *   T    F%   0   5   0   9   7   0   0   0   0   0
6588 49 03   *       ,NG   4   4   0   9   4   4   4   0   0   S
6589 49 04   *
6590 49 05   *
6591 49 06   *          0  SKIP TO NEXT OP
6592 49 07   *          1  DELETE PARENS
6593 49 08   *          2  FORCE BINARY OP
6594 49 09   *          3  EOJ
6595 49 10   *          4  NEGATE FN
6596 49 11   *          5  OTHER FN
6597 49 12   *          6  LEFT SIDE INVALID
6598 49 13   *          7  PAREN ERROR
6599 49 14   *          8  DOUBLE EXPONENTIATION
6600 49 15   *          9  MULTIPLE # SIGNS
6601 49 16   *          S  COMPILER ERROR
6602 49 17   *
6603 49 18   *
6604 49 19          LTORG *                                                      0             2743
             NOMO 0 DCW   #03                                                    0   3  2745              AREA  1220
             TAIL 0 DCW   #02                                                    0   2  2747              AREA  1220
                    DCW   @00@                                                   0   2  2749              LIT   1220
             LAST 0 DCW   #03                                                    0   3  2752              AREA  1220
             NXBTM0 DCW   #03                                                    0   3  2755              AREA  1221
             HEX2 0 DCW   #03                                                    0   3  2758              AREA  1221
             CODE 0 DCW   #03                                                    0   3  2761              AREA  1221
                    DCW   @]@                                                    0   1  2762              LIT   1221
                    DCW   @R@                                                    0   1  2763              LIT   1221
             NEXT 0 DCW   #03                                                    0   3  2766              AREA  1221
                    DCW   @MESSAGE 2 - OBJECT PROGRAM TOO LARGE@                 0  36  2802              LIT   1222
             BLNKS0 DCW   #12                                                    0  12  2814              AREA  1223
             PHILF0 DCW   #01                                                    0   1  2815              AREA  1223
             PHIRT0 DCW   #01                                                    0   1  2816              AREA  1223
             UNITS0 DCW   #03                                                    0   3  2819              AREA  1223
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 SEQ PG LIN  LABEL   OP    OPERANDS                                    SFX CT  LOCN  INSTRUCTION TYPE  CARD
             NUM  0  DCW   #01                                          0   1  2820              AREA  1223
                     DCW   &OPS  0                                      0   3  2823  O42         ADCON 1223
                     DCW   @1@                                          0   1  2824              LIT   1223
                     DCW   @&@                                          0   1  2825              LIT   1224
             CNTR 0  DCW   #03                                          0   3  2828              AREA  1224
             ZONE 0  DCW   #01                                          0   1  2829              AREA  1224
                     DCW   @ERROR 46 - MIXING IN ARITH, STATEMENT @     0  38  2867              LIT   1225
                     DCW   @N@                                          0   1  2868              LIT   1225
             TYPE 0  DCW   #02                                          0   2  2870              AREA  1226
                     DCW   @RUPWYZKJLMDH@                               0  12  2882              LIT   1226
                     DCW   @AX@                                         0   2  2884              LIT   1226
                     DCW   @%@                                          0   1  2885              LIT   1226
                     DCW   @ERROR 24 - SYSTEM ERROR, STATEMENT @        0  35  2920              LIT   1227
                     DCW   @ERROR 26 - EXCESS OF # SIGNS, STATEMENT @   0  40  2960              LIT   1229
                     DCW   @ERROR 32 - MULTIPLE EXPONENT, STATEMENT @   0  40  3000              LIT   1231
                     DCW   @ERROR 16 - PARENTHESIS ERROR, STATEMENT @   0  40  3040              LIT   1233
                     DCW   @ERROR 25 - LEFT SIDE INVALID, STATEMENT @   0  40  3080              LIT   1235
                     DCW   @#@                                          0   1  3081              LIT   1235
                     DCW   @ARITH TRI@                                  0   9  3090              LIT   1235
6605 49 20   SYSGM   DCW   @}@      SYSTEM GROUP MK                     0   1  3091              GMARK 1235
6606 49 21           XFR   INITL                                        0          B 838               1236
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 SEQ PG LIN  LABEL  OP    OPERANDS                          SFX CT  LOCN  INSTRUCTION TYPE  CARD
6607 49 22          JOB   ARITH PHASE THREE                  0
6608 49 23          SFX   [         12-5-8                   [
6609 49 24   110    DCW   @ARITH 3@                        [   7  0110                    1239
6610 49 25          ORG   XBEGIN                           [            0838
6611 49 26   START  FENDX C,,,,,,SYSGM,ARITH 4             [                       MACRO
6612         START  BSS   333,C                            [   5  0838  B 333 C     GEN   1240
6613                SBR   TCLEAR,SYSGM                     [   7  0843  H 710 |68   GEN   1240
6614                LCA   @ARITH 4@,110                    [   7  0850  L |67 110   GEN   1240
6615                B     MONTER                           [   4  0857  B 700       GEN   1240
6616 49 27          ORG   *&200                           [            1061
6617 49 28          LTORG *                                [            1061
                    DCW   @ARITH 4@                        [   7  1067              LIT   1241
6618 49 29   SYSGM  DCW   @}@          SYSTEM GM           [   1  1068              GMARK 1241
6619 49 30          XFR   START                            [            B 838             1242
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 SEQ PG LIN  LABEL  OP    OPERANDS                                        SFX CT  LOCN  INSTRUCTION TYPE  CARD
6620 49 31          JOB   ARITH PHASE FOUR                               [
6621 49 32          FBEGN ARITH 4,  X1,,X2,,X3,,7                        [                   MACRO
6622                SFX   7                                              7                   GEN
6623          110   DCW   @ARITH 4@                                      7   7  0110             GEN   1245
6624          X1    EQU   089                                            7      0089             GEN
6625          X2    EQU   094                                            7      0094             GEN
6626          X3    EQU   099                                            7      0099             GEN
6627 49 33          ORG   XBEGIN                                         7           0838
6628 49 34    *  START - INITIALIZATION
6629 49 35    START BCE   FENDX,X2,.                                     7   8  0838  B R37 094 .       1246
6630 49 36          SW    GM1                                            7   4  0846  , K40             1246
6631 49 37          SBR   SAVX3#3,0&X3                                   7   7  0850  H R62 0?0         1246
6632 49 38          SBR   X1,1&X1                                        7   7  0857  H 089 0|1         1246
6633 49 39          SBR   X2,1&X2                                        7   7  0864  H 094 0!1         1246
6634 49 40    *  START OF EVERY STATEMENT
6635 49 41    NUSTM S     TBLR                                           7   4  0871  S N72             1246
6636 49 42          C     X2, SAVX3                                      7   7  0875  C 094 R62         1247
6637 49 43          BE    FENDX                                          7   5  0882  B R37 S           1247
6638 49 44          MCW   BLK4,MAXDL                                     7   7  0887  M ?45 ?21         1247
6639 49 45          SBR   HEX1#3,0&X1                                   7   7  0894  H R65 0|0         1247
6640 49 46    *  START OF EVERY DELTA STRING
6641 49 47    BLKOP MCW   BLK4, HLDOP#1                                  7   7  0901  M ?45 R66         1247
6642 49 48    CWPRT CW    PRTSW                                          7   4  0908  ) R36             1247
6643 49 49          B     FIX          X2 AT HIGH ORDER MINUS ONE        7   4  0912  B N73             1248
6644 49 50          BCE   DELT1,LEFT-2,<    12-6-8    X2 AT UNITS POS   7   8  0916  B 974 ?61 <       1248
6645 49 51    CKDL2 BCE   DELT2,RIGHT-2,<   12-6-8                      7   8  0924  B /66 ?86 <       1248
6646 49 52          BCE   OUTPT,1&X2,}      GM                          7   8  0932  B X33 0!1 } GMARK 1248
6647 49 53          BW    BIG,PRTSW                                      7   8  0940  V T02 R36 1       1248
6648 49 54    ADD3  A     @I99@,CURDL#3                                  7   7  0948  A R69 R72         1249
6649 49 55          MCW   CURDL,X3                                       7   7  0955  M R72 099         1249
6650 49 56          BCE   ADD3,TABLE&X3,1                                7   8  0962  B 948 KD1 1       1249
6651 49 57          B     BLKOP                                          7   4  0970  B 901             1249
6652 49 58    *   DELTA IS LEFT OPERAND
6653 49 59    DELT1 BCE   CKDL2,OP,#                                     7   8  0974  B 924 ?64 #       1249
6654 49 60          BCE   TUF,OP,.                                      7   8  0982  B T28 ?64 .       1250
6655 49 61          B     CVTDL                                          7   4  0990  B P58             1250
6656 49 62          DCW   LEFT                                           7   3  0996  ?63               1250
6657 49 63    D2    B     GETDL            CVT3 HAS DELTA NO OF SOUGHT TEMP 7 4  0997  B Q37             1250
6658 49 64          MN    &1,TABLE&X1      MARK DELTA DELETED            7   7  1001  D R73 KU1         1250
6659 49 65          LCA   0&X3,HLD35#35                                  7   7  1008  L 0?0 ?08         1250
6660 49 66          SAR   X1                                             7   4  1015  Q 089             1250
6661 49 67    *   DELETE TEMP
6662 49 68    CMP3  C     X1,X2                                          7   7  1019  C 089 094         1251
6663 49 69          BE    HLFT                                           7   5  1026  B |54 S           1251
6664 49 70          MVDWN X1,X3                                          7                   MACRO
6665                LCA   0&X1,0&X3                                      7   7  1031  L 0|0 0?0   GEN   1251
6666                SAR   X1                                             7   4  1038  Q 089       GEN   1251
6667                C     0&X3                                           7   4  1042  C 0?0       GEN   1251
6668                SAR   X3                                             7   4  1046  Q 099       GEN   1251
6669 49 71          B     CMP3                                           7   4  1050  B |19             1251
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 SEQ PG LIN  LABEL  OP    OPERANDS                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD
6670 49 72   *  X1 # X2 UNITS POSN OF TEMP TO BE OPTIMIZED
6671 49 73   * X3 # UNITS OF INSERTION OF OPTIMIZED TEMP
6672 49 74   *  INSERT TEMP IN STRING
6673 49 75   HLFT   C     0&X2                                       7   4  1054  C 0!0              1252
6674 49 76          SAR   X1              X1 AT HI ORD OF OLD TEMP   7   4  1058  Q 089              1252
6675 49 77          BW    CW2,PRTSW                                  7   8  1062  V R28 R36 1        1252
6676 49 78   CKRT   BCE   NORT,RIGHT,*                               7   8  1070  B /01 ?88 *        1252
6677 49 79          BCE   FST1,OP,#                                 7   8  1078  B W95 ?64 #        1252
6678 49 80          LCA   RIGHT,0&X3                                7   7  1086  L ?88 0?0          1252
6679 49 81          SBR   X3                                        7   4  1093  H 099              1253
6680 49 82          CW    1&X3                                      7   4  1097  ) 0?1              1253
6681 49 83   NORT   LCA   OP,0&X3                                   7   7  1101  L ?64 0?0          1253
6682 49 84          SBR   X3                                        7   4  1108  H 099              1253
6683 49 85          CW    1&X3                                      7   4  1112  ) 0?1              1253
6684 49 86          LCA   HLD35,0&X3                               7   7  1116  L ?08 0?0          1253
6685 49 87          SBR   X3                                        7   4  1123  H 099              1253
6686 49 88          SBR   X2              X2 NOA AT NEW LOC OF TEMP  7   4  1127  H 094              1254
6687 49 89   *   SHIFT REST OF STATEMENT
6688 49 90   LOAD2  LCA   0&X1,0&X3                                  7   7  1131  L 0|0 0?0          1254
6689 49 91          SAR   X1                                        7   4  1138  Q 089              1254
6690 49 92          C     0&X3                                      7   4  1142  C 0?0              1254
6691 49 93          SAR   X3                                        7   4  1146  Q 099              1254
6692 49 94          BCE   *&5,1&X1,}    GM                        7   8  1150  B /62 0|1 } GMARK  1254
6693 49 95          B     LOAD2                                     7   4  1158  B /31              1254
6694 49 96          B     BLKOP                                     7   4  1162  B 901              1255
6695 49 97   *   DELTA IS RIGHT OPERAND
6696 49 98   DELT2  BCE   *&5,HLDOP,       BLANK                   7   8  1166  B /78 R66          1255
6697 49 99          B     CANU                                      7   4  1174  B U96              1255
6698 50 00          BCE   FIRST,OP,#                                7   8  1178  B W63 ?64 #        1255
6699 50 01          FBCEQ COMUT,OP,&,*                              7                 MACRO
6700                BCE   COMUT, OP, &                             7   8  1186  B S14 ?64 & GEN    1255
6701                BCE   COMUT, OP, *                             7   8  1194  B S14 ?64 * GEN    1256
6702 50 02          BCE   NEGAT,OP,-                               7   8  1202  B S39 ?64 -        1256
6703 50 03          B     CKND                                      7   4  1210  B V27              1256
6704 50 04   COMUT  LCA   LEFT,HLD35                                7   7  1214  L ?63 ?08          1256
6705 50 05          LCA   RIGHT,LEFT                               7   7  1221  L ?88 ?63          1256
6706 50 06          LCA   HLD35,RIGHT                               7   7  1228  L ?08 ?88          1257
6707 50 07          B     DELT1                                     7   4  1235  B 974              1257
6708 50 08   NEGAT  BW    KWM,PRTSW                                 7   8  1239  V T79 R36 1        1257
6709 50 09          LCA   LEFT,0&X2                                 7   7  1247  L ?63 0!0          1257
6710 50 10          LCA   @&@                                       7   4  1254  L ?09              1257
6711 50 11          SBR   X2                                        7   4  1258  H 094              1257
6712 50 12          CW    2&X2,XNEGTF                               7   7  1262  ) 0!2 123          1258
6713 50 13   NEG3   LCA   RIGHT,LEFT                               7   7  1269  L ?88 ?63          1258
6714 50 14          LCA   @***@,RIGHT                              7   7  1276  L ?12 ?88          1258
6715 50 15          MCW   @N@,OP                                    7   7  1283  M ?13 ?64          1258
6716 50 16          CW    XNEGTF                                    7   4  1290  ) 123              1258
6717 50 17          SW    PRTSW                                     7   4  1294  , R36              1258
6718 50 18          B     DELT1                                     7   4  1298  B 974              1259
6719 50 19   *   IN THE MIDDLE OF PARTIALLY OPTIMIZED TEMP
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 SEQ PG LIN  LABEL  OP    OPERANDS                                SFX CT  LOCN  INSTRUCTION TYPE  CARD
6720 50 20   BIG    BCE   TUF,RIGHT,*                              7  8  1302  B T28 ?88 *       1259
6721 50 21          MCW   OP,BCE1&7                                7  7  1310  M ?64 T24        1259
6722 50 22   BCE1   BCE   MAYBE,@&-*@@, 0                         7  8  1317  B T91 ?17 0      1259
6723 50 23          CHAIN 3                                       7                 MACRO
6724                BCE                                         7  1  1325  B           GEN   1259
6725                BCE                                         7  1  1326  B           GEN   1259
6726                BCE                                         7  1  1327  B           GEN   1259
6727 50 24   TUF    BW    *&5,PRTSW                               7  8  1328  V T40 R36 1      1260
6728 50 25          B     ADD3                                    7  4  1336  B 948            1260
6729 50 26          B     KWM                                     7  4  1340  B T79            1260
6730 50 27   TUF2   BW    ADJST,2&X2                              7  8  1344  V T60 0!2 1      1260
6731 50 28          SBR   X2                                      7  4  1352  H 094            1260
6732 50 29          B     TUF2                                    7  4  1356  B T44            1260
6733 50 30   ADJST  SBR   X2,1&X2                                7  7  1360  H 094 0!1        1260
6734 50 31          BCE   OUTPT,1&X2,}          GM                7  8  1367  B X33 0!1 } GMARK 1261
6735 50 32          B     ADD3                                    7  4  1375  B 948            1261
6736 50 33   KWM    SBR   KWMXT&3                                7  4  1379  H T90            1261
6737 50 34          CW    1&X2                                    7  4  1383  ) 0!1            1261
6738 50 35   KWMXT  B     0                                       7  4  1387  B 000            1261
6739 50 36   MAYBE  BCE   *&5,HLDOP,            BLANK             7  8  1391  B U03 R66        1261
6740 50 37          B     ADNL                                    7  4  1399  B U40            1261
6741 50 38          MCW   OP,HLDOP                               7  7  1403  M ?64 R66        1262
6742 50 39   MESUR  CW    1&X2                                    7  4  1410  ) 0!1            1262
6743 50 40          LCA   RIGHT,0&X2                              7  7  1414  L ?88 0!0        1262
6744 50 41          SBR   X2                                      7  4  1421  H 094            1262
6745 50 42          CW    MIDSW#1                                 7  4  1425  ) ?18            1262
6746 50 43          SBR   CW5&3,1&X2                              7  7  1429  H O17 0!1        1262
6747 50 44          B     CWPRT                                   7  4  1436  B 908            1262
6748 50 45   ADNL   FBCEQ HOPE,HLDOP,&,-                         7                 MACRO
6749         ADNL   BCE   HOPE, HLDOP, &                         7  8  1440  B U76 R66 & GEN   1263
6750                BCE   HOPE, HLDOP, -                         7  8  1448  B U76 R66 - GEN   1263
6751 50 46          FBCEQ MESUR,OP,*,/                           7                 MACRO
6752                BCE   MESUR, OP, *                           7  8  1456  B U10 ?64 * GEN   1263
6753                BCE   MESUR, OP, /                           7  8  1464  B U10 ?64 / GEN   1263
6754 50 47          B     TUF                                    7  4  1472  B T28            1263
6755 50 48   HOPE   FBCEQ MESUR,OP,&,-                         7                 MACRO
6756         HOPE   BCE   MESUR, OP, &                         7  8  1476  B U10 ?64 & GEN   1264
6757                BCE   MESUR, OP, -                         7  8  1484  B U10 ?64 - GEN   1264
6758 50 49          B     TUF                                    7  4  1492  B T28            1264
6759 50 50   *  DELTA FOUND IN MIDDLE OF LARGE STRING
6760 50 51   CANU   MCW   OP,*&8                                 7  7  1496  M ?64 V10        1264
6761 50 52          BCE   SWAP,HLDOP,0                          7  8  1503  B V75 R66 0      1264
6762 50 53          FBCEQ HOPE2,HLDOP,&,-                        7                 MACRO
6763                BCE   HOPE2, HLDOP, &                       7  8  1511  B V55 R66 & GEN   1265
6764                BCE   HOPE2, HLDOP, -                       7  8  1519  B V55 R66 - GEN   1265
6765 50 54   CKND   BCE   OUTPT,1&X2,}          GM                7  8  1527  B X33 0!1 } GMARK 1265
6766 50 55          BW    TUF,PRTSW                              7  8  1535  V T28 R36 1      1265
6767 50 56          BW    ADD3,1&X2                              7  8  1543  V 948 0!1 1      1266
6768 50 57          B     TUF                                    7  4  1551  B T28            1266
6769 50 58   HOPE2  FBCEQ SWAP,OP,&,-                           7                 MACRO
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 SEQ PG LIN  LABEL  OP    OPERANDS                                    SFX CT  LOCN  INSTRUCTION TYPE  CARD
6770         HOPE2  BCE   SWAP, OP, &                                 7   8  1555  B V75 ?64 & GEN   1266
6771                BCE   SWAP, OP, -                                 7   8  1563  B V75 ?64 - GEN   1266
6772 50 59          B     CKND                                        7   4  1571  B V27            1266
6773 50 60  *  SHIFT MIDDLE DELTA TO FRONT OF STRING
6774 50 61  SWAP   BCE   TUF,OP,@                                     7   8  1575  B T28 ?64 @      1267
6775 50 62          BW    KWM,PRTSW                                   7   8  1583  V T79 R36 1      1267
6776 50 63          C     0&X2,BLK4                                   7   7  1591  C 0!0 ?45        1267
6777 50 64          SAR   X3                                          7   4  1598  Q 099            1267
6778 50 65          MCW   0&X3,0&X2                                   7   7  1602  M 0?0 0!0        1267
6779 50 66          SBR   X2                                          7   4  1609  H 094            1267
6780 50 67          BCE   NEG2,OP,-                                  7   8  1613  B W44 ?64 -      1268
6781 50 68          MCW   OP,0&X2                                    7   7  1621  M ?64 0!0        1268
6782 50 69          MCW   RIGHT                                       7   4  1628  M ?88            1268
6783 50 70          C     0&X2                                        7   4  1632  C 0!0            1268
6784 50 71          SBR   X2                  ??? SAR ???           7   4  1636  H 094            1268
6785 50 72          B     BLKOP                                       7   4  1640  B 901            1268
6786 50 73  NEG2   LCA   @&@,0&X2                                    7   7  1644  L ?09 0!0        1268
6787 50 74          SBR   X2                                          7   4  1651  H 094            1269
6788 50 75          SW    PRTSW                                       7   4  1655  , R36            1269
6789 50 76          B     NEG3                                        7   4  1659  B S69            1269
6790 50 77  FIRST  B     CVTDL                                       7   4  1663  B P58            1269
6791 50 78          DCW   RIGHT                                       7   3  1669  ?88              1269
6792 50 79          MCW   RIGHT,MAXDL#3                               7   7  1670  M ?88 ?21        1269
6793 50 80          MCW   CVT3,CURDL                                  7   7  1677  M ?91 R72        1269
6794 50 81          A     &1,CURDL                                    7   7  1684  A R73 R72        1270
6795 50 82          B     D2                                          7   4  1691  B 997            1270
6796 50 83  FST1   LCA   HLD35,0&X3                                  7   7  1695  L ?08 0?0        1270
6797 50 84          SBR   X2                                          7   4  1702  H 094            1270
6798 50 85          LCA   OP                                          7   4  1706  L ?64            1270
6799 50 86          SBR   X3                                          7   4  1710  H 099            1270
6800 50 87          CW    1&X3                                        7   4  1714  ) 0?1            1270
6801 50 88          LCA   LEFT,0&X3                                   7   7  1718  L ?63 0?0        1271
6802 50 89          LCA   GM1                                         7   4  1725  L K40            1271
6803 50 90          B     BLKOP                                       7   4  1729  B 901            1271
6804 50 91  *  ALL OPTIMIZATION HAS TAKEN PLACE - OUTPUT STATEMENT
6805 50 92  OUTPT  MCW   HEX1,X1                                      7   7  1733  M R65 089        1271
6806 50 93          SBR   HEX2#3,0&X2                                 7   7  1740  H ?24 0!0        1271
6807 50 94          BCE   NOPTM,2&X2,,        IF STATEMENT            7   8  1747  B Y87 0!2 ,      1271
6808 50 95          BCE   NOPTM,MAXDL-2,<    12-6-8                  7   8  1755  B Y87 ?19 <      1272
6809 50 96          BCE   NOPTM,0&X2,$                                7   8  1763  B Y87 0!0 $      1272
6810 50 97          BCE   NOPTM,BOP,$                                 7   8  1771  B Y87 ?63 $      1272
6811 50 98          BWZ   CKFIX,BOP-1,K                               7   8  1779  V Y07 ?62 K      1272
6812 50 99          BWZ   NOPTM,AOP-1,K                               7   8  1787  V Y87 ?87 K      1273
6813 51 00          BWZ   NOPTM,AOP-1,S                               7   8  1795  V Y87 ?87 S      1273
6814 51 01          B     OPTM                                        7   4  1803  B Y23            1273
6815 51 02  CKFIX  BWZ   NOPTM,AOP-1,2                               7   8  1807  V Y87 ?87 2      1273
6816 51 03          BWZ   NOPTM,AOP-1,B                               7   8  1815  V Y87 ?87 B      1273
6817 51 04  *  GENERATE INLINE CODING
6818 51 05  OPTM   B     NOPTM                                       7   4  1823  B Y87            1274
6819 51 06          LCA   BOP                                         7   4  1827  L ?63            1274
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 SEQ PG LIN  LABEL  OP    OPERANDS                          SFX CT  LOCN  INSTRUCTION TYPE  CARD
6820 51 07          LCA   AOP                                7  4  1831  L ?88             1274
6821 51 08          LCA   @L@                                7  4  1835  L ?25             1274
6822 51 09          SBR   X3                                 7  4  1839  H 099             1274
6823 51 10          CW    2&X3,5&X3                          7  7  1843  ) 0?2 0?5         1274
6824 51 11          MZ    *-4,3&X3                           7  7  1850  Y Y52 0?3         1274
6825 51 12          MZ    *-4,6&X3                           7  7  1857  Y Y59 0?6         1275
6826 51 13          SBR   X1,6&X1                           7  7  1864  H 089 0|6         1275
6827 51 14          LCA   6&X2                             7  4  1871  L 0!6             1275
6828 51 15          LCA                                      7  1  1875  L                 1275
6829 51 16          SBR   X2,6&X2                          7  7  1876  H 094 0!6         1275
6830 51 17          B     NUSTM                              7  4  1883  B 871             1275
6831 51 18    *  CANNOT GENERATE INLINE CODING
6832 51 19    NOPTM MCW   @01@,MAXDL                       7  7  1887  M ?27 ?21         1275
6833 51 20          MCW   @001@,X3                         7  7  1894  M ?30 099         1276
6834 51 21          MCW   @01@,DL2#2                       7  7  1901  M ?27 ?32         1276
6835 51 22          SBR   X1,4&X1                         7  7  1908  H 089 0|4         1276
6836 51 23          LCA   @B700@                           7  4  1915  L ?36             1276
6837 51 24    CKZRO BCE   PRODL,TABLE&X3,0                 7  8  1919  B Z63 KD1 0       1276
6838 51 25    DECR  A     &1,DL2                           7  7  1927  A R73 ?32         1277
6839 51 26          MCW   DL2,MAXDL                       7  7  1934  M ?32 ?21         1277
6840 51 27          MZ    DL2-1,MAXDL                      7  7  1941  Y ?31 ?21         1277
6841 51 28          A     &1,X3                            7  7  1948  A R73 099         1277
6842 51 29          SW    PRTSW                            7  4  1955  , R36             1277
6843 51 30          B     CKZRO                            7  4  1959  B Z19             1277
6844 51 31    PRODL LCA   @#@,4&X1                        7  7  1963  L ?37 0|4         1278
6845 51 32          LCA   MAXDL                            7  4  1970  L ?21             1278
6846 51 33          CW    4&X1                             7  4  1974  ) 0|4             1278
6847 51 34          C     0&X1,@B700@                      7  7  1978  C 0|0 ?36         1278
6848 51 35          BE    *&5                              7  5  1985  B Z94 S           1278
6849 51 36          CW    1&X1                             7  4  1990  ) 0|1             1278
6850 51 37          LCA   GM1,1&X2                         7  7  1994  L K40 0!1         1278
6851 51 38    CX2   C     0&X2                             7  4  2001  C 0!0             1279
6852 51 39          SAR   X2                               7  4  2005  Q 094             1279
6853 51 40          BCE   KWM2,0&X2,#                      7  8  2009  B J39 0!0 #       1279
6854 51 41          BCE   SUB3,1&X2,$                      7  8  2017  B J47 0!1 $       1279
6855 51 42          MZ    2&X2,2&X1                        7  7  2025  Y 0!2 0|2         1279
6856 51 43    BMPX1 SBR   X1,4&X1                         7  7  2032  H 089 0|4         1279
6857 51 44    *  STRING TO OUTPUT AREA
6858 51 45    PMOV  MCM   1&X2,1&X1                        7  7  2039  P 0!1 0|1         1280
6859 51 46          MN                                     7  1  2046  D                 1280
6860 51 47          SBR   X1                               7  4  2047  H 089             1280
6861 51 48          MCM   1&X2                             7  4  2051  P 0!1             1280
6862 51 49          MN                                     7  1  2055  D                 1280
6863 51 50          SAR   X2                               7  4  2056  Q 094             1280
6864 51 51          BCE   PMOV,0&X2,|                      7  8  2060  B !39 0!0 |       1280
6865 51 52          C     0&X2                             7  4  2068  C 0!0             1281
6866 51 53          SAR   X2                               7  4  2072  Q 094             1281
6867 51 54          MCW   X3,HEX3#3                        7  7  2076  M 099 ?40         1281
6868 51 55          MCW   @|@,0&X1                        7  7  2083  M ?41 0|0         1281
6869 51 56          LCA   0&X2                             7  4  2090  L 0!0             1281
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 SEQ PG LIN  LABEL  OP    OPERANDS                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD
6870 51 57          SBR   X3                                         7  4  2094  H 099             1281
6871 51 58          CW    0&X1,1&X3                                  7  7  2098  ) 0|0 0?1         1281
6872 51 59          C     0&X2                                       7  4  2105  C 0!0             1282
6873 51 60          SAR   X3                                         7  4  2109  Q 099             1282
6874 51 61          BCE   EOSTR,0&X3,}          GM                  7  8  2113  B J58 0?0 } GMARK 1282
6875 51 62          SBR   X2,0&X3                                   7  7  2121  H 094 0?0         1282
6876 51 63          MCW   HEX3,X3                                   7  7  2128  M ?40 099         1282
6877 51 64          B     DECR                                       7  4  2135  B Z27             1282
6878 51 65  KWM2    CW    1&X2                                       7  4  2139  ) 0!1             1282
6879 51 66          B     CX2                                        7  4  2143  B !01             1283
6880 51 67  SUB3    MZ    3&X2,2&X1                                  7  7  2147  Y 0!3 0|2         1283
6881 51 68          B     BMPX1                                      7  4  2154  B !32             1283
6882 51 69  *  ALL OF STATEMENT TO OUTPUT AREA
6883 51 70  EOSTR   C     0&X1,BLK4#4                                7  7  2158  C 0|0 ?45         1283
6884 51 71          SAR   X1                                         7  4  2165  Q 089             1283
6885 51 72          LCA   @|@,0&X1                                   7  7  2169  L ?41 0|0         1283
6886 51 73          MCW   0&X2                                       7  4  2176  M 0!0             1283
6887 51 74          MCW   HEX2,X2                                    7  7  2180  M ?24 094         1284
6888 51 75          BW    DOCOD,6&X2                                 7  8  2187  V K17 0!6 1       1284
6889 51 76          SW    3&X2                                       7  4  2195  , 0!3             1284
6890 51 77          SBR   X1,9&X1                                   7  7  2199  H 089 0|9         1284
6891 51 78          LCA   11&X2                                      7  4  2206  L 0J1             1284
6892 51 79          SBR   X2,11&X2                                  7  7  2210  H 094 0J1         1284
6893 51 80  DOCOD   SBR   X1,6&X1                                   7  7  2217  H 089 0|6         1285
6894 51 81          LCA   6&X2                                      7  4  2224  L 0!6             1285
6895 51 82          LCA                                            7  1  2228  L                 1285
6896 51 83          SBR   X2,6&X2                                  7  7  2229  H 094 0!6         1285
6897 51 84          B     NUSTM                                    7  4  2236  B 871             1285
6898 51 85  GM1     DC    @}@           G-M                        7  1  2240                GMARK 1285
6899 51 86  TABLE   DA    1X332,C                                    7     2241   2572           1285
6900 51 87  TBLR    EQU   *                                          7     2572
6901 51 88  *  GETS OPERAND LEFT, OPERATOR, OPERAND RIGHT
6902 51 89  FIX     SBR   FIXT&3                                     7  4  2573  H P27             1294
6903 51 90          BCE   SUB1,1&X2,$                              7  8  2577  B P28 0!1 $       1294
6904 51 91          LCA   3&X2,LEFT#18                              7  7  2585  L 0!3 ?63         1294
6905 51 92          MCW   4&X2,OP#1                                 7  7  2592  M 0!4 ?64         1295
6906 51 93          SBR   X2,4&X2                                  7  7  2599  H 094 0!4         1295
6907 51 94          BW    *&5,MIDSW                                7  8  2606  V O18 ?18 1       1295
6908 51 95  CW5     CW    0                                        7  4  2614  ) 000             1295
6909 51 96          SW    MIDSW                                    7  4  2618  , ?18             1295
6910 51 97          BW    UNARY,1&X2                               7  8  2622  V O72 0!1 1       1295
6911 51 98          SW    1&X2                                     7  4  2630  , 0!1             1296
6912 51 99          SBR   CW&3,1&X2                                7  7  2634  H P23 0!1         1296
6913 52 00          MN    0&X2,BCE3&7                              7  7  2641  D 0!0 O62         1296
6914 52 01          MZ    0&X2,BCE3&7                              7  7  2648  Y 0!0 O62         1296
6915 52 02  BCE3    BCE   ISTWO,@&-*@.#@,0                         7  8  2655  B O83 ?70 0       1296
6916 52 03          CHAIN 5                                        7                 MACRO
6917                BCE                                            7  1  2663  B           GEN   1296
6918                BCE                                            7  1  2664  B           GEN   1296
6919                BCE                                            7  1  2665  B           GEN   1297
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 SEQ PG LIN  LABEL  OP    OPERANDS                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD
6920                BCE                                            7  1  2666  B           GEN   1297
6921                BCE                                            7  1  2667  B           GEN   1297
6922 52 04          SW    PRTSW                                     7  4  2668  , R36             1297
6923 52 05  UNARY   LCA   @***@,RIGHT                              7  7  2672  L ?12 ?88         1297
6924 52 06          B     FIXT                                      7  4  2679  B P24             1297
6925 52 07  ISTWO  BCE   SUB1,1&X2,$                               7  8  2683  B P28 0!1 $       1297
6926 52 08          LCA   3&X2,RIGHT#18                             7  7  2691  L 0!3 ?88         1298
6927 52 09          SBR   X2,3&X2                                  7  7  2698  H 094 0!3         1298
6928 52 10          BW    CW,1&X2                                   7  8  2705  V P20 0!1 1       1298
6929 52 11          SW    1&X2,PRTSW                                7  7  2713  , 0!1 R36         1298
6930 52 12  CW      CW    0                                         7  4  2720  ) 000             1298
6931 52 13  FIXT    B     0                                         7  4  2724  B 000             1298
6932 52 14  SUB1    SBR   SUBXT&3                                  7  4  2728  H P57             1299
6933 52 15          SBR   X2,8&X2                                   7  7  2732  H 094 0!8         1299
6934 52 16          BCE   SUBXT,3&X2,$                              7  8  2739  B P54 0!3 $       1299
6935 52 17          SBR   X2,6&X2                                   7  7  2747  H 094 0!6         1299
6936 52 18  SUBXT   B     0                                         7  4  2754  B 000             1299
6937 52 19  *  CONVERTS ANY DELTA NUMBER TO THREE CHARACTERS
6938 52 20  CVTDL   SBR   X1                                        7  4  2758  H 089             1299
6939 52 21          SBR   CVTXT&3,3&X1                              7  7  2762  H Q36 0|3         1300
6940 52 22          MCW   2&X1,X1                                   7  7  2769  M 0|2 089         1300
6941 52 23          MN    0&X1,CVT3#3                               7  7  2776  D 0|0 ?91         1300
6942 52 24          MN                                              7  1  2783  D                 1300
6943 52 25          MCW   @0@                                       7  4  2784  M ?92             1300
6944 52 26          BWZ   CVTXT,0&X1,2                             7  8  2788  V Q33 0|0 2       1300
6945 52 27          A     &100,CVT3                                 7  7  2796  A ?95 ?91         1301
6946 52 28          BWZ   CVTXT,0&X1,S                             7  8  2803  V Q33 0|0 S       1301
6947 52 29          A     &100,CVT3                                 7  7  2811  A ?95 ?91         1301
6948 52 30          BWZ   CVTXT,0&X1,K                             7  8  2818  V Q33 0|0 K       1301
6949 52 31          A     &100,CVT3                                 7  7  2826  A ?95 ?91         1301
6950 52 32  CVTXT   B     0                                         7  4  2833  B 000             1302
6951 52 33  *  FINDS TEMP TO BE OPTIMIZED
6952 52 34  GETDL   SBR   GDLXT&3                                  7  4  2837  H Q73             1302
6953 52 35          SBR   X3,0&X2                                  7  7  2841  H 099 0!0         1302
6954 52 36          MCW   CURDL,X1          X1 HAS CURRENT DELTA    7  7  2848  M R72 089         1302
6955 52 37          BW    GETWM,PRTSW                               7  8  2855  V Q90 R36 1       1302
6956 52 38  CMP2    C     X1,CVT3                                   7  7  2863  C 089 ?91         1302
6957 52 39  GDLXT   BE    0                                         7  5  2870  B 000 S           1303
6958 52 40          BCE   ADD1,TABLE&X1,1                          7  8  2875  B R17 KU1 1       1303
6959 52 41          A     @I99@,X1                                  7  7  2883  A R69 089         1303
6960 52 42  GETWM   BW    GOTWM,2&X3                                7  8  2890  V R06 0?2 1       1303
6961 52 43          SBR   X3                                        7  4  2898  H 099             1303
6962 52 44          B     GETWM                                     7  4  2902  B Q90             1303
6963 52 45  GOTWM   SBR   X3,1&X3                                  7  7  2906  H 099 0?1         1304
6964 52 46          B     CMP2                                      7  4  2913  B Q63             1304
6965 52 47  ADD1    A     @I99@,X1                                  7  7  2917  A R69 089         1304
6966 52 48          B     CMP2                                      7  4  2924  B Q63             1304
6967 52 49  CW2     CW    1&X3                                      7  4  2928  ) 0?1             1304
6968 52 50          B     CKRT                                      7  4  2932  B |70             1304
6969 52 51  PRTSW   DC    #1                                        7  1  2936                    1304
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SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
6970	52	52	FENDX	FENDX	C,,,,,,SYSGM, ARITH 5	7				MACRO	
6971			FENDX	BSS	333,C	7	5	2937	B 333 C	GEN	1304
6972				SBR	TCLEAR,SYSGM	7	7	2942	H 710 A03	GEN	1305
6973				LCA	@ARITH 5@,110	7	7	2949	L A02 110	GEN	1305
6974				B	MONTER	7	4	2956	B 700	GEN	1305
6975	52	53		LTORG	*	7			2960		
			SAVX37	DCW	#03	7	3	2962		AREA	1305
			HEX1 7	DCW	#03	7	3	2965		AREA	1305
			HLDOP7	DCW	#01	7	1	2966		AREA	1305
				DCW	@I99@	7	3	2969		LIT	1305
			CURDL7	DCW	#03	7	3	2972		AREA	1306
				DCW	&1	7	1	2973		LIT	1306
			HLD357	DCW	#35	7	35	3008		AREA	1306
				DCW	@&@	7	1	3009		LIT	1307
				DCW	@***@	7	3	3012		LIT	1307
				DCW	@N@	7	1	3013		LIT	1307
				DCW	@&-*@@	7	4	3017		LIT	1307
			MIDSW7	DCW	#01	7	1	3018		AREA	1307
			MAXDL7	DCW	#03	7	3	3021		AREA	1307
			HEX2 7	DCW	#03	7	3	3024		AREA	1307
				DCW	@L@	7	1	3025		LIT	1308
				DCW	@01@	7	2	3027		LIT	1308
				DCW	@001@	7	3	3030		LIT	1308
			DL2 7	DCW	#02	7	2	3032		AREA	1308
				DCW	@B700@	7	4	3036		LIT	1308
				DCW	@#@	7	1	3037		LIT	1308
			HEX3 7	DCW	#03	7	3	3040		AREA	1308
				DCW	@|@	7	1	3041		LIT	1309
			BLK4 7	DCW	#04	7	4	3045		AREA	1309
			LEFT 7	DCW	#18	7	18	3063		AREA	1309
			OP 7	DCW	#01	7	1	3064		AREA	1309
				DCW	@&-*@.#@	7	6	3070		LIT	1309
			RIGHT7	DCW	#18	7	18	3088		AREA	1310
			CVT3 7	DCW	#03	7	3	3091		AREA	1310
				DCW	@0@	7	1	3092		LIT	1310
				DCW	&100	7	3	3095		LIT	1310
				DCW	@ARITH 5@	7	7	3102		LIT	1310
6976	52	54	AOP	EQU	RIGHT	7		3088			
6977	52	55	BOP	EQU	LEFT	7		3063			
6978	52	56	SYSGM	DCW	@}@ SYSTEM GROUP MARK	7	1	3103		GMARK	1310
6979	52	57		ORG	*&50	7			3154		
6980	52	58	NDRITH	EQU	*	7		3153			
6981	52	59		XFR	START	7			B 838		1311

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 SEQ PG LIN  LABEL  OP    OPERANDS                                        SFX CT  LOCN  INSTRUCTION TYPE  CARD
6982 52 60          JOB   ARITH PHASE FIVE                               7
6983 52 61          FBEGN ARITH 5,X1,,X2,,X3,,Y                          7                    MACRO
6984                SFX   Y                                             Y                    GEN
6985          110   DCW   @ARITH 5@                                      Y   7  0110          GEN   1314
6986          X1    EQU   089                                           Y      0089          GEN
6987          X2    EQU   094                                           Y      0094          GEN
6988          X3    EQU   099                                           Y      0099          GEN
6989 52 62          ORG   XBEGIN                                        Y           0838
6990 52 63   START  BCE   NOARI,X2,.                                    Y   8  0838  B U99 094 .       1315
6991 52 64          C     0&X2                                          Y   4  0846  C 0!0             1315
6992 52 65          SAR   X2                                            Y   4  0850  Q 094             1315
6993 52 66          SBR   SAVX3#3                                       Y   4  0854  H O89             1315
6994 52 67          C     0&X1                                          Y   4  0858  C 0|0             1315
6995 52 68          SAR   X1                                            Y   4  0862  Q 089             1315
6996 52 69   *  BEGINNING OF PROCESSING OF EACH STATEMENT
6997 52 70   NUSTM  MCW   0&X1,CODE                                      Y   7  0866  M 0|0 O86         1315
6998 52 71          MCW                                                 Y   1  0873  M                1316
6999 52 72          BCE   MVDWN,CODE-3,E                                Y   8  0874  B 894 O83 E       1316
7000 52 73          BCE   *&5,CODE-3,R                                  Y   8  0882  B 894 O83 R       1316
7001 52 74          B     FENDX                                         Y   4  0890  B U78             1316
7002 52 75   MVDWN  MVDWN X1,X2                                         Y                    MACRO
7003          MVDWN  LCA   0&X1,0&X2                                     Y   7  0894  L 0|0 0!0   GEN   1316
7004                SAR   X1                                            Y   4  0901  Q 089       GEN   1316
7005                C     0&X2                                          Y   4  0905  C 0!0       GEN   1316
7006                SAR   X2                                            Y   4  0909  Q 094       GEN   1317
7007 52 76          LCA   1&X2,2&X2                                     Y   7  0913  L 0!1 0!2         1317
7008 52 77          SBR   X2                                            Y   4  0920  H 094            1317
7009 52 78          CW    MODSW#1                                       Y   4  0924  ) O90            1317
7010 52 79          BCE   IFTYP,2&X1,E                                  Y   8  0928  B V22 0|2 E      1317
7011 52 80   CKXF   MVDWN X1,X2                                         Y                    MACRO
7012          CKXF   LCA   0&X1,0&X2                                     Y   7  0936  L 0|0 0!0   GEN   1317
7013                SAR   X1                                            Y   4  0943  Q 089       GEN   1317
7014                C     0&X2                                          Y   4  0947  C 0!0       GEN   1318
7015                SAR   X2                                            Y   4  0951  Q 094       GEN   1318
7016 52 81          SBR   X3,0&X1                                       Y   7  0955  H 099 0|0         1318
7017 52 82          SBR   HEX3#3                                        Y   4  0962  H O93            1318
7018 52 83          BCE   EOSTR,0&X1,}       GM                         Y   8  0966  B U21 0|0 } GMARK 1318
7019 52 84   *  GENERATE FIX OR FLOAT FUNCTION IF LEFT SIDE AND RIGHT
7020 52 85   *     SIDE ARE NOT OF SAME MODE
7021 52 86   NEXT   MN    0&X3,BCE5&7                                    Y   7  0974  D 0?0 999         1318
7022 52 87          MZ    0&X3,BCE5&7                                   Y   7  0981  Y 0?0 999         1319
7023 52 88          SAR   X3                                            Y   4  0988  Q 099            1319
7024 52 89   BCE5   BCE   GOTSQ,@&-@*.#@,0                             Y   8  0992  B |09 O99 0       1319
7025 52 90          CHAIN 5                                             Y                    MACRO
7026                BCE                                               Y   1  1000  B          GEN   1319
7027                BCE                                               Y   1  1001  B          GEN   1319
7028                BCE                                               Y   1  1002  B          GEN   1319
7029                BCE                                               Y   1  1003  B          GEN   1319
7030                BCE                                               Y   1  1004  B          GEN   1320
7031 52 91          B     NEXT                                          Y   4  1005  B 974            1320
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 SEQ PG LIN  LABEL  OP     OPERANDS                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD
7032 52 92   GOTSQ  BCE    WORRY,1&X3,.                               Y   8  1009  B /09 0?1 .       1320
7033 52 93          MZ     4&X3,OPMD#1                                Y   7  1017  Y 0?4 P00        1320
7034 52 94          BCE    SUB5,2&X3,$                                Y   8  1024  B /90 0?2 $      1320
7035 52 95          MZ     3&X3,OPMD                                  Y   7  1032  Y 0?3 P00        1320
7036 52 96   BMP4   SBR    X3,4&X3                                    Y   7  1039  H 099 0?4        1321
7037 52 97   CMP5   C      X3,HEX3                                    Y   7  1046  C 099 O93        1321
7038 52 98          BE     SCNEQ                                      Y   5  1053  B S16 S          1321
7039 52 99          SBR    X3,1&X3                                    Y   7  1058  H 099 0?1        1321
7040 53 00          FBCEQ  MODCH,0&X3,F,X                             Y                 MACRO
7041                BCE    MODCH, 0&X3, F                             Y   8  1065  B |85 0?0 F GEN   1321
7042                BCE    MODCH, 0&X3, X                             Y   8  1073  B |85 0?0 X GEN   1322
7043 53 01          B      CMP5                                       Y   4  1081  B |46             1322
7044 53 02   MODCH  BW     CW1,MODSW                                  Y   8  1085  V /01 O90 1       1322
7045 53 03          SW     MODSW                                      Y   4  1093  , O90            1322
7046 53 04          B      CMP5                                       Y   4  1097  B |46             1322
7047 53 05   CW1    CW     MODSW                                      Y   4  1101  ) O90            1322
7048 53 06          B      CMP5                                       Y   4  1105  B |46             1322
7049 53 07   WORRY  SBR    BMPUM&6,0&X3                               Y   7  1109  H /41 0?0        1323
7050 53 08          BCE    GRIEF,0&X3,$                               Y   8  1116  B /54 0?0 $      1323
7051 53 09          SBR    X3                                         Y   4  1124  H 099            1323
7052 53 10   SNDUM  MZ     0&X3,OPMD                                  Y   7  1128  Y 0?0 P00        1323
7053 53 11   BMPUM  SBR    X3,0                                       Y   7  1135  H 099 000        1323
7054 53 12          BCE    SUB5,2&X3,$                                Y   8  1142  B /90 0?2 $      1324
7055 53 13          B      BMP4                                       Y   4  1150  B |39             1324
7056 53 14   GRIEF  C      0&X3,BLK8                                  Y   7  1154  C 0?0 Q66        1324
7057 53 15          SAR    X3                                         Y   4  1161  Q 099            1324
7058 53 16          BCE    SNDUM,0&X3,$          DUMMY                Y   8  1165  B /28 0?0 $      1324
7059 53 17          B                DUMMY                            Y   1  1173  B               1324
7060 53 18          B                                                 Y   1  1174  B               1324
7061 53 19          C      0&X3,BLK6                                  Y   7  1175  C 0?0 Q72        1325
7062 53 20          SAR    X3                                         Y   4  1182  Q 099            1325
7063 53 21          B      SNDUM                                      Y   4  1186  B /28            1325
7064 53 22   SUB5   SBR    X3,12&X3                                   Y   7  1190  H 099 0A2        1325
7065 53 23          BCE    CMP5,0&X3,$                                Y   8  1197  B |46 0?0 $      1325
7066 53 24          SBR    X3,6&X3                                    Y   7  1205  H 099 0?6        1325
7067 53 25          B      CMP5                                       Y   4  1212  B |46             1326
7068 53 26   SCNEQ  BCE    GOTEQ,0&X3,#                               Y   8  1216  B S32 0?0 #      1326
7069 53 27          SBR    X3                                         Y   4  1224  H 099            1326
7070 53 28          B      SCNEQ                                      Y   4  1228  B S16            1326
7071 53 29   GOTEQ  MCW    0&X3,HLD18#18                              Y   7  1232  M 0?0 P18        1326
7072 53 30          BCE    SUB1,HLD18-1,$                             Y   8  1239  B O57 P17 $      1326
7073 53 31          MZ     HLD18-2,FSTMD#1                            Y   7  1247  Y P16 P19        1327
7074 53 32   NOWOP  BWZ    CKFIX,FSTMD,S                              Y   8  1254  V T40 P19 S      1327
7075 53 33          BWZ    CKFIX,FSTMD,K                              Y   8  1262  V T40 P19 K      1327
7076 53 34          BWZ    CKSWF,OPMD,2                               Y   8  1270  V T16 P00 2      1327
7077 53 35          BWZ    CKSWF,OPMD,B                               Y   8  1278  V T16 P00 B      1327
7078 53 36          BW     NOCVT,MODSW                                Y   8  1286  V T82 O90 1      1328
7079 53 37   MKFLT  MCW    @F@,0&X2                                   Y   7  1294  M P20 0!0        1328
7080 53 38          SBR    X2                                         Y   4  1301  H 094            1328
7081 53 39          CW     1&X2,XFLTFU                                Y   7  1305  ) 0!1 125        1328
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 SEQ PG LIN  LABEL  OP    OPERANDS                          SFX CT  LOCN  INSTRUCTION TYPE  CARD
7082 53 40          B     NOCVT                              Y   4  1312  B T82             1328
7083 53 41   CKSWF   BW    MKFLT,MODSW                        Y   8  1316  V S94 O90 1       1328
7084 53 42          B     NOCVT                              Y   4  1324  B T82             1329
7085 53 43   CKSWX   BW    MKFIX,MODSW                        Y   8  1328  V T64 O90 1       1329
7086 53 44          B     NOCVT                              Y   4  1336  B T82             1329
7087 53 45   CKFIX   BWZ   CKSWX,OPMD,S                      Y   8  1340  V T28 P00 S       1329
7088 53 46          BWZ   CKSWX,OPMD,K                      Y   8  1348  V T28 P00 K       1329
7089 53 47          BW    NOCVT,MODSW                        Y   8  1356  V T82 O90 1       1330
7090 53 48   MKFIX   MCW   @X@,0&X2                         Y   7  1364  M P21 0!0         1330
7091 53 49          SBR   X2                                 Y   4  1371  H 094             1330
7092 53 50          CW    1&X2,XFIXFU                        Y   7  1375  ) 0!1 124         1330
7093 53 51   SCAN    EQU   *&1                              Y      1382                    1330
7094 53 52   NOCVT   SBR   X3,0&X1                          Y   7  1382  H 099 0|0         1330
7095 53 53   SCAN2   BCE   EXPN,0&X1,.                      Y   8  1389  B Y08 0|0 .       1331
7096 53 54          BCE   DIV,0&X1,@                       Y   8  1397  B U63 0|0 @       1331
7097 53 55          BCE   EOSTR,0&X1,}          GM         Y   8  1405  B U21 0|0 } GMARK 1331
7098 53 56          SBR   X1                               Y   4  1413  H 089             1331
7099 53 57          B     SCAN2                            Y   4  1417  B T89             1331
7100 53 58   *  END OF STATEMENT ROUTINE
7101 53 59   EOSTR   MVDWN X3,X2                           Y                  MACRO
7102        EOSTR   LCA   0&X3,0&X2                        Y   7  1421  L 0?0 0!0  GEN   1331
7103                SAR   X3                               Y   4  1428  Q 099      GEN   1332
7104                C     0&X2                             Y   4  1432  C 0!0      GEN   1332
7105                SAR   X2                               Y   4  1436  Q 094      GEN   1332
7106 53 60          BCE   *&5,1&X3,}           GM         Y   8  1440  B U52 0?1 } GMARK 1332
7107 53 61          B     EOSTR                            Y   4  1448  B U21             1332
7108 53 62          SBR   X1,0&X3                         Y   7  1452  H 089 0?0         1332
7109 53 63          B     NUSTM                            Y   4  1459  B 866             1332
7110 53 64   *  SUBSTITUTE / FOR @ AS DIVIDE SYMBOL
7111 53 65   DIV     MCW   @/@,0&X1                        Y   7  1463  M P22 0|0         1333
7112 53 66          SBR   X1                               Y   4  1470  H 089             1333
7113 53 67          B     SCAN2                            Y   4  1474  B T89             1333
7114 53 68   FENDX   SBR   X1,5&X1                         Y   7  1478  H 089 0|5         1333
7115 53 69          MCW   SAVX3,X3                         Y   7  1485  M O89 099         1333
7116 53 70          SBR   X3,2&X3                         Y   7  1492  H 099 0?2         1333
7117 53 71   NOARI   FENDX C,,,,,,SYSGM,ARITH6            Y                  MACRO
7118        NOARI   BSS   333,C                           Y   5  1499  B 333 C   GEN   1334
7119                SBR   TCLEAR,SYSGM                    Y   7  1504  H 710 Q73 GEN   1334
7120                LCA   @ARITH6@,110                    Y   7  1511  L P28 110 GEN   1334
7121                B     MONTER                           Y   4  1518  B 700     GEN   1334
7122 53 72   *  GENERATE IF EXITS
7123 53 73   IFTYP   C     0&X1                             Y   4  1522  C 0|0             1334
7124 53 74          SAR   X1                               Y   4  1526  Q 089             1334
7125 53 75          MCW   9&X1,MINUS                       Y   7  1530  M 0|9 N08         1334
7126 53 76          MCW   6&X1,ZERO                        Y   7  1537  M 0|6 N00         1335
7127 53 77          MCW   3&X1,PLUS                        Y   7  1544  M 0|3 M92         1335
7128 53 78          MZ    @K@,MINUS-1                      Y   7  1551  Y P29 N07         1335
7129 53 79          MZ    @K@,ZERO-1                       Y   7  1558  Y P29 M99         1335
7130 53 80          MZ    @K@,PLUS-1                       Y   7  1565  Y P29 M91         1335
7131 53 81          MCW   PLUS,ELSE&3                     Y   7  1572  M M92 M88         1336
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 SEQ PG LIN  LABEL  OP    OPERANDS                SFX CT  LOCN  INSTRUCTION TYPE  CARD
7132 53 82          LCA   BLK20#20,HLD20          Y   7  1579  L P49 M84         1336
7133 53 83          SBR   X3,HLD20-20            Y   7  1586  H 099 M64         1336
7134 53 84          C     PLUS,ZERO               Y   7  1593  C M92 N00         1336
7135 53 85          BE    PZ                      Y   5  1600  B X79 S           1336
7136 53 86          C     ZERO,MINUS              Y   7  1605  C N00 N08         1337
7137 53 87          BE    MKPLS                   Y   5  1612  B W42 S           1337
7138 53 88          SBR   X3,8&X3                 Y   7  1617  H 099 0?8         1337
7139 53 89          MCW   IFZRO                   Y   4  1624  M N04             1337
7140 53 90          MCW                           Y   1  1628  M                 1337
7141 53 91          LCA                           Y   1  1629  L                 1337
7142 53 92          C     PLUS,MINUS              Y   7  1630  C M92 N08         1337
7143 53 93          BE    MVLS                    Y   5  1637  B W62 S           1338
7144 53 94   MKPLS  SBR   X3,8&X3                 Y   7  1642  H 099 0?8         1338
7145 53 95          MCW   IFPLS                   Y   4  1649  M M96             1338
7146 53 96          MCW                           Y   1  1653  M                 1338
7147 53 97          LCA                           Y   1  1654  L                 1338
7148 53 98          MCW   MINUS,ELSE&3            Y   7  1655  M N08 M88         1338
7149 53 99   MVLS   MCW   X3,HEX3                 Y   7  1662  M 099 O93         1338
7150 54 00          BWZ   *&5,CODE,2              Y   8  1669  V W81 O86 2       1339
7151 54 01          B     *&9                     Y   4  1677  B W89             1339
7152 54 02          BWZ   LSADD,CODE-2,2         Y   8  1681  V X03 O84 2       1339
7153 54 03          MCW   CODE,X3                 Y   7  1689  M O86 099         1339
7154 54 04          MCW   0&X3,CODE               Y   7  1696  M 0?0 O86         1339
7155 54 05   LSADD  A     &1,CODE                 Y   7  1703  A P50 O86         1340
7156 54 06          MCW   ELSE&3,X3               Y   7  1710  M M88 099         1340
7157 54 07          C     0&X3,CODE               Y   7  1717  C 0?0 O86         1340
7158 54 08          MCW   HEX3,X3                 Y   7  1724  M O93 099         1340
7159 54 09          BE    NOBR                    Y   5  1731  B X48 S           1340
7160 54 10   ALL3   SBR   X3,4&X3                 Y   7  1736  H 099 0?4         1341
7161 54 11          MCW   ELSE&3                  Y   4  1743  M M88             1341
7162 54 12          LCA                           Y   1  1747  L                 1341
7163 54 13   NOBR   MVDWN X3,X2                   Y                        MACRO
7164        NOBR    LCA   0&X3,0&X2               Y   7  1748  L 0?0 0!0   GEN   1341
7165                SAR   X3                      Y   4  1755  Q 099      GEN   1341
7166                C     0&X2                    Y   4  1759  C 0!0      GEN   1341
7167                SAR   X2                      Y   4  1763  Q 094      GEN   1341
7168 54 14          BCE   CKXF,0&X3,|             Y   8  1767  B 936 0?0 |       1342
7169 54 15          B     NOBR                    Y   4  1775  B X48             1342
7170 54 16   PZ     C     PLUS,MINUS              Y   7  1779  C M92 N08         1342
7171 54 17          BE    ALL3                    Y   5  1786  B X36 S           1342
7172 54 18          SBR   X3,8&X3                 Y   7  1791  H 099 0?8         1342
7173 54 19          MCW   IFMNS                   Y   4  1798  M N12             1342
7174 54 20          MCW                           Y   1  1802  M                 1342
7175 54 21          LCA                           Y   1  1803  L                 1343
7176 54 22          B     MVLS                    Y   4  1804  B W62             1343
7177 54 23   *  PROCESS EXPONENTIATION
7178 54 24   EXPN   SW    1&X1                    Y   4  1808  , 0|1             1343
7179 54 25          BCE   XSUB,1&X1,$             Y   8  1812  B N13 0|1 $       1343
7180 54 26          LCA   3&X1,XPON#17            Y   7  1820  L 0|3 P67         1343
7181 54 27          MZ    2&X1,XPMOD#1            Y   7  1827  Y 0|2 P68         1343
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 SEQ PG LIN  LABEL  OP    OPERANDS                                    SFX CT  LOCN  INSTRUCTION TYPE  CARD
7182 54 28          SBR   HEX31#3,3&X1                                Y   7  1834  H P71 0|3       1343
7183 54 29          C     HEX31,X3                                    Y   7  1841  C P71 099       1344
7184 54 30          BE    SKIP                                        Y   5  1848  B Y80 S         1344
7185 54 31          SW    4&X1                                        Y   4  1853  , 0|4           1344
7186 54 32   MVBAL  MVDWN X3,X2                                       Y                  MACRO
7187         MVBAL  LCA   0&X3,0&X2                                   Y   7  1857  L 0?0 0!0  GEN   1344
7188                SAR   X3                                          Y   4  1864  Q 099      GEN   1344
7189                C     0&X2                                        Y   4  1868  C 0!0      GEN   1344
7190                SAR   X2                                          Y   4  1872  Q 094      GEN   1344
7191 54 33          CW    1&X2                                        Y   4  1876  ) 0!1           1345
7192 54 34   SKIP   C     0&X1,BLK4#4                                 Y   7  1880  C 0|0 P75       1345
7193 54 35          SAR   X1                                          Y   4  1887  Q 089           1345
7194 54 36          BCE   BSUB,3&X1,$                                Y   8  1891  B N78 0|3 $     1345
7195 54 37          MZ    2&X1,BMOD#1                                 Y   7  1899  Y 0|2 P76       1345
7196 54 38          SW    1&X1                                        Y   4  1906  , 0|1           1345
7197 54 39   LOAD   LCA   3&X1,BASE#17                               Y   7  1910  L 0|3 P93       1346
7198 54 40          SAR   X1                                          Y   4  1917  Q 089           1346
7199 54 41          BWZ   FIXXP,XPMOD,S                             Y   8  1921  V !77 P68 S     1346
7200 54 42          BWZ   FIXXP,XPMOD,K                             Y   8  1929  V !77 P68 K     1346
7201 54 43          CW    XLOGFN,XXPNTL                               Y   7  1937  ) 119 120       1346
7202 54 44          CW    XCOMF1                                      Y   4  1944  ) 117           1346
7203 54 45   *  PROCESS FLOATING EXPONENTIATION
7204 54 46          BWZ   FLT,BMOD,2                                 Y   8  1948  V !32 P76 2     1347
7205 54 47          BWZ   FLT,BMOD,B                                 Y   8  1956  V !32 P76 B     1347
7206 54 48          BWZ   *&5,CODE,2                                 Y   8  1964  V Z76 O86 2     1347
7207 54 49          B     *&9                                         Y   4  1972  B Z84           1347
7208 54 50          BWZ   FTMSG,CODE-2,2                            Y   8  1976  V Z98 O84 2     1347
7209 54 51          MCW   CODE,X3                                    Y   7  1984  M O86 099       1348
7210 54 52          MCW   0&X3,CODE                                  Y   7  1991  M 0?0 O86       1348
7211 54 53   FTMSG  FTMSG 30,FIX TO FLOAT POWER,CODE,20               Y                  MACRO
7212         FTMSG  CS    332                                         Y   4  1998  / 332      GEN   1348
7213                CS                                               Y   1  2002  /          GEN   1348
7214                SW    FAILSW                                      Y   4  2003  , 184      GEN   1348
7215                MN    CODE,224&20                                 Y   7  2007  D O86 244  GEN   1348
7216                MN                                               Y   1  2014  D          GEN   1348
7217                MN                                               Y   1  2015  D          GEN   1349
7218                MCW   @ERROR 30 - FIX TO FLOAT POWER, STATEMENT @ Y   4  2016  M Q34      GEN   1349
7219                W                                                Y   1  2020  2          GEN   1349
7220                BCV   *&5                                         Y   5  2021  B !30 @    GEN   1349
7221                B     *&3                                         Y   4  2026  B !32      GEN   1349
7222                CC    1                                           Y   2  2030  F 1        GEN   1349
7223 54 54   FLT    LCA   @E@,0&X2                                   Y   7  2032  L Q35 0!0       1349
7224 54 55          LCA   XPON                                        Y   4  2039  L P67           1350
7225 54 56          LCA   @G*@                                       Y   4  2043  L Q37           1350
7226 54 57          SBR   X2                                          Y   4  2047  H 094           1350
7227 54 58          CW    3&X2,1&X1                                   Y   7  2051  ) 0!3 0|1       1350
7228 54 59          LCA   BASE,0&X2                                   Y   7  2058  L P93 0!0       1350
7229 54 60          SBR   X2                                          Y   4  2065  H 094           1350
7230 54 61          CW    1&X2                                        Y   4  2069  ) 0!1           1350
7231 54 62          B     SCAN                                        Y   4  2073  B T82           1351
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 SEQ PG LIN  LABEL  OP    OPERANDS                                SFX CT  LOCN  INSTRUCTION TYPE  CARD

7232 54 63    *  PROCESS FIXED POINT EXPONENTIATION
7233 54 64    FIXXP  BWZ   SWEAT,XPMOD,K                          Y   8  2077  V K54 P68 K       1351
7234 54 65           BCE   SWEAT,XPON-2,<    12-6-8               Y   8  2085  B K54 P65 <       1351
7235 54 66           MCW   XPON,X3                                Y   7  2093  M P67 099        1351
7236 54 67           MA    PLUSDF,X3                             Y   7  2100  # 160 099        1351
7237 54 68           C     @3@,0&X3                              Y   7  2107  C Q38 0?0        1352
7238 54 69           BH    SWEAT                                 Y   5  2114  B K54 U          1352
7239 54 70           LCA   BASE,0&X2                            Y   7  2119  L P93 0!0        1352
7240 54 71           LCA   @*@                                   Y   4  2126  L Q39            1352
7241 54 72           SBR   X2                                    Y   4  2130  H 094            1352
7242 54 73           SBR   SAV2#3                                Y   4  2134  H Q42            1352
7243 54 74           CW    1&X2,2&X2                             Y   7  2138  ) 0!1 0!2        1352
7244 54 75           LCA   BASE,0&X2                            Y   7  2145  L P93 0!0        1353
7245 54 76           SBR   X2                                    Y   4  2152  H 094            1353
7246 54 77           CW    1&X2                                  Y   4  2156  ) 0!1            1353
7247 54 78           BCE   HUH,0&X3,0                            Y   8  2160  B K18 0?0 0      1353
7248 54 79           BCE   HUH2,0&X3,1                           Y   8  2168  B K36 0?0 1      1353
7249 54 80           BCE   SCAN,0&X3,2                           Y   8  2176  B T82 0?0 2      1353
7250 54 81           LCA   @*@,0&X2                              Y   7  2184  L Q39 0!0        1354
7251 54 82           SBR   X2                                    Y   4  2191  H 094            1354
7252 54 83           CW    1&X2                                  Y   4  2195  ) 0!1            1354
7253 54 84           LCA   BASE,0&X2                            Y   7  2199  L P93 0!0        1354
7254 54 85           SBR   X2                                    Y   4  2206  H 094            1354
7255 54 86           CW    1&X2                                  Y   4  2210  ) 0!1            1354
7256 54 87           B     SCAN                                  Y   4  2214  B T82            1354
7257 54 88    HUH    MCW   SAV2,X3                               Y   7  2218  M Q42 099        1355
7258 54 89           MCW   @/@,1&X3                              Y   7  2225  M P22 0?1        1355
7259 54 90           B     SCAN                                  Y   4  2232  B T82            1355
7260 54 91    HUH2   MCW   SAV2,X2                               Y   7  2236  M Q42 094        1355
7261 54 92           SBR   X2,1&X2                               Y   7  2243  H 094 0!1        1355
7262 54 93           B     SCAN                                  Y   4  2250  B T82            1355
7263 54 94    SWEAT  CW    XLOGFN,XXPNTL                         Y   7  2254  ) 119 120        1356
7264 54 95           CW    XCOMF1,XFLTFU                         Y   7  2261  ) 117 125        1356
7265 54 96           BWZ   CTU1,BMOD,2                           Y   8  2268  V L21 P76 2      1356
7266 54 97           BWZ   CTU1,BMOD,B                           Y   8  2276  V L21 P76 B      1356
7267 54 98           LCA   @X@,0&X2                            Y   7  2284  L P21 0!0        1356
7268 54 99           SBR   X2                                    Y   4  2291  H 094            1357
7269 55 00           CW    0&X2,XFIXFU                           Y   7  2295  ) 0!0 124        1357
7270 55 01           LCA   XEXPON,0&X2                          Y   7  2302  L 157 0!0        1357
7271 55 02           LCA   @&@                                   Y   4  2309  L Q43            1357
7272 55 03           SBR   X2                                    Y   4  2313  H 094            1357
7273 55 04           CW    2&X2                                  Y   4  2317  ) 0!2            1357
7274 55 05    CTU1   LCA   @E@,0&X2                            Y   7  2321  L Q35 0!0        1357
7275 55 06           LCA   @F*<4?@          F,*,12-6-8,4,12-0    Y   4  2328  L Q48            1358
7276 55 07           LCA   XPON                                  Y   4  2332  L P67            1358
7277 55 08           SBR   X2                                    Y   4  2336  H 094            1358
7278 55 09           CW    1&X2                                  Y   4  2340  ) 0!1            1358
7279 55 10           C     0&X1,BLK4                             Y   7  2344  C 0|0 P75         1358
7280 55 11           SAR   X3                                    Y   4  2351  Q 099            1358
7281 55 12           BCE   FSUB,3&X3,$                          Y   8  2355  B O23 0?3 $      1358
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SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
7282	55	13	SWM	SW	1&X3	Y	4	2363	, 0?1		1359
7283	55	14		MVDWN	X1,X2	Y				MACRO	
7284				LCA	0&X1,0&X2	Y	7	2367	L 0|0 0!0	GEN	1359
7285				SAR	X1	Y	4	2374	Q 089	GEN	1359
7286				C	0&X2	Y	4	2378	C 0!0	GEN	1359
7287				SAR	X2	Y	4	2382	Q 094	GEN	1359
7288	55	15		CW	1&X2	Y	4	2386	) 0!1		1359
7289	55	16		LCA	@G|@	Y	4	2390	L Q50		1359
7290	55	17		SBR	X2	Y	4	2394	H 094		1360
7291	55	18		BWZ	BSFLT,BMOD,2	Y	8	2398	V M25 P76 2		1360
7292	55	19		BWZ	BSFLT,BMOD,B	Y	8	2406	V M25 P76 B		1360
7293	55	20		LCA	@F@,0&X2	Y	7	2414	L P20 0!0		1360
7294	55	21		SBR	X2	Y	4	2421	H 094		1360
7295	55	22	BSFLT	LCA	BASE,0&X2	Y	7	2425	L P93 0!0		1360
7296	55	23		LCA	@<4?#@	Y	4	2432	L Q54		1361
7297	55	24		SBR	X2	Y	4	2436	H 094		1361
7298	55	25		CW	5&X2	Y	4	2440	) 0!5		1361
7299	55	26		C	0&X1,@B700@	Y	7	2444	C 0|0 Q58		1361
7300	55	27		BE	SCAN	Y	5	2451	B T82 S		1361
7301	55	28		CW	1&X2	Y	4	2456	) 0!1		1361
7302	55	29		B	SCAN	Y	4	2460	B T82		1361
7303	55	30		DCW	@|@	Y	1	2464			1362
7304	55	31	HLD20	DCW	#20	Y	20	2484			1362
7305	55	32	ELSE	B		Y	1	2485	B		1362
7306	55	33		DCW	#3	Y	3	2488			1362
7307	55	34		BWZ		Y	1	2489	V		1362
7308	55	35	PLUS	DCW	#3	Y	3	2492			1362
7309	55	36		DSA	277&X3	Y	3	2495	2G7		1362
7310	55	37	IFPLS	DC	@B@	Y	1	2496			1362
7311	55	38		BCE		Y	1	2497	B		1363
7312	55	39	ZERO	DCW	#3	Y	3	2500			1363
7313	55	40		DSA	280	Y	3	2503	280		1363
7314	55	41	IFZRO	DC	@0@	Y	1	2504			1363
7315	55	42		BWZ		Y	1	2505	V		1363
7316	55	43	MINUS	DCW	#3	Y	3	2508			1363
7317	55	44		DSA	277&X3	Y	3	2511	2G7		1363
7318	55	45	IFMNS	DC	@K@	Y	1	2512			1363
7319	55	46	XSUB	MZ	3&X1,XPMOD	Y	7	2513	Y 0|3 P68		1363
7320	55	47		SBR	X1,11&X1	Y	7	2520	H 089 0/1		1364
7321	55	48		BCE	GOTSB,0&X1,$	Y	8	2527	B N42 0|0 $		1364
7322	55	49		SBR	X1,6&X1	Y	7	2535	H 089 0|6		1364
7323	55	50	GOTSB	C	X1,X3	Y	7	2542	C 089 099		1364
7324	55	51		BE	*&5	Y	5	2549	B N58 S		1364
7325	55	52		SW	1&X1	Y	4	2554	, 0|1		1364
7326	55	53		LCA	0&X1,XPON	Y	7	2558	L 0|0 P67		1365
7327	55	54		SAR	X1	Y	4	2565	Q 089		1365
7328	55	55		BE	SKIP	Y	5	2569	B Y80 S		1365
7329	55	56		B	MVBAL	Y	4	2574	B Y57		1365
7330	55	57	BSUB	C	0&X1,BLK8#8	Y	7	2578	C 0|0 Q66		1365
7331	55	58		SAR	X3	Y	4	2585	Q 099		1365

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
7332	55	59		BCE	GTSUB,1&X3,$	Y	8	2589	B O08 0?1 $		1365
7333	55	60		C	0&X3,BLK6	Y	7	2597	C 0?0 Q72		1366
7334	55	61		SAR	X3	Y	4	2604	Q 099		1366
7335	55	62	GTSUB	MZ	3&X3,BMOD	Y	7	2608	Y 0?3 P76		1366
7336	55	63		SW	1&X3	Y	4	2615	, 0?1		1366
7337	55	64		B	LOAD	Y	4	2619	B Z10		1366
7338	55	65	FSUB	C	0&X3,BLK8	Y	7	2623	C 0?0 Q66		1366
7339	55	66		SAR	X3	Y	4	2630	Q 099		1366
7340	55	67		BCE	SWM,1&X3,$	Y	8	2634	B L63 0?1 $		1367
7341	55	68		C	0&X3,BLK6#6	Y	7	2642	C 0?0 Q72		1367
7342	55	69		SAR	X3	Y	4	2649	Q 099		1367
7343	55	70		B	SWM	Y	4	2653	B L63		1367
7344	55	71	SUB1	MZ	HLD18-9,FSTMD	Y	7	2657	Y P09 P19		1367
7345	55	72		BCE	NOWOP,HLD18-11,$	Y	8	2664	B S54 P07 $		1367
7346	55	73		MZ	HLD18-15,FSTMD	Y	7	2672	Y P03 P19		1368
7347	55	74		B	NOWOP	Y	4	2679	B S54		1368
7348	55	75		DCW	#1	Y	1	2683			1368
7349	55	76	CODE	DCW	#3	Y	3	2686			1368
7350	55	77		LTORG	*	Y		2687			
			SAVX3Y	DCW	#03	Y	3	2689		AREA	1368
			MODSWY	DCW	#01	Y	1	2690		AREA	1368
			HEX3 Y	DCW	#03	Y	3	2693		AREA	1368
				DCW	@&-@*.#@	Y	6	2699		LIT	1369
			OPMD Y	DCW	#01	Y	1	2700		AREA	1369
			HLD18Y	DCW	#18	Y	18	2718		AREA	1369
			FSTMDY	DCW	#01	Y	1	2719		AREA	1369
				DCW	@F@	Y	1	2720		LIT	1369
				DCW	@X@	Y	1	2721		LIT	1369
				DCW	@/@	Y	1	2722		LIT	1369
				DCW	@ARITH6@	Y	6	2728		LIT	1370
				DCW	@K@	Y	1	2729		LIT	1370
			BLK20Y	DCW	#20	Y	20	2749		AREA	1370
				DCW	&1	Y	1	2750		LIT	1370
			XPON Y	DCW	#17	Y	17	2767		AREA	1371
			XPMODY	DCW	#01	Y	1	2768		AREA	1371
			HEX31Y	DCW	#03	Y	3	2771		AREA	1371
			BLK4 Y	DCW	#04	Y	4	2775		AREA	1371
			BMOD Y	DCW	#01	Y	1	2776		AREA	1371
			BASE Y	DCW	#17	Y	17	2793		AREA	1372
				DCW	@ERROR 30 - FIX TO FLOAT POWER, STATEMENT @	Y	41	2834		LIT	1374
				DCW	@E@	Y	1	2835		LIT	1374
				DCW	@G*@	Y	2	2837		LIT	1374
				DCW	@3@	Y	1	2838		LIT	1374
				DCW	@*@	Y	1	2839		LIT	1374
			SAV2 Y	DCW	#03	Y	3	2842		AREA	1375
				DCW	@&@	Y	1	2843		LIT	1375
				DCW	@F*<4?@	Y	5	2848		LIT	1375
				DCW	@G|@	Y	2	2850		LIT	1375
				DCW	@<4?#@	Y	4	2854		LIT	1375
				DCW	@B700@	Y	4	2858		LIT	1375

SEQ	PG	LIN	LABEL		OP	OPERANDS		SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
			BLK8	Y	DCW	#08		Y	8	2866		AREA	1375
			BLK6	Y	DCW	#06		Y	6	2872		AREA	1376
7351	55	78	SYSGM		DCW	@}@	SYSTEM GROUP MARK	Y	1	2873		GMARK	1376
7352	55	79			XFR	START		Y			B 838		1377

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 SEQ PG LIN  LABEL  OP    OPERANDS                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD
7353 55 80           JOB   FORTRAN ARITH PHASE SIX                   Y
7354 55 81           FBEGN ARITH SIX,X1,,X2,,X3,,S                   Y                    MACRO
7355                 SFX   S                                         S                    GEN
7356          110    DCW   @ARITH SIX@                               S   9  0110          GEN   1380
7357          X1     EQU   089                                       S      0089          GEN
7358          X2     EQU   094                                       S      0094          GEN
7359          X3     EQU   099                                       S      0099          GEN
7360 55 82    NXTOP  EQU   086                                       S      0086
7361 55 83           ORG   XBEGIN                                    S            0838
7362 55 84    INISH  BCE   FENDX,X2,.                                S   8  0838  B S51 094 .       1381
7363 55 85           SBR   HEX2#3,0&X2                               S   7  0846  H N43 0!0         1381
7364 55 86           MN    0&X3                                      S   4  0853  D 0?0             1381
7365 55 87           MN                                              S   1  0857  D                 1381
7366 55 88           SAR   NOMO#3                                    S   4  0858  Q N46             1381
7367 55 89           SBR   HEX1#3,0&X1                               S   7  0862  H N49 0|0         1381
7368 55 90           MCW   NXTOP,MXTMP                               S   7  0869  M 086 N78         1381
7369 55 91           MCW   PARAMA&6,TMPSZ#3                          S   7  0876  M 692 N52         1382
7370 55 92           MN    &0,TMPSZ-2                                S   7  0883  D N53 N50         1382
7371 55 93           A     &2,TMPSZ                                  S   7  0890  A N54 N52         1382
7372 55 94           C     TMPSZ,PARAMA&4                            S   7  0897  C N52 690         1382
7373 55 95           BL    START                                     S   5  0904  B 916 T           1382
7374 55 96           MCW   PARAMA&4,TMPSZ                           S   7  0909  M 690 N52         1383
7375 55 97    START  C     X2,NOMO                                   S   7  0916  C 094 N46         1383
7376 55 98           BE    DUN                                       S   5  0923  B S21 S           1383
7377 55 99           MCW   TABLE&165,TABLE&164                       S   7  0928  M N06 N05         1383
7378 56 00    GETUM  BCE   GOTUM,2&X2,<         DELTA   12-6-8      S   8  0935  B 959 0!2 <       1383
7379 56 01           SBR   X2                                        S   4  0943  H 094             1383
7380 56 02           BCE   NXGUY,1&X2,}         GM                  S   8  0947  B S10 0!1 } GMARK 1384
7381 56 03           B     GETUM                                     S   4  0955  B 935             1384
7382 56 04    GOTUM  MN    4&X2,DLVAL#3                              S   7  0959  D 0!4 N57         1384
7383 56 05           MN                                              S   1  0966  D                 1384
7384 56 06           MCW   @0@                                       S   4  0967  M N58             1384
7385 56 07           BWZ   BMPUM,4&X2,2                              S   8  0971  V |16 0!4 2       1384
7386 56 08           A     &100,DLVAL                                S   7  0979  A N61 N57         1384
7387 56 09           BWZ   BMPUM,4&X2,S                              S   8  0986  V |16 0!4 S       1385
7388 56 10           A     &100,DLVAL                                S   7  0994  A N61 N57         1385
7389 56 11           BWZ   BMPUM,4&X2,K                              S   8  1001  V |16 0!4 K       1385
7390 56 12           A     &100,DLVAL                                S   7  1009  A N61 N57         1385
7391 56 13    BMPUM  MCW   DLVAL,X3                                  S   7  1016  M N57 099         1385
7392 56 14           A     X3                                        S   4  1023  A 099             1386
7393 56 15           A     DLVAL,X3                                  S   7  1027  A N57 099         1386
7394 56 16           BCE   ASSGN,5&X2,#                              S   8  1034  B |60 0!5 #       1386
7395 56 17           MCW   MATRX-1&X3,X1                            S   7  1042  M TA7 089         1386
7396 56 18           MCW   @|@,TABLE-1&X1                           S   7  1049  M N62 LU0         1386
7397 56 19           B     CMPAD                                     S   4  1056  B |89             1386
7398 56 20    ASSGN  MCM   TABLE                                     S   4  1060  P L41             1387
7399 56 21           SAR   X1                                        S   4  1064  Q 089             1387
7400 56 22           MA    -TABLE,X1                                 S   7  1068  # N65 089         1387
7401 56 23           MCW   *-6,TABLE-1&X1                           S   7  1075  M |75 LU0         1387
7402 56 24           MCW   X1,MATRX-1&X3                            S   7  1082  M 089 TA7         1387
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 SEQ PG LIN  LABEL  OP    OPERANDS                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD
7403 56 25   CMPAD  ZA    X1,ACCUM-4                                 S   7  1089  ? 089 N68        1387
7404 56 26          M     TMPSZ,ACCUM#7                              S   7  1096  @ N52 N72       1388
7405 56 27          SW    ACCUM-4                                    S   4  1103  , N68          1388
7406 56 28          FPACK ACCUM,4&X2,X3                              S                MACRO
7407                INCLD ZONES                                      S                MACRO
7408                MN    ACCUM,4&X2                                 S   7  1107  D N72 0!4  GEN   1388
7409                MN                                               S   1  1114  D          GEN   1388
7410                MN                                               S   1  1115  D          GEN   1388
7411                SAR   *&4                                        S   4  1116  Q /23       GEN   1388
7412                MCW   0,X3                                       S   7  1120  M 000 099   GEN   1388
7413                MCW   @0@                                        S   4  1127  M N58      GEN   1389
7414                A     X3                                         S   4  1131  A 099      GEN   1389
7415                MZ    ZONES&1&X3,4&X2                            S   7  1135  Y NA0 0!4  GEN   1389
7416                CW                                               S   1  1142  )          GEN   1389
7417                SBR   *&7                                        S   4  1143  H /53      GEN   1389
7418                MZ    ZONES&X3, 0                                S   7  1147  Y N?9 000  GEN   1389
7419 56 29          CW    ACCUM-4                                    S   4  1154  ) N68          1389
7420 56 30          MA    NXTOP,4&X2                                 S   7  1158  # 086 0!4      1390
7421 56 31          C     X1,HYTEST#3                                S   7  1165  C 089 N75      1390
7422 56 32          BH    GOBAK                                      S   5  1172  B /99 U        1390
7423 56 33          MCW   X1,HYTEST                                  S   7  1177  M 089 N75      1390
7424 56 34          MCW   4&X2,MXTMP#3                              S   7  1184  M 0!4 N78      1390
7425 56 354         BWZ   TSTZN,MXTMP,2                        V3M4 S   8  1191  V T06 N78 2    1391
7426 56 36   GOBAK  SBR   X2,3&X2                                   S   7  1199  H 094 0!3      1391
7427 56 37          B     GETUM                                      S   4  1206  B 935          1391
7428 56 38   NXGUY  SBR   X2,4&X2                                   S   7  1210  H 094 0!4      1391
7429 56 39          B     START                                      S   4  1217  B 916          1391
7430 56 40   DUN    MCW   HEX2,X3                                   S   7  1221  M N43 099      1391
7431 56 41          MCW   HEX1,X1                                   S   7  1228  M N49 089      1392
7432 56 42          C     0&X1                                       S   4  1235  C 0|0          1392
7433 56 43          C                                                S   1  1239  C              1392
7434 56 44          SAR   X1                                         S   4  1240  Q 089          1392
7435 56 45          MCW   MXTMP,NXTOP                              S   7  1244  M N78 086      1392
7436 56 46   FENDX  FENDX D,,,,,,SYS6,I/O TWO                       S                MACRO
7437        FENDX  BSS   333,D                                      S   5  1251  B 333 D    GEN   1392
7438                SBR   TCLEAR,SYS6                               S   7  1256  H 710 O22  GEN   1392
7439                LCA   @I/O TWO@,110                            S   7  1263  L N85 110  GEN   1393
7440                B     MONTER                                     S   4  1270  B 700      GEN   1393
7441 56 47   BLWUP  BW    GOBAK,LGSW                                 S   8  1274  V /99 N07 1    1393
7442 56 48          CS    332                                        S   4  1282  / 332          1393
7443 56 49          CS                                               S   1  1286  /              1393
7444 56 50          MLC   @MESSAGE 2 - OBJECT PROGRAM TOO LARGE@,270  S   7  1287  M O21 270      1393
7445 56 51          W                                                S   1  1294  2              1393
7446 56 52          SW    FAILSW,LGSW                                S   7  1295  , 184 N07      1394
7447 56 53          B     GOBAK                                      S   4  1302  B /99          1394
7448 56 531  TSTZN  BWZ   BLWUP,MXTMP-2,2                     V3M4 S   8  1306  V S74 N76 2    1394
7449 56 532         B     GOBAK                                V3M4 S   4  1314  B /99          1394
7450 56 54   MATRX  DA    1X1023                                     S      1318   2340           1394
7451 56 55   TABLE  DA    1X165,|                                    S      2341   2506           1394
                    DC    @|@                                        S   1  2506           RMARK 1395
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 SEQ PG LIN  LABEL   OP    OPERANDS                                          SFX CT  LOCN  INSTRUCTION TYPE  CARD
7452 56 56   LGSW    DC    #1                                                 S   1  2507              1395
7453 56 57           ORG   *                                                  S          2508
7454                 LTORG *    WVS: AUTOCODER SHOULDN'T LOAD INCLD AT ORG    S          2508
7455                 DCW   #1                                                 S   1  2508        GEN   1395
7456           ZONES DC    9                                                  S   1  2509        GEN   1395
7457                 DCW   @9Z9R9I99ZZZRZIZ9RZRRRIR9IZIRIII@                  S  31  2540        GEN   1395
               *        LTORG*                                                                    GEN
               HEX2 S DCW   #03                                               S   3  2543        AREA  1395
               NOMO S DCW   #03                                               S   3  2546        AREA  1396
               HEX1 S DCW   #03                                               S   3  2549        AREA  1396
               TMPSZS DCW   #03                                               S   3  2552        AREA  1396
                      DCW   &0                                                S   1  2553        LIT   1396
                      DCW   &2                                                S   1  2554        LIT   1396
               DLVALS DCW   #03                                               S   3  2557        AREA  1396
                      DCW   @0@                                               S   1  2558        LIT   1396
                      DCW   &100                                              S   3  2561        LIT   1397
                      DCW   @|@                                               S   1  2562        LIT   1397
                      DCW   -TABLES                                           S   3  2565  W5I   ADCON 1397
               ACCUMS DCW   #07                                               S   7  2572        AREA  1397
               HYTEST DCW   #03                                               S   3  2575        AREA  1397
               MXTMPS DCW   #03                                               S   3  2578        AREA  1397
                      DCW   @I/O TWO@                                         S   7  2585        LIT   1397
                      DCW   @MESSAGE 2 - OBJECT PROGRAM TOO LARGE@            S  36  2621        LIT   1398
7458 56 58   SYS6    DCW   @}@        SYSTEM AND WORK GROUP MARK             S   1  2622        GMARK 1398
7459 56 59           XFR   INISH                                              S          B 838        1399
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 SEQ PG LIN  LABEL  OP    OPERANDS                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD
7460 56 60          JOB   1401 FORTRAN  INPUT/OUTPUT PHASE TWO      S
7461 56 61          FBEGN I/O TWO,X1,,X2,R,X3,,U                    S                      MACRO
7462                SFX   U                                         U                      GEN
7463          110   DCW   @I/O TWO@                                 U   7  0110            GEN   1402
7464          X1    EQU   089                                       U      0089            GEN
7465          X2    EQU   094                                       U      0094            GEN
7466          094   DCW   000                                       U   3  0094            GEN   1403
7467          096   DC    00                                        U   2  0096            GEN   1403
7468          X3    EQU   099                                       U      0099            GEN
7469 56 62          ORG   XBEGIN                                    U          0838
7470 56 63  START   BCE   OUT,0&X1,                                 U   8  0838  B 870 0|0         1404
7471 56 64          MCW   0&X1,CODE#4                               U   7  0846  M 0|0 S30         1404
7472 56 65          MCW   CODE-3,*&8                                U   7  0853  M S27 867         1404
7473 56 66          BCE   WORK,@BZN@,0              D CHAR INITIALIZED U   8  0860  B 893 S33 0       1404
7474 56 67          BCE                                             U   1  0868  B               1404
7475 56 68          BCE                                             U   1  0869  B               1404
7476 56 69  OUT     FENDX C,,,,,,SYS1,CGOTO                         U                      MACRO
7477        OUT     BSS   333,C                                     U   5  0870  B 333 C     GEN   1404
7478                SBR   TCLEAR,SYS1                               U   7  0875  H 710 T24   GEN   1405
7479                LCA   @CGOTO@,110                               U   7  0882  L S38 110   GEN   1405
7480                B     MONTER                                    U   4  0889  B 700       GEN   1405
7481 56 70  WORK    MCW   @B@,IOCW                                  U   7  0893  M S39 S26         1405
7482 56 71          MCW   @<@,2&X1                  12-6-8          U   7  0900  M S40 0|2         1405
7483 56 72          SBR   KLOBR&6,2&X1                             U   7  0907  H /23 0|2         1405
7484 56 73          BCE   CTU1,CODE-3,B                           U   8  0914  B 944 S27 B       1406
7485 56 74          MCW   @R@,IOCW                                 U   7  0922  M S41 S26         1406
7486 56 75          BCE   CTU1,CODE-3,Z                           U   8  0929  B 944 S27 Z       1406
7487 56 76          MCW   @M@,IOCW                                 U   7  0937  M S42 S26         1406
7488 56 77  CTU1    MVDWN X1,X3                                     U                      MACRO
7489        CTU1    LCA   0&X1,0&X3                               U   7  0944  L 0|0 0?0   GEN   1406
7490                SAR   X1                                      U   4  0951  Q 089       GEN   1407
7491                C     0&X3                                    U   4  0955  C 0?0       GEN   1407
7492                SAR   X3                                      U   4  0959  Q 099       GEN   1407
7493 56 78          LCA   1&X1,2&X3                               U   7  0963  L 0|1 0?2         1407
7494 56 79          SBR   X3                                      U   4  0970  H 099            1407
7495 56 80          BWZ   *&5,CODE,2                             U   8  0974  V 986 S30 2       1407
7496 56 81          B     CHNG                                    U   4  0982  B 994            1407
7497 56 82          BWZ   CKNUM,CODE-2,2                         U   8  0986  V |08 S28 2       1408
7498 56 83  CHNG    MCW   CODE,X2                                 U   7  0994  M S30 094         1408
7499 56 84          MCW   0&X2,CODE                               U   7  1001  M 0!0 S30         1408
7500 56 85  CKNUM   BCE   NONUM,0&X1,}                 12-7-8    U   8  1008  B /59 0|0 } GMARK 1408
7501 56 86          MN    0&X1                                    U   4  1016  D 0|0            1408
7502 56 87          SAR   X2                                      U   4  1020  Q 094            1408
7503 56 88          BCE   CONST,0&X2,}                 12-7-8    U   8  1024  B S04 0!0 } GMARK 1409
7504 56 89  SYMB    MCW   @0@,TUNO                                U   7  1032  M S43 S25         1409
7505 56 90          MCW   0&X1,MVMSK-3                            U   7  1039  M 0|0 S18         1409
7506 56 91          MCW   @D@,MVMSK-6                            U   7  1046  M S44 S15         1409
7507 56 92          MZ    *-4,MVMSK-4                             U   7  1053  Y |55 S17         1409
7508 56 93          CW    MVSW#1                                  U   4  1060  ) S45            1410
7509 56 94  SLIDE   C     0&X1                                    U   4  1064  C 0|0            1410
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 SEQ PG LIN  LABEL  OP    OPERANDS                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD
7510 56 95           SAR   X1                                        U   4  1068  Q 089             1410
7511 56 96           LCA   IOCW,0&X3                                U   7  1072  L S26 0?0         1410
7512 56 97           SBR   X3                          TO SOURCE     U   4  1079  H 099             1410
7513 56 98           BW    NOINT,MVSW                                U   8  1083  V /06 S45 1      1410
7514 56 99           SW    MVSW                                      U   4  1091  , S45            1410
7515 57 00           LCA   MVMSK,0&X3                 LOAD INITIALIZE U   7  1095  L S21 0?0         1411
7516 57 01           SBR   X3                                        U   4  1102  H 099             1411
7517 57 02  NOINT    LCA   1&X1,0&X3                  LOAD GM       U   7  1106  L 0|1 0?0         1411
7518 57 03           SBR   X3                                        U   4  1113  H 099             1411
7519 57 04  KLOBR    BCE   START,0,<                  12-6-8        U   8  1117  B 838 000 <       1411
7520 57 05           FQUIT                                           U                 MACRO
7521                 CS    332                                       U   4  1125  / 332            GEN   1411
7522                 CS                                              U   1  1129  /                GEN   1411
7523                 CC    1                                         U   2  1130  F 1              GEN   1412
7524                 MCW   @MESSAGE 2 - OBJECT PROGRAM TOO LARGE@,270 U   7  1132  M S81 270        GEN   1412
7525                 W                                               U   1  1139  2                GEN   1412
7526                 CC    1                                         U   2  1140  F 1              GEN   1412
7527                 BCE   *&6,MONTOR,1                             U   8  1142  B /55 769 1       GEN   1412
7528                 RWD   1                                         U   5  1150  U %U1 R          GEN   1412
7529                 H     *-3                                       U   4  1155  . /55            GEN   1412
7530 57 06  NONUM    FTMSG 33,NO TAPE UNIT NUMBER,CODE,21            U                 MACRO
7531        NONUM    CS    332                                       U   4  1159  / 332            GEN   1413
7532                 CS                                              U   1  1163  /                GEN   1413
7533                 SW    FAILSW                                    U   4  1164  , 184            GEN   1413
7534                 MN    CODE,224&21                               U   7  1168  D S30 245        GEN   1413
7535                 MN                                              U   1  1175  D                GEN   1413
7536                 MN                                              U   1  1176  D                GEN   1413
7537                 MCW   @ERROR 33 - NO TAPE UNIT NUMBER, STATEMENT @ U 4  1177  M T23            GEN   1413
7538                 W                                               U   1  1181  2                GEN   1414
7539                 BCV   *&5                                       U   5  1182  B /91 @          GEN   1414
7540                 B     *&3                                       U   4  1187  B /93            GEN   1414
7541                 CC    1                                         U   2  1191  F 1              GEN   1414
7542 57 07           MCW   @0@,TUNO                                 U   7  1193  M S43 S25         1414
7543 57 08           B     SYMB                                      U   4  1200  B |32            1414
7544 57 09  CONST    MN    0&X1,TUNO                                 U   7  1204  D 0|0 S25         1414
7545 57 10           B     SLIDE                                     U   4  1211  B |64            1415
7546 57 11  MVMSK    DCW   @MXXX0?4@          0,12-0,4             U   7  1221                   1415
7547 57 12  IOCW     DCW   @U%U0X@                                   U   5  1226                   1415
7548 57 13  TUNO     EQU   IOCW-1                                    U      1225
7549 57 14           LTORG *                                         U            1227
             CODE U  DCW   #04                                       U   4  1230                 AREA  1415
                     DCW   @BZN@                                     U   3  1233                 LIT   1415
                     DCW   @CGOTO@                                   U   5  1238                 LIT   1415
                     DCW   @B@                                       U   1  1239                 LIT   1415
                     DCW   @<@                                       U   1  1240                 LIT   1416
                     DCW   @R@                                       U   1  1241                 LIT   1416
                     DCW   @M@                                       U   1  1242                 LIT   1416
                     DCW   @0@                                       U   1  1243                 LIT   1416
                     DCW   @D@                                       U   1  1244                 LIT   1416
             MVSW U  DCW   #01                                       U   1  1245                 AREA  1416
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 SEQ PG LIN  LABEL  OP    OPERANDS                                    SFX CT  LOCN  INSTRUCTION TYPE  CARD
                    DCW   @MESSAGE 2 - OBJECT PROGRAM TOO LARGE@       U 36  1281              LIT   1417
                    DCW   @ERROR 33 - NO TAPE UNIT NUMBER, STATEMENT @ U 42  1323              LIT   1419
7550 57 15  SYS1    DCW   @}@           SYSTEM GROUP MARK             U  1  1324              GMARK 1419
7551 57 16          XFR   START                                       U           B 838               1420
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 SEQ PG LIN  LABEL  OP    OPERANDS                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD
7552 57 17          JOB   1401 FORTRAN  COMPUTED GO TO PHASE        U
7553 57 18          FBEGN CGOTO,X1,,X2,R,X3,,.                      U                      MACRO
7554                SFX   .                                         .                      GEN
7555          110   DCW   @CGOTO@                                  .   5  0110            GEN   1423
7556          X1    EQU   089                                       .      0089            GEN
7557          X2    EQU   094                                       .      0094            GEN
7558          094   DCW   000                                       .   3  0094            GEN   1424
7559          096   DC    00                                        .   2  0096            GEN   1424
7560          X3    EQU   099                                       .      0099            GEN
7561 57 19          ORG   XBEGIN                                    .            0838
7562 57 20  INITL   SW    GM1,GM2                                   .   7  0838  , S95 T09         1425
7563 57 21  START   BWZ   OUT,0&X1,1                               .   8  0845  V T20 0|0 1       1425
7564 57 22          MCW   0&X1,ID#3                                 .   7  0853  M 0|0 T62         1425
7565 57 23          MCW   ID,MASK                                   .   7  0860  M T62 T12         1425
7566 57 24          MCW   @]@,1&X1                    11-5-8       .   7  0867  M T63 0|1         1425
7567 57 25          SBR   KLOBR&6,1&X1                             .   7  0874  H |78 0|1         1426
7568 57 26          C     0&X1                                      .   4  0881  C 0|0             1426
7569 57 27          SAR   X1                                        .   4  0885  Q 089             1426
7570 57 28          C     2&X1,@T@                                  .   7  0889  C 0|2 T64         1426
7571 57 29          BU    DUN                                       .   5  0896  B T13 /           1426
7572 57 30  SMALL   S     MAX#2                                     .   4  0901  S T66            1426
7573 57 31  LOOP    MN    0&X1                                      .   4  0905  D 0|0             1426
7574 57 32          MN                                              .   1  0909  D                 1427
7575 57 33          MN                                              .   1  0910  D                 1427
7576 57 34          SAR   X1                                        .   4  0911  Q 089             1427
7577 57 35          A     &1,MAX                                    .   7  0915  A T67 T66         1427
7578 57 36          C     MAX,&11                                   .   7  0922  C T66 T69         1427
7579 57 37          BE    ERROR                                     .   5  0929  B S23 S           1427
7580 57 38          C     0&X1,@,@                                  .   7  0934  C 0|0 T70         1427
7581 57 39          BU    LOOP                                      .   5  0941  B 905 /           1428
7582 57 40          MN    0&X1                                      .   4  0946  D 0|0             1428
7583 57 41          SAR   X1                                        .   4  0950  Q 089             1428
7584 57 42          B     RUADR                                     .   4  0954  B /14            1428
7585 57 43          LCA   MASK,0&X3                                 .   7  0958  L T12 0?0         1428
7586 57 44          LCA   TRAP                                      .   4  0965  L T59            1428
7587 57 45          LCA                                             .   1  0969  L                 1428
7588 57 46          LCA                                             .   1  0970  L                 1429
7589 57 47          SBR   X3                                        .   4  0971  H 099            1429
7590 57 48          SBR   X1,1&X1                                   .   7  0975  H 089 0|1         1429
7591 57 49  ANYMO   BW    NOMO,4&X1                                 .   8  0982  V |53 0|4 1       1429
7592 57 50          SW    BRNCH-6                                   .   4  0990  , T44            1429
7593 57 51          MN    MAX,BRNCH                                 .   7  0994  D T66 T50         1429
7594 57 52          MCW   I                                         .   4  1001  M T02            1429
7595 57 53          MCW   6&X1                                      .   4  1005  M 0|6             1430
7596 57 54          SAR   X1                                        .   4  1009  Q 089             1430
7597 57 55          CW    BRNCH-6                                   .   4  1013  ) T44            1430
7598 57 56          MZ    @K@,BRNCH-5                               .   7  1017  Y T71 T45         1430
7599 57 57          MZ    *-4,BRNCH-2                               .   7  1024  Y |26 T48         1430
7600 57 58          LCA   BRNCH,0&X3                                .   7  1031  L T50 0?0         1430
7601 57 59          SBR   X3                                        .   4  1038  H 099            1430
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 SEQ PG LIN  LABEL  OP     OPERANDS                                        SFX CT  LOCN  INSTRUCTION TYPE  CARD
7602 57 60          S      &1,MAX                                           .   7  1042  S T67 T66        1431
7603 57 61          B      ANYMO                                            .   4  1049  B 982           1431
7604 57 62   NOMO     LCA    GM1,0&X3                                         .   7  1053  L S95 0?0       1431
7605 57 63          SBR    X3                                               .   4  1060  H 099          1431
7606 57 64   BOTM   C      0&X1                                             .   4  1064  C 0|0          1431
7607 57 65          SAR    X1                                               .   4  1068  Q 089          1431
7608 57 66   KLOBR  BCE    START,0,]                      11-5-8            .   8  1072  B 845 000 ]    1431
7609 57 67          FQUIT                                                   .                MACRO
7610                CS     332                                              .   4  1080  / 332       GEN   1432
7611                CS                                                      .   1  1084  /           GEN   1432
7612                CC     1                                                .   2  1085  F 1         GEN   1432
7613                MCW    @MESSAGE 2 - OBJECT PROGRAM TOO LARGE@,270       .   7  1087  M U07 270   GEN   1432
7614                W                                                       .   1  1094  2           GEN   1432
7615                CC     1                                                .   2  1095  F 1         GEN   1432
7616                BCE    *&6,MONTOR,1                                     .   8  1097  B /10 769 1  GEN   1432
7617                RWD    1                                                .   5  1105  U %U1 R     GEN   1433
7618                H      *-3                                              .   4  1110  . /10       GEN   1433
7619 57 68   RUADR  SBR    EXRUA&3                                          .   4  1114  H S22          1433
7620 57 69          S      COUNT#1                                          .   4  1118  S U08          1433
7621 57 70   OK     MN     0&X1,TEST&7                                      .   7  1122  D 0|0 /55      1433
7622 57 71          SAR    X1                                               .   4  1129  Q 089          1433
7623 57 72          BCE    RUFIX,COUNT,B                                    .   8  1133  B /81 U08 B    1433
7624 57 73          A      &1,COUNT                                         .   7  1141  A T67 U08      1434
7625 57 74   TEST   BCE    OK,@0123456789@,0                                .   8  1148  B /22 U18 0    1434
7626 57 75          CHAIN  9                                                .                MACRO
7627                BCE                                                     .   1  1156  B           GEN   1434
7628                BCE                                                     .   1  1157  B           GEN   1434
7629                BCE                                                     .   1  1158  B           GEN   1434
7630                BCE                                                     .   1  1159  B           GEN   1434
7631                BCE                                                     .   1  1160  B           GEN   1434
7632                BCE                                                     .   1  1161  B           GEN   1435
7633                BCE                                                     .   1  1162  B           GEN   1435
7634                BCE                                                     .   1  1163  B           GEN   1435
7635                BCE                                                     .   1  1164  B           GEN   1435
7636 57 76   ERR1   BCE    ERROR,0&X1,}                   12-7-8            .   8  1165  B S23 0|0 } GMARK 1435
7637 57 77          SBR    X1                                               .   4  1173  H 089          1435
7638 57 78          B      ERR1                                             .   4  1177  B /65          1435
7639 57 79   RUFIX  BWZ    FIXED,2&X1,K                                     .   8  1181  V /93 0|2 K    1436
7640 57 80          B      ERR1                                             .   4  1189  B /65          1436
7641 57 81   FIXED  MZ     BLANK#1,2&X1                                     .   7  1193  Y U19 0|2      1436
7642 57 82          MCW    3&X1,I                                           .   7  1200  M 0|3 T02      1436
7643 57 83          C      0&X1,GM1                                         .   7  1207  C 0|0 S95      1436
7644 57 84          BU     ERR1                                             .   5  1214  B /65 /        1436
7645 57 85   EXRUA  B      0                                                .   4  1219  B 000          1437
7646 57 86   ERROR  BWZ    *&5,ID,2                                         .   8  1223  V S35 T62 2    1437
7647 57 87          B      ZONE                                             .   4  1231  B S43          1437
7648 57 88          BWZ    PRINT,ID-2,2                                     .   8  1235  V S57 T60 2    1437
7649 57 89   ZONE   MCW    ID,X2                                            .   7  1243  M T62 094      1437
7650 57 90          MCW    0&X2,ID                                          .   7  1250  M 0!0 T62      1437
7651 57 91   PRINT  FTMSG  34,COMPUTED GO TO SYNTAX,ID,23                   .                MACRO
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 SEQ PG LIN  LABEL   OP    OPERANDS                                          SFX CT  LOCN  INSTRUCTION TYPE  CARD
7652         PRINT   CS    332                                                .  4  1257  / 332       GEN   1438
7653                 CS                                                       .  1  1261  /           GEN   1438
7654                 SW    FAILSW                                             .  4  1262  , 184       GEN   1438
7655                 MN    ID,224&23                                          .  7  1266  D T62 247   GEN   1438
7656                 MN                                                       .  1  1273  D           GEN   1438
7657                 MN                                                       .  1  1274  D           GEN   1438
7658                 MCW   @ERROR 34 - COMPUTED GO TO SYNTAX, STATEMENT @     .  4  1275  M U63       GEN   1438
7659                 W                                                        .  1  1279  2           GEN   1439
7660                 BCV   *&5                                                .  5  1280  B S89 @     GEN   1439
7661                 B     *&3                                                .  4  1285  B S91       GEN   1439
7662                 CC    1                                                  .  2  1289  F 1         GEN   1439
7663 57 92           B     BOTM                                               .  4  1291  B |64       GEN   1439
7664 57 93   GM1     DC    @}@                          GM                    .  1  1295              GMARK 1439
7665 57 94           DCW   @T@                                                .  1  1296                    1439
7666 57 95           DC    XLINKS            INOPERATIVE IN VER 3             .  3  1299  840           1439
7667 57 96   I       DCW   #3                                                 .  3  1302                    1439
7668 57 97           DCW   #3                           MAX VALUE OF I        .  3  1305                    1440
7669 57 98   BASE    DCW   #3                           BASE ADDRESS OF TABLE .  3  1308                    1440
7670 57 99   GM2     DC    @}@                          GM                    .  1  1309              GMARK 1440
7671 58 00   MASK    DC    #3                                                 .  3  1312                    1440
7672 58 01   DUN     SBR   X1,5&X1                                            .  7  1313  H 089 0|5      1440
7673 58 02   OUT     FENDX C,,,,,,SYSCG,GOMSK                                .                 MACRO
7674         OUT     BSS   333,C                                              .  5  1320  B 333 C     GEN   1440
7675                 SBR   TCLEAR,SYSCG                                       .  7  1325  H 710 U69   GEN   1440
7676                 LCA   @GOMSK@,110                                        .  7  1332  L U68 110   GEN   1440
7677                 B     MONTER                                             .  4  1339  B 700       GEN   1441
7678 58 03   BRNCH   DCW   @BXXXXXXA@                                        .  8  1350                    1441
7679 58 04           NOP   1001                                               .  4  1351  N |01          1441
7680 58 05           H                                                        .  1  1355  .             1441
7681 58 06   TRAP    DCW   @BIIB@                                            .  4  1359                    1441
7682 58 07           LTORG *                                                  .           1360
             ID    . DCW   #03                                                .  3  1362              AREA  1441
                    DCW   @]@                                                .  1  1363              LIT   1441
                    DCW   @T@                                                .  1  1364              LIT   1442
             MAX   . DCW   #02                                                .  2  1366              AREA  1442
                    DCW   &1                                                 .  1  1367              LIT   1442
                    DCW   &11                                                .  2  1369              LIT   1442
                    DCW   @,@                                                .  1  1370              LIT   1442
                    DCW   @K@                                                .  1  1371              LIT   1442
                    DCW   @MESSAGE 2 - OBJECT PROGRAM TOO LARGE@             . 36  1407              LIT   1443
             COUNT. DCW   #01                                                .  1  1408              AREA  1443
                    DCW   @0123456789@                                       . 10  1418              LIT   1444
             BLANK. DCW   #01                                                .  1  1419              AREA  1444
                    DCW   @ERROR 34 - COMPUTED GO TO SYNTAX, STATEMENT @     . 44  1463              LIT   1446
                    DCW   @GOMSK@                                            .  5  1468              LIT   1446
7683 58 08   SYSCG   DCW   @}@                          SYSTEM GROUP MARK     .  1  1469              GMARK 1446
7684 58 09           XFR   INITL                                              .           B 838             1447
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 SEQ PG LIN  LABEL   OP    OPERANDS                                SFX CT  LOCN  INSTRUCTION TYPE  CARD
7685 58 10           JOB   1401 FORTRAN  GO TO MASK PHASE          .
7686 58 11           FBEGN GOMSK,X1,,,,X3,,*                       .                    MACRO
7687                 SFX   *                                       *                    GEN
7688          110    DCW   @GOMSK@                                 *   5  0110          GEN   1450
7689          X1     EQU   089                                     *      0089          GEN
7690          X3     EQU   099                                     *      0099          GEN
7691 58 12           ORG   XBEGIN                                   *            0838
7692 58 13    START  BCE   OUT,0&X1,                  BLANK        *   8  0838  B 861 0|0       1451
7693 58 14           MCW   0&X1,CODE#4                             *   7  0846  M 0|0 962       1451
7694 58 15           BCE   CTU,CODE-3,G                           *   8  0853  B 884 959 G     1451
7695 58 16    OUT    FENDX C,,,,,,SYS1,STOP/PAUSE                *                    MACRO
7696          OUT    BSS   333,C                                   *   5  0861  B 333 C       GEN   1451
7697                 SBR   TCLEAR,SYS1                             *   7  0866  H 710 975     GEN   1451
7698                 LCA   @STOP/PAUSE@,110                        *   7  0873  L 972 110     GEN   1452
7699                 B     MONTER                                  *   4  0880  B 700         GEN   1452
7700 58 17    CTU    MVDWN X1,X3                                   *                    MACRO
7701          CTU    LCA   0&X1,0&X3                               *   7  0884  L 0|0 0?0     GEN   1452
7702                 SAR   X1                                      *   4  0891  Q 089         GEN   1452
7703                 C     0&X3                                    *   4  0895  C 0?0         GEN   1452
7704                 SAR   X3                                      *   4  0899  Q 099         GEN   1452
7705 58 18           LCA   1&X3,2&X3                               *   7  0903  L 0?1 0?2     GEN   1452
7706 58 19           SBR   X3                                      *   4  0910  H 099         GEN   1453
7707 58 20           MVDWN X1,X3                                   *                    MACRO
7708                 LCA   0&X1,0&X3                               *   7  0914  L 0|0 0?0     GEN   1453
7709                 SAR   X1                                      *   4  0921  Q 089         GEN   1453
7710                 C     0&X3                                    *   4  0925  C 0?0         GEN   1453
7711                 SAR   X3                                      *   4  0929  Q 099         GEN   1453
7712 58 21           MCW   @B@,1&X3                               *   7  0933  M 973 0?1     GEN   1453
7713 58 22           LCA   1&X1                                    *   4  0940  L 0|1         GEN   1453
7714 58 23           SBR   X3                                      *   4  0944  H 099         GEN   1454
7715 58 24           MZ    @K@,4&X3                                *   7  0948  Y 974 0?4     GEN   1454
7716 58 25           B     START                                   *   4  0955  B 838         GEN   1454
7717 58 26           LTORG *                                       *            0959
             CODE *  DCW   #04                                     *   4  0962                AREA  1454
                     DCW   @STOP/PAUSE@                            *  10  0972                LIT   1454
                     DCW   @B@                                     *   1  0973                LIT   1454
                     DCW   @K@                                     *   1  0974                LIT   1454
7718 58 27    SYS1   DCW   @}@                   SYSTEM GROUP MARK *   1  0975                GMARK 1455
7719 58 28           XFR   START                                   *            B 838           1456
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 SEQ PG LIN  LABEL  OP    OPERANDS                                SFX CT  LOCN  INSTRUCTION TYPE  CARD
7720 58 29          JOB   1401 FORTRAN  STOP/PAUSE PHASE          *
7721 58 30          FBEGN STOP/PAUSE,X1,,X2,,X3,,3                *                      MACRO
7722                SFX   3                                       3                      GEN
7723          110   DCW   @STOP/PAUSE@                           3  10  0110               GEN   1459
7724          X1    EQU   089                                     3      0089               GEN
7725          X2    EQU   094                                     3      0094               GEN
7726          X3    EQU   099                                     3      0099               GEN
7727 58 31          ORG   XBEGIN                                  3            0838
7728 58 32   START  CS    299                                     3   4  0838  / 299                 1460
7729 58 33   NUTYP  BCE   OUT,0&X1,                    BLANK      3   8  0842  B 873 0|0             1460
7730 58 34          MCW   0&X1,CODE#4                             3   7  0850  M 0|0 W02             1460
7731 58 35          FBCEQ DOIT,CODE-3,A,S                         3                      MACRO
7732                BCE   DOIT, CODE-3, A                        3   8  0857  B 896 V99 A GEN   1460
7733                BCE   DOIT, CODE-3, S                        3   8  0865  B 896 V99 S GEN   1460
7734 58 36   OUT    FENDX C,,,,,,SYS1,LIGHT                      3                      MACRO
7735          OUT   BSS   333,C                                  3   5  0873  B 333 C     GEN   1461
7736                SBR   TCLEAR,SYS1                           3   7  0878  H 710 W61   GEN   1461
7737                LCA   @LIGHT@,110                           3   7  0885  L W07 110   GEN   1461
7738                B     MONTER                                3   4  0892  B 700       GEN   1461
7739 58 37   DOIT   MCW   @<@,2&X1                    12-6-8     3   7  0896  M W08 0|2           1461
7740 58 38          SBR   KLOBR&6,2&X1                          3   7  0903  H S58 0|2           1461
7741 58 39          MVDWN X1,X3                                 3                      MACRO
7742                LCA   0&X1,0&X3                             3   7  0910  L 0|0 0?0   GEN   1462
7743                SAR   X1                                    3   4  0917  Q 089       GEN   1462
7744                C     0&X3                                  3   4  0921  C 0?0       GEN   1462
7745                SAR   X3                                    3   4  0925  Q 099       GEN   1462
7746 58 40          LCA   1&X3,2&X3                           3   7  0929  L 0?1 0?2           1462
7747 58 41          SBR   X3                                    3   4  0936  H 099               1462
7748 58 42          BCE   NOAD,0&X1,}                 GM         3   8  0940  B |69 0|0 } GMARK 1462
7749 58 43          CS    WORK                                  3   4  0948  / V98               1463
7750 58 44          FFLIP 0&X1,LOWK,X1,X2,,WM                   3                      MACRO
7751                MN    LOWK                                  3   4  0952  D V00       GEN   1463
7752                MN                                          3   1  0956  D           GEN   1463
7753                SAR   X2                                    3   4  0957  Q 094       GEN   1463
7754                SBR   X1, 0&X1                             3   7  0961  H 089 0|0   GEN   1463
7755         )0K212 MCW   0&X1,)0L212#1                        3   7  0968  M 0|0 W09   GEN   1463
7756                SAR   X1                                    3   4  0975  Q 089       GEN   1463
7757                BW    )0M212, 1&X1                          3   8  0979  V |02 0|1 1 GEN   1464
7758                MCW   )0L212, 2&X2                          3   7  0987  M W09 0!2   GEN   1464
7759                SBR   X2                                    3   4  0994  H 094       GEN   1464
7760                B     )0K212                                3   4  0998  B 968       GEN   1464
7761         )0M212 EQU   *&1                                   3      1002               GEN
7762 58 45          SW    LOWK                                  3   4  1002  , V00               1464
7763 58 46          BCE   OKAY2,LOWK&3,               BLANK      3   8  1006  B |42 V03           1464
7764 58 47          MCW   MSG1,222                              3   7  1014  M T15 222           1465
7765 58 48          MCW   MSG2,247                              3   7  1021  M T33 247           1465
7766 58 49          MCW   LOWK&4,228                            3   7  1028  M V04 228           1465
7767 58 50          MCW   LOWK&2,251                            3   7  1035  M V02 251           1465
7768 58 51   OKAY2  BCE   *&5,LOWK&2,                BLANK      3   8  1042  B |54 V02           1465
7769 58 52          B     SETUP                                 3   4  1050  B |84               1466
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 SEQ PG LIN  LABEL  OP    OPERANDS                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD
7770 58 53          MCW   LOWK&1,LOWK&2                              3  7  1054  M V01 V02        1466
7771 58 54          MCW   @0@                                        3  4  1061  M W10            1466
7772 58 55          B     OKAY2                                      3  4  1065  B |42            1466
7773 58 56  NOAD    LCA   @000@,LOWK&2                              3  7  1069  L W13 V02        1466
7774 58 57          C     0&X1                                       3  4  1076  C 0|0            1466
7775 58 58          SAR   X1                                         3  4  1080  Q 089            1466
7776 58 59  SETUP   MCW   LOWK&2,SAVE3#3                            3  7  1084  M V02 W16        1467
7777 58 60          A     @0@,LOWK&3                                 3  7  1091  A W10 V03        1467
7778 58 61          C     LOWK&2,SAVE3                               3  7  1098  C V02 W16        1467
7779 58 62          BE    AOK                                        3  5  1105  B /70 S          1467
7780 58 63          BCE   NUERR,201,                    BLANK       3  8  1110  B /31 201        1467
7781 58 64  RTN     MZ    BLNK3#3,251                                3  7  1118  Y W19 251        1468
7782 58 65          MZ                                               3  1  1125  Y                1468
7783 58 66          MZ                                               3  1  1126  Y                1468
7784 58 67          B     AOK                                        3  4  1127  B /70            1468
7785 58 68  NUERR   MCW   MSG1,222                                   3  7  1131  M T15 222        1468
7786 58 69          MCW   MSG2,247                                   3  7  1138  M T33 247        1468
7787 58 70          MCW   LOWK&2,226                                 3  7  1145  M V02 226        1468
7788 58 71          MCW   LOWK&2,251                                 3  7  1152  M V02 251        1469
7789 58 72          MCW   BLANK,223                                  3  7  1159  M W17 223        1469
7790 58 73          B     RTN                                        3  4  1166  B /18            1469
7791 58 74  AOK     BCE   CTU,201,                      BLANK       3  8  1170  B /94 201        1469
7792 58 75          W                                                3  1  1178  2                1469
7793 58 76          FORMS                                            3                 MACRO
7794                BCV   *&5                                        3  5  1179  B /88 @     GEN  1469
7795                B     *&3                                        3  4  1184  B /90        GEN  1469
7796                CC    1                                          3  2  1188  F 1         GEN  1470
7797 58 77          CS    299                                        3  4  1190  / 299            1470
7798 58 78  CTU     CW    LOWK                                       3  4  1194  ) V00            1470
7799 58 79          BCE   PAUSE,CODE-3,A                             3  8  1198  B S33 V99 A      1470
7800 58 80          LCA   @BIIB@,0&X3                                3  7  1206  L W23 0?0        1470
7801 58 81          LCA   @.@                                        3  4  1213  L W24            1470
7802 58 82          LCA   LOWK&2                                     3  4  1217  L V02            1470
7803 58 83          LCA   1&X1                                       3  4  1221  L 0|1            1471
7804 58 84          SBR   X3                                         3  4  1225  H 099            1471
7805 58 85          B     KLOBR                                      3  4  1229  B S52            1471
7806 58 86  PAUSE   LCA   @.@,0&X3                                  3  7  1233  L W24 0?0        1471
7807 58 87          LCA   LOWK&2                                     3  4  1240  L V02            1471
7808 58 88          LCA   1&X1                                       3  4  1244  L 0|1            1471
7809 58 89          SBR   X3                                         3  4  1248  H 099            1471
7810 58 90  KLOBR   BCE   NUTYP,0,<                     12-6-8      3  8  1252  B 842 000 <      1472
7811 58 91          FQUIT                                            3                 MACRO
7812                CS    332                                        3  4  1260  / 332       GEN  1472
7813                CS                                               3  1  1264  /           GEN  1472
7814                CC    1                                          3  2  1265  F 1         GEN  1472
7815                MCW   @MESSAGE 2 - OBJECT PROGRAM TOO LARGE@,270 3  7  1267  M W60 270   GEN  1472
7816                W                                                3  1  1274  2           GEN  1472
7817                CC    1                                          3  2  1275  F 1         GEN  1472
7818                BCE   *&6,MONTOR,1                              3  8  1277  B S90 769 1  GEN  1473
7819                RWD   1                                          3  5  1285  U %U1 R     GEN  1473
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 SEQ PG LIN  LABEL   OP    OPERANDS                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD
7820                 H     *-3                                        3  4  1290  . S90       GEN   1473
7821 58 92   MSG1    DCW   @ERROR 35 - HALT NUMBER@                  3 22  1315                    1473
7822 58 93   MSG2    DCW   @TO BE DISPLAYED AS@                      3 18  1333                    1474
7823 58 94           ORG   *&X00                                      3          1400
7824 58 95           ORG   *&99                                       3          1499
7825 58 96           DCW   @N@                                        3  1  1499                    1475
7826 58 97   LOWK    DS    1                                          3     1500
7827 58 98   WORK    DS    98                                         3     1598
7828 58 99           LTORG *                                          3          1599
             CODE 3  DCW   #04                                        3  4  1602            AREA  1476
                     DCW   @LIGHT@                                    3  5  1607            LIT   1476
                     DCW   @<@                                        3  1  1608            LIT   1476
             )0L212  DCW   #01                                        3  1  1609            AREA  1476
                     DCW   @0@                                        3  1  1610            LIT   1476
                     DCW   @0000@                                     3  3  1613            LIT   1476
             SAVE33  DCW   #03                                        3  3  1616            AREA  1476
             BLNK33  DCW   #03                                        3  3  1619            AREA  1477
                     DCW   @BIIB@                                     3  4  1623            LIT   1477
                     DCW   @.@                                        3  1  1624            LIT   1477
                     DCW   @MESSAGE 2 - OBJECT PROGRAM TOO LARGE@     3 36  1660            LIT   1478
7829 59 00   SYS1    DCW   @}@                          SYSTEM GROUP MARK 3  1  1661            GMARK 1478
7830 59 01   BLANK   EQU   BLNK3-2                                     3     1617
7831 59 02           XFR   START                                      3          B 838           1479
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 SEQ PG LIN  LABEL  OP     OPERANDS                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD
7832 59 03          JOB    1401 FORTRAN  SENSE LIGHT PHASE            3
7833 59 04          FBEGN  LIGHT,X1,,X2,R,X3,,5                      3                      MACRO
7834                SFX    5                                         5                      GEN
7835          110   DCW    @LIGHT@                                   5  5  0110              GEN   1482
7836          X1    EQU    089                                       5     0089              GEN
7837          X2    EQU    094                                       5     0094              GEN
7838          094   DCW    000                                       5  3  0094              GEN   1483
7839          096   DC     00                                        5  2  0096              GEN   1483
7840          X3    EQU    099                                       5     0099              GEN
7841 59 05          ORG    XBEGIN                                    5           0838
7842 59 06    START BCE    OUT,0&X1,                    BLANK        5  8  0838  B 861 0|0         1484
7843 59 07          MCW    0&X1,CODE#4                               5  7  0846  M 0|0 /88         1484
7844 59 08          BCE    DOIT,CODE-3,J                             5  8  0853  B 884 /85 J       1484
7845 59 09    OUT   FENDX  C,,,,,,SYSL,IFCOND                       5                      MACRO
7846          OUT   BSS    333,C                                     5  5  0861  B 333 C     GEN   1484
7847                SBR    TCLEAR,SYSL                               5  7  0866  H 710 S92   GEN   1484
7848                LCA    @IFCOND@,110                              5  7  0873  L /94 110   GEN   1485
7849                B      MONTER                                    5  4  0880  B 700       GEN   1485
7850 59 10    DOIT  MVDWN  X1,X3                                     5                      MACRO
7851          DOIT  LCA    0&X1,0&X3                                 5  7  0884  L 0|0 0?0   GEN   1485
7852                SAR    X1                                        5  4  0891  Q 089       GEN   1485
7853                C      0&X3                                      5  4  0895  C 0?0       GEN   1485
7854                SAR    X3                                        5  4  0899  Q 099       GEN   1485
7855 59 11          SBR    KLOBR&6,1&X1                              5  7  0903  H /26 0|1         1485
7856 59 12          MCW    @]@,1&X1                     11-5-8       5  7  0910  M /95 0|1         1486
7857 59 13          LCA    1&X3,2&X3                                 5  7  0917  L 0?1 0?2         1486
7858 59 14          SBR    X3                                        5  4  0924  H 099             1486
7859 59 15          MCW    CODE,HOLD#3                  MCW  0&X2,HOLD 5  7  0928  M /88 /98       1486
7860 59 16          BWZ    *&5,HOLD,2                                5  8  0935  V 947 /98 2       1486
7861 59 17          B      SWEAT                                     5  4  0943  B 955             1486
7862 59 18          BWZ    CKGM,HOLD-2,2                             5  8  0947  V 969 /96 2       1487
7863 59 19    SWEAT MCW    HOLD,X2                                   5  7  0955  M /98 094         1487
7864 59 20          MCW    0&X2,HOLD                                 5  7  0962  M 0!0 /98         1487
7865 59 21    CKGM  BCE    BAD,0&X1,}                   GM           5  8  0969  B |15 0|0 } GMARK 1487
7866 59 22          MCW    0&X1,HLD2#2                               5  7  0977  M 0|0 S00         1487
7867 59 23          BCE    *&5,HLD2-1,}           GM                 5  8  0984  B 996 /99 } GMARK 1488
7868 59 24          B      BAD                                       5  4  0992  B |15             1488
7869 59 25          MN     0&X1,*&8                                  5  7  0996  D 0|0 |10         1488
7870 59 26          BCE    OK,@01234@,0                              5  8  1003  B |68 S05 0       1488
7871 59 27          CHAIN  4                                         5                      MACRO
7872                BCE                                              5  1  1011  B           GEN   1488
7873                BCE                                              5  1  1012  B           GEN   1488
7874                BCE                                              5  1  1013  B           GEN   1488
7875                BCE                                              5  1  1014  B           GEN   1489
7876 59 28    BAD   FTMSG  36,ILLEGAL SENSE LIGHT,HOLD,21            5                      MACRO
7877          BAD   CS     332                                       5  4  1015  / 332       GEN   1489
7878                CS                                               5  1  1019  /           GEN   1489
7879                SW     FAILSW                                    5  4  1020  , 184       GEN   1489
7880                MN     HOLD,224&21                               5  7  1024  D /98 245   GEN   1489
7881                MN                                               5  1  1031  D           GEN   1489
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 SEQ PG LIN  LABEL   OP    OPERANDS                                        SFX CT  LOCN  INSTRUCTION TYPE  CARD
7882             MN                                                      5   1  1032  D           GEN   1489
7883             MCW   @ERROR 36 - ILLEGAL SENSE LIGHT, STATEMENT @      5   4  1033  M S47       GEN   1490
7884             W                                                       5   1  1037  2           GEN   1490
7885             BCV   *&5                                               5   5  1038  B |47 @     GEN   1490
7886             B     *&3                                               5   4  1043  B |49       GEN   1490
7887             CC    1                                                 5   2  1047  F 1         GEN   1490
7888 59 29       SBR   X3,4&X3                                           5   7  1049  H 099 0?4         1490
7889 59 30       C     0&X1                                              5   4  1056  C 0|0             1490
7890 59 31       SAR   X1                                                5   4  1060  Q 089             1491
7891 59 32       B     START                                             5   4  1064  B 838             1491
7892 59 33  OK   MZ    *-4,0&X1                                          5   7  1068  Y |70 0|0         1491
7893 59 34       BCE   ZERO,0&X1,0                                       5   8  1075  B /62 0|0 0       1491
7894 59 35       MN    0&X1,MASK1                                        5   7  1083  D 0|0 /84         1491
7895 59 36       LCA   MASK1,0&X3                                        5   7  1090  L /84 0?0         1491
7896 59 37       SBR   X3                                                5   4  1097  H 099             1492
7897 59 38  RTN  C     0&X1                                              5   4  1101  C 0|0             1492
7898 59 39       SAR   X1                                                5   4  1105  Q 089             1492
7899 59 40       LCA   1&X1,0&X3                                        5   7  1109  L 0|1 0?0         1492
7900 59 41       SBR   X3                                                5   4  1116  H 099             1492
7901 59 42  KLOBR BCE   START,0,]                    11-5-8               5   8  1120  B 838 000 ]       1492
7902 59 43       FQUIT                                                   5                 MACRO
7903             CS    332                                               5   4  1128  / 332       GEN   1492
7904             CS                                                      5   1  1132  /           GEN   1493
7905             CC    1                                                 5   2  1133  F 1         GEN   1493
7906             MCW   @MESSAGE 2 - OBJECT PROGRAM TOO LARGE@,270        5   7  1135  M S83 270   GEN   1493
7907             W                                                       5   1  1142  2           GEN   1493
7908             CC    1                                                 5   2  1143  F 1         GEN   1493
7909             BCE   *&6,MONTOR,1                                      5   8  1145  B /58 769 1 GEN   1493
7910             RWD   1                                                 5   5  1153  U %U1 R     GEN   1493
7911             H     *-3                                               5   4  1158  . /58       GEN   1494
7912 59 44  ZERO LCA   @,@,0&X3                                         5   7  1162  L S84 0?0         1494
7913 59 45       LCA   @,082084@                                        5   4  1169  L S91             1494
7914 59 46       SBR   X3                                                5   4  1173  H 099             1494
7915 59 47       B     RTN                                               5   4  1177  B /01             1494
7916 59 48  MASK1 DCW   @)080@                                          5   4  1184                    1494
7917 59 49       LTORG *                                                 5            1185
             CODE 5 DCW   #04                                            5   4  1188        AREA  1494
                    DCW   @IFCOND@                                       5   6  1194        LIT   1495
                    DCW   @]@                                            5   1  1195        LIT   1495
             HOLD 5 DCW   #03                                            5   3  1198        AREA  1495
             HLD2 5 DCW   #02                                            5   2  1200        AREA  1495
                    DCW   @01234@                                        5   5  1205        LIT   1495
                    DCW   @ERROR 36 - ILLEGAL SENSE LIGHT, STATEMENT @   5  42  1247        LIT   1497
                    DCW   @MESSAGE 2 - OBJECT PROGRAM TOO LARGE@         5  36  1283        LIT   1497
                    DCW   @,@                                            5   1  1284        LIT   1498
                    DCW   @,082084@                                      5   7  1291        LIT   1498
7918 59 50  SYSL    DCW   @}@                          SYSTEM GROUP MARK 5   1  1292        GMARK 1498
7919 59 51       XFR   START                                             5            B 838         1499
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 SEQ PG LIN  LABEL  OP    OPERANDS                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD
7920 59 52          JOB   1401 FORTRAN  IF %HARDWARE) PHASE          5
7921 59 53          FBEGN IFCOND,X1,,X2,R,X3,,4                     5                      MACRO
7922                SFX   4                                         4                      GEN
7923          110   DCW   @IFCOND@                                  4   6  0110                GEN   1502
7924          X1    EQU   089                                       4      0089                GEN
7925          X2    EQU   094                                       4      0094                GEN
7926          094   DCW   000                                       4   3  0094                GEN   1503
7927          096   DC    00                                        4   2  0096                GEN   1503
7928          X3    EQU   099                                       4      0099                GEN
7929 59 54          ORG   XBEGIN                                    4            0838
7930 59 55  START   BCE   OUT,0&X1,          BLANK                  4   8  0838  B 870 0|0           1504
7931 59 56          MCW   0&X1,CODE                                 4   7  0846  M 0|0 U45           1504
7932 59 57          MCW                                             4   1  0853  M                   1504
7933 59 58          FBCEQ DOIT,CODE-3,W,K                           4                      MACRO
7934                BCE   DOIT, CODE-3, W                          4   8  0854  B 893 U42 W GEN   1504
7935                BCE   DOIT, CODE-3, K                          4   8  0862  B 893 U42 K GEN   1504
7936 59 59  OUT     FENDX C,,,,,,SYS1,CONTINUE                      4                      MACRO
7937          OUT   BSS   333,C                                     4   5  0870  B 333 C     GEN   1504
7938                SBR   TCLEAR,SYS1                               4   7  0875  H 710 W14   GEN   1505
7939                LCA   @CONTINUE@,110                            4   7  0882  L U69 110   GEN   1505
7940                B     MONTER                                    4   4  0889  B 700       GEN   1505
7941 59 60  DOIT    MCW   @<@,2&X1            12-6-8                4   7  0893  M U70 0|2           1505
7942 59 61          SBR   KLOBR&6,2&X1                              4   7  0900  H S03 0|2           1505
7943 59 62          MVDWN X1,X3                                     4                      MACRO
7944                LCA   0&X1,0&X3                                 4   7  0907  L 0|0 0?0   GEN   1505
7945                SAR   X1                                        4   4  0914  Q 089       GEN   1506
7946                C     0&X3                                      4   4  0918  C 0?0       GEN   1506
7947                SAR   X3                                        4   4  0922  Q 099       GEN   1506
7948 59 63          LCA   1&X3,2&X3                                 4   7  0926  L 0?1 0?2           1506
7949 59 64          SBR   X3                                        4   4  0933  H 099               1506
7950 59 65          MCW   0&X1,ON                                   4   7  0937  M 0|0 U36           1506
7951 59 66          MCW                                             4   1  0944  M                   1506
7952 59 67          SAR   X1                                        4   4  0945  Q 089               1507
7953 59 68          MZ    @K@,ON-1                                  4   7  0949  Y U71 U35           1507
7954 59 69          MZ    @K@,OFF-1                                 4   7  0956  Y U71 U32           1507
7955 59 70          BWZ   *&5,CODE,2                               4   8  0963  V 975 U45 2         1507
7956 59 71          B     FLIP                                      4   4  0971  B 983               1507
7957 59 72          BWZ   CKCOM,CODE-2,2                           4   8  0975  V 997 U43 2         1507
7958 59 73  FLIP    MCW   CODE,X2                                   4   7  0983  M U45 094           1508
7959 59 74          MCW   0&X2,CODE                                 4   7  0990  M 0!0 U45           1508
7960 59 75  CKCOM   B     AOK                                       4   4  0997  B |20               1508
7961 59 76  KILL    C     0&X1                                      4   4  1001  C 0|0               1508
7962 59 77          SAR   X1                                        4   4  1005  Q 089               1508
7963 59 78          SBR   X3,4&X3                                  4   7  1009  H 099 0?4           1508
7964 59 79          B     START                                     4   4  1016  B 838               1508
7965 59 80  AOK     MN    0&X1                                      4   4  1020  D 0|0               1509
7966 59 81          SAR   X1                                        4   4  1024  Q 089               1509
7967 59 82          BCE   LIGHT,CODE-3,K                            4   8  1028  B S54 U42 K         1509
7968 59 83          MCW   0&X1,BOX#1                 PROCESS IF SENSE 4   7  1036  M 0|0 U72           1509
7969 59 84          MCW   BOX,*&8                     SWITCH           4   7  1043  M U72 |57           1509
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 SEQ PG LIN  LABEL  OP    OPERANDS                                          SFX CT  LOCN  INSTRUCTION TYPE  CARD
7970 59 85          BCE   AOK2,@0123456@,0                                   4  8  1050  B /02 U79 0       1509
7971 59 86          CHAIN 6                                                  4                  MACRO
7972                BCE                                                    4  1  1058  B           GEN   1509
7973                BCE                                                    4  1  1059  B           GEN   1510
7974                BCE                                                    4  1  1060  B           GEN   1510
7975                BCE                                                    4  1  1061  B           GEN   1510
7976                BCE                                                    4  1  1062  B           GEN   1510
7977                BCE                                                    4  1  1063  B           GEN   1510
7978 59 87          FTMSG 37,ILLEGAL SENSE SWITCH,CODE,22                  4                  MACRO
7979                CS    332                                              4  4  1064  / 332       GEN   1510
7980                CS                                                     4  1  1068  /           GEN   1510
7981                SW    FAILSW                                           4  4  1069  , 184       GEN   1511
7982                MN    CODE,224&22                                      4  7  1073  D U45 246   GEN   1511
7983                MN                                                     4  1  1080  D           GEN   1511
7984                MN                                                     4  1  1081  D           GEN   1511
7985                MCW   @ERROR 37 - ILLEGAL SENSE SWITCH, STATEMENT @     4  4  1082  M V22       GEN   1511
7986                W                                                      4  1  1086  2           GEN   1511
7987                BCV   *&5                                              4  5  1087  B |96 @     GEN   1511
7988                B     *&3                                              4  4  1092  B |98       GEN   1512
7989                CC    1                                                4  2  1096  F 1         GEN   1512
7990 59 88          B     KILL                                             4  4  1098  B |01             1512
7991 59 89  AOK2    A     &1,BOX                                           4  7  1102  A V23 U72         1512
7992 59 90          MN    BOX,MASK1                                        4  7  1109  D U72 U41         1512
7993 59 91          MCW   ON,MASK1-1                                       4  7  1116  M U36 U40         1512
7994 59 92          MCW   OFF,X2                                          4  7  1123  M U33 094         1512
7995 59 93          MCW   0&X2,X2                                         4  7  1130  M 0!0 094         1513
7996 59 94          S     &10,X2&1                                         4  7  1137  S V25 095         1513
7997 59 95          C     CODE,X2                                          4  7  1144  C U45 094         1513
7998 59 96          BE    NOXTR                                            4  5  1151  B S39 S           1513
7999 59 97          MCW   OFF,MASK2                                       4  7  1156  M U33 U49         1513
8000 59 98          LCA   MASK2,0&X3                                       4  7  1163  L U49 0?0         1514
8001 59 99          LCA   MASK1                                            4  4  1170  L U41             1514
8002 60 00          SBR   X3                                               4  4  1174  H 099             1514
8003 60 01  RETRN   C     0&X1                                             4  4  1178  C 0|0             1514
8004 60 02          SAR   X1                                               4  4  1182  Q 089             1514
8005 60 03          LCA   1&X1,0&X3                                        4  7  1186  L 0|1 0?0         1514
8006 60 04          SBR   X3                                               4  4  1193  H 099             1514
8007 60 05  KLOBR   BCE   START,0,<                      12-6-8             4  8  1197  B 838 000 <       1515
8008 60 06          FQUIT                                                  4                  MACRO
8009                CS    332                                              4  4  1205  / 332       GEN   1515
8010                CS                                                     4  1  1209  /           GEN   1515
8011                CC    1                                                4  2  1210  F 1         GEN   1515
8012                MCW   @MESSAGE 2 - OBJECT PROGRAM TOO LARGE@,270        4  7  1212  M V61 270   GEN   1515
8013                W                                                      4  1  1219  2           GEN   1515
8014                CC    1                                                4  2  1220  F 1         GEN   1515
8015                BCE   *&6,MONTOR,1                                     4  8  1222  B S35 769 1 GEN   1516
8016                RWD   1                                                4  5  1230  U %U1 R     GEN   1516
8017                H     *-3                                              4  4  1235  . S35       GEN   1516
8018 60 07  NOXTR   LCA   MASK1,0&X3                                       4  7  1239  L U41 0?0         1516
8019 60 08          SBR   X3                                               4  4  1246  H 099             1516
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 SEQ PG LIN  LABEL  OP    OPERANDS                                    SFX CT  LOCN  INSTRUCTION TYPE  CARD
8020 60 09          B     RETRN                                        4  4  1250  B /78             1516
8021 60 10   LIGHT  MCW   0&X1,BOX                                    4  7  1254  M 0|0 U72         1516
8022 60 11          MCW   BOX,*&8                                     4  7  1261  M U72 S75         1517
8023 60 12          BCE   AOK3,@1234@,0                               4  8  1268  B T17 V65 0       1517
8024 60 13          CHAIN 3                                           4                 MACRO
8025                BCE                                             4  1  1276  B           GEN   1517
8026                BCE                                             4  1  1277  B           GEN   1517
8027                BCE                                             4  1  1278  B           GEN   1517
8028 60 14          FTMSG 36,ILLEGAL SENSE LIGHT,CODE,21            4                 MACRO
8029                CS    332                                       4  4  1279  / 332       GEN   1517
8030                CS                                              4  1  1283  /           GEN   1517
8031                SW    FAILSW                                    4  4  1284  , 184       GEN   1518
8032                MN    CODE,224&21                               4  7  1288  D U45 245   GEN   1518
8033                MN                                              4  1  1295  D           GEN   1518
8034                MN                                              4  1  1296  D           GEN   1518
8035                MCW   @ERROR 36 - ILLEGAL SENSE LIGHT, STATEMENT @ 4  4  1297  M W07       GEN   1518
8036                W                                               4  1  1301  2           GEN   1518
8037                BCV   *&5                                        4  5  1302  B T11 @     GEN   1518
8038                B     *&3                                       4  4  1307  B T13       GEN   1519
8039                CC    1                                         4  2  1311  F 1         GEN   1519
8040 60 15          B     KILL                                      4  4  1313  B |01             1519
8041 60 16   AOK3   MCW   @080@,WORK3#3                             4  7  1317  M W10 W13         1519
8042 60 17          A     BOX,WORK3                                 4  7  1324  A U72 W13         1519
8043 60 18          MCW   WORK3,MASK3-1                             4  7  1331  M W13 U56         1519
8044 60 19          MCW   OFF                                       4  4  1338  M U33             1519
8045 60 20          MCW   WORK3,MASK4                               4  7  1342  M W13 U61         1520
8046 60 21          MCW   ON,X2                                     4  7  1349  M U36 094         1520
8047 60 22          MCW   0&X2,X2                                   4  7  1356  M 0!0 094         1520
8048 60 23          S     &10,X2&1                                  4  7  1363  S V25 095         1520
8049 60 24          C     CODE,X2                                   4  7  1370  C U45 094         1520
8050 60 25          BE    CHEAP                                     4  5  1377  B U12 S           1521
8051 60 26          MCW   ON,MASK2                                  4  7  1382  M U36 U49         1521
8052 60 27          LCA   MASK2,0&X3                               4  7  1389  L U49 0?0         1521
8053 60 28          LCA   MASK4                                     4  4  1396  L U61             1521
8054 60 29          LCA   MASK3                                     4  4  1400  L U57             1521
8055 60 30          SBR   X3                                        4  4  1404  H 099             1521
8056 60 31          B     RETRN                                     4  4  1408  B /78             1521
8057 60 32   CHEAP  LCA   MASK4,0&X3                               4  7  1412  L U61 0?0         1522
8058 60 33          LCA   MASK3                                     4  4  1419  L U57             1522
8059 60 34          SBR   X3                                        4  4  1423  H 099             1522
8060 60 35          B     RETRN                                     4  4  1427  B /78             1522
8061 60 36   OFF    DCW   #3                                        4  3  1433                    1522
8062 60 37   ON     DCW   #3                                        4  3  1436                    1522
8063 60 38   MASK1  DCW   @B   &@                                   4  5  1441                    1522
8064 60 39          DCW   #1                                        4  1  1442                    1523
8065 60 40   CODE   DCW   #3                                        4  3  1445                    1523
8066 60 41   MASK2  DCW   @B   @                                    4  4  1449                    1523
8067 60 42   MASK3  DCW   @V      1@                               4  8  1457                    1523
8068 60 43   MASK4  DCW   @,   @                                    4  4  1461                    1523
8069 60 44          LTORG *                                         4           1462
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 SEQ PG LIN  LABEL   OP    OPERANDS                                        SFX CT  LOCN  INSTRUCTION TYPE  CARD

                     DCW   @CONTINUE@                                       4  8  1469              LIT   1523
                     DCW   @<@                                              4  1  1470              LIT   1523
                     DCW   @K@                                              4  1  1471              LIT   1524
             BOX  4  DCW   #01                                              4  1  1472              AREA  1524
                     DCW   @0123456@                                        4  7  1479              LIT   1524
                     DCW   @ERROR 37 - ILLEGAL SENSE SWITCH, STATEMENT @    4 43  1522              LIT   1526
                     DCW   &1                                               4  1  1523              LIT   1526
                     DCW   &10                                              4  2  1525              LIT   1526
                     DCW   @MESSAGE 2 - OBJECT PROGRAM TOO LARGE@           4 36  1561              LIT   1527
                     DCW   @1234@                                           4  4  1565              LIT   1528
                     DCW   @ERROR 36 - ILLEGAL SENSE LIGHT, STATEMENT @     4 42  1607              LIT   1530
                     DCW   @080@                                            4  3  1610              LIT   1530
             WORK34  DCW   #03                                              4  3  1613              AREA  1530
8070 60 45   SYS1    DCW   @}@                          SYSTEM GROUP MARK   4  1  1614              GMARK 1530
8071 60 46           XFR   START                                            4           B 838              1531
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 SEQ PG LIN  LABEL   OP     OPERANDS                                SFX CT  LOCN  INSTRUCTION TYPE  CARD
8072 60 47           JOB    1401 FORTRAN  CONTINUE PHASE             4
8073 60 48           FBEGN  CONTINUE,X1,,,,X3,,&                     4                      MACRO
8074                 SFX    &                                        &                      GEN
8075          110    DCW    @CONTINUE@                               &  8  0110             GEN   1534
8076          X1     EQU    089                                      &     0089             GEN
8077          X3     EQU    099                                      &     0099             GEN
8078 60 49           ORG    XBEGIN                                   &           0838
8079 60 50   START   BCE    OUT,0&X1,                  BLANK         &  8  0838  B 861 0|0         1535
8080 60 51           MCW    0&X1,CODE#4                              &  7  0846  M 0|0 925         1535
8081 60 52           BCE    ISCTU,CODE-3,C                           &  8  0853  B 884 922 C       1535
8082 60 53   OUT     FENDX  C,,,,,,SYS1,DOMSK                       &                      MACRO
8083         OUT     BSS    333,C                                    &  5  0861  B 333 C     GEN   1535
8084                 SBR    TCLEAR,SYS1                              &  7  0866  H 710 931   GEN   1535
8085                 LCA    @DOMSK@,110                              &  7  0873  L 930 110   GEN   1536
8086                 B      MONTER                                   &  4  0880  B 700       GEN   1536
8087 60 54   ISCTU   MVDWN  X1,X3                                    &                      MACRO
8088         ISCTU   LCA    0&X1,0&X3                                &  7  0884  L 0|0 0?0    GEN   1536
8089                 SAR    X1                                       &  4  0891  Q 089       GEN   1536
8090                 C      0&X3                                     &  4  0895  C 0?0       GEN   1536
8091                 SAR    X3                                       &  4  0899  Q 099       GEN   1536
8092 60 55           LCA    1&X1,2&X3                                &  7  0903  L 0|1 0?2         1536
8093 60 56           C      0&X1                                     &  4  0910  C 0|0           1537
8094 60 57           SAR    X1                                       &  4  0914  Q 089           1537
8095 60 58           B      START                                    &  4  0918  B 838           1537
8096 60 59           LTORG  *                                        &           0922
             CODE &  DCW    #04                                      &  4  0925             AREA  1537
                     DCW    @DOMSK@                                  &  5  0930             LIT   1537
8097 60 60   SYS1    DCW    @}@                        SYSTEM GROUP MARK &  1  0931             GMARK 1537
8098 60 61           XFR    START                                    &           B 838         1538
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 SEQ PG LIN  LABEL  OP    OPERANDS                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD

8099 60 62          JOB   1401 FORTRAN  DO PHASE                    &
8100 60 63          FBEGN DOMSK,X1,,X2,R,X3,,%                      &                      MACRO
8101                SFX   %                                         %                      GEN
8102          110   DCW   @DOMSK@                                   %    5  0110            GEN   1541
8103          X1    EQU   089                                       %       0089            GEN
8104          X2    EQU   094                                       %       0094            GEN
8105          094   DCW   000                                       %    3  0094            GEN   1542
8106          096   DC    00                                        %    2  0096            GEN   1542
8107          X3    EQU   099                                       %       0099            GEN
8108 60 64    * DO PHASE ALGORITHM
8109 60 65    *
8110 60 66    *                    OUTER
8111 60 67    *
8112 60 68    *                     NO   SAME  DIFF
8113 60 69    *           I        B XT  B XT  B XT
8114 60 70    *           N
8115 60 71    *           N   GM   T BK  T IN  T BK
8116 60 72    *           E   EZ   B BK  B IN  B BK
8117 60 73    *           R   HD   - BK  - IN  - BK
8118 60 74    *
8119 60 75          ORG   XBEGIN                                    %             0838
8120 60 76    INITL SW    GM1,GM2                                   %    7  0838  , V98 W26          1543
8121 60 77          SW    GM3,GM4                                   %    7  0845  , W31 W22          1543
8122 60 78          MCW   X3,HEX3#3                                 %    7  0852  M 099 W37          1543
8123 60 79    START BWZ   OUT,000&X1,1                            %    8  0859  V V33 0|0 1        1543
8124 60 80          MCW   @<@,2&X1                      12-6-8      %    7  0867  M W38 0|2          1543
8125 60 81          SBR   KLOBR&6,2&X1                             %    7  0874  H S65 0|2          1544
8126 60 82          C     000&X1                                    %    4  0881  C 0|0              1544
8127 60 83          SAR   X1                                        %    4  0885  Q 089              1544
8128 60 84          C     002&X1,@D@                                %    7  0889  C 0|2 W39          1544
8129 60 85          BU    DUN                                       %    5  0896  B V26 /            1544
8130 60 86          CW    XDOAD1,XDOAD2                             %    7  0901  ) 111 112          1544
8131 60 87          CW    XDOAD3,XDOINI                             %    7  0908  ) 113 114          1545
8132 60 88          MCW   005&X1,X2                                 %    7  0915  M 0|5 094          1545
8133 60 89          MCW   000&X2,TOP#3                            %    7  0922  M 0!0 W42          1545
8134 60 90          MCW   000&X1,X2                               %    7  0929  M 0|0 094          1545
8135 60 91          SAR   X1                                        %    4  0936  Q 089              1545
8136 60 92          MCW   000&X2,BOTM#3                           %    7  0940  M 0!0 W45          1545
8137 60 93          ZA    TOP,ACCUM#3                               %    7  0947  ? W42 W48          1546
8138 60 94          S     BOTM,ACCUM                                %    7  0954  S W45 W48          1546
8139 60 95          MCW   @N@,SWTCH                                 %    7  0961  M W49 S12          1546
8140 60 96          BWZ   ERR1,ACCUM,B                            %    8  0968  V T97 W48 B        1546
8141 60 97          MCW   X1,X2                                     %    7  0976  M 089 094          1546
8142 60 98          MCW   @   @,EXIT                              %    7  0983  M W52 W21          1547
8143 60 99          MCW   @T@,GOBAK-3                             %    7  0990  M W53 W27          1547
8144 61 00          MCW   @B@,NOAPX                               %    7  0997  M W54 S16          1547
8145 61 01    LOOP  C     000&X2                                    %    4  1004  C 0!0              1547
8146 61 02          C                                             %    1  1008  C                  1547
8147 61 03          SAR   X2                                        %    4  1009  Q 094              1547
8148 61 04          C     002&X2,@D@                                %    7  1013  C 0!2 W39          1547
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SEQ PG LIN  LABEL  OP    OPERANDS                    SFX CT  LOCN  INSTRUCTION TYPE  CARD
8149 61 05         BU    DIFNT                        %   5  1020  B |90 /           1548
8150 61 06         MCW   000&X2,X3                    %   7  1025  M 0!0 099         1548
8151 61 07         C     000&X3,TOP                   %   7  1032  C 0?0 W42         1548
8152 61 08         BH    LOOP                         %   5  1039  B |04 U           1548
8153 61 09         C     000&X3,BOTM                  %   7  1044  C 0?0 W45         1548
8154 61 10         BH    ERR2                         %   5  1051  B U42 U           1548
8155 61 11         BCE   RUDIF,1&X2,H                 %   8  1056  B |71 0!1 H      1549
8156 61 12         MCW   @E@,1&X2                     %   7  1064  M W55 0!1         1549
8157 61 13  RUDIF  BL    DIFNT                        %   5  1071  B |90 T           1549
8158 61 14         MCW   @H@,1&X2                     %   7  1076  M W56 0!1         1549
8159 61 15         MCW   5&X2,EXIT                    %   7  1083  M 0!5 W21         1549
8160 61 16  DIFNT  BCE   MDIFY,4&X1,H                %   8  1090  B /20 0|4 H      1550
8161 61 17         MCW   @N@,NOAPX                    %   7  1098  M W49 S16        1550
8162 61 18         BCE   MDIFY,4&X1,}       GROUP MK  %   8  1105  B /20 0|4 } GMARK 1550
8163 61 19         MCW   @B@,GOBAK-3                  %   7  1113  M W54 W27        1550
8164 61 20  MDIFY  MCW   BOTM,MASK                    %   7  1120  M W45 W34        1550
8165 61 21         SW    006&X1                       %   4  1127  , 0|6            1551
8166 61 22         MCW   008&X1,MASK-9                %   7  1131  M 0|8 W25        1551
8167 61 23         MCW   008&X1,GOBAK                 %   7  1138  M 0|8 W30        1551
8168 61 24  CKSYN  B     TEST                         %   4  1145  B T01            1551
8169 61 25         DCW   @,@                          %   1  1149                  1551
8170 61 26         DCW   &I                           %   3  1152  W18              1551
8171 61 27         B     TEST                         %   4  1153  B T01            1551
8172 61 28         DCW   @#@                          %   1  1157                  1552
8173 61 29         DCW   &M1                          %   3  1160  W09              1552
8174 61 30         B     TEST                         %   4  1161  B T01            1552
8175 61 31         DCW   @,@                          %   1  1165                  1552
8176 61 32         DCW   &M2                          %   3  1168  W12              1552
8177 61 33         BWZ   M3IS1,000&X1,1               %   8  1169  V T86 0|0 1      1552
8178 61 34         B     TEST                         %   4  1177  B T01            1552
8179 61 35         DCW   @,@                          %   1  1181                  1553
8180 61 36         DCW   &M3                          %   3  1184  W15              1553
8181 61 37         BWZ   SEND,000&X1,1                %   8  1185  V /97 0|0 1      1553
8182 61 38         B     ERROR                        %   4  1193  B U80            1553
8183 61 39  SEND   MCW   HEX3,X3                      %   7  1197  M W37 099        1553
8184 61 40         MN    000&X1                       %   4  1204  D 0|0            1553
8185 61 41         SAR   X1                          %   4  1208  Q 089            1553
8186 61 42  SWTCH  NOP   KLOBR                       %   4  1212  N S59            1554
8187 61 43  NOAPX  NOP   REG                         %   4  1216  N S40            1554
8188 61 44         A     &1,GNSTMZ                    %   7  1220  A W57 151        1554
8189 61 45         LCA   MASK,000&X3                  %   7  1227  L W34 0?0        1554
8190 61 46         CHAIN 2                            %                  MACRO
8191               LCA                                %   1  1234  L      GEN   1554
8192               LCA                                %   1  1235  L      GEN   1554
8193 61 47         SBR   X3                           %   4  1236  H 099          1554
8194 61 48  REG    LCA   GM2-1,0&X3                   %   7  1240  L W25 0?0      1555
8195 61 49         CHAIN 8                            %                  MACRO
8196               LCA                                %   1  1247  L      GEN   1555
8197               LCA                                %   1  1248  L      GEN   1555
8198               LCA                                %   1  1249  L      GEN   1555
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 SEQ PG LIN  LABEL  OP     OPERANDS                                        SFX CT  LOCN  INSTRUCTION TYPE  CARD
8199                LCA                                                    %  1  1250  L           GEN   1555
8200                LCA                                                    %  1  1251  L           GEN   1555
8201                LCA                                                    %  1  1252  L           GEN   1555
8202                LCA                                                    %  1  1253  L           GEN   1556
8203                LCA                                                    %  1  1254  L           GEN   1556
8204 61 50          SBR    HEX3                                            %  4  1255  H W37                1556
8205 61 51  KLOBR   BCE    START,0,<                    12-6-8             %  8  1259  B 859 000 <          1556
8206 61 52          FQUIT                                                  %                        MACRO
8207                CS     332                                             %  4  1267  / 332          GEN   1556
8208                CS                                                     %  1  1271  /              GEN   1556
8209                CC     1                                               %  2  1272  F 1            GEN   1556
8210                MCW    @MESSAGE 2 - OBJECT PROGRAM TOO LARGE@,270      %  7  1274  M W93 270     GEN   1557
8211                W                                                      %  1  1281  2              GEN   1557
8212                CC     1                                               %  2  1282  F 1            GEN   1557
8213                BCE    *&6,MONTOR,1                                    %  8  1284  B S97 769 1      GEN   1557
8214                RWD    1                                               %  5  1292  U %U1 R         GEN   1557
8215                H      *-3                                             %  4  1297  . S97           GEN   1557
8216 61 53  TEST    SBR    X2                                              %  4  1301  H 094                 1557
8217 61 54          C      000&X1,000&X2                                   %  7  1305  C 0|0 0!0             1558
8218 61 55          SAR    X1                                              %  4  1312  Q 089                 1558
8219 61 56          BU     ERROR                                           %  5  1316  B U80 /               1558
8220 61 57          MCW    003&X2,*&7                                      %  7  1321  M 0!3 T34             1558
8221 61 58          MCW    000&X1,000                                      %  7  1328  M 0|0 000             1558
8222 61 59          S      COUNT#1                                         %  4  1335  S W94                 1558
8223 61 60  OK      A      &1,COUNT                                        %  7  1339  A W57 W94             1559
8224 61 61          BCE    004&X2,COUNT,D                                  %  8  1346  B 0!4 W94 D           1559
8225 61 62          MN     000&X1,RUOK&7                                   %  7  1354  D 0|0 T72             1559
8226 61 63          SAR    X1                                              %  4  1361  Q 089                 1559
8227 61 64  RUOK    BCE    OK,@0123456789@,0                               %  8  1365  B T39 X04 0          1559
8228 61 65          CHAIN  9                                               %                        MACRO
8229                BCE                                                    %  1  1373  B              GEN   1559
8230                BCE                                                    %  1  1374  B              GEN   1559
8231                BCE                                                    %  1  1375  B              GEN   1560
8232                BCE                                                    %  1  1376  B              GEN   1560
8233                BCE                                                    %  1  1377  B              GEN   1560
8234                BCE                                                    %  1  1378  B              GEN   1560
8235                BCE                                                    %  1  1379  B              GEN   1560
8236                BCE                                                    %  1  1380  B              GEN   1560
8237                BCE                                                    %  1  1381  B              GEN   1560
8238 61 66          B      ERROR                                           %  4  1382  B U80                 1561
8239 61 67  M3IS1   MCW    ONEADR,M3                                       %  7  1386  M 142 W15             1561
8240 61 68          B      SEND                                            %  4  1393  B /97                 1561
8241 61 69  ERR1    FTMSG  38,ILLEGAL RANGE OF DO,TOP,21                   %                        MACRO
8242        ERR1    CS     332                                             %  4  1397  / 332          GEN   1561
8243                CS                                                     %  1  1401  /              GEN   1561
8244                SW     FAILSW                                          %  4  1402  , 184          GEN   1561
8245                MN     TOP,224&21                                      %  7  1406  D W42 245       GEN   1561
8246                MN                                                     %  1  1413  D              GEN   1562
8247                MN                                                     %  1  1414  D              GEN   1562
8248                MCW    @ERROR 38 - ILLEGAL RANGE OF DO, STATEMENT @    %  4  1415  M X46          GEN   1562
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 SEQ PG LIN  LABEL  OP    OPERANDS                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD
8249                  W                                          %   1  1419  2           GEN   1562
8250                  BCV   *&5                                  %   5  1420  B U29 @     GEN   1562
8251                  B     *&3                                  %   4  1425  B U31       GEN   1562
8252                  CC    1                                    %   2  1429  F 1         GEN   1562
8253 61 70  AVOID     MCW   @B@,SWTCH                            %   7  1431  M W54 S12         1563
8254 61 71            B     CKSYN                                %   4  1438  B /45             1563
8255 61 72  ERR2      FTMSG 39,ILLEGAL NESTING,TOP,17            %                              MACRO
8256        ERR2      CS    332                                  %   4  1442  / 332       GEN   1563
8257                  CS                                         %   1  1446  /           GEN   1563
8258                  SW    FAILSW                               %   4  1447  , 184       GEN   1563
8259                  MN    TOP,224&17                           %   7  1451  D W42 241   GEN   1563
8260                  MN                                         %   1  1458  D           GEN   1563
8261                  MN                                         %   1  1459  D           GEN   1564
8262                  MCW   @ERROR 39 - ILLEGAL NESTING, STATEMENT @ %  4  1460  M X84       GEN   1564
8263                  W                                          %   1  1464  2           GEN   1564
8264                  BCV   *&5                                  %   5  1465  B U74 @     GEN   1564
8265                  B     *&3                                  %   4  1470  B U76       GEN   1564
8266                  CC    1                                    %   2  1474  F 1         GEN   1564
8267 61 73            B     AVOID                                %   4  1476  B U31             1564
8268 61 74  ERROR     FTMSG 40,DO SYNTAX,TOP,11                  %                              MACRO
8269        ERROR     CS    332                                  %   4  1480  / 332       GEN   1565
8270                  CS                                         %   1  1484  /           GEN   1565
8271                  SW    FAILSW                               %   4  1485  , 184       GEN   1565
8272                  MN    TOP,224&11                           %   7  1489  D W42 235   GEN   1565
8273                  MN                                         %   1  1496  D           GEN   1565
8274                  MN                                         %   1  1497  D           GEN   1565
8275                  MCW   @ERROR 40 - DO SYNTAX, STATEMENT @   %   4  1498  M Y16       GEN   1565
8276                  W                                          %   1  1502  2           GEN   1566
8277                  BCV   *&5                                  %   5  1503  B V12 @     GEN   1566
8278                  B     *&3                                  %   4  1508  B V14       GEN   1566
8279                  CC    1                                    %   2  1512  F 1         GEN   1566
8280 61 75            C     001&X1                               %   4  1514  C 0|1             1566
8281 61 76            SAR   X1                                   %   4  1518  Q 089             1566
8282 61 77            B     KLOBR                                %   4  1522  B S59             1566
8283 61 78  DUN       SBR   X1,5&X1                              %   7  1526  H 089 0|5         1567
8284 61 79  OUT       MCW   HEX3,X3                              %   7  1533  M W37 099         1567
8285 61 80            MN    0&X3                                 %   4  1540  D 0?0             1567
8286 61 81            SAR   X2                                   %   4  1544  Q 094             1567
8287 61 82  KLEAR     CS    0&X2                                 %   4  1548  / 0!0             1567
8288 61 83            SBR   X2                                   %   4  1552  H 094             1567
8289 61 84            C     0&X2,DOEND                           %   7  1556  C 0!0 Y99         1567
8290 61 85            BU    KLEAR                                %   5  1563  B V48 /           1568
8291 61 86            FENDX E,GM1,,,BEGINZ,,TABELZ,RESORT 1      %                              MACRO
8292                  BSS   333,E                                %   5  1568  B 333 E     GEN   1568
8293                  SBR   INITXT&3,BEGINZ                      %   7  1573  H 796 /75   GEN   1568
8294                  SBR   TCLEAR,TABELZ                        %   7  1580  H 710 M99   GEN   1568
8295                  LCA   @RESORT 1@,110                       %   7  1587  L Y24 110   GEN   1568
8296                  B     MONTER                               %   4  1594  B 700       GEN   1568
8297 61 87  GM1       DC    @}@        GROUP MK                  %   1  1598              GMARK 1568
8298 61 88            DCW   @T@                                  %   1  1599                    1568
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 SEQ PG LIN  LABEL   OP    OPERANDS                                        SFX CT  LOCN  INSTRUCTION TYPE  CARD
8299 61 89           DC    DOADR1                                           %   3  1602  924               1569
8300 61 90           DCW   @T@                                             %   1  1603                    1569
8301 61 91           DC    DOADR2                                           %   3  1606  921               1569
8302 61 92   M1      DCW   #3                                              %   3  1609                    1569
8303 61 93   M2      DCW   #3                                              %   3  1612                    1569
8304 61 94   M3      DCW   #3                                              %   3  1615                    1569
8305 61 95   I       DCW   #3                                              %   3  1618                    1570
8306 61 96   EXIT    DCW   #3                                              %   3  1621                    1570
8307 61 97   GM4     DC    @}@        GROUP MK                            %   1  1622              GMARK 1570
8308 61 98           DC    #3             XYZ OF INTERNAL NUMBER          %   3  1625                    1570
8309 61 99   GM2     DC    @}@       GROUP MK                             %   1  1626              GMARK 1570
8310 62 00           DCW   @T@                                             %   1  1627                    1570
8311 62 01   GOBAK   DC    #3                                              %   3  1630                    1570
8312 62 02   GM3     DC    @}@        GROUP MK                            %   1  1631              GMARK 1570
8313 62 03   MASK    DC    #3                                              %   3  1634                    1570
8314 62 04           LTORG *                                               %          1635
             HEX3 %  DCW   #03                                             %   3  1637              AREA  1570
                     DCW   @<@                                             %   1  1638              LIT   1570
                     DCW   @D@                                             %   1  1639              LIT   1570
             TOP  %  DCW   #03                                             %   3  1642              AREA  1570
             BOTM %  DCW   #03                                             %   3  1645              AREA  1571
             ACCUM%  DCW   #03                                             %   3  1648              AREA  1571
                     DCW   @N@                                             %   1  1649              LIT   1571
                     DCW   @   @                                           %   3  1652              LIT   1571
                     DCW   @T@                                             %   1  1653              LIT   1571
                     DCW   @B@                                             %   1  1654              LIT   1571
                     DCW   @E@                                             %   1  1655              LIT   1571
                     DCW   @H@                                             %   1  1656              LIT   1572
                     DCW   &1                                              %   1  1657              LIT   1572
                     DCW   @MESSAGE 2 - OBJECT PROGRAM TOO LARGE@          %  36  1693              LIT   1572
             COUNT%  DCW   #01                                             %   1  1694              AREA  1572
                     DCW   @0123456789@                                    %  10  1704              LIT   1573
                     DCW   @ERROR 38 - ILLEGAL RANGE OF DO, STATEMENT @    %  42  1746              LIT   1575
                     DCW   @ERROR 39 - ILLEGAL NESTING, STATEMENT @        %  38  1784              LIT   1576
                     DCW   @ERROR 40 - DO SYNTAX, STATEMENT @              %  32  1816              LIT   1577
                     DCW   @RESORT 1@                                      %   8  1824              LIT   1578
8315 62 05           DCW   @}@                              SYSTEM GROUP MARK %   1  1825              GMARK 1578
8316 62 06           ORG   *&X00                                           %          1900
8317 62 07   DOEND   EQU   *                                               %       1899
8318 62 08           XFR   INITL                                           %             B 838              1579
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 SEQ PG LIN  LABEL   OP    OPERANDS                                SFX CT  LOCN  INSTRUCTION TYPE  CARD
8319 62 09           JOB   1401 FORTRAN  RESORT PHASE ONE          %
8320 62 10           FBEGN RESORT 1,X1,,X2,,X3,,Z                  %                      MACRO
8321                 SFX   Z                                       Z                      GEN
8322          110    DCW   @RESORT 1@                              Z   8  0110             GEN   1582
8323          X1     EQU   089                                     Z      0089             GEN
8324          X2     EQU   094                                     Z      0094             GEN
8325          X3     EQU   099                                     Z      0099             GEN
8326 62 11           ORG   XBEGIN                                  Z             0838
8327 62 12   THREE   DCW   0                                       Z   1  0838                   1583
8328 62 13   COUNT   DCW   000                                     Z   3  0841                   1583
8329 62 14   ASIDE   DCW   000                                     Z   3  0844                   1583
8330 62 15   TBL1    DCW   000                                     Z   3  0847                   1583
8331 62 16   LAST    DCW   000                                     Z   3  0850                   1583
8332 62 17   STORE   DCW   000                                     Z   3  0853                   1583
8333 62 18   SAUCE   DCW   000                                     Z   3  0856                   1583
8334 62 19   DIFF    DCW   000                                     Z   3  0859                   1584
8335 62 20   ADDIN   DCW   000                                     Z   3  0862                   1584
8336 62 21   INTNO   DCW   000                                     Z   3  0865                   1584
8337 62 22   FROMX   EQU   SAUCE                                   Z      0856
8338 62 23   WKBK1   DCW   00000                                   Z   5  0870                   1584
8339 62 24   WKBK2   DCW   00000                                   Z   5  0875                   1584
8340 62 25   AREA1   DCW   00000                                   Z   5  0880                   1584
8341 62 26   ADRES   EQU   BSAUCE                                  Z      0148
8342 62 27   TBL2    DCW   000                                     Z   3  0883                   1584
8343 62 28   TEST1   DCW   0                                       Z   1  0884                   1585
8344 62 29   ZONE    DCW   99                                      Z   2  0886                   1585
8345 62 30   HOLD    DCW   @     @                                 Z   5  0891                   1585
8346 62 31   CNVRT   DCW   @     @                                 Z   5  0896                   1585
8347 62 32   TABLE   DCW   9                                       Z   1  0897                   1585
8348 62 33           DC    9                                       Z   1  0898                   1585
8349 62 34           DCW   @Z9@                                    Z   2  0900                   1585
8350 62 35           DCW   @R9@                                    Z   2  0902                   1585
8351 62 36           DCW   @I9@                                    Z   2  0904                   1586
8352 62 37           DCW   @9Z@                                    Z   2  0906                   1586
8353 62 38           DCW   @ZZ@                                    Z   2  0908                   1586
8354 62 39           DCW   @RZ@                                    Z   2  0910                   1586
8355 62 40           DCW   @IZ@                                    Z   2  0912                   1586
8356 62 41           DCW   @9R@                                    Z   2  0914                   1586
8357 62 42           DCW   @ZR@                                    Z   2  0916                   1586
8358 62 43           DCW   @RR@                                    Z   2  0918                   1587
8359 62 44           DCW   @IR@                                    Z   2  0920                   1587
8360 62 45           DCW   @9I@                                    Z   2  0922                   1587
8361 62 46           DCW   @ZI@                                    Z   2  0924                   1587
8362 62 47           DCW   @RI@                                    Z   2  0926                   1587
8363 62 48           DCW   @II@                                    Z   2  0928                   1587
8364 62 49   K5TOK3  SBR   CMBCK&3           CONVERT FIVE DIGIT NUMBER  Z   4  0929  H 968            1587
8365 62 50           ZA    CNVRT-3,X1        TO THREE DIGIT ADRES       Z   7  0933  ? 893 089        1588
8366 62 51           MZ    @ @,X1                    BLANK              Z   7  0940  Y /26 089        1588
8367 62 52           A     X1                                           Z   4  0947  A 089            1588
8368 62 53           MZ    TABLE&X1,CNVRT-2                             Z   7  0951  Y 8Z7 894        1588
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 SEQ PG LIN  LABEL  OP    OPERANDS                                    SFX CT  LOCN  INSTRUCTION TYPE  CARD
8369 62 54          MZ    TABLE&1&X1,CNVRT                             Z   7  0958  Y 8Z8 896        1588
8370 62 55   CMBCK  B     0000                                         Z   4  0965  B 000           1588
8371 62 56   EXPND  SBR   CZONE&10          CONVERT THREE DIGIT ADRES  Z   4  0969  H |24           1589
8372 62 57          MLC   @     @,HOLD      TO FIVE DIGIT NUMBER       Z   7  0973  M /31 891       1589
8373 62 58          MN    CNVRT,HOLD                                   Z   7  0980  D 896 891       1589
8374 63 59          MN                                                 Z   1  0987  D               1589
8375 62 60          MN                                                 Z   1  0988  D               1589
8376 62 61          MZ    CNVRT,ZONE                                   Z   7  0989  Y 896 886       1589
8377 62 62          MZ    CNVRT-2,ZONE-1                               Z   7  0996  Y 894 885       1589
8378 62 63          MLC   &TABLE&1,CZONE&6                             Z   7  1003  M /34 |20       1590
8379 62 64          S     CNVRT                                        Z   4  1010  S 896           1590
8380 62 65   CZONE  C     ZONE,000                                     Z   7  1014  C 886 000       1590
8381 62 66          BE    000                                          Z   5  1021  B 000 S         1590
8382 62 67          A     @1@,HOLD-3                                   Z   7  1026  A /35 888       1590
8383 62 68          SW    CZONE&4                                      Z   4  1033  , |18           1590
8384 62 69          A     @002@,CZONE&6                                Z   7  1037  A /38 |20       1591
8385 62 70          CW    CZONE&4                                      Z   4  1044  ) |18           1591
8386 62 71          B     CZONE                                        Z   4  1048  B |14           1591
8387 62 72   IMVUP  SBR   HERE&3                                      Z   4  1052  H |91           1591
8388 62 73          MN    0&X3                                         Z   4  1056  D 0?0           1591
8389 62 74          SAR   X3                                           Z   4  1060  Q 099           1591
8390 62 75   REMCK  MCM   1&X3                                        Z   4  1064  P 0?1           1591
8391 62 76          MN                                                 Z   1  1068  D               1592
8392 62 77          SBR   X3                                           Z   4  1069  H 099           1592
8393 62 78          BCE   REMCK,0&X3,|                                 Z   8  1073  B |64 0?0 |      1592
8394 62 79          SBR   X3,1&X3                                      Z   7  1081  H 099 0?1        1592
8395 62 80   HERE   B     0                                            Z   4  1088  B 000           1592
8396 62 81   ERRMS  FQUIT                                             Z                 MACRO
8397        ERRMS  CS    332                                          Z   4  1092  / 332      GEN   1592
8398               CS                                                 Z   1  1096  /          GEN   1592
8399               CC    1                                            Z   2  1097  F 1        GEN   1593
8400               MCW   @MESSAGE 2 - OBJECT PROGRAM TOO LARGE@,270    Z   7  1099  M /74 270  GEN   1593
8401               W                                                  Z   1  1106  2          GEN   1593
8402               CC    1                                            Z   2  1107  F 1        GEN   1593
8403               BCE   *&6,MONTOR,1                                 Z   8  1109  B /22 769 1 GEN   1593
8404               RWD   1                                            Z   5  1117  U %U1 R     GEN   1593
8405               H     *-3                                          Z   4  1122  . /22      GEN   1593
8406 62 82         LTORG *                                            Z            1126
                   DCW   @ @                                        Z   1  1126            LIT   1594
                   DCW   @     @                                    Z   5  1131            LIT   1594
                   DCW   &TABLEZ&1                                  Z   3  1134  898       ADCON 1594
                   DCW   @1@                                        Z   1  1135            LIT   1594
                   DCW   @002@                                      Z   3  1138            LIT   1594
                   DCW   @MESSAGE 2 - OBJECT PROGRAM TOO LARGE@     Z  36  1174            LIT   1595
8407 62 83   BEGIN  SBR   SAUCE,0&X3                                 Z   7  1175  H 856 0?0       1596
8408 62 84          SBR   X1,END                                     Z   7  1182  H 089 M99       1596
8409 62 85          SBR   TBL1              EQUIV TO ONE BELOW TBL1  Z   4  1189  H 847           1596
8410 62 86          MLC   INTST,TMS3&6                               Z   7  1193  M 183 S13       1596
8411 62 87          MZ    @Z@,TMS3&5                                 Z   7  1200  Y V23 S12       1596
8412 62 88   TMS3   SBR   X1,0                                       Z   7  1207  H 089 000       1596
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 SEQ PG LIN  LABEL  OP    OPERANDS                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD
8413 62 89          A     @1@,THREE                                 Z   7  1214  A V24 838         1597
8414 62 90          C     THREE,@3@                                 Z   7  1221  C 838 V25         1597
8415 62 91          BH    TMS3                                      Z   5  1228  B S07 U           1597
8416 62 92          SBR   COUNT,0&X1                                Z   7  1233  H 841 0|0         1597
8417 62 93          SBR   TBL2,1&X1          STARTING ADRES OF TBL2 Z   7  1240  H 883 0|1         1597
8418 62 94          MLC   @ @,THREE                                 Z   7  1247  M V26 838         1598
8419 62 95          BCE   *&5,GNSTM,         DO GEN STMNTS EXIST, TST BLANK Z   8  1254  B S66 151         1598
8420 62 96          B     *&27                                      Z   4  1262  B S92             1598
8421 62 97          SBR   ADDIN,1&X1                                Z   7  1266  H 862 0|1         1598
8422 62 98          SBR   CNVRT                                     Z   4  1273  H 896             1598
8423 62 99          B     EXPND                                     Z   4  1277  B 969             1598
8424 63 00          MLC   HOLD,WKBK1                                Z   7  1281  M 891 870         1599
8425 63 01          B     ROOM                                      Z   4  1288  B T61             1599
8426 63 02          MLC   GNSTM,WKBK2        STARTING ADRES OF TBL2 Z   7  1292  M 151 875         1599
8427 63 03          A     WKBK2              MULTIPLY BY SIX        Z   4  1299  A 875             1599
8428 63 04          A     WKBK2                                     Z   4  1303  A 875             1599
8429 63 05          A     GNSTM                                     Z   4  1307  A 151             1599
8430 63 06          A     GNSTM,WKBK2                               Z   7  1311  A 151 875         1599
8431 63 07          SBR   CNVRT,1&X1                               Z   7  1318  H 896 0|1         1600
8432 63 08          B     EXPND                                     Z   4  1325  B 969             1600
8433 63 09          MLC   HOLD,WKBK1                                Z   7  1329  M 891 870         1600
8434 63 10          A     WKBK2,WKBK1                               Z   7  1336  A 875 870         1600
8435 63 11          MLC   WKBK1,CNVRT                               Z   7  1343  M 870 896         1600
8436 63 12          B     K5TOK3                                    Z   4  1350  B 929             1600
8437 63 13          MLC   CNVRT,ADDIN        ONE POS ABOVE TBL2     Z   7  1354  M 896 862         1601
8438 63 14   ROOM   MLC   SAUCE,CNVRT                               Z   7  1361  M 856 896         1601
8439 63 15          B     EXPND                                     Z   4  1368  B 969             1601
8440 63 16          MLC   HOLD,AREA1                                Z   7  1372  M 891 880         1601
8441 63 17          C     WKBK1,AREA1                               Z   7  1379  C 870 880         1601
8442 63 18          BH    *&5                                       Z   5  1386  B T95 U           1601
8443 63 19          B     ERRMS                                     Z   4  1391  B |92             1602
8444 63 20          MESSG @STARTING ADDRESS OF STATEMENTS@,43,1,K    Z                        MACRO
8445                CC    1                                         Z   2  1395  F 1         GEN   1602
8446                CS    332                                       Z   4  1397  / 332       GEN   1602
8447                CS                                              Z   1  1401  /           GEN   1602
8448                MCW   @STARTING ADDRESS OF STATEMENTS@,43&200    Z   7  1402  M V56 243   GEN   1602
8449                W                                               Z   1  1409  2           GEN   1602
8450                CC    K                                         Z   2  1410  F K         GEN   1602
8451 63 21          CS    332                                       Z   4  1412  / 332             1603
8452 63 22          CS                                              Z   1  1416  /                 1603
8453 63 23          MCW   @SEQ@,208                                 Z   7  1417  M V59 208         1603
8454 63 24          MCW   @STARTING ADDRESS@,242                   Z   7  1424  M V75 242         1603
8455 63 25          MCW   @DISPLAY@,256                            Z   7  1431  M V82 256         1603
8456 63 26          W                                               Z   1  1438  2                 1603
8457 63 27          CC    J                                         Z   2  1439  F J               1603
8458 63 28          CS    332                                       Z   4  1441  / 332             1604
8459 63 29          CS                                              Z   1  1445  /                 1604
8460 63 30          LCA   @000@,208                                 Z   7  1446  L V85 208         1604
8461 63 31          MLC   FROMX,X1                                  Z   7  1453  M 856 089         1604
8462 63 32          SBR   X1,2&X1            GMWM1&1   TOP          Z   7  1460  H 089 0|2         1604
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 SEQ PG LIN  LABEL  OP    OPERANDS                                          SFX CT  LOCN  INSTRUCTION TYPE  CARD

8463 63 33          SBR   X3                                                 Z   4  1467  H 099             1604
8464 63 34          B     IMVUP                                              Z   4  1471  B |52             1604
8465 63 35          MLC   X3,X2                                              Z   7  1475  M 099 094         1605
8466 63 36          FENDX C,,,BEGIN,BEGIN,BEGIN,SYS1,RESORT 2                Z                        MACRO
8467                BSS   333,C                                              Z   5  1482  B 333 C     GEN   1605
8468                SBR   INITAP&6,BEGIN                                     Z   7  1487  H 786 /75   GEN   1605
8469                SBR   BCLEAR                                             Z   4  1494  H 833       GEN   1605
8470                SBR   INITXT&3,BEGIN                                     Z   7  1498  H 796 /75   GEN   1605
8471                SBR   TCLEAR,SYS1                                        Z   7  1505  H 710 V94   GEN   1605
8472                LCA   @RESORT 2@,110                                     Z   7  1512  L V93 110   GEN   1606
8473                B     MONTER                                             Z   4  1519  B 700       GEN   1606
8474 63 37          LTORG *                                                  Z             1523
                    DCW   @Z@                                                Z   1  1523              LIT   1606
                    DCW   @1@                                                Z   1  1524              LIT   1606
                    DCW   @3@                                                Z   1  1525              LIT   1606
                    DCW   @ @                                                Z   1  1526              LIT   1606
                    DCW   @STARTING ADDRESS OF STATEMENTS@                   Z  30  1556              LIT   1607
                    DCW   @SEQ@                                              Z   3  1559              LIT   1607
                    DCW   @STARTING ADDRESS@                                 Z  16  1575              LIT   1608
                    DCW   @DISPLAY@                                          Z   7  1582              LIT   1608
                    DCW   @000@                                              Z   3  1585              LIT   1608
                    DCW   @RESORT 2@                                         Z   8  1593              LIT   1608
8475 63 38   SYS1   DCW   @}@                          SYSTEM GROUP MARK     Z   1  1594              GMARK 1608
8476 63 39          XFR   BEGIN                                              Z            B /75             1609
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 SEQ PG LIN  LABEL  OP    OPERANDS                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD
8477 63 40          JOB   1401 FORTRAN  RESORT PHASE TWO            Z
8478 63 41          ORG   BEGIN                                     Z          1175
8479 63 42  110     DC    2                                         Z   1  0110                    1612
8480 63 43          MLC   TBL2,X3          ADRES OF TBL2 IN X3     Z   7  1175  M 883 099         1613
8481 63 44          B     SAVE                                      Z   4  1182  B S25            1613
8482 63 45  INIT    SBR   X2,2&X2                                  Z   7  1186  H 094 0!2         1613
8483 63 46          MZ    X3,ASIDE                                  Z   7  1193  Y 099 844         1613
8484 63 47          MLC   X2,X3                                    Z   7  1200  M 094 099         1613
8485 62 48          B     IMVUP                                     Z   4  1207  B |52             1613
8486 62 49          MLC   X3,X2             POS GMWM2&1 IN X2       Z   7  1211  M 099 094         1614
8487 62 50          MLC   ASIDE,X3                                  Z   7  1218  M 844 099         1614
8488 63 51  SAVE    SBR   STORE,2&X2        POS GMWM3-1 IN STORE    Z   7  1225  H 853 0!2         1614
8489 63 52          BWZ   *&5,0&X2,2        ZONE IN HUNS POS OF INT NO Z  8  1232  V S44 0!0 2       1614
8490 63 53          B     *&9                                       Z   4  1240  B S52            1614
8491 63 54          BWZ   CNTNU,2&X2,2      TST FOR ZN IN UNTS POS OF INT NO Z 8  1244  V S70 0!2 2  1615
8492 63 55          MLC   2&X2,X2           PCKUP INTNO FROM TBL PUT IN X2 Z  7  1252  M 0!2 094     1615
8493 63 56          MLC   0&X2,X2                                   Z   7  1259  M 0!0 094         1615
8494 63 57          B     *&8                                       Z   4  1266  B S77            1615
8495 63 58  CNTNU   MLC   2&X2,X2           PLACE INTNO IN X2       Z   7  1270  M 0!2 094         1615
8496 63 59          SBR   INTNO,0&X2                                Z   7  1277  H 865 0!0         1616
8497 63 60          SBR   MLPLY&6                                   Z   4  1284  H T01            1616
8498 63 61          MZ    @R@,MLPLY&5                               Z   7  1288  Y W55 T00         1616
8499 63 62  MLPLY   SBR   X2,0                                     Z   7  1295  H 094 000         1616
8500 63 63          MLC   INTNO,*&14                                Z   7  1302  M 865 T22         1616
8501 63 64          MZ    @R@,*&6                                   Z   7  1309  Y W55 T21         1616
8502 63 65          SBR   X2,0                                     Z   7  1316  H 094 000         1617
8503 63 66          C     TABEL&X2,@   @     TEST FOR FILLED TABLE-BLANKS Z 7  1323  C MR9 W58      1617
8504 63 67          BU    GNTBL                                     Z   5  1330  B T46 /          1617
8505 63 68          MLC   X1,TABEL&X2       HI ORD POS OF INST IN TBL1 Z  7  1335  M 089 MR9         1617
8506 63 69          B     SETX1                                     Z   4  1342  B T96            1617
8507 63 70  GNTBL   SW    3&X3                                      Z   4  1346  , 0?3            1617
8508 63 71          MLC   TABEL&X2,5&X3     GEN BRANCH SECOND IN TBL2 Z  7  1350  M MR9 0?5         1618
8509 63 72          CW    3&X3                                      Z   4  1357  ) 0?3            1618
8510 63 73          MLC   X1,2&X3           ORIG INST FIRST IN TBL2 Z   7  1361  M 089 0?2         1618
8511 63 74          MLC   @1@,TEST1         SWTCH FOR REPLC TBL     Z   7  1368  M W59 884         1618
8512 63 75          SBR   TABEL&X2,2&X3     LOW ORDER POS OF ENTRY1, TBL2 Z 7  1375  H MR9 0?2      1618
8513 63 76          MZ    @Z@,TABEL-1&X2    A ZONE IN TENS POS OF TBL1 Z  7  1382  Y W60 MR8         1618
8514 63 77          SBR   X3,6&X3                                   Z   7  1389  H 099 0?6         1619
8515 63 78  SETX1   MLC   STORE,X2                                  Z   7  1396  M 853 094         1619
8516 63 79          C     ADRES,STORE                               Z   7  1403  C 148 853         1619
8517 63 80          BU    RESET                                     Z   5  1410  B V90 /           1619
8518 63 81          BCE   CTOAL,TEST1,0                            Z   8  1415  B U48 884 0       1619
8519 63 82          MLC   @0@,TEST1                                 Z   7  1423  M W61 884         1620
8520 63 83          MLC   X1,X3                                     Z   7  1430  M 089 099         1620
8521 63 84          B     IMVUP                                     Z   4  1437  B |52             1620
8522 63 85          MZ    @Z@,1&X3                                  Z   7  1441  Y W60 0?1         1620
8523 63 86  CTOAL   MLC   ADDIN,X2                                  Z   7  1448  M 862 094         1620
8524 63 87          LCA   @:@,0&X2          5-8 WITH WM ABOVE PROGRAM Z  7  1455  L W62 0!0         1620
8525 63 88          MLC   TBL1,X3           ADRES ONE POS ABOVE TABLE 1 Z  7  1462  M 847 099         1621
8526 63 89          SBR   X3,3&X3                                   Z   7  1469  H 099 0?3         1621
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 SEQ PG LIN  LABEL  OP    OPERANDS                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD
8527 63 90          MLC   86,CNVRT          TRUE STARTING ADRES     Z   7  1476  M 086 896        1621
8528 63 91          B     EXPND                                     Z   4  1483  B 969           1621
8529 63 92          MLC   HOLD,WKBK1                                Z   7  1487  M 891 870        1621
8530 63 93          SBR   CNVRT,0&X2                                Z   7  1494  H 896 0!0        1621
8531 63 94          B     EXPND                                     Z   4  1501  B 969           1622
8532 63 95          MLC   HOLD,WKBK2                                Z   7  1505  M 891 875        1622
8533 63 96          S     WKBK2,WKBK1                               Z   7  1512  S 875 870        1622
8534 63 97          BWZ   *&5,WKBK1,K                IS DIFF NEG   Z   8  1519  V V31 870 K      1622
8535 63 98          B     *&8                                       Z   4  1527  B V38           1622
8536 63 99          A     @16000@,WKBK1                             Z   7  1531  A W67 870        1622
8537 64 00          MLC   WKBK1,CNVRT                              Z   7  1538  M 870 896        1623
8538 64 01          B     K5TOK3                                    Z   4  1545  B 929           1623
8539 64 02          MLC   CNVRT,DIFF        DIFF BET ACT AND FIXED ADRES  Z   7  1549  M 896 859        1623
8540 64 03          SBR   X2,1&X2           HIGH ORD ADRES OF SORTED PROGRAM  Z   7  1556  H 094 0!1        1623
8541 64 04          SBR   INTST                                     Z   4  1563  H 183           1623
8542 64 05          FENDX C,,,,,,SYS2,RESORT 3                      Z                        MACRO
8543                BSS   333,C                                     Z   5  1567  B 333 C     GEN   1623
8544                SBR   TCLEAR,SYS2                               Z   7  1572  H 710 W76   GEN   1624
8545                LCA   @RESORT 3@,110                            Z   7  1579  L W75 110   GEN   1624
8546                B     MONTER                                    Z   4  1586  B 700       GEN   1624
8547 64 06  RESET   MLC   X3,ASIDE                                  Z   7  1590  M 099 844        1624
8548 64 07          MLC   X1,X3                                     Z   7  1597  M 089 099        1624
8549 64 08          B     IMVUP             SET X1 TO GMWM1&1 OF NXT INSTR  Z   4  1604  B |52           1624
8550 64 09          MLC   X3,X1                                     Z   7  1608  M 099 089        1625
8551 64 10          MLC   ASIDE,X3                                  Z   7  1615  M 844 099        1625
8552 64 11          BCE   *&15,TEST1,0                              Z   8  1622  B W44 884 0      1625
8553 64 12          MLC   @0@,TEST1                                 Z   7  1630  M W61 884        1625
8554 64 13          MZ    @Z@,1&X1                                  Z   7  1637  Y W60 0|1        1625
8555 64 14          SBR   X1,4&X1                                   Z   7  1644  H 089 0|4        1626
8556 64 15          B     INIT                                      Z   4  1651  B /86           1626
8557 64 16          LTORG *                                         Z            1655
                    DCW   @R@                                       Z   1  1655             LIT   1626
                    DCW   @   @                                     Z   3  1658             LIT   1626
                    DCW   @1@                                       Z   1  1659             LIT   1626
                    DCW   @Z@                                       Z   1  1660             LIT   1626
                    DCW   @0@                                       Z   1  1661             LIT   1626
                    DCW   @:@                                       Z   1  1662             LIT   1627
                    DCW   @16000@                                   Z   5  1667             LIT   1627
                    DCW   @RESORT 3@                                Z   8  1675             LIT   1627
8558 64 17  SYS2    DCW   @}@                   SYSTEM GROUP MARK   Z   1  1676             GMARK 1627
8559 64 18          XFR   BEGIN                                     Z          B /75           1628
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 SEQ PG LIN  LABEL  OP   OPERANDS                                SFX CT  LOCN  INSTRUCTION TYPE  CARD
8560 64 19          JOB  1401 FORTRAN  RESORT PHASE THREE        Z
8561 64 20          ORG  BEGIN                                   Z          1175
8562 64 21  110     DC   @3@                                     Z   1  0110                    1631
8563 64 22          SW   GMWM                                    Z   4  1175  , M60             1632
8564 64 23          B    NEXT&7                                  Z   4  1179  B /90             1632
8565 64 24  NEXT    SBR  X3,0              RE-INIT X3           Z   7  1183  H 099 000         1632
8566 64 25          SBR  LAST                                    Z   4  1190  H 850             1632
8567 64 26          BCE  ADONE,0&X3,       TST FOR BLANKS IN TBL Z  8  1194  B Z22 0?0         1632
8568 64 27          SBR  NEXT&6,3&X3                             Z   7  1202  H /89 0?3         1632
8569 64 28          MN   0&X3                                    Z   4  1209  D 0?0             1632
8570 64 29          SAR  *&7                                     Z   4  1213  Q S23             1633
8571 64 30          BWZ  CASE2,0,S         A ZONE IN TENS POS OF TBL1 Z 8  1217  V Y18 000 S     1633
8572 64 31          MLC  0&X3,X1           PLACE HI ORD POS OF INST IN X1 Z 7  1225  M 0?0 089     1633
8573 64 32          SBR  ADDIN,0&X3                              Z   7  1232  H 862 0?0         1633
8574 64 33          MLC  X1,PREP1#3        SAVE X1              Z   7  1239  M 089 M39         1633
8575 64 34  SPACE   MLC  X1,X3                                   Z   7  1246  M 089 099         1634
8576 64 35          B    IMVUP                                   Z   4  1253  B |52             1634
8577 64 36          MLC  X3,CNVRT                                Z   7  1257  M 099 896         1634
8578 64 37          B    EXPND                                   Z   4  1264  B 969             1634
8579 64 38          MLC  HOLD,AREA1                              Z   7  1268  M 891 880         1634
8580 64 39          A    @1@,AREA1                               Z   7  1275  A M40 880         1634
8581 64 40          MLC  PREP1,CNVRT                             Z   7  1282  M M39 896         1635
8582 64 41          B    EXPND                                   Z   4  1289  B 969             1635
8583 64 42          MLC  HOLD,AREA2                              Z   7  1293  M 891 M34         1635
8584 64 43          S    AREA2,AREA1       LNGTH OF NXT INST TO BE MOVED Z 7  1300  S M34 880     1635
8585 64 44          MLC  X2,CNVRT          NXT AVAIL POS IN SORTED AREA Z 7  1307  M 094 896     1635
8586 64 45          B    EXPND                                   Z   4  1314  B 969             1635
8587 64 46          MLC  HOLD,WKBK1                              Z   7  1318  M 891 870         1636
8588 64 47          B    NUFRM                                   Z   4  1325  B Y82             1636
8589 64 48          BL   SQUEZ                                   Z   5  1329  B Z63 T           1636
8590 64 49  LIST    MLC  PREP1,X1                                Z   7  1334  M M39 089         1636
8591 64 50          BCE  *&12,TEST2,1      PRINT STMT NO, HI ORD ADRES Z 8  1341  B T60 M35 1     1636
8592 64 51          A    @1@,208                                 Z   7  1349  A M40 208         1636
8593 64 52          B    ADDR1                                   Z   4  1356  B V27             1637
8594 64 53          MLC  @0@,TEST2         RESET INDICATOR      Z   7  1360  M M41 M35         1637
8595 64 54          MLC  X3,GARY&6                               Z   7  1367  M 099 V26         1637
8596 64 55          MCW  3&X1,X3                                 Z   7  1374  M 0|3 099         1637
8597 64 56          MCW  0&X3,X3                                 Z   7  1381  M 0?0 099         1637
8598 64 57          SBR  3&X1,4&X3                               Z   7  1388  H 0|3 0?4         1637
8599 64 58          MA   DIFF,3&X1                               Z   7  1395  # 859 0|3         1638
8600 64 59          MCW  X1,HEX1#3                               Z   7  1402  M 089 M44         1638
8601 64 60  ROUND   MZ   *-4,9&X3                               Z   7  1409  Y U11 0?9         1638
8602 64 61          MZ   *-4,12&X3                              Z   7  1416  Y U18 0A2         1638
8603 64 62          MZ   *-4,15&X3                              Z   7  1423  Y U25 0A5         1638
8604 64 63          MZ   *-4,18&X3                              Z   7  1430  Y U32 0A8         1639
8605 64 64          BCE  OUTER,22&X3,      BLANK                Z   8  1437  B U84 0B2         1639
8606 64 65          MCW  22&X3,X1                                Z   7  1445  M 0B2 089         1639
8607 64 66          MCW  0&X1,22&X3                              Z   7  1452  M 0|0 0B2         1639
8608 64 67          MA   @004@,22&X3                             Z   7  1459  # M47 0B2         1639
8609 64 68          MA   DIFF,22&X3                             Z   7  1466  # 859 0B2         1640
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 SEQ PG LIN  LABEL  OP    OPERANDS                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD
8610 64 69          MCW   0&X1,X3                                   Z   7  1473  M 0|0 099        1640
8611 64 70          B     ROUND                                     Z   4  1480  B U09           1640
8612 64 71   OUTER  SBR   22&X3,4&X2                                Z   7  1484  H 0B2 0!4       1640
8613 64 72          MA    DIFF,22&X3                                Z   7  1491  # 859 0B2       1640
8614 64 73          MCW   HEX1,X1                                   Z   7  1498  M M44 089       1640
8615 64 74          BCE   *&8,0&X1,B                                Z   8  1505  B V20 0|0 B     1641
8616 64 75          SBR   3&X1,DOADR3                               Z   7  1513  H 0|3 918       1641
8617 64 76   GARY   SBR   X3,0                                      Z   7  1520  H 099 000       1641
8618 64 77   ADDR1  MCW   DIFF,227                                   Z   7  1527  M 859 227       1641
8619 64 78          MA    X2,227                                    Z   7  1534  # 094 227       1641
8620 64 79          MCW   227,X3                                    Z   7  1541  M 227 099       1642
8621 64 80          MCW   X3,CNVRT                                  Z   7  1548  M 099 896       1642
8622 64 81          B     EXPND                                     Z   4  1555  B 969           1642
8623 64 82          MCS   HOLD,244                                  Z   7  1559  Z 891 244       1642
8624 64 83          MCW   X3,256                                    Z   7  1566  M 099 256       1642
8625 64 84          MA    @004@,256                                 Z   7  1573  # M47 256       1642
8626 64 85          W                                               Z   1  1580  2               1643
8627 64 86          FORMS                                           Z                  MACRO
8628                BCV   *&5                                       Z   5  1581  B V90 @    GEN  1643
8629                B     *&3                                       Z   4  1586  B V92      GEN  1643
8630                CC    1                                         Z   2  1590  F 1        GEN  1643
8631 65 87          MLC   X2,SYMBL-1                               Z   7  1592  M 094 W93       1643
8632 64 88          BCE   CNTU2,0&X1,}       DUZ STMNT EXIST   12-7-8 Z   8  1599  B W46 0|0 } GMARK 1643
8633 64 89          MN    0&X2                MOVE STATEMENT            Z   4  1607  D 0!0           1643
8634 64 90          SAR   X2                                        Z   4  1611  Q 094           1644
8635 64 91   CTNMV  MCM   0&X1                                      Z   4  1615  P 0|0           1644
8636 64 92          SAR   STRX1&6                                   Z   4  1619  Q W41           1644
8637 64 93          MCM   0&X1,1&X2                                Z   7  1623  P 0|0 0!1       1644
8638 64 94          MN                                              Z   1  1630  D               1644
8639 64 95          SBR   X2                                        Z   4  1631  H 094           1644
8640 64 96   STRX1  SBR   X1,0                                      Z   7  1635  H 089 000       1644
8641 64 971         B     *&15                                  V3M4 Z   4  1642  B W60           1645
8642 64 972  CNTU2  SBR   X1,1&X1                               V3M4 Z   7  1646  H 089 0|1       1645
8643 64 973         MLC   @B@,SYMBL&7                           V3M4 Z   7  1653  M M48 X01       1645
8644 64 98          BWZ   *&5,0&X1,2          DUZ REPLC TBL NEED UPDATING Z   8  1660  V W72 0|0 2     1645
8645 64 99          B     CHNGE                                     Z   4  1668  B W80           1645
8646 65 00          BWZ   SYMBL,2&X1,2                             Z   8  1672  V W94 0|2 2     1645
8647 65 04   CHNGE  MLC   2&X1,X3             UPDATE REPLC TABLE        Z   7  1680  M 0|2 099       1646
8648 65 05          SBR   0&X3,0                                     Z   7  1687  H 0?0 000       1646
8649 65 06   SYMBL  MLC   @:@,0&X1            MV SYMB INTO STMNT  5-8   Z   7  1694  M M49 0|0       1646
8650 65 07          NOP   BOTOM               SKIP TRAWM FOR NO STMNT   Z   4  1701  N X53           1646
8651 65 08          MN    0&X1                                      Z   4  1705  D 0|0           1646
8652 65 09          MN                                              Z   1  1709  D               1646
8653 65 10          SAR   X1                  GMWM2-1 OF STMNT JUST MOVED Z   4  1710  Q 089           1646
8654 65 11          MN    0&X2                                      Z   4  1714  D 0!0           1647
8655 65 12          SAR   TRAWM&6                                   Z   4  1718  Q X28           1647
8656 65 13   TRAWM  LCA   0&X1,0&X2           TRANSFER WORD MARKS       Z   7  1722  L 0|0 0!0       1647
8657 65 14          SBR   TRAWM&6                                   Z   4  1729  H X28           1647
8658 65 15          C     0&X1                                      Z   4  1733  C 0|0           1647
8659 65 16          SAR   X1                                        Z   4  1737  Q 089           1647
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 SEQ PG LIN  LABEL  OP    OPERANDS                                SFX CT  LOCN  INSTRUCTION TYPE  CARD
8660 65 17          BCE   *&5,0&X1,}          12-7-8              Z   8  1741  B X53 0|0 } GMARK 1647
8661 65 18          B     TRAWM                                   Z   4  1749  B X22           1648
8662 65 19  BOTOM   MLC   @N@,SYMBL&7        RE-INIT NOP BRANCH  Z   7  1753  M M50 X01      1648
8663 65 20          C     LAST,COUNT                              Z   7  1760  C 850 841      1648
8664 65 21          BU    TSTCS                                   Z   5  1767  B Y06 /        1648
8665 65 22  LDSYM   LCA   @:@,0&X2           5-8                 Z   7  1772  L M49 0!0      1648
8666 65 23          SBR   X3                                      Z   4  1779  H 099          1648
8667 65 24          FENDX C,,,,,,SYSGM,RESORT 4                   Z                 MACRO
8668                BSS   333,C                                   Z   5  1783  B 333 C   GEN  1648
8669                SBR   TCLEAR,SYSGM                            Z   7  1788  H 710 M61 GEN  1649
8670                LCA   @RESORT 4@,110                          Z   7  1795  L M58 110 GEN  1649
8671                B     MONTER                                  Z   4  1802  B 700     GEN  1649
8672 65 25  TSTCS   BCE   PART2,TEST1,1      TST FOR 2ND PART OF GEN INT NO  Z   8  1806  B Y50 884 1   1649
8673 65 26          B     NEXT               SORT NEXT STATEMENT  Z   4  1814  B /83          1649
8674 65 27  CASE2   MLC   0&X3,X3            LOW ORD ADRES OF TBL2  Z   7  1818  M 0?0 099      1649
8675 65 28          MLC   0&X3,X1                                  Z   7  1825  M 0?0 089      1650
8676 65 29          SBR   PART2&10,3&X3                           Z   7  1832  H Y60 0?3      1650
8677 65 30          MLC   @1@,TEST1                               Z   7  1839  M M40 884      1650
8678 65 31          B     SPACE-14                                Z   4  1846  B S32          1650
8679 65 32  PART2   MLC   @0@,TEST1           RESET INDICATOR     Z   7  1850  M M41 884      1650
8680 65 33          MLC   0,X1                                    Z   7  1857  M 000 089      1650
8681 65 34          MLC   PART2&10,ADDIN      PREPX3 FOR WMTST    Z   7  1864  M Y60 862      1651
8682 65 35          MLC   @1@,TEST2                               Z   7  1871  M M40 M35      1651
8683 65 36          B     SPACE-7                                 Z   4  1878  B S39          1651
8684 65 37  NUFRM   SBR   STREG&3                                 Z   4  1882  H Z21          1651
8685 65 38          MLC   FROMX,CNVRT                             Z   7  1886  M 856 896      1651
8686 65 39          B     EXPND                                   Z   4  1893  B 969          1651
8687 65 40          MLC   HOLD,WKBK2                             Z   7  1897  M 891 875      1652
8688 65 41          S     WKBK1,WKBK2         SPACE AVAIL FOR NXT INST  Z   7  1904  S 870 875  1652
8689 65 42          C     AREA1,WKBK2                             Z   7  1911  C 880 875      1652
8690 65 43  STREG   B     0                                       Z   4  1918  B 000          1652
8691 65 44  ADONE   A     @1@,208             ADD 1 FOR VANISHED STMNT  Z   7  1922  A M40 208  1652
8692 65 45          C     LAST,COUNT                              Z   7  1929  C 850 841      1652
8693 65 46          BE    LDSYM                                   Z   5  1936  B X72 S        1653
8694 65 47          SBR   X3,3&X3                                 Z   7  1941  H 099 0?3      1653
8695 65 48          SBR   LAST                                    Z   4  1948  H 850          1653
8696 65 49          B     NEXT&11                                 Z   4  1952  B /94          1653
8697 65 50  FIXIT   SBR   FROMX,2&X3          NEW GMWM1-1 IF HI ORD STMNT  Z   7  1956  H 856 0?2  1653
8698 65 51  SQUEZ   MLC   FROMX,X3            GMWM1-1 OR HIORD STMNT  Z   7  1963  M 856 099      1653
8699 65 52          SBR   X3,2&X3             GMWM1&1 OF HI ORD STMNT  Z   7  1970  H 099 0?2      1654
8700 65 53          B     IMVUP                                   Z   4  1977  B |52          1654
8701 65 54          BCE   FIXIT,0&X3,:        TST FOR USED HI ORD STMNTS 5-8  Z   8  1981  B Z56 0?0 :  1654
8702 65 55          B     NUFRM                                   Z   4  1989  B Y82          1654
8703 65 56          BL    LOOP-7                                  Z   5  1993  B !02 T        1654
8704 65 57          B     LIST                                    Z   4  1998  B T34          1654
8705 65 58          SBR   SAVE1&6,0&X2                           Z   7  2002  H M11 0!0      1654
8706 65 59  LOOP    C     X3,PARAMA&2                             Z   7  2009  C 099 688      1655
8707 65 60          BE    LOPP                                    Z   5  2016  B !36 S        1655
8708 65 61          SBR   X1,3&X3             SAVE GMWM3          Z   7  2021  H 089 0?3      1655
8709 65 62          BCE   MVAGN-7,0&X1,}      12-7-8              Z   8  2028  B !49 0|0 } GMARK 1655
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 SEQ PG LIN  LABEL  OP    OPERANDS                                SFX CT  LOCN  INSTRUCTION TYPE  CARD
8710 65 63   LOPP   B     NUFRM                                    Z   4  2036  B Y82             1655
8711 65 64          BL    ERRMS                                    Z   5  2040  B |92 T           1655
8712 65 65          B     SAVE1                                    Z   4  2045  B M05             1656
8713 65 66          SBR   X3,4&X3                                 Z   7  2049  H 099 0?4         1656
8714 65 67   MVAGN  B     IMVUP                                    Z   4  2056  B |52             1656
8715 65 68          C     0&X3,@:@          SEARCH FOR USED STMNT  5-8 Z   7  2060  C 0?0 M49         1656
8716 65 69          BU    LOOP                                     Z   5  2067  B !09 /           1656
8717 65 70          SBR   HOLD2&6,0&X3                             Z   7  2072  H J38 0?0         1656
8718 65 71          SBR   STORE,2&X3                               Z   7  2079  H 853 0?2         1657
8719 65 72          SBR   X3,3&X3           TOX ADRES IN X3        Z   7  2086  H 099 0?3         1657
8720 65 73   MVDWN  LCA   0&X1,0&X3         OVERLAY USED STMNTS      Z   7  2093  L 0|0 0?0         1657
8721 65 74          SAR   X1                                       Z   4  2100  Q 089             1657
8722 65 75          C     0&X3                                     Z   4  2104  C 0?0             1657
8723 65 76          SAR   X3                                       Z   4  2108  Q 099             1657
8724 65 77          BCE   *&5,0&X1,}         12-7-8                 Z   8  2112  B J24 0|0 } GMARK 1658
8725 65 78          B     MVDWN                                    Z   4  2120  B !93             1658
8726 65 79          MN    0&X1                                     Z   4  2124  D 0|0             1658
8727 65 80          SAR   ASIDE                                    Z   4  2128  Q 844             1658
8728 65 81   HOLD2  SBR   X1,0                                    Z   7  2132  H 089 000         1658
8729 65 82          BWZ   *&5,1&X1,S         A ZONE IN TENS POS OF INST Z   8  2139  V J51 0|1 S      1658
8730 65 83          B     *&8                                      Z   4  2147  B J58             1658
8731 65 84          MLC   @1@,TEST3                                Z   7  2151  M M40 M36         1659
8732 65 85          BWZ   *&5,0&X1,2         TST FOR ZN IN INTNO ST JUST MOVED Z 8  2158  V J70 0|0 2  1659
8733 65 86          B     *&9                                      Z   4  2166  B J78             1659
8734 65 87          BWZ   UPDAT,2&X1,2       TST FOR ZN IN UNITS POS  Z   8  2170  V J96 0|2 2      1659
8735 65 88          MLC   2&X1,X1            ADRES OF INT NO        Z   7  2178  M 0|2 089         1659
8736 65 89          MLC   0&X1,X2            INT NO IN X2           Z   7  2185  M 0|0 094         1660
8737 65 90          B     *&8                                      Z   4  2192  B K03             1660
8738 65 91   UPDAT  MLC   2&X1,X2             INIT NO IN X2          Z   7  2196  M 0|2 094         1660
8739 65 92          SBR   INTNO,0&X2         MULT INT NO BY 3       Z   7  2203  H 865 0!0         1660
8740 65 93          SBR   MULT&6                                    Z   4  2210  H K27             1660
8741 65 94          MZ    @R@,MULT&5                               Z   7  2214  Y M59 K26         1660
8742 65 95   MULT   SBR   X2,0                                     Z   7  2221  H 094 000         1661
8743 65 96          MLC   INTNO,*&14                               Z   7  2228  M 865 K48         1661
8744 65 97          MZ    @R@,*&6                                  Z   7  2235  Y M59 K47         1661
8745 65 98          SBR   X2,0               ENTRY POS ON TBL1      Z   7  2242  H 094 000         1661
8746 65 99          BWZ   ACHCK,TABEL-1&X2,S                       Z   8  2249  V K68 MR8 S      1661
8747 66 00          SBR   TABEL&X2,1&X3      NEW HI ORD POS IN TBL1 Z   7  2257  H MR9 0?1         1662
8748 66 01          B     NUPOS&14                                 Z   4  2264  B L08             1662
8749 66 02   ACHCK  MLC   TABEL&X2,X1                              Z   7  2268  M MR9 089         1662
8750 66 03          BCE   NUPOS,TEST3,1                            Z   8  2275  B K94 M36 1      1662
8751 66 04          SBR   3&X1,1&X3          NEW HI ORD POS IN TBL2, ENTRY2 Z 7  2283  H 0|3 0?1         1662
8752 66 05          B     NUPOS&14                                 Z   4  2290  B L08             1662
8753 66 06   NUPOS  SBR   0&X1,1&X3          NEW HI ORD POS IN TBL2, ENTRY1 Z 7  2294  H 0|0 0?1         1663
8754 66 07          MLC   @0@,TEST3                                Z   7  2301  M M41 M36         1663
8755 66 08          C     ASIDE,FROMX        WAS WHOLE TOP MOVED DOWN Z   7  2308  C 844 856         1663
8756 66 09          BE    RTNLD                                    Z   5  2315  B L48 S           1663
8757 66 10          MLC   ASIDE,X1                                 Z   7  2320  M 844 089         1663
8758 66 11          MN    0&X3                                     Z   4  2327  D 0?0             1663
8759 66 12          MN                                             Z   1  2331  D                 1663
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 SEQ PG LIN  LABEL   OP    OPERANDS                                        SFX CT  LOCN  INSTRUCTION TYPE  CARD

8760 66 13           MN                                                    Z   1  2332  D                 1664
8761 66 14           SAR   HOLD2&6                                         Z   4  2333  Q J38             1664
8762 66 15           SBR   X1,1&X1                                         Z   7  2337  H 089 0|1         1664
8763 66 16           B     MVDWN                                           Z   4  2344  B !93            1664
8764 66 17   RTNLD   LCA   GMWM,0&X3                                       Z   7  2348  L M60 0?0         1664
8765 66 18           SBR   FROMX              NEW GMWM1-1 OF HI ORD UNSRT INST Z   4  2355  H 856            1664
8766 66 19           C     ADRES,STORE                                     Z   7  2359  C 148 853         1664
8767 66 20           BE    FINIS                                           Z   5  2366  B L96 S           1665
8768 66 21           MLC   STORE,X3                                        Z   7  2371  M 853 099         1665
8769 66 22           SBR   X1,1&X3                                        Z   7  2378  H 089 0?1         1665
8770 66 23           SBR   X3,2&X3                                        Z   7  2385  H 099 0?2         1665
8771 66 24           B     MVAGN                                           Z   4  2392  B !56            1665
8772 66 25   FINIS   B     NUFRM                                           Z   4  2396  B Y82            1665
8773 66 26           BL    ERRMS                                           Z   5  2400  B |92 T          1665
8774 66 27   SAVE1   SBR   X2,0                                           Z   7  2405  H 094 000         1666
8775 66 28           MLC   ADDIN,X3                                        Z   7  2412  M 862 099         1666
8776 66 29           MLC   0&X3,PREP1                                      Z   7  2419  M 0?0 M39         1666
8777 66 30           B     LIST                                            Z   4  2426  B T34            1666
8778 66 31   AREA2   DCW   00000                                          Z   5  2434                   1666
8779 66 32   TEST2   DCW   0                                              Z   1  2435                   1666
8780 66 33   TEST3   DCW   0                                              Z   1  2436                   1666
8781 66 34           LTORG *                                               Z          2437
             PREP1Z  DCW   #03                                           Z   3  2439            AREA  1667
                     DCW   @1@                                           Z   1  2440            LIT   1667
                     DCW   @0@                                           Z   1  2441            LIT   1667
             HEX1 Z  DCW   #03                                           Z   3  2444            AREA  1667
                     DCW   @004@                                         Z   3  2447            LIT   1667
                     DCW   @B@                                           Z   1  2448            LIT   1667
                     DCW   @:@                                           Z   1  2449            LIT   1667
                     DCW   @N@                                           Z   1  2450            LIT   1668
                     DCW   @RESORT 4@                                    Z   8  2458            LIT   1668
                     DCW   @R@                                           Z   1  2459            LIT   1668
8782 66 35   GMWM    DC    @}@          WORK GROUP MK                    Z   1  2460            GMARK 1668
8783 66 36   SYSGM   DCW   @}@         SYSTEM GROUP MK                   Z   1  2461            GMARK 1668
8784 66 37           ORG   *&X00                                           Z          2500
8785 66 38   END     EQU   *                                               Z      2499
8786 66 39   TABEL   EQU   END                                             Z      2499
8787 66 40           XFR   BEGIN                                           Z          B /75            1669
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 SEQ PG LIN  LABEL  OP    OPERANDS                                SFX CT  LOCN  INSTRUCTION TYPE  CARD
8788 66 41          JOB   1401 FORTRAN  RESORT PHASE FOUR         Z
8789 66 42          ORG   BEGIN                                   Z          1175
8790 66 43   110    DC    4                                       Z   1  0110                    1672
8791 66 44          MLC   BSAUCE,X1                              Z   7  1175  M 148 089         1673
8792 66 45          SBR   X1,1&X1                                Z   7  1182  H 089 0|1         1673
8793 66 46          C     ADTBLL,X1                               Z   7  1189  C 145 089         1673
8794 66 47          BE    ENDPH                                   Z   5  1196  B S60 S           1673
8795 66 48   CONST  SBR   X1,3&X1            NXT TBL ENTRY       Z   7  1201  H 089 0|3         1673
8796 66 49          MLC   0&X1,X2             CONTRNTS OF TBL IN X2 Z  7  1208  M 0|0 094         1674
8797 66 50          BWZ   BYP4,X2-1,2                            Z   8  1215  V S34 093 2       1674
8798 66 51          MCW   0&X2,0&X1                             Z   7  1223  M 0!0 0|0         1674
8799 66 52          B     CMP4                                    Z   4  1230  B S48            1674
8800 66 53   BYP4   MA    DIFF,X2                                 Z   7  1234  # 859 094         1674
8801 66 54          MCW   X2,0&X1                               Z   7  1241  M 094 0|0         1675
8802 66 55   CMP4   C     X1,ADTBLL                               Z   7  1248  C 089 145         1675
8803 66 56          BU    CONST                                   Z   5  1255  B S01 /           1675
8804 66 57   ENDPH  MCW   DIFF,X1                                 Z   7  1260  M 859 089         1675
8805 66 58          MA    X3,X1                                   Z   7  1267  # 099 089         1675
8806 66 59          MCW   X1,RTR&6                               Z   7  1274  M 089 U69         1676
8807 66 60          SBR   CNVRT,0&X3                            Z   7  1281  H 896 0?0         1676
8808 66 61          B     EXPND                                   Z   4  1288  B 969            1676
8809 66 62          MLC   HOLD,WKBK1                            Z   7  1292  M 891 870         1676
8810 66 63          MCW   HOLD,WKBK3#5                          Z   7  1299  M 891 W68         1676
8811 66 64          MLC   DIFF,CNVRT                              Z   7  1306  M 859 896         1676
8812 66 65          B     EXPND                                   Z   4  1313  B 969            1677
8813 66 66          A     HOLD,WKBK1                              Z   7  1317  A 891 870         1677
8814 66 67          C     SIXTN,WKBK1                             Z   7  1324  C W63 870         1677
8815 66 68          BL    *&8                                     Z   5  1331  B T43 T           1677
8816 66 69          S     SIXTN,WKBK1                             Z   7  1336  S W63 870         1677
8817 66 70          MLC   BSAUCE,CNVRT                           Z   7  1343  M 148 896         1677
8818 66 71          B     EXPND                                   Z   4  1350  B 969            1678
8819 66 72          C     HOLD,WKBK1                              Z   7  1354  C 891 870         1678
8820 66 73          BH    ERRMS                                   Z   5  1361  B |92 U           1678
8821 66 74          MZ    X1,TESTA&7                              Z   7  1366  Y 089 V77         1678
8822 66 75          MCW   X1-2,TESTB&7                          Z   7  1373  M 087 V97         1678
8823 66 76          MLC   INTST,X2                              Z   7  1380  M 183 094         1678
8824 66 77          MA    DIFF,INTST                              Z   7  1387  # 859 183         1679
8825 66 78          C     WKBK1,WKBK3                             Z   7  1394  C 870 W68         1679
8826 66 79          BH    WMTST                                   Z   5  1401  B V14 U           1679
8827 66 80   MVD    LCA   0&X3,0&X1                               Z   7  1406  L 0?0 0|0         1679
8828 66 81          SAR   X3                                      Z   4  1413  Q 099            1679
8829 66 82          C     0&X1                                    Z   4  1417  C 0|0            1679
8830 66 83          SAR   X1                                      Z   4  1421  Q 089            1679
8831 66 84          BCE   *&5,0&X3,:          5-8                 Z   8  1425  B U37 0?0 :       1680
8832 66 85          B     MVD                                     Z   4  1433  B U06            1680
8833 66 86   DUN    CS    0&X1                                    Z   4  1437  / 0|0            1680
8834 66 87          SBR   X1                                      Z   4  1441  H 089            1680
8835 66 88          C     X1,@W99@                                Z   7  1445  C 089 W71         1680
8836 66 89          BU    DUN                                     Z   5  1452  B U37 /           1680
8837 66 90          CW    0&X1                                    Z   4  1457  ) 0|0            1680
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 SEQ PG LIN  LABEL   OP    OPERANDS                                SFX CT  LOCN  INSTRUCTION TYPE  CARD
8838 66 91           CW                                            Z   1  1461  )                   1681
8839 66 92           CW                                            Z   1  1462  )                   1681
8840 66 93   RTR     SBR   X3,0                                    Z   7  1463  H 099 000           1681
8841 66 94           SW    0&X1,1&X3                               Z   7  1470  , 0|0 0?1           1681
8842 66 95           MLC   DIFF,X2                                 Z   7  1477  M 859 094           1681
8843 66 96           FENDX D,,,,,,GM50A,SHIFT CFL                  Z                 MACRO
8844                 BSS   333,D                                   Z   5  1484  B 333 D     GEN   1681
8845                 SBR   TCLEAR,GM50A                            Z   7  1489  H 710 W90   GEN   1681
8846                 LCA   @SHIFT CFL@,110                         Z   7  1496  L W80 110   GEN   1682
8847                 B     MONTER                                  Z   4  1503  B 700       GEN   1682
8848 66 974  ADD1    MA    @001@,X2                          V3M4  Z   7  1507  # W83 094           1682
8849 66 98   WMTST   BW    LDWRD,1&X2                              Z   8  1514  V V26 0!1 1         1682
8850 66 99           B     ADD1                                    Z   4  1522  B V07              1682
8851 67 00   LDWRD   MLC   X2,X1                                   Z   7  1526  M 094 089           1682
8852 67 01           MA    DIFF,X1                                 Z   7  1533  # 859 089           1683
8853 67 02           LCA   0&X2,0&X1                               Z   7  1540  L 0!0 0|0           1683
8854 67 03           C     X2,X3                                   Z   7  1547  C 094 099           1683
8855 67 04           BU    ADD1                                    Z   5  1554  B V07 /             1683
8856 67 05           LCA   @  @,2&X3          BLANKS               Z   7  1559  L W85 0?2           1683
8857 67 06           CW    1&X3                                    Z   4  1566  ) 0?1              1683
8858 67 07   TESTA   BWZ   TESTB,X3,2                             Z   8  1570  V V90 099 2         1684
8859 67 08           CS    0&X3                                    Z   4  1578  / 0?0              1684
8860 67 09           SBR   X3                                      Z   4  1582  H 099              1684
8861 67 10           B     TESTA                                   Z   4  1586  B V70              1684
8862 67 11   TESTB   BCE   TESTC,X3-2,0                           Z   8  1590  B W10 097 0        1684
8863 67 12           CS    0&X3                                    Z   4  1598  / 0?0              1684
8864 67 13           SBR   X3                                      Z   4  1602  H 099              1684
8865 67 14           B     TESTB                                   Z   4  1606  B V90              1685
8866 67 15   TESTC   C     X3,X1                                   Z   7  1610  C 099 089           1685
8867 67 16           BE    FIN1S                                   Z   5  1617  B W41 S            1685
8868 67 17           LCA   @ @,0&X3           BLANK                Z   7  1622  L W86 0?0           1685
8869 67 18           CW    0&X3                                    Z   4  1629  ) 0?0              1685
8870 67 19           SBR   X3                                      Z   4  1633  H 099              1685
8871 67 20           B     TESTC                                   Z   4  1637  B W10              1685
8872 67 21   FIN1S   MCW   INTST,X1                               Z   7  1641  M 183 089           1686
8873 67 22           MA    @I9I@,X1                                Z   7  1648  # W89 089          1686
8874 67 23           B     DUN                                     Z   4  1655  B U37              1686
8875 67 24   SIXTN   DCW   @160000@                               Z   5  1663                     1686
8876 67 25           LTORG *                                       Z          1664
             WKBK3Z  DCW   #05                                     Z   5  1668            AREA  1686
                     DCW   @W99@                                   Z   3  1671            LIT   1686
                     DCW   @SHIFT CFL@                             Z   9  1680            LIT   1687
                     DCW   @001@                                   Z   3  1683            LIT   1687
                     DCW   @  @                                    Z   2  1685            LIT   1687
                     DCW   @ @                                     Z   1  1686            LIT   1687
                     DCW   @I9I@                                   Z   3  1689            LIT   1687
8877 67 26   GM50A   DCW   @}@                 GROUP MARK          Z   1  1690            GMARK 1687
8878 67 27           XFR   BEGIN                                   Z          B /75               1688
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 SEQ PG LIN  LABEL  OP    OPERANDS                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD
8879 67 28          JOB   SHIFT CONSTANTS,FORMATS,AND LISTS         Z
8880 67 29   110    DCW   @SHIFT CFL@                               Z   9  0110                    1691
8881 67 30   NXBTM  EQU   83                                        Z      0083
8882 67 31          ORG   BEGINZ                                    Z            1175
8883 67 32          C     PARAMA&2,CONLST                           Z   7  1175  C 688 194          1692
8884 67 33          BE    EXIT                                      Z   5  1182  B V53 S            1692
8885 67 34          MCW   BSAUCE,X1                                 Z   7  1187  M 148 089          1692
8886 67 35          MCW   BSAUCE,X2                                 Z   7  1194  M 148 094          1692
8887 67 36          MA    MACFLS,X2                                 Z   7  1201  # 163 094          1692
8888 67 37          SBR   RSX3&6,0&X3                              Z   7  1208  H U93 0?0          1693
8889 67 38          CW    CNVRT-2                                   Z   4  1215  ) 894             1693
8890 67 39          MCW   X2,CNVRT                                  Z   7  1219  M 094 896          1693
8891 67 40          B     EXPND                                     Z   4  1226  B 969             1693
8892 67 41          MCW   HOLD,X25#5                               Z   7  1230  M 891 V98          1693
8893 67 42          MCW   X3,CNVRT                                  Z   7  1237  M 099 896          1693
8894 67 43          B     EXPND                                     Z   4  1244  B 969             1694
8895 67 44          MCW   HOLD,X35#5                               Z   7  1248  M 891 W03          1694
8896 67 45          C     X25,X35                                   Z   7  1255  C V98 W03          1694
8897 67 46          BH    ERRMS                                     Z   5  1262  B |92 U            1694
8898 67 47          MCW   BSAUCE,CNVRT                             Z   7  1267  M 148 896          1694
8899 67 48          B     EXPND                                     Z   4  1274  B 969             1694
8900 67 49          MCW   HOLD,NXBTM5#5                             Z   7  1278  M 891 W08          1695
8901 67 50          MCW   CONLST,CNVRT                              Z   7  1285  M 194 896          1695
8902 67 51          B     EXPND                                     Z   4  1292  B 969             1695
8903 67 52          MCW   HOLD,CNLST5#5                             Z   7  1296  M 891 W13          1695
8904 67 53          C     NXBTM5,CNLST5                             Z   7  1303  C W08 W13          1695
8905 67 544         BH    MAD                                  V3M4 Z   5  1310  B T19 U            1695
8906 67 545         B     WRDMV                                V3M4 Z   4  1315  B T97             1696
8907 67 55   MAD    MA    @001@,X1                                  Z   7  1319  # W16 089          1696
8908 67 56          MA    @001@,X2                                  Z   7  1326  # W16 094          1696
8909 67 57          BW    LDWM,0&X1                                 Z   8  1333  V T86 0|0 1        1696
8910 67 58          CW    0&X2                                      Z   4  1341  ) 0!0              1696
8911 67 59          MN    0&X1,0&X2                                 Z   7  1345  D 0|0 0!0          1696
8912 67 60          MZ    0&X1,0&X2                                 Z   7  1352  Y 0|0 0!0          1697
8913 67 61   CWX1   CW    0&X1                                      Z   4  1359  ) 0|0              1697
8914 67 62          C     X1,CONLST                                 Z   7  1363  C 089 194          1697
8915 67 63          BU    MAD                                       Z   5  1370  B T19 /            1697
8916 67 64          MLC   CONLST,X3                                 Z   7  1375  M 194 099          1697
8917 67 65          B     TSTWM                                     Z   4  1382  B U04             1697
8918 67 66   LDWM   LCA   0&X1,0&X2                                 Z   7  1386  L 0|0 0!0          1698
8919 67 67          B     CWX1                                      Z   4  1393  B T59             1698
8920 67 68   WRDMV  MLC   BSAUCE,X3                                 Z   7  1397  M 148 099          1698
8921 67 69   TSTWM  BW    MANXB,1&X3        TEST FOR WORD MARKIN TEST ADR&1   Z   8  1404  V U20 0?1 1      1698
8922 67 70          CW    WMSW#1                                    Z   4  1412  ) W17             1698
8923 67 71          SW    1&X3                                      Z   4  1416  , 0?1             1698
8924 67 72   MANXB  MCW   PARAMA&2,X1                               Z   7  1420  M 688 089          1699
8925 67 73          MCW   CONLST,X2                                 Z   7  1427  M 194 094          1699
8926 67 74   LOAD   LCA   0&X1,0&X2                                 Z   7  1434  L 0|0 0!0          1699
8927 67 75          SBR   X2                                        Z   4  1441  H 094             1699
8928 67 76          SBR   X1                                        Z   4  1445  H 089             1699
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 SEQ PG LIN  LABEL   OP    OPERANDS                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD
8929 67 77           MA    PLUSDF,X1                                  Z  7  1449  # 160 089        1699
8930 67 78           C     X1,X3                                      Z  7  1456  C 089 099        1700
8931 67 79           BU    LOAD                                       Z  5  1463  B U34 /          1700
8932 67 80           BW    RSX3,WMSW          BRANCH IF WM SWITCH IS ON Z  8  1468  V U87 W17 1      1700
8933 67 81           MA    MACFLS,X3                                  Z  7  1476  # 163 099        1700
8934 67 82           CW    1&X3                                       Z  4  1483  ) 0?1            1700
8935 67 83   RSX3    SBR   X3,0                                      Z  7  1487  H 099 000        1700
8936 67 84           MA    MACFLS,NXBTM                               Z  7  1494  # 163 083        1701
8937 67 85           MA    MACFLS,ADTBLL                              Z  7  1501  # 163 145        1701
8938 67 86           MA    MACFLS,BSAUCE                              Z  7  1508  # 163 148        1701
8939 67 87           MCW   PARAMA&2,X1                                Z  7  1515  M 688 089        1701
8940 67 88   CX1CN   C     X1,CONLST                                  Z  7  1522  C 089 194        1701
8941 67 89           BE    EXIT                                       Z  5  1529  B V53 S          1702
8942 67 90           MCW   @ @,0&X1          MOVE BLANKS TO CLEAR STORAGE. Z  7  1534  M W18 0|0        1702
8943 67 91           CW    0&X1                                       Z  4  1541  ) 0|0            1702
8944 67 92           SBR   X1                                         Z  4  1545  H 089            1702
8945 67 93           B     CX1CN                                      Z  4  1549  B V22            1702
8946 67 94   EXIT    FENDX C,,,XBEGIN,XBEGIN,,GM50C,REPLACE 1         Z                          MACRO
8947         EXIT    BSS   333,C                                     Z  5  1553  B 333 C     GEN  1702
8948                 SBR   INITAP&6,XBEGIN                           Z  7  1558  H 786 838   GEN  1702
8949                 SBR   BCLEAR                                    Z  4  1565  H 833       GEN  1703
8950                 SBR   INITXT&3,XBEGIN                          Z  7  1569  H 796 838   GEN  1703
8951                 SBR   TCLEAR,GM50C                             Z  7  1576  H 710 W28   GEN  1703
8952                 LCA   @REPLACE 1@,110                          Z  7  1583  L W27 110   GEN  1703
8953                 B     MONTER                                     Z  4  1590  B 700       GEN  1703
8954 67 95           LTORG *                                          Z           1594
             X25  Z  DCW   #05                                       Z  5  1598             AREA 1703
             X35  Z  DCW   #05                                       Z  5  1603             AREA 1703
             NXBTM5  DCW   #05                                       Z  5  1608             AREA 1704
             CNLST5  DCW   #05                                       Z  5  1613             AREA 1704
                     DCW   @001@                                     Z  3  1616             LIT  1704
             WMSW Z  DCW   #01                                       Z  1  1617             AREA 1704
                     DCW   @ @                                       Z  1  1618             LIT  1704
                     DCW   @REPLACE 1@                               Z  9  1627             LIT  1704
8955 67 96   GM50C   DCW   @}@               GROUP MARK               Z  1  1628             GMARK 1704
8956 67 97           XFR   BEGIN                                      Z           B /75          1705
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 SEQ PG LIN  LABEL  OP    OPERANDS                                SFX CT  LOCN  INSTRUCTION TYPE  CARD
8957 67 98           JOB   1401 FORTRAN  REPLACE PHASE ONE        Z
8958 67 99           FBEGN REPLACE 1,X1,R,X2,,X3,,V                Z                      MACRO
8959                 SFX   V                                      V                      GEN
8960          110    DCW   @REPLACE 1@                           V   9  0110              GEN   1708
8961          X1     EQU   089                                    V      0089              GEN
8962          089    DCW   000                                    V   3  0089              GEN   1709
8963          091    DC    00                                     V   2  0091              GEN   1709
8964          X2     EQU   094                                    V      0094              GEN
8965          X3     EQU   099                                    V      0099              GEN
8966 68 00           ORG   XBEGIN                                 V            0838
8967 68 01   INIT    MCW   X3,GARY#3                             V   7  0838  M 099 S57          1710
8968 68 02           MCW   BSAUCE,*&7                            V   7  0845  M 148 858          1710
8969 68 03           MCW   @>@,0           6-8 PUNCH            V   7  0852  M S58 000          1710
8970 68 04           MCW   PERIOD,X2                            V   7  0859  M 154 094          1710
8971 68 05           MCW   @>@,1600         6-8 PUNCH            V   7  0866  M S58 W00          1710
8972 68 06   SCNDL   BCE   DOLR,0&X2,$                          V   8  0873  B 915 0!0 $        1711
8973 68 07           CHAIN 9                                    V                      MACRO
8974                 BCE                                      V   1  0881  B                 GEN   1711
8975                 BCE                                      V   1  0882  B                 GEN   1711
8976                 BCE                                      V   1  0883  B                 GEN   1711
8977                 BCE                                      V   1  0884  B                 GEN   1711
8978                 BCE                                      V   1  0885  B                 GEN   1711
8979                 BCE                                      V   1  0886  B                 GEN   1711
8980                 BCE                                      V   1  0887  B                 GEN   1712
8981                 BCE                                      V   1  0888  B                 GEN   1712
8982                 BCE                                      V   1  0889  B                 GEN   1712
8983 68 08   RU68    BCE   SKGBG,0&X2,>      6-8 PUNCH          V   8  0890  B |23 0!0 >        1712
8984 66 09           CHAIN 9                                    V                      MACRO
8985                 BCE                                      V   1  0898  B                 GEN   1712
8986                 BCE                                      V   1  0899  B                 GEN   1712
8987                 BCE                                      V   1  0900  B                 GEN   1712
8988                 BCE                                      V   1  0901  B                 GEN   1713
8989                 BCE                                      V   1  0902  B                 GEN   1713
8990                 BCE                                      V   1  0903  B                 GEN   1713
8991                 BCE                                      V   1  0904  B                 GEN   1713
8992                 BCE                                      V   1  0905  B                 GEN   1713
8993                 BCE                                      V   1  0906  B                 GEN   1713
8994 66 10           SBR   X2                                   V   4  0907  H 094              1713
8995 68 11           B     SCNDL                              V   4  0911  B 873              1714
8996 68 114  DOLR    BCE   RU68,0&X2,>      6-8 PUNCH  V3M4    V   8  0915  B 890 0!0 >        1714
8997 68 124          BCE   FND,0&X2,$                 V3M4    V   8  0923  B 939 0!0 $        1714
8998 68 13           SBR   X2                                   V   4  0931  H 094              1714
8999 68 14           B     DOLR                               V   4  0935  B 915              1714
9000 68 15   FND     MN    0&X2                               V   4  0939  D 0!0              1714
9001 68 16           SAR   X2                                 V   4  0943  Q 094              1714
9002 68 17           BCE   SETSW,0&X2,$                       V   8  0947  B 974 0!0 $        1715
9003 68 18           CHAIN 15                                 V                      MACRO
9004                 BCE                                      V   1  0955  B                 GEN   1715
9005                 BCE                                      V   1  0956  B                 GEN   1715
9006                 BCE                                      V   1  0957  B                 GEN   1715
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 SEQ PG LIN  LABEL  OP    OPERANDS                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD
9007                BCE                                            V   1  0958  B           GEN   1715
9008                BCE                                            V   1  0959  B           GEN   1715
9009                BCE                                            V   1  0960  B           GEN   1715
9010                BCE                                            V   1  0961  B           GEN   1716
9011                BCE                                            V   1  0962  B           GEN   1716
9012                BCE                                            V   1  0963  B           GEN   1716
9013                BCE                                            V   1  0964  B           GEN   1716
9014                BCE                                            V   1  0965  B           GEN   1716
9015                BCE                                            V   1  0966  B           GEN   1716
9016                BCE                                            V   1  0967  B           GEN   1716
9017                BCE                                            V   1  0968  B           GEN   1717
9018                BCE                                            V   1  0969  B           GEN   1717
9019 68 19          B     SCNDL                                    V   4  0970  B 873             1717
9020 68 20  SETSW   CW    XDOSBS                                   V   4  0974  ) 116             1717
9021 68 21  DLOOP  MN    0&X2                                     V   4  0978  D 0!0             1717
9022 68 22          CHAIN 2                                        V                 MACRO
9023                MN                                             V   1  0982  D           GEN   1717
9024                MN                                             V   1  0983  D           GEN   1717
9025 68 23          SAR   X2                                       V   4  0984  Q 094             1718
9026 68 24          SW    1&X2                                     V   4  0988  , 0!1             1718
9027 68 25          BCE   NDOLR,0&X2,$                             V   8  0992  B |11 0!0 $        1718
9028 68 26          MZ    *-4,2&X2                                 V   7  1000  Y |02 0!2          1718
9029 68 27          B     DLOOP                                    V   4  1007  B 978             1718
9030 68 28  NDOLR  MN    0&X2                                     V   4  1011  D 0!0             1718
9031 68 29          SAR   X2                                       V   4  1015  Q 094             1718
9032 68 30          B     SCNDL                                    V   4  1019  B 873             1719
9033 68 31  SKGBG  MCW   &TEST5,RU68&3                            V   7  1023  M S61 893         1719
9034 68 32          MCW   X3,X2                                    V   7  1030  M 099 094         1719
9035 68 33          B     SCNDL                                    V   4  1037  B 873             1719
9036 68 34  TEST5  BCE   EXIT,0&X3,         BLANK                  V   8  1041  B S18 0?0         1719
9037 68 35          MCW   X3,SBR&6                                 V   7  1049  M 099 /45         1719
9038 68 36          C     0&X3       MOVE POINTER                  V   4  1056  C 0?0             1720
9039 68 37          SBR   X2                                       V   4  1060  H 094             1720
9040 68 38          SBR   X3                                       V   4  1064  H 099             1720
9041 68 39          BCE   PSKIP,1&X3,|                             V   8  1068  B /82 0?1 |        1720
9042 68 40  TEST2  BWZ   TEST5,4&X2,1                            V   8  1076  V |41 0!4 1        1720
9043 68 41          BWZ                                            V   1  1084  V                 1720
9044 68 42          BWZ                                            V   1  1085  V                 1720
9045 68 43          BM    REPLC,3&X2                               V   8  1086  V /50 0!3 K       1721
9046 68 44          C     4&X2,@2G7@         CHANGE ON REAS. OF OBJ ARITH V   7  1094  C 0!4 S64       1721
9047 68 45          BE    TEST5                                    V   5  1101  B |41 S           1721
9048 68 46          BWZ   ADDU,3&X2,B                              V   8  1106  V /25 0!3 B       1721
9049 68 47  RIGHT  SBR   X2,3&X2                                   V   7  1114  H 094 0!3         1721
9050 68 48          B     TEST2                                    V   4  1121  B |76             1721
9051 68 49  ADDU   MCW   4&X2,X1                                   V   7  1125  M 0!4 089         1722
9052 68 50          MZ    *-6,SBR&5                                V   7  1132  Y /32 /44         1722
9053 68 51  SBR    SBR   4&X2,0                                   V   7  1139  H 0!4 000         1722
9054 68 52          B     RIGHT                                    V   4  1146  B /14             1722
9055 68 53  REPLC  MCW   4&X2,X1                                   V   7  1150  M 0!4 089         1722
9056 68 54          MA    MACFLS,X1                                V   7  1157  # 163 089         1722
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 SEQ PG LIN  LABEL  OP    OPERANDS                                        SFX CT  LOCN  INSTRUCTION TYPE  CARD
9057 68 55           MCW   0&X1,X1                                         V   7  1164  M 0|0 089         1723
9058 68 56           MCW   X1,4&X2                                         V   7  1171  M 089 0!4         1723
9059 68 57           B     RIGHT                                           V   4  1178  B /14            1723
9060 68 58   PSKIP   BW    SKIP,2&X3                                       V   8  1182  V /94 0?2 1      1723
9061 68 59           B     TEST5                                           V   4  1190  B |41            1723
9062 68 60   SKIP    C     0&X3                                            V   4  1194  C 0?0            1723
9063 68 61           SBR   X3                                              V   4  1198  H 099            1723
9064 68 62           C     4&X3,@B700@        CHANGE ON REORIGIN OF OBJ ARITH V   7  1202  C 0?4 S68       1724
9065 68 63           BE    TEST5                                           V   5  1209  B |41 S          1724
9066 68 64           B     SKIP                                            V   4  1214  B /94            1724
9067 68 65   EXIT    MCW   GARY,X3                                         V   7  1218  M S57 099        1724
9068 68 66           FENDX C,,,,STARTR,,SYS1,LOAD 52B&C                    V                 MACRO
9069                 BSS   333,C                                           V   5  1225  B 333 C   GEN    1724
9070                 SBR   INITXT&3,STARTR                                 V   7  1230  H 796 934 GEN    1724
9071                 SBR   TCLEAR,SYS1                                     V   7  1237  H 710 S79 GEN    1725
9072                 LCA   @LOAD 52B&C@,110                                V   7  1244  L S78 110 GEN    1725
9073                 B     MONTER                                          V   4  1251  B 700     GEN    1725
9074 68 67           LTORG *                                               V         1255
             GARY V  DCW   #03                                             V   3  1257            AREA   1725
                     DCW   @>@                                             V   1  1258            LIT    1725
                     DCW   &TEST5V                                         V   3  1261  |41       ADCON  1725
                     DCW   @2G7@                                           V   3  1264            LIT    1725
                     DCW   @B700@                                          V   4  1268            LIT    1726
                     DCW   @LOAD 52B&C@                                    V  10  1278            LIT    1726
9075 68 68   SYS1    DCW   @}@                          SYSTEM GROUP MARK  V   1  1279            GMARK  1726
9076 68 69           XFR   INIT                                            V         B 838           1727
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 SEQ PG LIN  LABEL  OP    OPERANDS                                        SFX CT  LOCN  INSTRUCTION TYPE  CARD
9077 68 70           JOB   LOAD PHASE 52-SECTIONS B & C                   V
9078 68 71           SFX   R                                              R
9079 68 72   110     DCW   @LOAD 52B&C@                                   R  10  0110                    1730
9080 68 73           ORG   XBEGIN                                         R          0838
9081 68 74   XLINKS  DCW   #3                                             R   3  0840                    1731
9082 68 75   YUSR12  DCW   #3                                             R   3  0843                    1731
9083 68 76   YUSR11  DCW   #3                                             R   3  0846                    1731
9084 68 77   YUSR10  DCW   #3                                             R   3  0849                    1731
9085 68 78   YUSER9  DCW   #3                                             R   3  0852                    1731
9086 68 79   YUSER8  DCW   #3                                             R   3  0855                    1731
9087 68 80   YUSER7  DCW   #3                                             R   3  0858                    1731
9088 68 81   YUSER6  DCW   #3                                             R   3  0861                    1732
9089 68 82   YUSER5  DCW   #3                                             R   3  0864                    1732
9090 68 83   YUSER4  DCW   #3                                             R   3  0867                    1732
9091 68 84   YUSER3  DCW   #3                                             R   3  0870                    1732
9092 68 85   YUSER2  DCW   #3                                             R   3  0873                    1732
9093 68 86   YUSER1  DCW   #3                                             R   3  0876                    1732
9094 68 87   SQRTFN  DCW   #3                                             R   3  0879                    1732
9095 68 88   FLTFUN  DCW   #3                                             R   3  0882                    1733
9096 68 89   FIXFUN  DCW   #3                                             R   3  0885                    1733
9097 68 90   NEGTFN  DCW   #3                                             R   3  0888                    1733
9098 68 91   ABSVAL  DCW   #3                                             R   3  0891                    1733
9099 68 92   ATANFN  DCW   #3                                             R   3  0894                    1733
9100 68 93   XPNETL  DCW   #3                                             R   3  0897                    1733
9101 68 94   LOGFUN  DCW   #3                                             R   3  0900                    1733
9102 68 95   SINFUN  DCW   #3                                             R   3  0903                    1734
9103 68 96   COMFN1  DCW   #3                                             R   3  0906                    1734
9104 68 97   DOSBSC  DCW   #3                                             R   3  0909                    1734
9105 68 98   OBLIST  DCW   @J32@   FMTXT   CHANGE IF OBJ FORMAT REASSEMBLED R   3  0912                    1734
9106 68 99   DOINIT  DCW   #3                                             R   3  0915                    1734
9107 69 00   DOADR3  DCW   #3                                             R   3  0918                    1734
9108 69 01   DOADR2  DCW   #3                                             R   3  0921                    1734
9109 69 02   DOADR1  DCW   #3                                             R   3  0924                    1735
9110 69 03   TBLAD   DCW   DOADR1                                         R   3  0927  924               1735
9111 69 04   FIXWD   DCW   #3                                             R   3  0930                    1735
9112 69 05   FLTWD   DCW   #3                                             R   3  0933                    1735
9113 69 064  START   B     ADJX3                                     V3M4  R   4  0934  B |27             1735
9114 69 07   LD52C   FENDX ,,,START,START1,,GMWM,FUNLOAD C               R                        MACRO
9115         LD52C   SBR   INITAP&6,START                                R   7  0938  H 786 934   GEN   1735
9116                 SBR   BCLEAR                                        R   4  0945  H 833       GEN   1735
9117                 SBR   INITXT&3,START1                               R   7  0949  H 796 337   GEN   1736
9118                 SBR   TCLEAR,GMWM                                   R   7  0956  H 710 W96   GEN   1736
9119                 LCA   @FUNLOAD C@,110                               R   7  0963  L 982 110   GEN   1736
9120                 B     MONTER                                        R   4  0970  B 700       GEN   1736
9121 69 08           LTORG *                                             R          0974
                     DCW   @FUNLOAD C@                                   R   9  0982                LIT   1736
9122 69 09   EXIT3   SBR   INITAP&6,333                                  R   7  0983  H 786 333         1737
9123 69 10           SBR   BCLEAR,EXIT3                                  R   7  0990  H 833 983         1737
9124 69 11           FENDX C,,,,LD52C,,GMWM,FUNLOAD B                    R                        MACRO
9125                 BSS   333,C                                         R   5  0997  B 333 C     GEN   1737
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SEQ	PG	LIN	LABEL	OP	OPERANDS		SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
9126				SBR	INITXT&3,LD52C		R	7	1002	H 796 938	GEN	1737
9127				SBR	TCLEAR,GMWM		R	7	1009	H 710 W96	GEN	1737
9128				LCA	@FUNLOAD B@,110		R	7	1016	L |70 110	GEN	1738
9129				B	MONTER		R	4	1023	B 700	GEN	1738
9130	69	111	ADJX3	BWZ	CKX3,X3,2		V3M4 R	8	1027	V |39 099 2		1738
9131	69	112		B	EXIT3		V3M4 R	4	1035	B 983		1738
9132	69	113	CKX3	BWZ	CHGX3,X3-2,S		V3M4 R	8	1039	V |51 097 S		1738
9133	69	114		B	EXIT3		V3M4 R	4	1047	B 983		1738
9134	69	115	CHGX3	SBR	X3,2000		V3M4 R	7	1051	H 099 !00		1739
9135	69	116		B	EXIT3		V3M4 R	4	1058	B 983		1739
9136	69	12		LTORG	*		R		1062			
				DCW	@FUNLOAD B@		R	9	1070		LIT	1739
9137	69	13		ORG	1696		R		1696			
9138	69	14	GMWM	DCW	@}@	GROUP MARK	R	1	1696		GMARK	1740
9139	69	15		XFR	START		R			B 934		1741

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 SEQ PG LIN  LABEL  OP    OPERANDS                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD
9140 69 16          JOB   1401 FORTRAN  FUNCTION/SUBROUTINE LOADER-B  R
9141 69 17          FBEGN FUNLOAD B,X1,R,X2,R,X3,,R                 R                      MACRO
9142                SFX   R                                         R                      GEN
9143          110   DCW   @FUNLOAD B@                               R   9  0110            GEN   1744
9144          X1    EQU   089                                       R      0089            GEN
9145          089   DCW   000                                       R   3  0089            GEN   1745
9146          091   DC    00                                        R   2  0091            GEN   1745
9147          X2    EQU   094                                       R      0094            GEN
9148          094   DCW   000                                       R   3  0094            GEN   1745
9149          096   DC    00                                        R   2  0096            GEN   1745
9150          X3    EQU   099                                       R      0099            GEN
9151 69 18    NXBTM EQU   83                                        R      0083
9152 69 19          ORG   333                                       R            0333
9153 69 20          H     333                                       R   4  0333  . 333           1746
9154 69 21    START1 CS   080                                       R   4  0337  / 080           1746
9155 69 22          MCW   X3,HEX3                                   R   7  0341  M 099 W35       1746
9156 69 23          SBR   X3,1&X3                                   R   7  0348  H 099 0?1       1746
9157 69 24          SW    1,40                                      R   7  0355  , 001 040       1746
9158 69 25          SW    47,54                                     R   7  0362  , 047 054       1746
9159 69 26          SW    61,68                                     R   7  0369  , 061 068       1747
9160 69 27          SW    72                                        R   4  0376  , 072           1747
9161 69 28          MCW   MONTOR,READ                               R   7  0380  M 769 /60       1747
9162 69 29          B     GET                                       R   4  0387  B /49           1747
9163 69 30          MCW   NXBTM,X2                                  R   7  0391  M 083 094       1747
9164 69 31          MN    0&X2                                      R   4  0398  D 0!0           1747
9165 69 32          MN                                              R   1  0402  D               1747
9166 69 33          SBR   KLOBR&6                                   R   4  0403  H |95           1748
9167 69 34          MCW   @_@              11-7-8                   R   4  0407  M V65           1748
9168 69 35          NOP                                             R   1  0411  N               1748
9169 69 36    LOOP2 MCW   X3,NOP4&3                                 R   7  0412  M 099 436       1748
9170 69 37          MZ    @B@,NOP4&2                                R   7  0419  Y V66 435       1748
9171 69 38          MCW   DSA,X3                                    R   7  0426  M V60 099       1748
9172 59 39    NOP4  NOP   0                                         R   4  0433  N 000           1748
9173 59 40          SAR   X3                                        R   4  0437  Q 099           1749
9174 59 41    GET2  B     GET                                       R   4  0441  B /49           1749
9175 59 42    AGET2 C     005,@____@                  ALL 11-7-8    R   7  0445  C 005 V70       1749
9176 59 43          BU    MVAD                                      R   5  0452  B 468 /         1749
9177 69 44          MCW   X3,HXCMN#3                               R   7  0457  M 099 V73       1749
9178 69 45          B     GET2                                      R   4  0464  B 441           1749
9179 69 46    MVAD  MCW   TBAD2,X1                                  R   7  0468  M V63 089       1749
9180 69 47    BMPT2 SBR   TBAD2,1&X1                                R   7  0475  H V63 0|1       1750
9181 69 48    CX1   C     X1,&NDTABL                                R   7  0482  C 089 V76       1750
9182 69 49          BE    OUT                                       R   5  0489  B T59 S         1750
9183 69 50          MCW   @H@,BMPT2                                R   7  0494  M V77 475       1750
9184 69 51          C     TBLAD,&YUSER1                             R   7  0501  C 927 V80       1750
9185 69 52    CKUSR BE    STOTP                                     R   5  0508  B U23 S         1750
9186 69 53          MCW   TBLAD,X2                                  R   7  0513  M 927 094       1751
9187 69 54          C     0&X2                                      R   4  0520  C 0!0           1751
9188 69 55          SAR   TBLAD                                     R   4  0524  Q 927           1751
9189 69 56          BW    NODIC,0&X1                                R   8  0528  V T35 0|0 1     1751
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 SEQ PG LIN  LABEL  OP    OPERANDS                                SFX CT  LOCN  INSTRUCTION TYPE  CARD
9190 69 57   NOPSW  MCW   @N@,SW1                                 R   7  0536  M V81 583        1751
9191 69 58   CKZN   BWZ   PURE,42,2                               R   8  0543  V /31 042 2      1751
9192 69 59          MN    46,LOAD&6                               R   7  0551  D 046 578        1752
9193 69 60          CHAIN 5                                       R                 MACRO
9194                MN                                          R   1  0558  D          GEN   1752
9195                MN                                          R   1  0559  D          GEN   1752
9196                MN                                          R   1  0560  D          GEN   1752
9197                MN                                          R   1  0561  D          GEN   1752
9198                MN                                          R   1  0562  D          GEN   1752
9199 69 61          MZ    46,LOAD&6                               R   7  0563  Y 046 578        1752
9200 69 62          MN                                          R   1  0570  D               1753
9201 69 63          MZ                                          R   1  0571  Y               1753
9202 69 64   LOAD   LCA   0,0&X3                                 R   7  0572  L 000 0?0        1753
9203 69 65          SBR   X2                                    R   4  0579  H 094           1753
9204 69 66   SW1    NOP   CTU1                                   R   4  0583  N 608           1753
9205 69 67          MCW   TBLAD,X1                              R   7  0587  M 927 089        1753
9206 69 68          SBR   3&X1,1&X2                             R   7  0594  H 0|3 0!1        1753
9207 69 69          MCW   @B@,SW1                               R   7  0601  M V66 583        1754
9208 69 70   CTU1   MZ    45,HLDZN#1                            R   7  0608  Y 045 V82        1754
9209 69 71          B     RELOC                FIELD            R   4  0615  B S17           1754
9210 69 72          S     X1&1                                  R   4  0619  S 090           1754
9211 69 73   DOWM   C     50&X1,@040@          PROCESS SUBSEQUENT R   7  0623  C 0V0 V85       1754
9212 69 74          BE    READ2                DATA FIELDS IF ANY R   5  0630  B |11 S         1754
9213 69 75          MCW   50&X1,SETWM&3                         R   7  0635  M 0V0 667        1755
9214 69 76          MZ    @B@,SETWM&2                           R   7  0642  Y V66 666        1755
9215 69 77          BCE   SETWM,SETWM,)                         R   8  0649  B 664 664 )      1755
9216 69 78          MCW   @,@,SETWM                             R   7  0657  M V86 664        1755
9217 69 79   SETWM  SW    0&X3                 SET WORD MARK IN  R   4  0664  , 0?0           1755
9218 69 80          SAR   X2                    STORAGE          R   4  0668  Q 094           1755
9219 69 81          B     BRELC                                 R   4  0672  B 934           1756
9220 69 82          NOP   000                                   R   4  0676  N 000           1756
9221 69 83   GMK1   DCW   @}@          GROUP MARK               R   1  0680            GMARK 1756
9222 69 84          XFR   LD52CR                                R              B 938          1757
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 SEQ PG LIN  LABEL   OP    OPERANDS                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD
9223 69 85           JOB   1401 FORTRAN  FUNCTION/SUBROUTINE LOADER-C  R
9224 69 86   110     DCW   @FUNLOAD C@                                R   9  0110                    1760
9225 69 87           ORG   STARTR                                     R          0934
9226 69 88   BRELC   MZ    49&X1,HLDZN                                R   7  0934  Y 0U9 V82          1761
9227 59 89           B     RELOC                     RELOCATE OPERANDS R   4  0941  B S17             1761
9228 69 90   ADDS    NOP   @4@,X1                                     R   7  0945  N V87 089          1761
9229 69 91   ADDS2   A     @3@,X1                                     R   7  0952  A V88 089          1761
9230 69 92           BCE   TYPE1,ADDS,A                               R   8  0959  B 993 945 A       1761
9231 69 93           MCW   @A@,ADDS                                  R   7  0967  M V89 945          1762
9232 69 94           MCW   @N@,ADDS2                                 R   7  0974  M V81 952          1762
9233 69 95           BCE   ADDS,SETWM,)                              R   8  0981  B 945 664 )       1762
9234 69 96           B     DOWM                                       R   4  0989  B 623             1762
9235 69 97   TYPE1   MCW   @N@,ADDS                                  R   7  0993  M V81 945          1762
9236 69 98           MCW   @A@,ADDS2                                 R   7  1000  M V89 952          1763
9237 69 99           B     DOWM                                       R   4  1007  B 623             1763
9238 70 00   READ2   MCW   46,LAST#3                                 R   7  1011  M 046 V92          1763
9239 70 01           MCW   @N@,ADDS                                  R   7  1018  M V81 945          1763
9240 70 02           MCW   @A@,ADDS2                                 R   7  1025  M V89 952          1763
9241 70 03           B     GET                                        R   4  1032  B /49             1763
9242 70 04   CKEX    BCE   END,68,B                                  R   8  1036  B |56 068 B       1764
9243 70 05           BCE   END,40,/                                  R   8  1044  B |56 040 /       1764
9244 70 06           B     CKZN                                       R   4  1052  B 543             1764
9245 70 07   END     MCW   LAST,NOP3&3                              R   7  1056  M V92 |73          1764
9246 70 08           MZ    @B@,NOP3&2                                 R   7  1063  Y V66 |72          1764
9247 70 09   NOP3    NOP   0&X3                                      R   4  1070  N 0?0             1764
9248 70 10           SAR   X3                                       R   4  1074  Q 099             1765
9249 70 11           SBR   HEX3                                     R   4  1078  H W35             1765
9250 70 12           SBR   X3,1&X3                                  R   7  1082  H 099 0?1          1765
9251 70 13   KLOBR   BCE   LOOP2,0,_                  11-7-8        R   8  1089  B 412 000 _       1765
9252 70 14           CS    332                                        R   4  1097  / 332             1765
9253 70 15           CS                                             R   1  1101  /                 1765
9254 70 16           CC    1                                          R   2  1102  F 1               1765
9255 70 17           MCW   @MESSAGE 2 - OBJECT PROGRAM TOO LARGE@,270 R   7  1104  M W28 270         1766
9256 70 18           W                                              R   1  1111  2                 1766
9257 70 19           CC    1                                          R   2  1112  F 1               1766
9258 70 20           BCE   *&6,MONTOR,1                             R   8  1114  B /27 769 1        1766
9259 70 21           RWD   1                                        R   5  1122  U %U1 R            1766
9260 70 22           H     *-3                                        R   4  1127  . /27             1766
9261 70 23   PURE    SBR   71,READ2                                 R   7  1131  H 071 |11         1766
9262 70 24           MCW   @B@,68                                   R   7  1138  M V66 068          1767
9263 70 25           B     40                                         R   4  1145  B 040             1767
9264 70 26   GET     SBR   GETXT&3                                  R   4  1149  H /87             1767
9265 70 27           MCW   @ @,001                                  R   7  1153  M W29 001          1767
9266 70 28   READ    R     GETXT                                      R   4  1160  1 /84             1767
9267 70 29   MVNIN   MCW   &9,RDCNT#1                               R   7  1164  M W30 W31          1767
9268 70 30   RDTAP   RT    1,1                                        R   8  1171  M %U1 001 R       1768
9269 70 31           BER   TPERR                                    R   5  1179  B /88 L           1768
9270 70 32   GETXT   B     0                                          R   4  1184  B 000             1768
9271 70 33   TPERR   BSP   1                                        R   5  1188  U %U1 B           1768
9272 70 34           S     &1,RDCNT                                   R   7  1193  S W32 W31         1768
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 SEQ PG LIN  LABEL  OP    OPERANDS                          SFX CT  LOCN  INSTRUCTION TYPE  CARD
9273 70 35           BWZ   RDTAP,RDCNT,B                    R   8  1200  V /71 W31 B       1768
9274 70 36           NOP   3333                             R   4  1208  N C33            1769
9275 70 37           H                                      R   1  1212  .               1769
9276 70 38           B     MVNIN                            R   4  1213  B /64           1769
9277 70 39  RELOC    SBR   RELXT&3                         R   4  1217  H T34           1769
9278 70 40           BWZ   RELXT,HLDZN,2                   R   8  1221  V T31 V82 2     1769
9279 70 41           BWZ   ISB,HLDZN,S                     R   8  1229  V S88 V82 S     1769
9280 70 42           MCW   X3,HEX3#3                       R   7  1237  M 099 W35       1769
9281 70 43           BWZ   SW2X2,4&X2,2                   R   8  1244  V S66 0!4 2     1770
9282 70 44           MCW   HXCMN,X3                        R   7  1252  M V73 099       1770
9283 70 45           MZ    *-4,4&X2                       R   7  1259  Y S61 0!4       1770
9284 70 46  SW2X2    MA    X3,4&X2                        R   7  1266  # 099 0!4       1770
9285 70 67           MCW   HEX3,X3                       R   7  1273  M W35 099       1770
9286 70 48           BWZ   RELXT,HLDZN,K                  R   8  1280  V T31 V82 K     1771
9287 70 49  ISB      MCW   X3,HEX3                        R   7  1288  M 099 W35       1771
9288 70 50           BWZ   MCWX2,7&X2,2                   R   8  1295  V T17 0!7 2     1771
9289 70 51           MCW   HXCMN,X3                       R   7  1303  M V73 099       1771
9290 70 52           MZ    *-4,7&X2                       R   7  1310  Y T12 0!7       1771
9291 70 53  MCWX2    MA    X3,7&X2                        R   7  1317  # 099 0!7       1772
9292 70 54           MCW   HEX3,X3                       R   7  1324  M W35 099       1772
9293 70 55  RELXT    B     0                              R   4  1331  B 000           1772
9294 70 56  NODIC    B     GET                            R   4  1335  B /49           1772
9295 70 57           BCE   GET2,40,/                      R   8  1339  B 441 040 /     1772
9296 70 58           BCE   GET2,68,B                      R   8  1347  B 441 068 B     1772
9297 70 59           B     NODIC                          R   4  1355  B T35           1773
9298 70 60  OUT      NOP   OUT2                           R   4  1359  N U41           1773
9299 70 61           MCW   @B@,OUT                        R   7  1363  M V66 T59       1773
9300 70 62           SBR   TBAD2,XSINFU                   R   7  1370  H V63 118       1773
9301 70 63           MCW   HEX3,X2                        R   7  1377  M W35 094       1773
9302 70 64           SBR   GOTOFN,1&X2                    R   7  1384  H 188 0!1       1773
9303 70 65           MCW   @N@,BMPT2                      R   7  1391  M V81 475       1774
9304 70 66           MCW   @N@,NOPSW                      R   7  1398  M V81 536       1774
9305 70 67           MCW   @B@,SW1                        R   7  1405  M V66 583       1774
9306 70 68           MCW   HEX3,BTM#3                     R   7  1412  M W35 W38       1774
9307 70 69           B     AGET2                          R   4  1419  B 445           1774
9308 70 70  STOTP    MCW   HEX3,TOP#3                     R   7  1423  M W35 W41       1774
9309 70 71           MCW   @N@,CKUSR                      R   7  1430  M V81 508       1775
9310 70 72           B     CKUSR&5                        R   4  1437  B 513           1775
9311 70 73  OUT2     MCW   HEX3,X3                       R   7  1441  M W35 099       1775
9312 70 74           MCW   PARAMA&2,X2                    R   7  1448  M 688 094       1775
9313 70 75           C     0&X2                           R   4  1455  C 0!0           1775
9314 70 76           SAR   X2                             R   4  1459  Q 094           1775
9315 70 77           SBR   FLTWD                          R   4  1463  H 933           1775
9316 70 78           C     0&X2                           R   4  1467  C 0!0           1776
9317 70 79           SAR   FIXWD                          R   4  1471  Q 930           1776
9318 70 80           BCE   MTPX1,XLINKS,        BLANK     R   8  1475  B V08 840       1776
9319 70 81           MCW   XLINKS,X1                      R   7  1483  M 840 089       1776
9320 70 82           MA    @013@,X1                       R   7  1490  # W44 089       1776
9321 70 83           MLC   CONLST,0&X1                    R   7  1497  M 194 0|0       1776
9322 70 84           CW    XLINKW                         R   4  1504  ) 185           1777
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 SEQ PG LIN  LABEL  OP    OPERANDS                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD
9323 70 85   MTPX1  MCW   TOP,X1                                     R   7  1508  M W41 089        1777
9324 70 86          MCW   BTM,X2                                     R   7  1515  M W38 094        1777
9325 70 87          FENDX ,,,START,START,,1696,RELOAD SS            R                        MACRO
9326                SBR   INITAP&6,START                            R   7  1522  H 786 934  GEN   1777
9327                SBR   BCLEAR                                    R   4  1529  H 833      GEN   1777
9328                SBR   INITXT&3,START                            R   7  1533  H 796 934  GEN   1777
9329                SBR   TCLEAR,1696                               R   7  1540  H 710 W96  GEN   1778
9330                LCA   @RELOAD SS@,110                           R   7  1547  L W53 110  GEN   1778
9331                B     MONTER                                    R   4  1554  B 700      GEN   1778
9332 70 88   DSA    DSA   -2000                                     R   3  1560  !0?              1778
9333 70 89   TBAD2  DCW   XDOAD1                                    R   3  1563  111              1778
9334 70 90   LOGSW  DC    #1                                        R   1  1564                   1778
9335 70 91          LTORG *                                         R          1565
                    DCW   @_@                                       R   1  1565           LIT   1778
                    DCW   @B@                                       R   1  1566           LIT   1778
                    DCW   @____@                                    R   4  1570           LIT   1779
             HXCMNR DCW   #03                                       R   3  1573           AREA  1779
                    DCW   &NDTABL                                   R   3  1576  140      ADCON 1779
                    DCW   @H@                                       R   1  1577           LIT   1779
                    DCW   &YUSER1                                   R   3  1580  876      ADCON 1779
                    DCW   @N@                                       R   1  1581           LIT   1779
             HLDZNR DCW   #01                                       R   1  1582           AREA  1779
                    DCW   @040@                                     R   3  1585           LIT   1780
                    DCW   @,@                                       R   1  1586           LIT   1780
                    DCW   @4@                                       R   1  1587           LIT   1780
                    DCW   @3@                                       R   1  1588           LIT   1780
                    DCW   @A@                                       R   1  1589           LIT   1780
             LAST R DCW   #03                                       R   3  1592           AREA  1780
                    DCW   @MESSAGE 2 - OBJECT PROGRAM TOO LARGE@    R  36  1628           LIT   1781
                    DCW   @ @                                       R   1  1629           LIT   1781
                    DCW   &9                                        R   1  1630           LIT   1781
             RDCNTR DCW   #01                                       R   1  1631           AREA  1781
                    DCW   &1                                        R   1  1632           LIT   1782
             HEX3 R DCW   #03                                       R   3  1635           AREA  1782
             BTM  R DCW   #03                                       R   3  1638           AREA  1782
             TOP  R DCW   #03                                       R   3  1641           AREA  1782
                    DCW   @013@                                     R   3  1644           LIT   1782
                    DCW   @RELOAD SS@                               R   9  1653           LIT   1782
9336 70 92          DCW   @}@                          SYSTEM GROUP MARK R   1  1654           GMARK 1782
9337 70 93          XFR   START1                                    R          B 337            1783
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 SEQ PG LIN  LABEL  OP    OPERANDS                                          SFX CT  LOCN  INSTRUCTION TYPE  CARD
9338 70 94          JOB   1401 FORTRAN  RELOCATABLE PACKAGE                 R
9339 70 95   110    DCW   @]]]]]@        ALL 11-5-8     FIRST CARD OF PACKAGE  R   5  0110                    1786
9340 70 96   *
9341 70 97   *
9342 70 98   *         RELOCATABLE PACKAGE APPEARS HERE IN SYSTEM DECK
9343 70 99   *         MUST MANUALLY ZONE ADDRESS IN OBLST TO RELOCATE
9344 71 00   *
9345 71 01   *
9346 71 02   110    DCW   @;;;;;@        ALL 11-6-8     LAST CARD OF PACKAGE   R   5  0110                    1787
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 SEQ PG LIN  LABEL  OP    OPERANDS                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD
9347 71 03          JOB   1401 FORTRAN RELOADING SNAPSHOT            R
9348 71 04          SFX   #                                         #
9349 71 05   110    DCW   @RELOAD SS@                               #   9  0110                    1788
9350 71 06          ORG   STARTR                                    #            0934
9351 71 07   BEGIN  B     EXIT1                                     #   4  0934  B |00              1789
9352 71 08   RETRN  MCW   @D@,WORD                                  #   7  0938  M 990 680         1789
9353 71 09          CW    WORD                                      #   4  0945  ) 680             1789
9354 71 10          FENDX C,,,STARTR,STARTR,,GM53S,FORMATPAK        #                      MACRO
9355                BSS   333,C                                     #   5  0949  B 333 C     GEN   1789
9356                SBR   INITAP&6,STARTR                           #   7  0954  H 786 934   GEN   1789
9357                SBR   BCLEAR                                    #   4  0961  H 833       GEN   1789
9358                SBR   INITXT&3,STARTR                           #   7  0965  H 796 934   GEN   1789
9359                SBR   TCLEAR,GM53S                              #   7  0972  H 710 W96   GEN   1790
9360                LCA   @FORMATPAK@,110                           #   7  0979  L 999 110   GEN   1790
9361                B     MONTER                                    #   4  0986  B 700       GEN   1790
9362 71 11          LTORG *                                         #            0990
                    DCW   @D@                                       #   1  0990              LIT   1790
                    DCW   @FORMATPAK@                               #   9  0999              LIT   1790
9363 71 12   EXIT1  SBR   INITAP&6,333                              #   7  1000  H 786 333         1790
9364 71 13          SBR   BCLEAR,EXIT1                              #   7  1007  H 833 |00         1791
9365 71 14          SBR   INITXT&3,RETRN                            #   7  1014  H 796 938         1791
9366 71 15          SBR   TCLEAR,GM53S                              #   7  1021  H 710 W96         1791
9367 71 16          LCA   @SNAPSHOT53@,110                          #   7  1028  L |48 110         1791
9368 71 17          B     MONTER                                    #   4  1035  B 700             1791
9369 71 18          LTORG *                                         #            1039
                    DCW   @SNAPSHOT53@                              #  10  1048              LIT   1792
9370 71 19          ORG   1696                                      #            1696
9371 71 20   GM53S  DCW   @}@                 GROUP MARK           #   1  1696              GMARK 1793
9372 71 21          XFR   BEGIN                                     #            B 934               1794
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 SEQ PG LIN  LABEL  OP    OPERANDS                  SFX CT  LOCN  INSTRUCTION TYPE  CARD
9373 71 22          JOB   1401 FORTRAN SNAPSHOT 53S  #
9374 71 23   XXX    EQU   0                          #      0000
9375 71 24   XL1    EQU   089                        #      0089
9376 71 25   XL2    EQU   094                        #      0094
9377 71 26   XL3    EQU   099                        #      0099
9378 71 27          ORG   333                        #            0333
9379 71 28          SBR   PRTXT&3                    #   4  0333  H 567             1797
9380 71 29          SBR   HLDXT&6                    #   4  0337  H 408             1797
9381 71 30          MCW   @000@,LINCT-2              #   7  0341  M 661 656         1797
9382 71 31          MCW   XL3, HLD32&6               #   7  0348  M 099 415         1797
9383 71 32          MCW   XL1, HLD31&6               #   7  0355  M 089 422         1797
9384 71 33          SBR   XL1, 1                     #   7  0362  H 089 001         1797
9385 71 34          SBR   XL3, 202                   #   7  0369  H 099 202         1798
9386 71 35          CS    332                        #   4  0376  / 332             1798
9387 71 36          CS                               #   1  0380  /                 1798
9388 71 37          MCW   110,210                    #   7  0381  M 110 210         1798
9389 71 38          BSS   ONLY,F                     #   5  0388  B 621 F           1798
9390 71 39          CC    1                          #   2  0393  F 1               1798
9391 71 40          MCW   094,250                    #   7  0395  M 094 250         1798
9392 71 41   HLDXT  SBR   216,XXX                    #   7  0402  H 216 000         1799
9393 71 42   HLD32  SBR   256,XXX                    #   7  0409  H 256 000         1799
9394 71 43   HLD31  SBR   244,XXX                    #   7  0416  H 244 000         1799
9395 71 44          W                                #   1  0423  2               1799
9396 71 45          CC    K                          #   2  0424  F K             1799
9397 71 46          ZA    &2,PGCTR#2                 #   7  0426  ? 662 664         1799
9398 71 47   NULIN  CS    332                        #   4  0433  / 332             1799
9399 71 48          CS                               #   1  0437  /                 1800
9400 71 49          CC    J                          #   2  0438  F J             1800
9401 71 50          MCW   LINCT,306                  #   7  0440  M 658 306         1800
9402 71 51          MCW                              #   1  0447  M                 1800
9403 71 52          SBR   MVHED&6                    #   4  0448  H 465             1800
9404 71 53          MCW   @9@, CTR-1                 #   7  0452  M 665 668         1800
9405 71 54   MVHED  MCW   CTR-1,XXX                  #   7  0459  M 668 000         1800
9406 71 55          MCW   HEAD                       #   4  0466  M 651             1801
9407 71 56          SBR   MVHED&6                    #   4  0470  H 465             1801
9408 71 57          A     @I0@, CTR#2                #   7  0474  A 667 669         1801
9409 71 58          BWZ   MVHED, CTR-1, 2           #   8  0481  V 459 668 2       1801
9410 71 59          A     &1,LINCT-2                 #   7  0489  A 670 656         1801
9411 71 60          W                                #   1  0496  2               1801
9412 71 61   LOOP   SW    0&X3                       #   4  0497  , 0?0             1801
9413 71 62          MCW   0&X1,0&X3                  #   7  0501  M 0|0 0?0         1802
9414 71 63          BW    CMPAB,0&X1                 #   8  0508  V 520 0|0 1       1802
9415 71 64          CW    0&X3                       #   4  0516  ) 0?0             1802
9416 71 65   CMPAB  C     XL1,PARAMA&2               #   7  0520  C 089 688         1802
9417 71 66          BU    CPL                        #   5  0527  B 568 /           1802
9418 71 67          W                                #   1  0532  2               1802
9419 71 68          WM                               #   2  0533  2 )             1802
9420 71 69   RSTRX  MCW   HLD31&6,XL1                #   7  0535  M 422 089         1803
9421 71 70          MCW   HLD32&6,XL3                #   7  0542  M 415 099         1803
9422 71 71          CS    332                        #   4  0549  / 332             1803
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 SEQ PG LIN  LABEL   OP    OPERANDS                                SFX CT  LOCN  INSTRUCTION TYPE  CARD
9423 71 71           CS                                             #  1  0553  /                 1803
9424 71 73           BSS   *&5,G                                    #  5  0554  B 563 G           1803
9425 71 74           B     PRTXT                                    #  4  0559  B 564             1803
9426 71 75           H                                              #  1  0563  .                 1803
9427 71 76   PRTXT    B     0                                        #  4  0564  B 000             1804
9428 71 77   CPL     SBR   XL1, 1&X1                                #  7  0568  H 089 0|1         1804
9429 71 78           BCE   INC, XL3-2, 2                           #  8  0575  B 632 097 2       1804
9430 71 79           SBR   XL3, 201                                 #  7  0583  H 099 201         1804
9431 71 80           W                                              #  1  0590  2                 1804
9432 71 81           WM                                             #  2  0591  2 )               1804
9433 71 82           A     &1,PGCTR                                 #  7  0593  A 670 664         1804
9434 71 83           C     PGCTR,&15                                #  7  0600  C 664 672         1805
9435 71 84           BU    NULIN                                    #  5  0607  B 433 /           1805
9436 71 85           S     PGCTR                                    #  4  0612  S 664             1805
9437 71 86           CCB   NULIN,1                                  #  5  0616  F 433 1           1805
9438 71 87   ONLY    MCW   WORD,220                                 #  7  0621  M 680 220         1805
9439 71 88           W     RSTRX                                    #  4  0628  2 535             1805
9440 71 89   INC     A     &1,XL3                                   #  7  0632  A 670 099         1805
9441 71 90           B     LOOP                                     #  4  0639  B 497             1806
9442 71 91   HEAD    DCW   @9........@                              #  9  0651                     1806
9443 71 92           DCW   @9-@                                     #  2  0653                     1806
9444 71 93   LINCT   DCW   00000                                    #  5  0658                     1806
9445 71 94           LTORG *                                        #        0659
                     DCW   @000@                                    #  3  0661             LIT     1806
                     DCW   &2                                       #  1  0662             LIT     1806
             PGCTR#  DCW   #02                                      #  2  0664             AREA    1806
                     DCW   @9@                                      #  1  0665             LIT     1807
                     DCW   @I0@                                     #  2  0667             LIT     1807
             CTR  #  DCW   #02                                      #  2  0669             AREA    1807
                     DCW   &1                                       #  1  0670             LIT     1807
                     DCW   &15                                      #  2  0672             LIT     1807
9446 71 95           DCW   @EXECUTE@                                #  7  0679                     1807
9447 71 96   WORD    DCW   @}@                GROUP MARK IN 680     #  1  0680             GMARK   1807
9448 71 97           XFR   RETRN                                    #        B 938               1808
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 SEQ PG LIN  LABEL  OP    OPERANDS                                SFX CT  LOCN  INSTRUCTION TYPE  CARD
9449 71 98           JOB   1401 FORTRAN  REPLACE PHASE TWO        #
9450 71 99           SFX   Q                                      Q
9451 72 00   NXTOP    EQU   086                                    Q       0086
9452 72 01   NXBTM    EQU   083                                    Q       0083
9453 72 02   X1       EQU   089                                    Q       0089
9454 72 03   X2       EQU   094                                    Q       0094
9455 72 04   X3       EQU   099                                    Q       0099
9456 72 05   FIXWD    EQU   FIXWDR                                 Q       0930
9457 72 06   FLTWD    EQU   FLTWDR                                 Q       0933
9458 72 07           ORG   STARTR                                 Q             0934
9459 72 08   INIT     SBR   GARY#3,1&X3                           Q   7   0934  H V13 0?1          1811
9460 72 09           SW    1&X3                                   Q   4   0941  , 0?1              1811
9461 72 10           SBR   LIMIT#3,0&X2                           Q   7   0945  H V16 0!0          1811
9462 72 11           SBR   TOP#3,0&X1                             Q   7   0952  H V19 0|0          1811
9463 72 12           MCW   PARAMA&2,X2                            Q   7   0959  M 688 094          1811
9464 72 13           C     0&X2                                   Q   4   0966  C 0!0              1811
9465 72 14           C                                            Q   1   0970  C                  1811
9466 72 15           C                                            Q   1   0971  C                  1812
9467 72 16           SBR   RON&6                                  Q   4   0972  H T93              1812
9468 72 17           MCW   NXTOP,X2                              Q   7   0976  M 086 094          1812
9469 72 18           MN    0&X2                                   Q   4   0983  D 0!0              1812
9470 72 19           SAR   TOP2#3                                 Q   4   0987  Q V22              1812
9471 72 20   TEST5   C     X3,LIMIT                               Q   7   0991  C 099 V16          1812
9472 72 21   SWTCH   BE    EXITA                                  Q   5   0998  B /57 S            1812
9473 72 22           C     0&X3                                   Q   4   1003  C 0?0              1813
9474 72 23           SBR   X2                                     Q   4   1007  H 094              1813
9475 72 24           SBR   X3                                     Q   4   1011  H 099              1813
9476 72 25           BCE   TEST2,1&X3,T                           Q   8   1015  B |95 0?1 T        1813
9477 72 26   CKFX    MCW   4&X3,BOX                              Q   7   1023  M 0?4 V25          1813
9478 72 27           BCE   FXFLT,BOX-2,;       11-6-8           Q   8   1030  B T98 V23 ;        1813
9479 72 28           BCE   FXFLT,BOX-2,_       11-7-8           Q   8   1038  B T98 V23 _        1814
9480 72 29           BCE   RON,BOX-2,]         11-5-8           Q   8   1046  B T87 V23 ]        1814
9481 72 30           MCW   BOX,4&X3                             Q   7   1054  M V25 0?4          1814
9482 72 31   CKBOP   MCW   7&X3,BOX#3                           Q   7   1061  M 0?7 V25          1814
9483 72 32           BCE   FXFLT,BOX-2,;       11-6-8           Q   8   1068  B T98 V23 ;        1814
9484 72 33           BCE   FXFLT,BOX-2,_       11-7-8           Q   8   1076  B T98 V23 _        1815
9485 72 34           MCW   BOX,7&X3                             Q   7   1084  M V25 0?7          1815
9486 72 35           B     TEST5                                  Q   4   1091  B 991              1815
9487 72 36   TEST2   BCE   TEST5,4&X3,$                         Q   8   1095  B 991 0?4 $        1815
9488 72 37           C     0&X3,@B700@                            Q   7   1103  C 0?0 V29          1815
9489 72 38           BE    TEST5                                  Q   5   1110  B 991 S            1815
9490 72 39           BWZ   CKFX,4&X2,1                          Q   8   1115  V |23 0!4 1        1816
9491 72 40           BWZ                                        Q   1   1123  V                  1816
9492 72 41           BWZ                                        Q   1   1124  V                  1816
9493 72 42           MCW   @B@,1&X3                             Q   7   1125  M V30 0?1          1816
9494 72 43           MCW   4&X2,X1                              Q   7   1132  M 0!4 089          1816
9495 72 44           MCW   0&X1,X1                              Q   7   1139  M 0|0 089          1816
9496 72 45           MCW   X1,4&X2                              Q   7   1146  M 089 0!4          1816
9497 72 46           B     CKFX                                 Q   4   1153  B |23              1817
9498 72 47   EXITA   MCW   &EXIT,SWTCH&3                       Q   7   1157  M V33 |01          1817
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 SEQ PG LIN  LABEL  OP    OPERANDS                                          SFX CT  LOCN  INSTRUCTION TYPE  CARD
9499 72 48           MCW   TOP,X3                                           Q   7  1164  M V19 099         1817
9500 72 49           MCW   @W96@,LIMIT   FORM-1 CHG ON REASSM OF OBJ FORMAT Q   7  1171  M V36 V16       1817
9501 72 50           B     TEST5                                            Q   4  1178  B 991            1817
9502 72 51    EXIT   MCW   GARY,X3                                          Q   7  1182  M V13 099        1817
9503 72 52           SBR   X3,1&X3                                          Q   7  1189  H 099 0?1        1818
9504 72 53           MZ    X3,ALL9                                          Q   7  1196  Y 099 V07        1818
9505 72 54           MZ                                                     Q   1  1203  Y                1818
9506 72 55           MCW                                                    Q   1  1204  M                1818
9507 72 56           MZ    NXBTM,ALL91                                      Q   7  1205  Y 083 V10        1818
9508 72 57           MZ                                                     Q   1  1212  Y                1818
9509 72 58           MCW                                                    Q   1  1213  M                1818
9510 72 59           C     ALL9,ALL91                                       Q   7  1214  C V07 V10        1819
9511 72 60           BE    SPCL                                             Q   5  1221  B S84 S          1819
9512 72 61           MCW   NXBTM,X3                                         Q   7  1226  M 083 099        1819
9513 72 62    CLEER  CS    0&X3                                             Q   4  1233  / 0?0            1819
9514 72 63           SBR   X3                                               Q   4  1237  H 099            1819
9515 72 64           C     X3,ALL9                                          Q   7  1241  C 099 V07        1819
9516 72 65           BU    CLEER                                            Q   5  1248  B S33 /          1819
9517 72 66    SNGL   C     X3,GARY                                          Q   7  1253  C 099 V13        1820
9518 72 67           BE    EOJ                                              Q   5  1260  B S95 S          1820
9519 72 68           LCA   BLNK#1,0&X3                                      Q   7  1265  L V37 0?0        1820
9520 72 69           SBR   X3                                               Q   4  1272  H 099            1820
9521 72 70           CW    1&X3                                             Q   4  1276  ) 0?1            1820
9522 72 71           B     SNGL                                             Q   4  1280  B S53            1820
9523 72 72    SPCL   MCW   NXBTM,X3                                         Q   7  1284  M 083 099        1820
9524 72 73           B     SNGL                                             Q   4  1291  B S53            1821
9525 72 74    EOJ    MCW   NXBTM,X3                                         Q   7  1295  M 083 099        1821
9526 72 75           MCW   @|@,0&X3                                        Q   7  1302  M V38 0?0        1821
9527 72 76           SBR   X3                                               Q   4  1309  H 099            1821
9528 72 77           MCW   @]@,0&X3                        11-5-8          Q   7  1313  M V39 0?0        1821
9529 72 78           MCW   0&X3                                             Q   4  1320  M 0?0            1821
9530 72 79           SBR   X3                                               Q   4  1324  H 099            1821
9531 72 80           LCA   BLNK,2&X3                                       Q   7  1328  L V37 0?2        1822
9532 72 81           LCA   BLNK                                             Q   4  1335  L V37            1822
9533 72 82           MCW   DOSBSC,SUBSCR                                    Q   7  1339  M 909 191        1822
9534 72 83           FENDX C,,,XBEGIN,XBEGIN,XBEGIN,SYS2,SNAPSHOT           Q                      MACRO
9535                 BSS   333,C                                            Q   5  1346  B 333 C    GEN   1822
9536                 SBR   INITAP&6,XBEGIN                                  Q   7  1351  H 786 838  GEN   1822
9537                 SBR   BCLEAR                                          Q   4  1358  H 833      GEN   1822
9538                 SBR   INITXT&3,XBEGIN                                 Q   7  1362  H 796 838  GEN   1823
9539                 SBR   TCLEAR,SYS2                                     Q   7  1369  H 710 V49  GEN   1823
9540                 LCA   @SNAPSHOT@,110                                 Q   7  1376  L V47 110  GEN   1823
9541                 B     MONTER                                         Q   4  1383  B 700      GEN   1823
9542 72 84    RON    SBR   4&X3,0                                          Q   7  1387  H 0?4 000        1823
9543 72 85           B     CKBOP                                            Q   4  1394  B |61            1823
9544 72 86    FXFLT  SBR   FXT&3                                           Q   4  1398  H U85            1824
9545 72 87           MCW   FIXWD,BOX2                                      Q   7  1402  M 930 094        1824
9546 72 88           BCE   *&8,BOX-2,_        11-7-8                      Q   8  1409  B U24 V23 _      1824
9547 72 89           MCW   FLTWD,BOX2                                      Q   7  1417  M 933 094        1824
9548 72 90           BCE   EOFX,BOX,0                                       Q   8  1424  B U75 V25 0      1824
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 SEQ PG LIN  LABEL   OP    OPERANDS                                SFX CT  LOCN  INSTRUCTION TYPE  CARD
9549 72 91           BWZ   POSTV,BOX,B                              Q  8  1432  V U86 V25 B       1825
9550 72 92   BOX2    EQU   X2                                       Q     0094                    1825
9551 72 93           SW    BOX-1                                    Q  4  1440  , V24            1825
9552 72 94   LOOP    A     &1,BOX                                   Q  7  1444  A V48 V25         1825
9553 72 95           BWZ   DUN2,BOX,B                             Q  8  1451  V U71 V25 B       1825
9554 72 96           MN    0&X2                                     Q  4  1459  D 0!0            1825
9555 72 97           SAR   X2                                       Q  4  1463  Q 094            1825
9556 72 98           B     LOOP                                     Q  4  1467  B U44            1825
9557 72 99   DUN2    CW    BOX-1                                    Q  4  1471  ) V24            1826
9558 73 00   EOFX    MCW   BOX2,BOX                                 Q  7  1475  M 094 V25        1826
9559 73 01   FXT     B     0                                        Q  4  1482  B 000            1826
9560 73 02   POSTV   MN    BOX,SBR&6                                Q  7  1486  D V25 V00        1826
9561 73 03           MN                                             Q  1  1493  D               1826
9562 73 04   SBR     SBR   BOX,0&X2                                Q  7  1494  H V25 0!0        1826
9563 73 05           B     FXT                                      Q  4  1501  B U82            1826
9564 73 06   ALL9    DCW   999                                      Q  3  1507                  1827
9565 73 07   ALL91   DCW   999                                      Q  3  1510                  1827
9566 73 08           LTORG *                                        Q           1511            
             GARY Q  DCW   #03                                      Q  3  1513          AREA    1827
             LIMITQ  DCW   #03                                      Q  3  1516          AREA    1827
             TOP  Q  DCW   #03                                      Q  3  1519          AREA    1827
             TOP2 Q  DCW   #03                                      Q  3  1522          AREA    1827
             BOX  Q  DCW   #03                                      Q  3  1525          AREA    1827
                     DCW   @B700@                                   Q  4  1529          LIT     1828
                     DCW   @B@                                      Q  1  1530          LIT     1828
                     DCW   &EXIT Q                                  Q  3  1533  /82      ADCON   1828
                     DCW   @W96@                                    Q  3  1536          LIT     1828
             BLNK Q  DCW   #01                                      Q  1  1537          AREA    1828
                     DCW   @|@                                      Q  1  1538          LIT     1828
                     DCW   @]@                                      Q  1  1539          LIT     1828
                     DCW   @SNAPSHOT@                               Q  8  1547          LIT     1829
                     DCW   &1                                       Q  1  1548          LIT     1829
9567 73 09   SYS2    DCW   @}@                    SYSTEM GROUP MARK Q  1  1549          GMARK   1829
9568 73 10           XFR   INIT                                     Q           B 934           1830
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 SEQ PG LIN  LABEL  OP    OPERANDS                                              SFX CT  LOCN  INSTRUCTION TYPE  CARD
9569 73 11          JOB   1401 FORTRAN  SNAPSHOT PHASE                          Q
9570 73 12          FBEGN SNAPSHOT,X1,R,,,X3,R,8,XXX                            Q                    MACRO
9571                SFX   8                                                     8                    GEN
9572          XXX   EQU   0                                                     8     0000           GEN
9573          110   DCW   @SNAPSHOT@                                           8   8 0110           GEN   1833
9574          X1    EQU   089                                                   8     0089           GEN
9575          089   DCW   000                                                   8   3 0089           GEN   1834
9576          091   DC    00                                                    8   2 0091           GEN   1834
9577          X3    EQU   099                                                   8     0099           GEN
9578          099   DCW   000                                                   8   3 0099           GEN   1835
9579          100   DC    0                                                     8   1 0100           GEN   1835
9580 73 13          ORG   XBEGIN                                                8         0838
9581 73 14    START BCE   *&5,PARAMA&8,S                                        8   8 0838 B 850 694 S       1836
9582 73 15          B     RSTRX                                                 8   4 0846 B /28             1836
9583 73 16          BW    NOGUD,FAILSW                                          8   8 0850 V /58 184 1       1836
9584 73 17          SBR   X1,4200                                             8   7 0858 H 089 20|         1836
9585 73 18          SBR   X3,201                                              8   7 0865 H 099 201         1836
9586 73 19          BCE   NOIO,PARAMA&10,X                                     8   8 0872 B 900 696 X       1837
9587 73 20          BCE   LIO,PARAMA&10,L                                      8   8 0880 B 925 696 L       1837
9588 73 21          BCE   AFORM,PARAMA&10,A                                    8   8 0888 B 950 696 A       1837
9589 73 22          B     PRINT                                                 8   4 0896 B 971             1837
9590 73 23    NOIO  SBR   X1,1600                                             8   7 0900 H 089 W00         1837
9591 73 24          MCW   @01600@,LINCT                                       8   7 0907 M T26 T21         1838
9592 73 25          MCW   @1696@,BIGMS                                        8   7 0914 M T30 T00         1838
9593 73 26          B     PRINT                                                 8   4 0921 B 971             1838
9594 73 27    LIO   SBR   X1,2000                                             8   7 0925 H 089 !00         1838
9595 73 28          MCW   @02000@,LINCT                                       8   7 0932 M T35 T21         1838
9596 73 29          MCW   @2015@,BIGMS                                        8   7 0939 M T39 T00         1838
9597 73 30          B     PRINT                                                 8   4 0946 B 971             1839
9598 73 31    AFORM SBR   X1,4600                                             8   7 0950 H 089 60|         1839
9599 73 32          MCW   @04600@,LINCT                                       8   7 0957 M T44 T21         1839
9600 73 33          MCW   @4616@,BIGMS                                        8   7 0964 M T48 T00         1839
9601 73 34    PRINT MESSG @SNAPSHOT OF OBJECT PROGRAM@,60,1,J                   8                    MACRO
9602          PRINT CC    1                                                     8   2 0971 F 1           GEN   1839
9603                CS    332                                                   8   4 0973 / 332         GEN   1839
9604                CS                                                        8   1 0977 /             GEN   1839
9605                MCW   @SNAPSHOT OF OBJECT PROGRAM@,60&200                  8   7 0978 M T74 260     GEN   1840
9606                W                                                         8   1 0985 2             GEN   1840
9607                CC    J                                                   8   2 0986 F J           GEN   1840
9608 73 35          MESSG @INPUT/OUTPUT AREAS LOCATED FROM 001-332@,39,,J     8                    MACRO
9609                CS    332                                                   8   4 0988 / 332         GEN   1840
9610                CS                                                        8   1 0992 /             GEN   1840
9611                MCW   @INPUT/OUTPUT AREAS LOCATED FROM 001-332@,39&200     8   7 0993 M U13 239     GEN   1840
9612                W                                                         8   1 1000 2             GEN   1840
9613                CC    J                                                   8   2 1001 F J           GEN   1841
9614 73 36          MESSG BIGMS,48,,K                                         8                    MACRO
9615                CS    332                                                   8   4 1003 / 332         GEN   1841
9616                CS                                                        8   1 1007 /             GEN   1841
9617                MCW   BIGMS,48&200                                        8   7 1008 M T00 248     GEN   1841
9618                W                                                         8   1 1015 2             GEN   1841
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 SEQ PG LIN  LABEL  OP    OPERANDS                                          SFX CT  LOCN  INSTRUCTION TYPE  CARD
9619                CC    K                                                  8  2  1016  F K         GEN   1841
9620 73 37          ZA    &3,PGCTR                                           8  7  1018  ? U14 U67         1841
9621 73 38  NULIN   CS    332                                                8  4  1025  / 332             1842
9622 73 39          CS                                                       8  1  1029  /                 1842
9623 73 40          CC    J                                                  8  2  1030  F J               1842
9624 73 41          MCW   LINCT,311                                          8  7  1032  M T21 311         1842
9625 73 42          MCW                                                      8  1  1039  M                 1842
9626 73 43          MCW                                                      8  1  1040  M                 1842
9627 73 44          SBR   MVHED&6                                            8  4  1041  H |58             1842
9628 73 45          MCW   @9@,CTR-1                                         8  7  1045  M U15 U18         1843
9629 73 46  MVHED   MCW   CTR-1,XXX                                         8  7  1052  M U18 000         1843
9630 73 47          MCW   HEAD                                               8  4  1059  M T09             1843
9631 73 48          SBR   MVHED&6                                            8  4  1063  H |58             1843
9632 73 49          A     @I0@,CTR#2                                         8  7  1067  A U17 U19         1843
9633 73 50          BWZ   MVHED,CTR-1,2                                      8  8  1074  V |52 U18 2       1843
9634 73 51          A     &1,LINCT-2                                         8  7  1082  A U20 T19         1844
9635 73 52          W                                                        8  1  1089  2                 1844
9636 73 53  LOOP    SW    0&X3                                               8  4  1090  , 0?0             1844
9637 73 54          MCW   0&X1,0&X3                                         8  7  1094  M 0|0 0?0         1844
9638 73 55          BW    CMPAB,0&X1                                         8  8  1101  V /13 0|0 1       1844
9639 73 56          CW    0&X3                                               8  4  1109  ) 0?0             1844
9640 73 57  CMPAB   C     X1,PARAMA&2                                        8  7  1113  C 089 688         1844
9641 73 58          BU    CPL                                                8  5  1120  B /88 /           1845
9642 73 59          W                                                        8  1  1125  2                 1845
9643 73 60          WM                                                       8  2  1126  2 )               1845
9644 73 61  RSTRX   FENDX C,,,,BEGIN/,,SYSG,CONDECK1                         8                    MACRO
9645        RSTRX   BSS   333,C                                             8  5  1128  B 333 C     GEN   1845
9646                SBR   INITXT&3,BEGIN/                                    8  7  1133  H 796 884   GEN   1845
9647                SBR   TCLEAR,SYSG                                       8  7  1140  H 710 U70   GEN   1845
9648                LCA   @CONDECK1@,110                                     8  7  1147  L U28 110   GEN   1845
9649                B     MONTER                                             8  4  1154  B 700       GEN   1846
9650 73 62  NOGUD   MESSG @SNAPSHOT DEFERRED DUE TO INPUT ERRORS@,37,J       8                    MACRO
9651        NOGUD   CC    J                                                  8  2  1158  F J         GEN   1846
9652                CS    332                                                8  4  1160  / 332       GEN   1846
9653                CS                                                       8  1  1164  /           GEN   1846
9654                MCW   @SNAPSHOT DEFERRED DUE TO INPUT ERRORS@,37&200     8  7  1165  M U65 237   GEN   1846
9655                W                                                        8  1  1172  2           GEN   1846
9656 73 63          FORMS                                                    8                    MACRO
9657                BCV   *&5                                                8  5  1173  B /82 @     GEN   1846
9658                B     *&3                                                8  4  1178  B /84       GEN   1847
9659                CC    1                                                  8  2  1182  F 1         GEN   1847
9660 73 64          B     RSTRX                                              8  4  1184  B /28             1847
9661 73 65  CPL     SBR   X1,1&X1                                            8  7  1188  H 089 0|1         1847
9662 73 66          BCE   INC,X3-2,2                                         8  8  1195  B S42 097 2       1847
9663 73 67          SBR   X3,201                                            8  7  1203  H 099 201         1847
9664 73 68          W                                                        8  1  1210  2                 1847
9665 73 69          WM                                                       8  2  1211  2 )               1848
9666 73 70          A     &1,PGCTR#2                                         8  7  1213  A U20 U67         1848
9667 73 71          C     PGCTR,&15                                          8  7  1220  C U67 U69         1848
9668 73 72          BU    NULIN                                              8  5  1227  B |25 /           1848
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 SEQ PG LIN  LABEL   OP    OPERANDS                                          SFX CT  LOCN  INSTRUCTION TYPE  CARD
9669 73 73           S     PGCTR                                              8   4  1232  S U67             1848
9670 73 74           CC    1                                                  8   2  1236  F 1               1848
9671 73 75           B     NULIN                                              8   4  1238  B |25             1848
9672 73 76   INC     A     &1,X3                                              8   7  1242  A U20 099         1849
9673 73 77           B     LOOP                                               8   4  1249  B |90             1849
9674 73 78   BIGMS   DCW   @FIXED OBJECT TIME ROUTINES LOCATED FROM 333-4279@ 8  48  1300                    1851
9675 73 79   HEAD    DCW   @9........@                                        8   9  1309                    1851
9676 73 80           DCW   @9@                                                8   1  1310                    1851
9677 73 81           DCW   @-AREA-@                                           8   6  1316                    1851
9678 73 82   LINCT   DCW   04200                                              8   5  1321                    1851
9679 73 83           LTORG *                                                  8            1322
                     DCW   @01600@                                            8   5  1326             LIT   1852
                     DCW   @1696@                                             8   4  1330             LIT   1852
                     DCW   @02000@                                            8   5  1335             LIT   1852
                     DCW   @2015@                                             8   4  1339             LIT   1852
                     DCW   @04600@                                            8   5  1344             LIT   1852
                     DCW   @4616@                                             8   4  1348             LIT   1852
                     DCW   @SNAPSHOT OF OBJECT PROGRAM@                       8  26  1374             LIT   1853
                     DCW   @INPUT/OUTPUT AREAS LOCATED FROM 001-332@          8  39  1413             LIT   1854
                     DCW   &3                                                 8   1  1414             LIT   1855
                     DCW   @9@                                                8   1  1415             LIT   1855
                     DCW   @I0@                                               8   2  1417             LIT   1855
             CTR  8  DCW   #02                                                8   2  1419             AREA  1855
                     DCW   &1                                                 8   1  1420             LIT   1855
                     DCW   @CONDECK1@                                         8   8  1428             LIT   1855
                     DCW   @SNAPSHOT DEFERRED DUE TO INPUT ERRORS@            8  37  1465             LIT   1856
             PGCTR8  DCW   #02                                                8   2  1467             AREA  1856
                     DCW   &15                                                8   2  1469             LIT   1857
9680 73 84   SYSG    DCW   @}@                          SYSTEM GROUP MARK     8   1  1470             GMARK 1857
9681 73 85           XFR   START                                              8            B 838             1858
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 SEQ PG LIN  LABEL  OP    OPERANDS                                      SFX CT  LOCN  INSTRUCTION TYPE  CARD

9682 73 86          JOB   1401 FORTRAN  CONDENSED DECK PHASE ONE         8
9683 73 87          FBEGN CONDECK1,,,,,,,/                               8                        MACRO
9684                SFX   /                                              /                        GEN
9685         110    DCW   @CONDECK1@                                     /   8  0110             GEN   1861
9686 73 88   LAST   EQU   CONLST                                         /      0194
9687 73 89          ORG   XBEGIN                                         /            0838
9688 73 90   PCHCD  SBR   PXT&3                                          /   4  0838  H 858             1862
9689 73 91          A     &1,175                                         /   7  0842  A 883 175         1862
9690 73 92          BSS   MCW18,B                                        /   5  0849  B 859 B           1862
9691 73 93          P                                                    /   1  0854  4                 1862
9692 73 94   PXT    B     0                                              /   4  0855  B 000             1862
9693 73 95   MCW18  MCW   180,280                                        /   7  0859  M 180 280         1862
9694 73 96          MCW                                                  /   1  0866  M                 1862
9695 73 97          WP                                                   /   1  0867  6                 1863
9696 73 98          FORMS                                                /                        MACRO
9697                BCV   *&5                                            /   5  0868  B 877 @     GEN   1863
9698                B     *&3                                            /   4  0873  B 879       GEN   1863
9699                CC    1                                              /   2  0877  F 1         GEN   1863
9700 73 99          B     PXT                                            /   4  0879  B 855             1863
9701 74 00          LTORG *                                              /            0883
                    DCW   &1                                             /   1  0883             LIT   1863
9702 74 01   BEGIN  BCE   GOTTA,PARAMA&7,P                               /   8  0884  B 896 693 P       1863
9703 74 02          B     FENDX                                          /   4  0892  B 956             1864
9704 74 03   GOTTA  BW    FENDX,FAILSW                                   /   8  0896  V 956 184 1       1864
9705 74 04          LCA   CONLST,LAST                                    /   7  0904  L 194 194         1864
9706 74 05          CS    180                                            /   4  0911  / 180             1864
9707 74 06          SW    101                                            /   4  0915  , 101             1864
9708 74 07          MCW   PARAMA-1,180                                   /   7  0919  M 685 180         1864
9709 74 08          BSS   MESSG,B                                        /   5  0926  B 935 B           1864
9710 74 09          B     CDDMP                                          /   4  0931  B 997             1865
9711 74 10   MESSG  MESSG @CONDENSED DECK@,60,1,J                        /                        MACRO
9712         MESSG  CC    1                                              /   2  0935  F 1         GEN   1865
9713                CS    332                                            /   4  0937  / 332       GEN   1865
9714                CS                                                   /   1  0941  /           GEN   1865
9715                MCW   @CONDENSED DECK@,60&200                        /   7  0942  M U04 260   GEN   1865
9716                W                                                    /   1  0949  2           GEN   1865
9717                CC    J                                              /   2  0950  F J         GEN   1865
9718 74 11          B     CDDMP                                          /   4  0952  B 997             1866
9719 74 12   FENDX  FENDX C,,,BEGIN,BEGIN,BEGIN,SYS1,CONDECK2            /                        MACRO
9720         FENDX  BSS   333,C                                          /   5  0956  B 333 C     GEN   1866
9721                SBR   INITAP&6,BEGIN                                 /   7  0961  H 786 884   GEN   1866
9722                SBR   BCLEAR                                         /   4  0968  H 833       GEN   1866
9723                SBR   INITXT&3,BEGIN                                 /   7  0972  H 796 884   GEN   1866
9724                SBR   TCLEAR,SYS1                                    /   7  0979  H 710 U17   GEN   1866
9725                LCA   @CONDECK2@,110                                 /   7  0986  L U12 110   GEN   1867
9726                B     MONTER                                         /   4  0993  B 700       GEN   1867
9727 74 13   CDDMP  LCA   @0000@,175                                     /   7  0997  L U16 175         1867
9728 74 14          BWZ   LITCS,PARAMA&2,2                               /   8  1004  V |45 688 2       1867
9729 74 15          MCW   CS1A,152                                       /   7  1012  M T19 152         1867
9730 74 16          B     PCHCD                                          /   4  1019  B 838             1867
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 SEQ PG LIN  LABEL  OP    OPERANDS                                          SFX CT  LOCN  INSTRUCTION TYPE  CARD
9731 74 17          MCW   PARAMA&2,CS2XA                                    /   7  1023  M 688 T48         1868
9732 74 18          MCW   CS2A,171                                          /   7  1030  M T90 171         1868
9733 74 19          B     PCHCD                                             /   4  1037  B 838            1868
9734 74 20          B     DOBC1                                             /   4  1041  B |74            1868
9735 74 21  LITCS   MCW   CS1,144                                          /   7  1045  M /40 144         1868
9736 74 22          B     PCHCD                                             /   4  1052  B 838            1868
9737 74 23          MCW   PARAMA&2,CS2X                                     /   7  1056  M 688 /69         1869
9738 74 24          MCW   CS2, 170                                          /   7  1063  M S10 170         1869
9739 74 25          B     PCHCD                                             /   4  1070  B 838            1869
9740 74 26  DOBC1   MCW   BC1,171                                          /   7  1074  M S21 171         1869
9741 74 27          CS                                                      /   1  1081  /                 1869
9742 74 28          LCA   BC2,146                                          /   7  1082  L S67 146         1869
9743 74 29          B     PCHCD                                             /   4  1089  B 838            1869
9744 74 30          B     FENDX                                             /   4  1093  B 956            1870
9745 74 31  CS1     DCW   @,008015,019026,030,034041,045,053,0570571026@    /  44  1140                    1872
9746 74 32  CS2X    DCW   @L068112,102106,113/101099/I99@                   /  29  1169                    1872
9747 74 33  CS2     DC    @,027A070028)027B0010270B0261,001/001113I0@       /  41  1210                    1874
9748 74 34  BC1     DCW   @,0010011040@                                     /  11  1221                    1874
9749 74 35  BC2     DCW   @,008015,022029,036040,047054,061068,072/061039@  /  46  1267                    1876
9750 74 364         DCW   @,008015,022026,030037,044,049,053034@      V3M4  /  36  1303                    1877
9751 74 37  CS1A    DC    @,035036N000001026@                         V3M4  /  16  1319                    1878
9752 74 38  CS2XA   DCW   @L068116,105106,110117B101/I9I@                  /  29  1348                    1879
9753 74 39  CS2A    DC    @H029NNNC029056B026/B001/0991,001/001117I0?@  V3M4  /  42  1390                    1881
9754 74 40          LTORG *                                                 /        1391
                    DCW   @CONDENSED DECK@                                  /  14  1404          LIT       1881
                    DCW   @CONDECK2@                                        /   8  1412          LIT       1881
                    DCW   @0000@                                            /   4  1416          LIT       1881
9755 74 41  SYS1    DCW   @}@                        SYSTEM GROUP MARK      /   1  1417          GMARK     1881
9756 74 42          XFR   BEGIN                                             /        B 884                  1882
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 SEQ PG LIN  LABEL  OP    OPERANDS                                    SFX CT  LOCN  INSTRUCTION TYPE  CARD
9757 74 43          JOB   1401 FORTRAN  CONDENSED DECK PHASE TWO       /
9758 74 44          FBEGN CONDECK2,,,,,,,2                           /                    MACRO
9759                SFX   2                                          2                    GEN
9760        110     DCW   @CONDECK2@                                  2   8  0110          GEN   1885
9761 74 45          ORG   BEGIN/                                     2          0884
9762 74 46  START   MCW   MONTOR,READ                                2   7  0884  M 769 |74       1886
9763 74 47          BW    PCHTS,XLINKW        BRANCH IF XLINKF SWITCH OFF  2   8  0891  V 984 185 1     1886
9764 74 48          MCW   MONTOR,SKPSS        SKIP SNAPSHOT            2   7  0899  M 769 920       1886
9765 74 49          SBR   TPERR&15,RDTPS                              2   7  0906  H /17 931       1886
9766 74 50          SBR   CK4B-1,MVNSS                               2   7  0913  H /30 924       1886
9767 74 51  SKPSS   R     ENDSS                                      2   4  0920  1 944           1887
9768 74 52  MVNSS   MCW   &9,RDCNT                                   2   7  0924  M V36 V85       1887
9769 74 53  RDTPS   RT    1,1                                        2   8  0931  M %U1 001 R     1887
9770 74 54          BER   TPERR                                      2   5  0939  B /02 L         1887
9771 74 55  ENDSS   BCE   *&5,68,B                                   2   8  0944  B 956 068 B     1887
9772 74 56          B     SKPSS                                      2   4  0952  B 920           1887
9773 74 57          SBR   GETXT&3,CK4B        11-5-8 CARD ALREADY READ 2   7  0956  H /01 /31       1888
9774 74 58          SBR   TPERR&15,RDTAP      RESTORE TPERR OPERANDS   2   7  0963  H /17 |85       1888
9775 74 59          SBR   CK4B-1,MVNIN                               2   7  0970  H /30 |78       1888
9776 74 60          A     &1,NBRSW                                   2   7  0977  A V37 V86       1888
9777 74 61  PCHTS   BCE   *&5,PARAMA&7,P                            2   8  0984  B 996 693 P     1888
9778 74 62          B     READ                                       2   4  0992  B |74           1889
9779 74 63          BW    NOPUN,FAILSW                               2   8  0996  V /66 184 1     1889
9780 74 64          MCW   @1040@,171                                 2   7  1004  M V41 171       1889
9781 74 65          MCW   @L014100,092097,081082,083084@            2   4  1011  M V69           1889
9782 74 66          CS                                               2   1  1015  /               1889
9783 74 67          LCA   @000000000000000@, 114                     2   7  1016  L V83 114       1889
9784 74 68          MCW   @B@,RETRN                                  2   7  1023  M V84 |70       1889
9785 74 69          B     PCHCD                                 V3M4 2   4  1030  B 838           1890
9786 74 70          MCW   @1040@,171                                 2   7  1034  M V41 171       1890
9787 74 71          MCW   LDFMT-1                                    2   4  1041  M V34           1890
9788 74 72          CS                                               2   1  1045  /               1890
9789 74 73          MCW   MASK,157                                   2   7  1046  M U63 157       1890
9790 74 74          SW    SYSC2                                      2   4  1053  , W12           1890
9791 74 75          MCW   SYSC2,108                                  2   7  1057  M W12 108       1890
9792 75 76          MCW   PARAMA&6                                   2   4  1064  M 692           1891
9793 75 77          MCW                                              2   1  1068  M               1891
9794 75 78          LCA                                              2   1  1069  L               1891
9795 74 79  RETRN   NOP   PCHCD                                      2   4  1070  N 838           1891
9796 74 80  READ    R     GETXT                                      2   4  1074  1 |98           1891
9797 74 81  MVNIN   MCW   &9,RDCNT#1                                 2   7  1078  M V36 V85       1891
9798 74 82  RDTAP   RT    1,1                                        2   8  1085  M %U1 001 R     1891
9799 74 83          BER   TPERR                                      2   5  1093  B /02 L         1892
9800 74 84  GETXT   B     ONCE                                       2   4  1098  B /55           1892
9801 74 85  TPERR   BSP   1                                          2   5  1102  U %U1 B         1892
9802 74 86          S     &1,RDCNT                                   2   7  1107  S V37 V85       1892
9803 74 87          BWZ   RDTAP,RDCNT,B                              2   8  1114  V |85 V85 B     1892
9804 74 88          NOP   3333                                       2   4  1122  N C33           1892
9805 74 89          H                                                2   1  1126  .               1892
9806 74 90          B     MVNIN                                      2   4  1127  B |78           1893
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 SEQ PG LIN  LABEL  OP    OPERANDS                                    SFX CT  LOCN  INSTRUCTION TYPE  CARD
9807 74 91   CK4B   BCE   FENDX,68,B                                   2  8  1131  B /85 068 B       1893
9808 74 92          MCW   71,171                                       2  7  1139  M 071 171         1893
9809 74 93          CHAIN 5                                           2                  MACRO
9810                MCW                                               2  1  1146  M           GEN   1893
9811                MCW                                               2  1  1147  M           GEN   1893
9812                MCW                                               2  1  1148  M           GEN   1893
9813                MCW                                               2  1  1149  M           GEN   1893
9814                MCW                                               2  1  1150  M           GEN   1894
9815 74 94          B     RETRN                                       2  4  1151  B |70             1894
9816 74 95   ONCE   SBR   GETXT&3,CK4B                                2  7  1155  H /01 /31        1894
9817 74 96          B     READ                                        2  4  1162  B |74             1894
9818 74 97   NOPUN  MESSG MESSG,43,,J                                 2                  MACRO
9819        NOPUN  CS    332                                         2  4  1166  / 332       GEN   1894
9820                CS                                               2  1  1170  /           GEN   1894
9821                MCW   MESSG,43&200                                2  7  1171  M V06 243   GEN   1894
9822                W                                                2  1  1178  2           GEN   1895
9823                CC    J                                          2  2  1179  F J         GEN   1895
9824 74 98          B     READ                                        2  4  1181  B |74             1895
9825 74 99   FENDX  A     &1,NBRSW#1                                  2  7  1185  A V37 V86         1895
9826 75 00          BCE   EXIT,NBRSW,3                               2  8  1192  B S95 V86 3       1895
9827 75 01          BCE   READ,NBRSW,2                               2  8  1200  B |74 V86 2       1895
9828 75 02          BW    *&5,XLINKW          BRANCH IF XLINKF SWITCH OFF  2  8  1208  V S20 185 1  1895
9829 75 03          B     READ                                        2  4  1216  B |74             1896
9830 75 04          MCW   MONTOR,SKPXL        SKIP XLINK              2  7  1220  M 769 S41         1896
9831 75 05          SBR   TPERR&15,RDTPX                             2  7  1227  H /17 S52        1896
9832 75 06          SBR   CK4B-1,MVNXL                               2  7  1234  H /30 S45        1896
9833 75 07   SKPXL  R     ENDXL                                       2  4  1241  1 S65            1896
9834 75 08   MVNXL  MCW   &9,RDCNT                                    2  7  1245  M V36 V85        1896
9835 75 09   RDTPX  RT    1,1                                         2  8  1252  M %U1 001 R      1897
9836 75 10          BER   TPERR                                       2  5  1260  B /02 L          1897
9837 75 11   ENDXL  BCE   *&5,68,B                                    2  8  1265  B S77 068 B      1897
9838 75 12          B     SKPXL                                       2  4  1273  B S41            1897
9839 75 13          SBR   TPERR&15,RDTAP      RESTORE TPERR OPERANDS  2  7  1277  H /17 |85        1897
9840 75 14          SBR   CK4B-1,MVNIN                               2  7  1284  H /30 |78        1897
9841 75 15          B     FENDX                                       2  4  1291  B /85            1898
9842 75 16   EXIT   SBR   GETXT&3,FEND2                              2  7  1295  H /01 T06        1898
9843 75 17          B     READ                                        2  4  1302  B |74             1898
9844 75 18   FEND2  BCE   FEND3,RETRN,N                               2  8  1306  B U05 |70 N      1898
9845 75 19          CS    171                                         2  4  1314  / 171            1898
9846 75 20          SW    101                                         2  4  1318  , 101            1898
9847 75 21          MCW   @1040@,171                                  2  7  1322  M V41 171        1898
9848 75 22          MCW   LDFMT-1                                     2  4  1329  M V34            1899
9849 75 23          MCW   @M002V36@,146  CHANGE ON REASM OF OB ARITH XSIZE&6  2  7  1333  M V93 146  1899
9850 75 24          MCW   PARAMA&4,102                                2  7  1340  M 690 102        1899
9851 75 25          B     PCHCD                                       2  4  1347  B 838            1899
9852 75 26          MCW   @837@,146      CHANGE ON REASM OF OB ARITH FSIZE&6  2  7  1351  M V96 146  1899
9853 75 27          MCW   PARAMA&6,102                                2  7  1358  M 692 102        1899
9854 75 28          B     PCHCD                                       2  4  1365  B 838            1900
9855 75 29          MCW   @3T30@,146     CHANGE ON REASM OF OB ARITH OUT1-1   2  7  1369  M W00 146  1900
9856 75 30          MCW   GOTOFN,103                                  2  7  1376  M 188 103        1900
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 SEQ PG LIN  LABEL   OP    OPERANDS                                          SFX CT  LOCN  INSTRUCTION TYPE  CARD
9857 75 31           B     PCHCD                                              2   4  1383  B 838             1900
9858 75 32           MCW   @S09@,146      CHANGE ON REASM OF OB ARITH STSUB&3 2   7  1387  M W03 146         1900
9859 75 33           MCW   SUBSCR,103                                         2   7  1394  M 191 103         1900
9860 75 34           B     PCHCD                                              2   4  1401  B 838             1901
9861 75 35    FEND3  FENDX C,,,XBEGIN,XBEGIN,XBEGIN,SYSC2,CONDECK3             2                       MACRO
9862          FEND3  BSS   333,C                                              2   5  1405  B 333 C     GEN   1901
9863                 SBR   INITAP&6,XBEGIN                                    2   7  1410  H 786 838   GEN   1901
9864                 SBR   BCLEAR                                             2   4  1417  H 833       GEN   1901
9865                 SBR   INITXT&3,XBEGIN                                    2   7  1421  H 796 838   GEN   1901
9866                 SBR   TCLEAR,SYSC2                                      2   7  1428  H 710 W12   GEN   1901
9867                 LCA   @CONDECK3@,110                                     2   7  1435  L W11 110   GEN   1902
9868                 B     MONTER                                             2   4  1442  B 700       GEN   1902
9869 75 36           DCW   @L008@                                             2   4  1449                      1902
9870 75 37           DC    PARAMA&7                                           2   3  1452  693                 1902
9871 75 38           DC    @,@                                                2   1  1453                      1902
9872 75 39           DC    PARAMA&3                                           2   3  1456  689                 1902
9873 75 40           DC    PARAMA&5                                           2   3  1459  691                 1902
9874 75 41           DC    @,@                                                2   1  1460                      1902
9875 75 42    MASK   DC    PARAMA&7                                           2   3  1463  693                 1902
9876 75 43    MESSG  DCW   @CONDENSED DECK DEFERRED DUE TO INPUT ERRORS@      2  43  1506                      1904
9877 75 44    LDFMT  DCW   @L039000,040040,040040,040040$@                    2  29  1535                      1904
9878 75 45           LTORG *                                                  2            1536
                     DCW   &9                                                 2   1  1536             LIT   1904
                     DCW   &1                                                 2   1  1537             LIT   1904
                     DCW   @1040@                                             2   4  1541             LIT   1904
                     DCW   @L014100,092097,081082,083084@                     2  28  1569             LIT   1905
                     DCW   @000000000000000@                                  2  14  1583             LIT   1906
                     DCW   @B@                                                2   1  1584             LIT   1906
              RDCNT2 DCW   #01                                                2   1  1585             AREA  1906
              NBRSW2 DCW   #01                                                2   1  1586             AREA  1906
                     DCW   @M002V36@                                          2   7  1593             LIT   1906
                     DCW   @837@                                              2   3  1596             LIT   1906
                     DCW   @3T30@                                             2   4  1600             LIT   1906
                     DCW   @S09@                                              2   3  1603             LIT   1907
                     DCW   @CONDECK3@                                         2   8  1611             LIT   1907
9879 75 46    SYSC2  DCW   @}@                          SYSTEM GROUP MARK     2   1  1612             GMARK 1907
9880 75 47    PCHCD  EQU   PCHCD/                                             2      0838
9881 75 48           XFR   START                                              2            B 884             1908
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 SEQ PG LIN  LABEL  OP    OPERANDS                                          SFX CT  LOCN  INSTRUCTION TYPE  CARD
9882 75 49          JOB   1401 FORTRAN  FIXED ROUTINE FOR CONDENSING ROUTINE  2
9883 75 50   110    DCW   @]]]]]@     ALL 11-5-8    FIRST CARD              2   5  0110                    1911
9884 75 51   *
9885 75 52   *
9886 75 53   *         COPY OF FIXED PACKAGE
9887 75 54   *         SNAPSHOT - XLINK - ARITH
9888 75 55   *
9889 75 56   110    DCW   @;;;;;@     ALL 11-6-8  LAST CARD                2   5  0110                    1912
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 SEQ PG LIN  LABEL  OP    OPERANDS                                SFX CT  LOCN  INSTRUCTION TYPE  CARD
9890 75 57          JOB   1401 FORTRAN  CONDENSED DECK PHASE THREE  2
9891 75 58          FBEGN CONDECK3,X1,R,X2,R,X3,R,1               2                      MACRO
9892                SFX   1                                       1                      GEN
9893          110   DCW   @CONDECK3@                              1   8  0110            GEN   1913
9894          X1    EQU   089                                     1      0089            GEN
9895          089   DCW   000                                     1   3  0089            GEN   1914
9896          091   DC    00                                      1   2  0091            GEN   1914
9897          X2    EQU   094                                     1      0094            GEN
9898          094   DCW   000                                     1   3  0094            GEN   1914
9899          096   DC    00                                      1   2  0096            GEN   1914
9900          X3    EQU   099                                     1      0099            GEN
9901          099   DCW   000                                     1   3  0099            GEN   1914
9902          100   DC    0                                       1   1  0100            GEN   1914
9903 75 59    LAST  EQU   CONLST                                   1      0194
9904 75 60          ORG   XBEGIN                                  1             0838
9905 75 61    BEGIN MCW   GOGOGO,X1                               1   7  0838  M 183 089       1915
9906 75 62          BCE   *&5,PARAMA&7,P                          1   8  0845  B 857 693 P     1915
9907 75 63          B     GARY                                    1   4  0853  B U74           1915
9908 75 64          BW    GARY,FAILSW                             1   8  0857  V U74 184 1     1915
9909 75 65    REST  SBR   WPB&3,RESET                            1   7  0865  H /55 893       1915
9910 75 66          MCW   CON40-11,BOX1                           1   7  0872  M V10 V38       1916
9911 75 67          MCW   @146@,X3                                1   7  0879  M V25 099       1916
9912 75 68          MCW   @L@,140                                 1   7  0886  M V26 140       1916
9913 75 69    RESET CS    139                                     1   4  0893  / 139           1916
9914 75 70          FORMS                                         1                      MACRO
9915                BCV   *&5                                     1   5  0897  B 906 @         GEN   1916
9916                B     *&3                                     1   4  0902  B 908           GEN   1916
9917                CC    1                                       1   2  0906  F 1             GEN   1916
9918 75 71          MCW   CON40,171                              1   7  0908  M V21 171       1917
9919 75 72          SW    140                                     1   4  0915  , 140           1917
9920 75 73          CS    332                                     1   4  0919  / 332           1917
9921 75 74          CS                                            1   1  0923  /               1917
9922 75 75          SW    101                                     1   4  0924  , 101           1917
9923 75 76          MCW   @001@,X2                               1   7  0928  M V29 094       1917
9924 75 77          MCW   @1@,FLIP#1                              1   7  0935  M V30 V31       1917
9925 75 78          MCW   BOX1#7,153                              1   7  0942  M V38 153       1918
9926 75 79          BW    SKIP2,SKPSW                             1   8  0949  V S91 V22 1     1918
9927 75 80    MOVE  MN    0&X1,100&X2                             1   7  0957  D 0|0 1!0       1918
9928 75 81          MZ    0&X1,100&X2                             1   7  0964  Y 0|0 1!0       1918
9929 75 82    CPAR  C     LAST,X1                                 1   7  0971  C 194 089       1918
9930 75 83          BE    TERM                                    1   5  0978  B S04 S         1919
9931 75 84          SBR   X1,1&X1                                1   7  0983  H 089 0|1       1919
9932 75 85          SBR   X2,1&X2                                1   7  0990  H 094 0!1       1919
9933 75 86          BCE   SKIP,0&X1,]        11-5-8               1   8  0997  B S83 0|0 ]     1919
9934 75 87          BW    CDFUL,0&X1                              1   8  1005  V S15 0|0 1     1919
9935 75 88    TBKFF C     @040@,X2                                1   7  1013  C V41 094       1920
9936 75 89          BL    MOVE                                    1   5  1020  B 957 T         1920
9937 75 90          C     @160@,X3                                1   7  1025  C V44 099       1920
9938 75 91          BL    LOZNG                                   1   5  1032  B /75 T         1920
9939 75 92          MCW   @040@,167                               1   7  1037  M V41 167       1920
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 SEQ PG LIN  LABEL  OP    OPERANDS                                SFX CT  LOCN  INSTRUCTION TYPE  CARD
9940 75 93          BH    *&8                                       1  5  1044  B |56 U           1920
9941 75 94          MCW   @040@, 164                                1  7  1049  M V41 164         1921
9942 75 95          CW    140                                       1  4  1056  ) 140             1921
9943 75 96   SW     SW    000                                       1  4  1060  , 000             1921
9944 75 97          SBR   X2                                        1  4  1064  H 094             1921
9945 75 98          A     -990,X2&1                                 1  7  1068  A V47 095         1921
9946 75 99          MCW   239,139                                   1  7  1075  M 239 139         1921
9947 76 00   SBR    SBR   X1,000                                    1  7  1082  H 089 000         1922
9948 76 01   COMMA  MCW   CON40-11,BOX1                            1  7  1089  M V10 V38         1922
9949 76 02          MCW   @146@,X3                                  1  7  1096  M V25 099         1922
9950 76 03   WP     A     @1@,CDNO                                  1  7  1103  A V30 175         1922
9951 76 04          MN    0&X2                                      1  4  1110  D 0!0             1922
9952 76 05          SBR   143                                       1  4  1114  H 143             1922
9953 76 06          C     143,@000@                                 1  7  1118  C 143 V50         1923
9954 76 07          BE    END1                                V3M4  1  5  1125  B T48 S           1923
9955 76 08          MN    0&X1                                      1  4  1130  D 0|0             1923
9956 76 09          SBR   146                                       1  4  1134  H 146             1923
9957 76 10          LCA   180,280                                   1  7  1138  L 180 280         1923
9958 76 11          LCA                                             1  1  1145  L                 1923
9959 76 12          LCA                                             1  1  1146  L                 1923
9960 76 13          BSS   SWLWP,B                                   1  5  1147  B /56 B           1924
9961 76 14   WPB    P     RESET                                     1  4  1152  4 893             1924
9962 76 15   SWLWP  SW    LWPB&1                                    1  4  1156  , /72             1924
9963 76 16          MCW   WPB&3,LWPB&3                              1  7  1160  M /55 /74         1924
9964 76 17          CW    LWPB&1                                    1  4  1167  ) /72             1924
9965 76 18   LWPB   WP    RESET                                     1  4  1171  6 893             1924
9966 76 19   LOZNG  MCW   @)@,BOX1-6                               1  7  1175  M V51 V32         1924
9967 76 20          MCW   X1,BOX1                                   1  7  1182  M 089 V38         1925
9968 76 21          MCW   X1                                        1  4  1189  M 089             1925
9969 76 22          MCW   @153@,X3                                  1  7  1193  M V54 099         1925
9970 76 23          B     WP                                        1  4  1200  B /03             1925
9971 76 24   TERM   SBR   WPB&3,END1                               1  7  1204  H /55 T48         1925
9972 76 25          B     WP                                        1  4  1211  B /03             1925
9973 76 26   CDFUL  MCW   X1,SBR&6                                 1  7  1215  M 089 |88         1926
9974 76 27          SBR   SW&3,100&X2                               1  7  1222  H |63 1!0         1926
9975 76 28          C     @040@,X2                                  1  7  1229  C V41 094         1926
9976 76 29          BE    COMMA                                     1  5  1236  B |89 S           1926
9977 76 30          C     @167@,X3                                  1  7  1241  C V57 099         1926
9978 76 31          BE    COMMA                                     1  5  1248  B |89 S           1926
9979 76 32          SBR   X3,3&X3                                  1  7  1253  H 099 0?3          1927
9980 76 33          ZS    FLIP                                      1  4  1260  ! V31             1927
9981 76 34          BM    PLUS1,FLIP                                1  8  1264  V T37 V31 K       1927
9982 76 25   MCW    MCW   X1,0&X3                                  1  7  1272  M 089 0?0         1927
9983 76 36          B     MOVE                                      1  4  1279  B 957             1927
9984 76 37   SKIP   SW    SKPSW                                     1  4  1283  , V22             1927
9985 76 38          B     COMMA                                     1  4  1287  B |89             1927
9986 76 39   SKIP2  CW    SKPSW                                     1  4  1291  ) V22             1928
9987 76 40          MCM   0&X1                                      1  4  1295  P 0|0             1928
9988 76 41          SBR   X1                                        1  4  1299  H 089             1928
9989 76 42          BW    MOVE,0&X1                                 1  8  1303  V 957 0|0 1       1928
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 SEQ PG LIN  LABEL   OP    OPERANDS                                        SFX CT  LOCN  INSTRUCTION TYPE  CARD
9990 76 43           MCW   X1,153                                           1  7  1311  M 089 153         1928
9991 76 44           MCW   X1                                              1  4  1318  M 089            1928
9992 76 45           MCW   @)@                                             1  4  1322  M V51            1928
9993 76 46           MCW   @153@,X3                                        1  7  1326  M V54 099        1929
9994 76 47           B     MOVE                                            1  4  1333  B 957            1929
9995 76 48   PLUS1   SBR   X3,1&X3                                         1  7  1337  H 099 0?1        1929
9996 76 49           B     MCW                                             1  4  1344  B S72            1929
9997 76 50   END1    SBR   X1,1697     FORMAT                             1  7  1348  H 089 W97        1929
9998 76 51           BCE   END2,PARAMA&10,X                                1  8  1355  B U26 696 X      1929
9999 76 52           BCE   LIO,PARAMA&10,L                                 1  8  1363  B U04 696 L      1930
|    76 53           BCE   AFORM,PARAMA&10,A                               1  8  1371  B U15 696 A      1930
|  1 76 54   NEXT1   SBR   CPAR&3,HIFMT                                    1  7  1379  H 974 V03        1930
|  2 76 55           SBR   WP&25,END2                                  V3M4 1  7  1386  H /28 U26        1930
|  3 76 56           SBR   TERM&6,END2                                    1  7  1393  H S10 U26        1930
|  4 76 57           B     REST                                            1  4  1400  B 865            1931
|  5 76 58   LIO     SBR   HIFMT,2016                                      1  7  1404  H V03 !16        1931
|  6 76 59           B     NEXT1                                           1  4  1411  B T79            1931
|  7 76 60   AFORM   SBR   HIFMT,4617                                      1  7  1415  H V03 61X        1931
|  8 76 61           B     NEXT1                                           1  4  1422  B T79            1931
|  9 76 62   END2    CS    171                                             1  4  1426  / 171            1931
| 10 76 63           MCW   @080@,146                                       1  7  1430  M V60 146        1931
| 11 76 64           MCW   GOGOGO                                          1  4  1437  M 183            1932
| 12 76 65           LCA   @/@                                             1  4  1441  L V61            1932
| 13 76 66           A     @1@,CDNO                                        1  7  1445  A V30 175        1932
| 14 76 67           LCA   180,280                                         1  7  1452  L 180 280        1932
| 15 76 68           LCA                                                   1  1  1459  L                1932
| 16 76 69           CS                                                    1  1  1460  /                1932
| 17 76 70           BSS   WPCS,B                                          1  5  1461  B U97 B          1932
| 18 76 71           P                                                     1  1  1466  4                1933
| 19 76 72   CS180   CS    180                                             1  4  1467  / 180            1933
| 20 76 73           P                                                     1  1  1471  4                1933
| 21 76 74           SS    8                                               1  2  1472  K 8              1933
| 22 76 75   GARY    FENDX C,,,,,,SYS2,GAUX ONE                            1                    MACRO
| 23         GARY    BSS   333,C                                           1  5  1474  B 333 C     GEN   1933
| 24                 SBR   TCLEAR,SYS2                                     1  7  1479  H 710 V73   GEN   1933
| 25                 LCA   @GAUX ONE@,110                                  1  7  1486  L V69 110   GEN   1933
| 26                 B     MONTER                                          1  4  1493  B 700       GEN   1934
| 27 76 76   WPCS    WP    CS180                                           1  4  1497  6 U67            1934
| 28 76 77   HIFMT   DSA   4280     CHANGE IF ARRAYS DONOT ORIGIN AT 4280  1  3  1503  28|             1934
| 29 76 78   CON40   DCW   @,040040,04004010040@                          1 18  1521                    1934
| 30 76 79   SKPSW   DC    #1                                              1  1  1522                    1934
| 31 76 80           LTORG *                                               1           1523
                     DCW   @146@                                           1  3  1525            LIT   1934
                     DCW   @L@                                             1  1  1526            LIT   1934
                     DCW   @001@                                           1  3  1529            LIT   1934
                     DCW   @1@                                             1  1  1530            LIT   1935
             FLIP 1  DCW   #01                                             1  1  1531            AREA  1935
             BOX1 1  DCW   #07                                             1  7  1538            AREA  1935
                     DCW   @040@                                           1  3  1541            LIT   1935
                     DCW   @160@                                           1  3  1544            LIT   1935
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SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
				DCW	-990	1	3	1547		LIT	1935
				DCW	@000@	1	3	1550		LIT	1935
				DCW	@)@	1	1	1551		LIT	1936
				DCW	@153@	1	3	1554		LIT	1936
				DCW	@167@	1	3	1557		LIT	1936
				DCW	@080@	1	3	1560		LIT	1936
				DCW	@/@	1	1	1561		LIT	1936
				DCW	@GAUX ONE@	1	8	1569		LIT	1936
32	76	81		DCW	@I99@	1	3	1572			1936
33	76	82	SYS2	DCW	@}@ SYSTEM GROUP MARK	1	1	1573		GMARK	1937
34	76	83	CDNO	EQU	175	1		0175			
35	76	84		XFR	BEGIN	1			B 838		1938

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SEQ PG LIN  LABEL  OP    OPERANDS                                SFX CT  LOCN  INSTRUCTION TYPE  CARD
 36 76 85          JOB   1401 FORTRAN  GEAUX PHASE ONE           1
 37 76 86          FBEGN GEAUX 1,X1,R,,,,,6                      1                      MACRO
 38                SFX   6                                       6                      GEN
 39          110   DCW   @GEAUX 1@                              6   7  0110            GEN   1941
 40          X1    EQU   089                                     6      0089            GEN
 41          089   DCW   000                                     6   3  0089            GEN   1942
 42          091   DC    00                                      6   2  0091            GEN   1942
 43 76 87          ORG   XBEGIN                                  6          0838
 44 76 88  START   LCA   BLNK4#4,84                INITIALIZE SENSE 6   7  0838  L |78 084       1943
 45 76 89          SW    84                          LIGHTS       6   4  0845  , 084           1943
 46 76 90          SW                                            6   1  0849  ,               1943
 47 76 91          SW                                            6   1  0850  ,               1943
 48 76 92          MESSG @END OF COMPILATION@,18,1               6                      MACRO
 49                CC    1                                       6   2  0851  F 1             GEN   1943
 50                CS    332                                     6   4  0853  / 332           GEN   1943
 51                CS                                            6   1  0857  /               GEN   1943
 52                MCW   @END OF COMPILATION@,18&200             6   7  0858  M |96 218       GEN   1944
 53                W                                             6   1  0865  2               GEN   1944
 54 76 93          MCW   GOGOGO,X1                              6   7  0866  M 183 089       1944
 55 76 94          BW    BAD,FAILSW                              6   8  0873  V |56 184 1     1944
 56 76 95          MESSG @PRESS START TO GO@,17,J                6                      MACRO
 57                CC    J                                       6   2  0881  F J             GEN   1944
 58                CS    332                                     6   4  0883  / 332           GEN   1944
 59                CS                                            6   1  0887  /               GEN   1944
 60                MCW   @PRESS START TO GO@,17&200              6   7  0888  M /13 217       GEN   1945
 61                W                                             6   1  0895  2               GEN   1945
 62 76 96  OUT     SW    SYS2                                    6   4  0896  , /44           1945
 63 76 97          LCA   SYS2,693                                6   7  0900  L /44 693       1945
 64 76 98          BCE   CDSYS,MONTOR,1                          6   8  0907  B 963 769 1     1945
 65 76 99          BW    SKPXL,XLINKW                            6   8  0915  V 988 185 1     1945
 66 77 00          SBR   TPERX&15,RTPXL                          6   7  0923  H 962 930       1946
 67 77 01  RTPXL   RTW   1,333                                   6   8  0930  L %U1 333 R     1946
 68 77 02          BER   TPERX                                   6   5  0938  B 947 L         1946
 69 77 03          B     OUT33                                   6   4  0943  B |20           1946
 70 77 04  TPERX   BSP   1                                       6   5  0947  U %U1 B         1946
 71 77 05          H     4444,4444                               6   7  0952  . 44U 44U       1946
 72 77 06          B     SKPXL                                   6   4  0959  B 988           1947
 73 77 07  CDSYS   BW    SKPXC,XLINKW                            6   8  0963  V 975 185 1     1947
 74 77 08          R     040                                     6   4  0971  1 040           1947
 75 77 09  SKPXC   R                                             6   1  0975  1               1947
 76 77 10          BCE   OUT2,68,B         IF B, BRANCH TO READ ARITH 6   8  0976  B |01 068 B     1947
 77 77 11          B     SKPXC                                   6   4  0984  B 975           1947
 78 77 12  SKPXL   RTW   1,SYS2                                  6   8  0988  L %U1 /44 R     1947
 79 77 13          BER   TPERX                                   6   5  0996  B 947 L         1948
 80 77 14  OUT2    BSS   333,C                                   6   5  1001  B 333 C         1948
 81 77 15          LCA   @N@,381                                6   7  1006  L /14 381       1948
 82 77 16          LCA   @.@,564                                6   7  1013  L /15 564       1948
 83 77 17  OUT33   CW    680               RETURN FROM LOADING XLINK 6   4  1020  ) 680           1948
 84 77 18          SBR   TCLEAR,SYS2                           6   7  1024  H 710 /44       1948
 85 77 19          SBR   INITAP&6,201                          6   7  1031  H 786 201       1949
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SEQ PG LIN  LABEL  OP    OPERANDS                                          SFX CT  LOCN  INSTRUCTION TYPE  CARD

 86 77 20          SBR   INITXT&3,201                                       6   7  1038  H 796 201         1949
 87 77 21          SBR   BCLEAR,XBEGIN                                      6   7  1045  H 833 838         1949
 88 77 22          B     MONTER                                             6   4  1052  B 700             1949
 89 77 23   BAD    MESSG @CORRECT ERRORS AND RECOMPILE@,28,J                6                         MACRO
 90         BAD    CC    J                                                  6   2  1056  F J         GEN   1949
 91                CS    332                                                6   4  1058  / 332       GEN   1949
 92                CS                                                       6   1  1062  /           GEN   1949
 93                MCW   @CORRECT ERRORS AND RECOMPILE@,28&200              6   7  1063  M /43 228   GEN   1950
 94                W                                                        6   1  1070  2           GEN   1950
 95 77 24          B     OUT                                                6   4  1071  B 896             1950
 96 77 25          LTORG *                                                  6             1075
            BLNK46 DCW   #04                                                6   4  1078              AREA  1950
                   DCW   @END OF COMPILATION@                               6  18  1096              LIT   1950
                   DCW   @PRESS START TO GO@                                6  17  1113              LIT   1951
                   DCW   @N@                                                6   1  1114              LIT   1951
                   DCW   @.@                                                6   1  1115              LIT   1951
                   DCW   @CORRECT ERRORS AND RECOMPILE@                     6  28  1143              LIT   1952
 97 77 26   SYS2   DCW   @}@                          SYSTEM GROUP MARK     6   1  1144              GMARK 1952
 98 77 27          XFR   START                                              6             B 838             1953
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SEQ PG LIN  LABEL  OP    OPERANDS                                SFX CT  LOCN  INSTRUCTION TYPE  CARD
 99 77 28          JOB   1401 FORTRAN FIXED XLINK ROUTINE        6
100 77 29          SFX   #                  AS IN SNAPSHOTS      #
101 77 30          ORG   333                                     #          0333
102 77 31          H     333                                     #   4  0333  . 333            1956
103 77 32  START   MCW   86,XL2            X2 FOLLOWS B700       #   7  0337  M 086 094         1956
104 77 33          CS    80                                      #   4  0344  / 080            1956
105 77 34          BCE   ARRAY,0&X2,$                           #   8  0348  B 585 0!0 $       1956
106 77 35  CLEAR   CS    000                                     #   4  0356  / 000            1956
107 77 36          SBR   ADR3                                    #   4  0360  H 359            1956
108 77 37          C     ADR3,@699@                              #   7  0364  C 359 645         1956
109 77 38          BU    CLEAR                                   #   5  0371  B 356 /          1957
110 77 39          SW    ACCHI-5&X3                              #   4  0376  , 2G4            1957
111 77 40          MZ    ACCHI&X3,FIELD                          #   7  0380  Y 2G9 642         1957
112 77 41          C     FIELD,ACCHI&X3                          #   7  0387  C 642 2G9         1957
113 77 42          BE    CARDS                                   #   5  0394  B 603 S          1957
114 77 43          BM    GETM,ACCHI&X3                           #   8  0399  V 620 2G9 K       1957
115 77 44          MZ    ZERO,ACCHI&X3                           #   7  0407  Y 637 2G9         1958
116 77 45          C     699,ACCHI&X3                            #   7  0414  C 699 2G9         1958
117 77 46          BE    GETM                                    #   5  0421  B 620 S          1958
118 77 47          SW    22                                      #   4  0426  , 022            1958
119 77 48          MCW   GM,22                                   #   7  0430  M 680 022         1958
120 77 49  SERCH   RT    1,1                                     #   8  0437  M %U1 001 R       1958
121 77 50          BEF   OUT                                     #   5  0445  B 478 K          1959
122 77 51          C     10,@LIB@                                #   7  0450  C 010 648         1959
123 77 52          BU    SERCH                                   #   5  0457  B 437 /          1959
124 77 53          C     17,ACCHI&X3                             #   7  0462  C 017 2G9         1959
125 77 54          BE    T1                                      #   5  0469  B 498 S          1959
126 77 55          B     SERCH                                   #   4  0474  B 437            1959
127 77 56  OUT     NOP   CARDS                                   #   4  0478  N 603            1959
128 77 57          MCW   TPERM,OUT                         V3M4  #   7  0482  M 581 478         1960
129 77 58          RWD   1                                       #   5  0489  U %U1 R          1960
130 77 59          B     SERCH                                   #   4  0494  B 437            1960
131 77 60  T1      LCA   ZEROS,101                              #   7  0498  L 641 101         1960
132 77 61          LCA   ZEROS                                   #   4  0505  L 641            1960
133 77 62          LCA   ZEROS                                   #   4  0509  L 641            1960
134 77 63          RTW   1,333                                   #   8  0513  L %U1 333 R       1960
135 77 64          BER   ERR                                     #   5  0521  B 557 L          1961
136 77 65          MCW   ZERO,CTRR                               #   7  0526  M 637 641         1961
137 77 66          SBR   TPERM-1,T2                            #   7  0533  H 580 540         1961
138 77 67  T2      RTW   1,700                                   #   8  0540  L %U1 700 R       1961
139 77 68          BER   ERR                                     #   5  0548  B 557 L          1961
140 77 69  TBOOT   B     000                 FROM LIBED          #   4  0553  B 000            1961
141 77 70  ERR     A     ONE,CTRR                                #   7  0557  A 679 641         1962
142 77 71          BCE   TPERM,CTRR,9                           #   8  0564  B 581 641 9       1962
143 77 72          BSP   1                                       #   5  0572  U %U1 B          1962
144 77 73          B     T1                                      #   4  0577  B 498            1962
145 77 74  TPERM   H     TPERM                                   #   4  0581  . 581            1962
146 77 75  ARRAY   MCW   3&X2,ADR3                              #   7  0585  M 0!3 359         1962
147 77 76          MZ    ZERO,ADR3-1                             #   7  0592  Y 637 358         1963
148 77 77          B     CLEAR                                   #   4  0599  B 356            1963
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 SEQ PG LIN  LABEL  OP    OPERANDS                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD
|149 77 78   CARDS  SW    1                                          #   4  0603  , 001             1963
|150 77 79          R                                               #   1  0607  1                 1963
|151 77 80          BCE   1,1,,                                     #   8  0608  B 001 001 ,       1963
|152 77 81          B     CARDS                                     #   4  0616  B 603             1963
|153 77 82   GETM   RWD   1                                         #   5  0620  U %U1 R           1963
|154 77 83          RTW   1,1                                       #   8  0625  L %U1 001 R       1964
|155 77 84          B     1         EXECUTE MONITOR PROGRAM         #   4  0633  B 001             1964
|156 77 85   ADR3   EQU   CLEAR&3                                   #      0359
|157 77 86   FIELD  DCW   @0000000@                                 #   6  0642                    1964
|158 77 87   ZEROS  EQU   FIELD-1                                   #      0641
|159 77 88   ZERO   EQU   ZEROS-4                                   #      0637
|160 77 89   CTRR   EQU   ZEROS                                     #      0641
|161 77 90   ACCHI  EQU   279                                       #      0279
|162 77 91          LTORG *                                         #           0643
                    DCW   @699@                                     #   3  0645             LIT   1964
                    DCW   @LIB@                                     #   3  0648             LIT   1964
|163 77 92          ORG   679                                       #           0679
|164 77 93   ONE    DCW   @1@                                       #   1  0679                   1965
|165 77 94   GM     DCW   @}@                 GROUP MARK IN 680     #   1  0680             GMARK 1965
|166 77 95          XFR   OUT336                                    #           B |20             1966
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SEQ PG LIN  LABEL  OP    OPERANDS                                          SFX CT  LOCN  INSTRUCTION TYPE  CARD
167 77 96          JOB   1401 FORTRAN GEAUX PHASE TWO                     #
168 77 97          SFX   6                                                 6
169 77 98   110    DCW   @GEAUX TWO@                                       6   9  0110                    1969
170 77 99          ORG   201                                               6          0201                    
171 78 00   YIPEE  BCE   MONTOR,MONTOR,1                                   6   8  0201  B 769 769 1       1970
172 78 01   RTP    RTW   1,MONTER                                          6   8  0209  L %U1 700 R       1970
173 78 02          BER   TPERR                                             6   5  0217  B 284 L           1970
174 78 03          RWD   1                                                 6   5  0222  U %U1 R           1970
175 78 04   INIT   MCW   SUBSCR,ARSUB                                      6   7  0227  M 191 S09         1970
176 78 05          CW    1696                                              6   4  0234  ) W96             1970
177 78 06          MCW   GOTOFN,FUNC                                       6   7  0238  M 188 T30         1971
178 78 07          MCW   PARAMA&4,FIXSZ                                    6   7  0245  M 690 V36         1971
179 78 08          MCW   PARAMA&6,FLTSZ                                    6   7  0252  M 692 837         1971
180 78 09          CC    1                                                 6   2  0259  F 1               1971
181 78 10          BW    HALT,FAILSW                                       6   8  0261  V 280 184 1       1971
182 78 11          MCW   GOGOGO,X1                                         6   7  0269  M 183 089         1971
183 78 12          H     0&X1                                              6   4  0276  . 0|0             1972
184 78 13   HALT   H     *-3                                               6   4  0280  . 280             1972
185 78 14   TPERR  BSP   1                                                 6   5  0284  U %U1 B           1972
186 78 15          H     3333,3333                                         6   7  0289  . C33 C33         1972
187 78 16          B     RTP                                               6   4  0296  B 209             1972
188 78 17          DCW   0                                                 6   1  0300                    1972
189 78 18   FUNC   EQU   1330           CHANGE ON REASM OF OB ARITH OUT1-1  6      1330
190 78 19   FIXSZ  EQU   1536           CHANGE ON REASM OF OB ARITH XSIZE&6 6      1536
191 78 20   FLTSZ  EQU   837            CHANGE ON REASM OF OB ARITH FSIZE&6 6      0837
192 78 21   ARSUB  EQU   1209           CHANGE ON REASM OF OB ARITH STSUB&3 6      1209
193 78 22          LTORG *                                                 6          0301
194 78 23          DCW   @}@                          SYSTEM GROUP MARK    6   1  0301          GMARK 1972
195 78 24          XFR   YIPEE                                             6          B 201             1973
196 78 25   *
197 78 26   *         PHASE 63 GOES HERE
198 78 27   *
199 78 28          END   INIT                         THE DEED IS DONE     6          / 227 080
```

SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS
)0J005	1902	)0J013	1180	)0J050	1412	)0J054	1815	)0J065	913	)0J070	910	)0J091	895
)0J093	871	)0J094	967	)0J099	1817	)0J114	1094	)0J131	865	)0J163	961	)0K005	1921
)0K013	1199	)0K028	1207	)0K029	1395	)0K039	1539	)0K043	1608	)0K050	1431	)0K053	1702
)0K054	1834	)0K070	929	)0K073	1518	)0K076	1855	)0K081	1019	)0K093	890	)0K094	986
)0K099	1836	)0K212	968	)0L005	2842	)0L013	1375	)0L028	1719	)0L029	1750	)0L039	1928
)0L043	2004	)0L050	2166	)0L053	2252	)0L054	2256	)0L065	933	)0L070	1052	)0L073	2395
)0L076	2430	)0L081	1122	)0L091	915	)0L093	2050	)0L094	2061	)0L099	2202	)0L114	1114
)0L131	885	)0L163	981	)0L212	1609	)0M005	2840	)0M013	1373	)0M028	1257	)0M029	1429
)0M039	1573	)0M043	1642	)0M050	2164	)0M053	1736	)0M054	2254	)0M070	1050	)0M073	1552
)0M076	1889	)0M081	1053	)0M093	2048	)0M094	2059	)0M099	2200	)0M212	1002	)0P005	1940
)0P013	1218	)0P050	1450	)0P054	1853	)0P070	948	)0P093	909	)0P094	1005	)0P099	1855
A K	2341	A1 G	1126	A2 G	1142	A3 G	1022	ABIT A	1700	ABIT2A	1973	ABOTMX	844
ABSVAL	891	ABSVL<	1872	ACCHI#	279	ACCUM%	1648	ACCUMG	873	ACCUMH	2136	ACCUMI	2762
ACCUMN	1322	ACCUMO	1380	ACCUMP	1357	ACCUMS	2572	ACHCKZ	2268	ACLEAR	707	ACTL 9	1391
ADD I	2048	ADD1 7	2917	ADD1 L	1167	ADD1 Z	1507	ADD3 7	948	ADDINZ	862	ADDR1Z	1527
ADDS R	945	ADDS2R	952	ADDU V	1125	ADJST7	1360	ADJSTH	2084	ADJX3R	1027	ADNL 7	1440
ADONEX	142	ADONEZ	1922	ADR 9	1714	ADR3 #	359	ADRESZ	148	ADRSSJ	2394	ADRSSX	2145
ADTBLL	145	AFORM1	1415	AFORM8	950	AFORMH	2060	AGAINC	1022	AGAINN	1544	AGET2R	445
ALCONI	2335	ALL3 Y	1736	ALL9 9	1616	ALL9 C	1802	ALL9 D	1090	ALL9 Q	1507	ALL919	1619
ALL91Q	1510	ALL92C	1805	ALPH N	1051	ALPHAM	1610	ALTERH	1354	ALTERX	1157	ANYMO.	982
ANYMOG	1309	AOK 3	1170	AOK 4	1020	AOK1 C	1127	AOK2 4	1102	AOK3 4	1317	AOP 7	3088
AREA1Z	880	AREA2Z	2434	ARIT T	1664	ARITH0	1153	ARITH1	1075	ARITH2	1119	ARITHE	1156
ARRAY#	585	ARRAYI	1358	ARSUB6	1209	ARTYP<	1085	ASIDEZ	844	ASSGNS	1060	ATANFN	894
ATSGNA	1689	AUNIQB	1217	AVOID%	1431	B A	2511	BACK2M	1299	BACK39	950	BACK5C	1134
BAD 5	1015	BAD 6	1056	BADSTM	1848	BADSWM	1942	BAKUPK	2232	BASE .	1308	BASE J	840
BASE N	840	BASE O	840	BASE P	840	BASE Y	2793	BC1 /	1221	BC2 /	1267	BCE1 7	1317
BCE3 7	2655	BCE5 Y	992	BCEQ T	2035	BCLEAR	833	BEGIN#	934	BEGIN/	884	BEGIN1	838
BEGIN9	838	BEGINC	1010	BEGINE	838	BEGINJ	857	BEGINX	867	BEGINZ	1175	BGIN T	1510
BGMSG0	2631	BIG 7	1302	BIG N	1436	BIGMS8	1300	BLANK.	1419	BLANK3	1617	BLANK5	1797
BLANK9	1711	BLANKD	1099	BLANKE	1503	BLANKF	1701	BLANKH	2096	BLANKI	2787	BLANKK	2504
BLANKP	1404	BLK10<	2475	BLK20Y	2749	BLK4 7	3045	BLK4 Y	2775	BLK6 Y	2872	BLK8 Y	2866
BLKOP7	901	BLNK 9	1673	BLNK Q	1537	BLNK1<	2595	BLNK2I	2788	BLNK33	1619	BLNK3A	2971
BLNK3C	1825	BLNK3F	1792	BLNK46	1078	BLNK5G	1887	BLNK6I	2792	BLNKS0	2814	BLWUPS	1274
BMOD Y	2776	BMP4 Y	1039	BMPT2R	475	BMPUMS	1016	BMPUMY	1135	BMPX17	2032	BMPX1K	1165
BOP 7	3063	BOTH T	1161	BOTM %	1645	BOTM .	1064	BOTM I	1445	BOTM J	2193	BOTM K	2089
BOTM M	958	BOTM N	1367	BOTM O	1611	BOTM2I	1453	BOTM2K	2100	BOTOMZ	1753	BOX 4	1472
BOX <	2502	BOX H	2141	BOX I	2655	BOX J	2301	BOX K	2347	BOX M	1938	BOX O	2107
BOX Q	1525	BOX1 1	1538	BOX2 <	2518	BOX2 I	2664	BOX2 Q	94	BPDWNG	1329	BRANCH	1631
BRELCR	934	BRNCH.	1350	BSAUCE	148	BSFLTY	2425	BSP E	1434	BSTARG	1446	BSUB Y	2578
BTESTD	857	BTM R	1638	BTMCGN	1428	BTMNLN	1313	BUMP D	926	BUMP H	1209	BUMP J	1186
BUMP K	2547	BUMP N	1036	BUMP O	1479	BUMP X	1590	BUMP1K	1055	BUMPRK	1912	BX2B2T	1398
BYP E	882	BYP F	1533	BYP4 Z	1234	CANU 7	1496	CARDS#	603	CASE2Z	1818	CCLEAR	830
CDDMP/	997	CDFUL1	1215	CDINT<	2001	CDNO 1	175	CDSYS6	963	CERR C	1688	CGBTML	1282
CGOTOE	1311	CGOTON	1367	CHAINJ	1201	CHAINL	1001	CHAINN	1533	CHAINO	1494	CHAMPG	857
CHAR A	2388	CHEAP4	1412	CHGX3R	1051	CHKN T	1977	CHKNDT	1044	CHNG U	994	CHNGEZ	1680
CHUMPG	1653	CINCHG	1672	CK A	742	CK4B 2	1131	CKBITT	872	CKBOPQ	1061	CKCMTB	914
CKCOM4	997	CKCOMX	1248	CKDL27	924	CKDONE	1045	CKEX R	1036	CKEXTL	975	CKFIX7	1807
CKFIXJ	1940	CKFIXY	1340	CKFMTD	904	CKFMTT	1315	CKFUN<	1641	CKFUNB	1349	CKFX Q	1023
CKGM 5	969	CKGM <	1268	CKGM F	1307	CKIF K	2183	CKLFPX	1240	CKLHCA	1973	CKLSTX	1798
CKND 7	1527	CKNG <	1598	CKNG X	1092	CKNODF	1545	CKNUMU	1008	CKOP 0	1539	CKPRNG	1146
CKREFJ	857	CKRT 7	1070	CKSIMG	1274	CKSWFY	1316	CKSWXY	1328	CKSYN%	1145	CKTALK	1498
CKTYPX	1822	CKUSR0	2003	CKUSRR	508	CKWMKX	1260	CKX3 R	1039	CKXF Y	936	CKXP <	1431
CKXPNI	2299	CKZN R	543	CKZRO7	1919	CKZROT	1827	CLEAR#	356	CLEARB	1309	CLEARD	965
CLEERC	1422	CLEERQ	1233	CLOSE<	1339	CLR 9	923	CLR A	1103	CLR T	992	CLR1 0	878
CLR1 N	958	CLR1 O	860	CLR1 P	878	CLR2 0	929	CLR2 N	1011	CLR2 O	978	CLR2 P	1009
CLRFCT	2599	CLRI T	1733	CLSCK<	1392	CLZOK<	1378	CMBCKZ	965	CMNT A	2358	CMP2 7	2863
CMP3 7	1019	CMP4 Z	1248	CMP5 Y	1046	CMPAB#	520	CMPAB7	520	CMPAB8	1113	CMPADS	1089

CMPARA	1409	CMPARD	985	CMPSWG	1177	CNLFTK	1720	CNLS5O	2066	CNLST5	1613	CNT C	1599
CNTNUZ	1270	CNTR 0	2828	CNTRL0	1381	CNTRLK	2381	CNTU C	1157	CNTU E	1346	CNTU2Z	1646
CNVRTZ	896	CODE &	925	CODE *	962	CODE 0	2761	CODE 3	1602	CODE 4	1445	CODE 5	1188
CODE 9	1649	CODE <	2447	CODE B	2449	CODE I	2646	CODE J	2286	CODE K	2353	CODE L	1286
CODE N	1062	CODE O	2096	CODE T	879	CODE U	1230	CODE W	1198	CODE X	841	CODE Y	2686
COMFN1	906	COMFN<	1856	COMMA1	1089	COMMAM	1257	COMMAX	1088	COMP F	1084	COMP G	1006
COMP N	1235	COMP O	1292	COMP P	1267	COMP X	1019	COMPAT	838	COMPLT	1115	COMRTT	1129
COMUT7	1214	CON401	1521	CONLST	194	CONSTB	2465	CONSTI	1851	CONSTU	1204	CONSTZ	1201
COOL M	1750	COPY I	1840	COPY J	1031	COPY O	1343	COSIN<	1864	COUNT%	1694	COUNT.	1408
COUNTA	2503	COUNTH	2049	COUNTI	2708	COUNTK	2423	COUNTL	1292	COUNTN	1677	COUNTX	2058
COUNTZ	841	CPAR 1	971	CPAR W	1021	CPL #	568	CPL 7	568	CPL 8	1188	CR K	1459
CS1 /	1140	CS1801	1467	CS1A /	1319	CS2 /	1210	CS2A /	1390	CS2X /	1169	CS2XA/	1348
CTNMVZ	1615	CTOALZ	1448	CTR #	669	CTR 7	669	CTR 8	1419	CTRR #	641	CTU *	884
CTU 3	1194	CTU1 R	608	CTU1 U	944	CTU1 Y	2321	CTU3 G	1816	CTU3 H	1062	CTU4 G	1661
CTUCDA	2824	CTUL F	1465	CURDL7	2972	CVT3 7	3091	CVTDL7	2758	CVTXT7	2833	CW 7	2720
CW X	1790	CW1 Y	1101	CW2 7	2928	CW5 7	2614	CWPRT7	908	CWX1 Z	1359	CX1 R	482
CX1CNZ	1522	CX2 7	2001	CZONEZ	1014	D2 7	997	DATA E	1478	DBLOP<	2161	DBLSWT	1439
DECR 7	1927	DELT17	974	DELT27	1166	DELTAI	1682	DIFF Z	859	DIFNT%	1090	DIMENF	979
DIMSWF	1700	DIV <	1446	DIV Y	1463	DIV2 <	1470	DIVCK<	1484	DL2 7	3032	DLOOPV	978
DLVALS	2557	DMSN E	1443	DO B	1521	DO E	1338	DO M	1276	DOADR1	924	DOADR2	921
DOADR3	918	DOBC1/	1074	DOCOD7	2217	DOCOD<	943	DOEND%	1899	DOINIT	915	DOIT 3	896
DOIT 4	893	DOIT 5	884	DOLLRX	1737	DOLR V	915	DOLR1J	1995	DOLR2J	2013	DOLST9	1116
DONE C	1366	DONE E	1057	DONE G	1683	DONE J	1747	DOSBSC	909	DOSPC9	1532	DOWM R	623
DRESSG	852	DRESSI	2636	DROP4W	1098	DSA R	1560	DSW F	1710	DUM3 A	2560	DUM5 A	2565
DUMMYA	1166	DUMMYB	979	DUN %	1526	DUN .	1313	DUN 0	2519	DUN J	2147	DUN L	1052
DUN S	1221	DUN X	1168	DUN Z	1437	DUN2 Q	1471	DUN2 X	1137	EASY B	1422	EINPTT	1870
ELSE Y	2485	EMASQX	1963	ENCODE	1173	END B	1337	END C	2900	END R	1056	END Z	2499
END1 1	1348	END2 1	1426	END2 T	1021	ENDCDE	1182	ENDPHZ	1260	ENDSS2	944	ENDSWA	2828
ENDXL2	1265	EOF E	1419	EOFX Q	1475	EOJ 0	2458	EOJ C	1647	EOJ D	949	EOJ H	2008
EOJ Q	1295	EOPHSD	1065	EOSTM<	1310	EOSTMT	1612	EOSTR7	2158	EOSTRY	1421	EOTWOC	2000
EQBX1G	1465	EQSCN<	1107	EQUALI	2254	EQUIVE	1454	EQUIVG	1165	ERCTRG	1994	ERR #	557
ERR 9	1487	ERR G	1505	ERR M	1877	ERR1 %	1397	ERR1 .	1165	ERR1 0	2413	ERR2 %	1442
ERR2 0	2375	ERR3 0	2337	ERR4 0	2299	ERR460	1852	ERR5 0	2261	ERR6 0	2223	ERRMSZ	1092
ERROR%	1480	ERROR.	1223	ERRORE	1092	ERRORT	206	ERRORX	1922	ERRSWG	2144	ERRSWI	2504
ERRTPA	797	ERRWTT	1269	ERSIGT	1258	ERVBLI	2600	EXCHNN	1641	EXCMAX	1100	EXDRPW	1120
EXGTL0	1343	EXGTP0	1599	EXIT %	1621	EXIT 2	1295	EXIT A	1096	EXIT C	1486	EXIT I	2134
EXIT N	1265	EXIT O	1322	EXIT P	1297	EXIT Q	1182	EXIT V	1218	EXIT Z	1553	EXIT1#	1000
EXIT1M	1798	EXIT2M	1606	EXIT3R	983	EXITAQ	1157	EXMVD0	1287	EXMVPN	933	EXPH3X	969
EXPMIX	1693	EXPN Y	1808	EXPNDZ	969	EXRDMN	1044	EXRUA.	1219	EXRUAX	1893	EXRUKX	1901
EXSLDN	960	EXSLDW	1094	EXSLDX	965	EXSNDW	1188	FAIL F	1646	FAILSW	184	FBAD T	2287
FBOX T	1460	FEED I	1693	FEND22	1306	FEND32	1405	FENDX/	956	FENDX2	1185	FENDX7	2937
FENDX<	920	FENDXS	1251	FENDXY	1478	FEWSWI	2598	FIELD#	642	FIGHTG	1269	FIN1SZ	1641
FIND G	980	FIND I	937	FIND M	1137	FIND O	1259	FIND W	889	FIND1J	1723	FIND2J	947
FIND2M	1200	FINI T	1216	FINIST	2054	FINISZ	2396	FIRST7	1663	FIRSTB	2429	FIRSTG	86
FIX 7	2573	FIX1 H	1332	FIXED.	1193	FIXEDA	2831	FIXEDB	2430	FIXEDG	1216	FIXEDH	1365
FIXEDJ	2031	FIXEDK	1931	FIXEDO	1693	FIXFUN	885	FIXITZ	1956	FIXSZ6	1536	FIXT 7	2724
FIXWDQ	930	FIXWDR	930	FIXXPY	2077	FLIP 1	1531	FLIP 4	983	FLIP J	1003	FLIP K	1863
FLIP T	1345	FLOATK	1506	FLT Y	2032	FLTFUN	882	FLTSWG	1828	FLTSZ6	837	FLTWDQ	933
FLTWDR	933	FMAT I	2470	FMTNOT	2429	FNCTRJ	2300	FND V	939	FNDLZI	1571	FNISH0	1761
FNISHW	1124	FNLIZX	1697	FOKAYT	2246	FORCE0	1659	FORK N	1409	FORMAT	2527	FOUNDG	1181
FOUNDJ	997	FOUNDO	1309	FOUNDW	939	FQUITP	1197	FRMATE	1353	FROMXZ	856	FRONTB	2440
FSCAN<	1775	FST1 7	1695	FSTMDY	2719	FSTNUA	1260	FSUB Y	2623	FTBL1<	2442	FTMSGY	1998
FULL J	2211	FULL N	1066	FULL O	1712	FUN 0	1981	FUNBX<	2485	FUNC 6	1330	FUNCSW	195
FUNSTJ	1649	FUNY 0	2117	FXFLTQ	1398	FXMOD0	2175	FXPRMD	1016	FXSW G	1827	FXT Q	1482
GARY 1	1474	GARY Q	1513	GARY V	1257	GARY Z	1520	GDLXT7	2870	GENERM	1761	GET F	1066
GET G	988	GET I	2071	GET R	1149	GET2 G	1086	GET2 R	441	GETDL7	2837	GETLF0	1291
GETM #	620	GETSTT	880	GETUMS	935	GETWM7	2890	GETXT2	1098	GETXTR	1184	GM #	680
GM 0	2573	GM A	2529	GM C	1806	GM D	1091	GM F	1691	GM G	839	GM H	2085
GM I	2555	GM J	2493	GM K	2349	GM M	1930	GM N	1725	GM X	1011	GM1 %	1598
GM1 .	1295	GM1 7	2240	GM1 9	1627	GM1 <	2160	GM1 T	1503	GM2 %	1626	GM2 .	1309
GM2 C	1219	GM2 O	1333	GM3 %	1631	GM4 %	1622	GM50AZ	1690	GM50CZ	1628	GM53S#	1696

GMK1 R	680	GMWM R	1696	GMWM Z	2460	GNSTMZ	151	GNTBLZ	1346	GNTMP0	1573	GO X	852		
GOBAK%	1630	GOBAKJ	1298	GOBAKS	1199	GOGOGO	183	GOTEQ<	1131	GOTEQY	1232	GOTFN<	1883		
GOTO E	1306	GOTOFN	188	GOTOP<	1191	GOTSBY	2542	GOTSQY	1009	GOTTA/	896	GOTUM0	1562		
GOTUMS	959	GOTWM7	2906	GRAB10	1180	GRAB1M	1473	GRIEFY	1154	GSTXTT	924	GT1 G	1386		
GTADR9	1473	GTNUM0	1516	GTSUBY	2608	GUTS K	1067	HALT 6	280	HEAD #	651	HEAD 7	651		
HEAD 8	1309	HEADRN	1507	HERE 9	1569	HERE T	1787	HERE Z	1088	HEX1 7	2965	HEX1 <	2543		
HEX1 G	1999	HEX1 I	2711	HEX1 K	2439	HEX1 L	1279	HEX1 M	1941	HEX1 N	1054	HEX1 O	2091		
HEX1 S	2549	HEX1 W	1194	HEX1 X	2056	HEX1 Z	2444	HEX1XX	947	HEX2 0	2758	HEX2 7	3024		
HEX2 <	2537	HEX2 F	1709	HEX2 G	1927	HEX2 J	2327	HEX2 O	2132	HEX2 S	2543	HEX2 X	2053		
HEX2XN	1360	HEX3 %	1637	HEX3 7	3040	HEX3 <	2540	HEX3 G	876	HEX3 K	2366	HEX3 L	1276		
HEX3 M	2031	HEX3 N	1684	HEX3 R	1635	HEX3 T	875	HEX3 X	2085	HEX3 Y	2693	HEX31Y	2771		
HIFMT1	1503	HLD18Y	2718	HLD2 5	1200	HLD20Y	2484	HLD31#	416	HLD317	416	HLD32#	409		
HLD327	409	HLD357	3008	HLD5AC	1363	HLDOP7	2966	HLDXT#	402	HLDXT7	402	HLDZNR	1582		
HLERRT	1409	HLFT 7	1054	HNOT T	1306	HOLD 5	1198	HOLD C	1922	HOLD F	1703	HOLD Z	891		
HOLD1E	1499	HOLD1H	2154	HOLD2Z	2132	HOLD3E	1502	HOLD3G	2003	HOLD3X	2077	HOLD4E	1498		
HOLD5C	1357	HOLD5D	1096	HOLD5I	2811	HOLD5J	2382	HOLD5X	2068	HOLD6C	2005	HOLD8J	2390		
HOLDXE	1514	HOLLRA	1751	HOPE 7	1476	HOPE27	1555	HSW A	1394	HSW2 A	1402	HUH Y	2218		
HUH2 Y	2236	HXCMNR	1573	HYTEST	2575	I %	1618	I .	1302	ID .	1362	IEXITT	1808		
IF 0	1221	IF E	1313	IFEXPM	1362	IFMNSY	2512	IFPLSY	2496	IFSL E	1467	IFSSWE	1327		
IFTYPY	1522	IFZROY	2504	IMVUPZ	1052	INC #	632	INC 7	632	INC 8	1242	INCTOA	1375		
INDIR<	982	INILZ1	2506	INILZ2	2509	INISHG	1724	INISHS	838	INIT 6	227	INIT Q	934		
INIT V	838	INIT Z	1186	INITAP	780	INITL%	838	INITL.	838	INITL0	838	INITLF	839		
INITLG	1034	INITLH	891	INITLI	838	INITLK	838	INITLL	838	INITLM	838	INITLW	838		
INITXT	793	INNERX	1421	INOUTM	1130	INPUTA	2373	INPUTJ	1763	INTNOZ	865	INTSTZ	183		
IOBGNT	2153	IOCW U	1226	IOSW T	1438	IOTYP9	1012	IOTYPT	1402	IOWK T	2309	ISB R	1288		
ISCTU&	884	ISEQUG	1158	ISFMTD	938	ISFSWJ	2310	ISFUN<	1683	ISGM J	945	ISIN G	1673		
ISREDG	1584	ISTRIA	1851	ISTWO7	2683	ISXP <	1513	JUMP A	1425	K5TOK3	929	KARITT	2411		
KEEP2J	1079	KEEPX<	1989	KEOJ T	2415	KERR I	2561	KFSM A	2423	KH T	2388	KILL 0	2447		
KILL 4	1001	KILL <	2450	KILL K	2369	KILL M	981	KLEAR%	1548	KLEFTT	2399	KLINET	2407		
KLOBR%	1259	KLOBR.	1072	KLOBR0	1179	KLOBR3	1252	KLOBR4	1197	KLOBR5	1120	KLOBR9	1349		
KLOBRG	1393	KLOBRI	1468	KLOBRK	2111	KLOBRR	1089	KLOBRT	838	KLOBRU	1117	KP T	2419		
KPROCA	2548	KRITET	2403	KVSTMI	2582	KWM 7	1379	KWM2 7	2139	KWMXT7	1387	KX T	2395		
L2PRMA	1089	LABELM	1003	LARRYA	2557	LAST /	194	LAST 0	2752	LAST 1	194	LAST <	2482		
LAST G	1447	LAST R	1592	LAST Z	850	LD52CR	938	LDCOMI	1783	LDFLTO	1165	LDFMT2	1535		
LDOLRI	1970	LDRNDA	3000	LDSYMZ	1772	LDWM Z	1386	LDWRDZ	1526	LDZERK	1530	LEADRH	1343		
LEFT 7	3063	LENNYB	1059	LFPART	1498	LFPARX	1467	LFTRTK	1962	LGM 9	1323	LGSW H	2095		
LGSW J	2248	LGSW S	2507	LIGHT4	1254	LIGHTB	1458	LIMIOH	2068	LIMITI	1171	LIMITJ	1038		
LIMITO	1350	LIMITQ	1516	LINCT#	658	LINCT7	658	LINCT8	1321	LINK G	1477	LINK H	2139		
LIO 1	1404	LIO 8	925	LIST 9	1641	LIST C	1799	LIST I	2168	LIST X	935	LIST Z	1334		
LITCS/	1045	LK4CMT	1839	LOAD M	1174	LOAD R	572	LOAD Y	1910	LOAD Z	1434	LOAD1I	2280		
LOAD27	1131	LOAD2I	2265	LOADGM	1622	LOC N	1273	LOC O	1330	LOC P	1305	LOD A	754		
LOD E	991	LOD2 I	1767	LODX O	1188	LOGFUN	900	LOGSWR	1564	LOOK I	1216	LOOP #	497		
LOOP %	1004	LOOP .	905	LOOP 0	1303	LOOP 7	497	LOOP 8	1090	LOOP G	929	LOOP I	1255		
LOOP M	1496	LOOP N	1473	LOOP Q	1444	LOOP X	1752	LOOP Z	2009	LOOP1<	1135	LOOP1C	1329		
LOOP1D	849	LOOP2<	1154	LOOP2R	412	LOOP3<	1143	LOOP3H	1010	LOOPAH	1647	LOOPYX	1389		
LOPP Z	2036	LOWERG	1416	LOWK 3	1500	LOZNG1	1175	LOZSCF	1441	LSADDY	1703	LSTIOT	1457		
LWPB 1	1171	M A	2537	M1 %	1609	M2 %	1612	M2PRTA	1233	M3 %	1615	M3IS1%	1386		
M3IS1X	1619	MACFLS	163	MAD Z	1319	MAIN <	998	MAIN G	1359	MAIN X	1020	MANXBZ	1420		
MARK A	2534	MARK K	1486	MARTYB	1318	MASK %	1634	MASK .	1312	MASK 2	1463	MASK14	1441		
MASK15	1184	MASK19	1626	MASK24	1449	MASK34	1457	MASK44	1461	MATRX0	2643	MATRXS	1318		
MAX .	1366	MAX J	844	MAX N	844	MAX O	844	MAX P	844	MAXDL7	3021	MAYBE7	1391		
MAYBEK	1091	MAYFNB	1369	MCFL5O	2087	MCM2 I	1263	MCW 1	1272	MCW18/	859	MCWX2R	1317		
MDIFY%	1120	MDIFYI	960	MESBX<	2642	MESCM<	2072	MESSG/	935	MESSG2	1506	MESUR7	1410		
MESUR<	2053	MESXT<	2079	MIDSW7	3018	MINUSY	2508	MIXUPJ	1103	MKFIXY	1364	MKFLTY	1294		
MKFMTT	1391	MKND T	1835	MKPLSY	1642	MKTSTM	1559	MLPLYZ	1295	MN F	1695	MNTERB	1495		
MOD J	2314	MOD N	1058	MOD O	2120	MODCHY	1085	MODSWY	2690	MONTER	700	MONTOR	769		
MOR T	1062	MOV <	1926	MOVE 1	957	MOVE A	1174	MOVE C	1293	MOVE H	2033	MPLR H	1133		
MRKRSI	2501	MSERRA	1077	MSG G	1951	MSG1 3	1315	MSG2 3	1333	MTPX1R	1508	MULT Z	2221		
MULTYF	1356	MULTYN	1446	MUVE C	1453	MV2GMT	2260	MV2N T	1904	MV2XTT	1994	MVAD R	468		
MVADRT	2352	MVAGNZ	2056	MVBALY	1857	MVD Z	1406	MVDIGT	1924	MVDWN0	1257	MVDWNT	2081		
MVDWNY	894	MVDWNZ	2093	MVHED#	459	MVHED7	459	MVHED8	1052	MVIPTA	1211	MVLS Y	1662		

MVMSKU	1221	MVNIN2	1078	MVNINR	1164	MVNSS2	924	MVNXL2	1245	MVRPTT	1672	MVSW U	1245
MVUP 0	953	MVUP N	853	MVUP2T	1086	MXTMPS	2578	MYB2 A	1817	N A	2528	NAME F	1019
NAME G	969	NBRSW2	1586	NCTR T	2438	NDFNDB	1385	NDOLRV	1011	NDOLRX	1768	NDRITH	3153
NDRPLT	2231	NDTABL	140	NEG 0	1948	NEG2 7	1644	NEG3 7	1269	NEGAT7	1239	NEGAT<	1626
NEGTFN	888	NEST G	1209	NEW A	1546	NEW J	1302	NEW N	1606	NEW O	1626	NEW X	989
NEWCDG	1435	NEXT 0	2766	NEXT <	2465	NEXT F	1344	NEXT N	1065	NEXT Y	974	NEXT Z	1183
NEXT11	1379	NEXT1X	963	NINE A	773	NISH 0	1528	NIX H	1598	NMBR B	2425	NOAD 3	1069
NOAPX%	1216	NOARIY	1499	NOBR Y	1748	NOCOLH	1147	NOCVTY	1382	NODICR	1335	NODUNH	1972
NOFMT9	1439	NOFUN<	1818	NOGUD8	1158	NOINTU	1106	NOIO 8	900	NOIO H	2076	NOLSTX	918
NOMO .	1053	NOMO 0	2745	NOMO <	2453	NOMO G	1247	NOMO I	2243	NOMO N	852	NOMO O	688
NOMO P	1342	NOMO S	2546	NOMO1I	2235	NONUMN	1569	NONUMU	1159	NOP C	1150	NOP3 R	1070
NOP4 R	433	NOPADK	2345	NOPR J	983	NOPRMA	2324	NOPSWR	536	NOPTM7	1887	NOPUN2	1166
NORAYH	1984	NORM M	1637	NORMLI	2029	NORMLK	1379	NORMLN	1274	NORT 7	1101	NOSUBT	1772
NOSWTT	2373	NOTHRN	1243	NOTING	1800	NOTINI	1381	NOTYTN	1294	NOWOPY	1254	NOXTR4	1239
NOZO M	1393	NUERR3	1131	NUFRMZ	1882	NULIN#	433	NULIN8	1025	NULINE	433	NUM 0	2820
NUM N	1316	NUM O	1374	NUM P	1351	NUMBER	2533	NUPOSZ	2294	NUSTM7	871	NUSTM<	883
NUSTMC	1022	NUSTME	852	NUSTMY	866	NUTYP3	842	NUTYPC	1063	NXBTM0	2755	NXBTM5	1608
NXBTMJ	83	NXBTMK	83	NXBTMM	83	NXBTMN	83	NXBTMO	83	NXBTMP	83	NXBTMQ	83
NXBTMR	83	NXBTMT	83	NXBTMX	83	NXBTMZ	83	NXGUYS	1210	NXGUYX	1977	NXTOPH	2052
NXTOPJ	86	NXTOPQ	86	NXTOPS	86	OBLIST	912	ODDBLK	1822	ODDSWK	2544	OFF 4	1433
OK %	1339	OK .	1122	OK 5	1068	OK F	1112	OKAY 0	2099	OKAY23	1042	OLDCDG	1385
ON 4	1436	ONCE 2	1155	ONE #	679	ONE A	2510	ONE B	2426	ONEADR	142	ONLY #	621
ONLY 7	621	OOPS1G	1828	OOPS2G	1972	OP 7	3064	OPMD Y	2700	OPNCK<	1663	OPS 0	2642
OPTM 7	1823	ORGVBI	2814	OTHER9	1421	OTHR29	1428	OUT #	478	OUT %	1533	OUT &	861
OUT *	861	OUT .	1320	OUT 0	2547	OUT 3	873	OUT 4	870	OUT 5	861	OUT 6	896
OUT A	2520	OUT F	1588	OUT G	1735	OUT H	1390	OUT I	2138	OUT J	2057	OUT K	2153
OUT L	1237	OUT M	1899	OUT N	1100	OUT O	1776	OUT R	1359	OUT U	870	OUT W	1139
OUT X	1988	OUT1 G	1685	OUT1 N	1484	OUT2 6	1001	OUT2 9	886	OUT2 R	1441	OUT3 9	981
OUT336	1020	OUTERX	1440	OUTERZ	1484	OUTPT7	1733	OVER M	1118	OVFLWJ	1973	OVFLWN	1645
OVFLWO	1671	PACK C	1295	PACK H	985	PACK J	1385	PACK2J	1425	PAKSWC	1807	PARAMA	686
PARAMH	686	PAREN0	1618	PARERT	1569	PAROKT	1584	PARSWT	2431	PART2Z	1850	PASS 0	1244
PASS J	2163	PASS K	2195	PASS O	1746	PASS W	1131	PASS X	1007	PAUSE3	1233	PAUSEE	1332
PCHCD/	838	PCHCD2	838	PCHTS2	984	PERIOD	154	PGCTR#	664	PGCTR7	664	PGCTR8	1467
PGET T	1424	PGNO A	2931	PHEW I	1954	PHEW K	1652	PHEW1K	1659	PHILF0	2815	PHIRT0	2816
PHSE1X	845	PHSE2N	937	PHSE2O	849	PHSE2P	849	PHSE2T	980	PHSE2X	845	PHSE3J	857
PHSE3N	1187	PHSE3O	849	PHSE3X	845	PHSE4N	1187	PICK C	1104	PKXT A	1969	PLACEM	1937
PLUS <	1544	PLUS Y	2492	PLUS11	1337	PLUS1L	1226	PLUSDF	160	PMOV 7	2039	PMOV M	1856
PMOV1C	1213	PMOV2C	1258	PMOV3E	1126	PNOT T	1479	POSTVQ	1486	PRDX B	938	PRED F	1694
PRED G	1826	PREP1Z	2439	PRESZK	2444	PRINT.	1257	PRINT8	971	PRINTE	1380	PRINTL	1094
PRMCDA	681	PRMSGA	1190	PRNTNT	250	PRNUMN	1562	PROBFB	1397	PROD H	2091	PRODL7	1963
PRTHDA	2267	PRTSW7	2936	PRTXT#	564	PRTXT7	564	PSKIPV	1182	PSUDON	1581	PULL1G	1409
PUNCHE	1375	PURE R	1131	PUT1 B	1620	PUT2 B	1631	PUT3 B	1642	PUT4 B	1653	PUT5 B	1664
PUT6 B	1675	PUT7 B	1686	PUTB I	2224	PUTC I	2438	PUTE M	1090	PUTMIX	1652	PUTN T	2010
PUTS X	1280	PXT /	855	PZ Y	1779	QUIT A	2233	QVERRG	1867	QVXT G	1905	RANDMJ	1075
RANDMN	964	RANDMO	1388	RDCNT2	1585	RDCNTA	837	RDCNTR	1631	RDITPE	1370	RDMSGG	1909
RDTAP2	1085	RDTAPE	1403	RDTAPR	1171	RDTPS2	931	RDTPX2	1252	RDXERB	1469	RDXT G	1947
READ 2	1074	READ E	1357	READ R	1160	READ2R	1011	REDUNG	1859	REFSWT	2530	REG %	1240
RELOCH	2081	RELOCR	1217	RELOKT	1697	RELXTR	1331	REMCKZ	1064	REMOVE	1484	REMV B	996
REPLCE	1314	REPLCV	1150	REPLST	2171	RESET0	2508	RESET1	893	RESETF	1191	RESETX	1068
RESETZ	1590	REST 1	865	RESTOI	1347	RESTRJ	1264	RESTRO	1545	RESTRX	1456	RETRN#	938
RETRN2	1070	RETRN4	1178	RETRN9	1176	RETRNT	995	RIGHT7	3088	RIGHTK	2442	RIGHTV	1114
RMVCMX	1817	RON Q	1387	ROOM Z	1361	ROUNDZ	1409	ROWS I	2767	RPLCED	881	RSTRX#	535
RSTRX7	535	RSTRX8	1128	RSX2 O	1161	RSX3 Z	1487	RTLFTK	1549	RTLFTN	1380	RTN 3	1118
RTN 5	1101	RTN2 J	1494	RTNA I	1093	RTNB I	1950	RTNLDZ	2348	RTP 6	209	RTPARI	2212
RTPARJ	1795	RTPARM	1369	RTPART	1541	RTPARX	1272	RTPXL6	930	RTR Z	1463	RTREVE	976
RU68 V	890	RUADR.	1114	RUADRX	1842	RUBADL	1178	RUCGTN	1229	RUCOM0	1228	RUCONK	1216
RUDIF%	1071	RUDUNX	922	RUDUPX	978	RUFIX.	1181	RUFIX0	2207	RUFN I	1487	RUINT0	1836
RUIO T	1352	RUOK %	1365	RUOK X	1897	RWD E	1425	S K	2342	SAUCEK	2700	SAUCEN	3200
SAUCEO	2600	SAUCEP	2700	SAUCEZ	856	SAV1 A	2838	SAV2 Y	2842	SAVE Z	1225	SAVE1G	1968
SAVE1N	1143	SAVE1X	2080	SAVE1Z	2405	SAVE2J	856	SAVE33	1616	SAVE3C	2003	SAVE5G	2143
SAVX2O	2057	SAVX37	2962	SAVX3Y	2689	SBR 1	1082	SBR Q	1494	SBR V	1139	SBR4 X	1212

SBR6 C	1161	SBRAYI	1743	SBSCR0	1347	SBSCRI	1583	SBVRT0	1890	SCAN J	873	SCAN K	986
SCAN Y	1382	SCAN2G	1609	SCAN2Y	1389	SCANRA	2070	SCFB B	1199	SCNBXT	2435	SCNDLV	873
SCNEQY	1216	SEEK J	981	SEEK O	1293	SEEK W	923	SEL A	1310	SEL B	1134	SEND %	1197
SEND 0	1912	SEND J	1272	SEND W	1169	SENLTE	1477	SENSEB	1260	SENSEM	1193	SERCH#	437
SET K	1266	SET1 T	1533	SET3 M	1671	SETN T	1122	SETP 9	1606	SETSWV	974	SETUP3	1084
SETUPK	1002	SETUPX	1634	SETWMM	1540	SETWMR	664	SETX1Z	1396	SETX2T	2272	SHIFTE	1026
SINFUN	903	SIX0 M	1999	SIXTNZ	1663	SKGBGV	1023	SKIP 0	1603	SKIP 1	1283	SKIP L	956
SKIP V	1194	SKIP Y	1880	SKIP21	1291	SKIPFH	1605	SKLOZI	1547	SKPSS2	920	SKPSW1	1522
SKPXC6	975	SKPXL2	1241	SKPXL6	988	SLASHA	1535	SLASHT	1636	SLIDEI	1415	SLIDEN	937
SLIDEU	1064	SLIDEW	1064	SLIDEX	942	SLIP X	893	SMALL.	901	SNDM2X	1523	SNDPTX	1001
SNDUMY	1128	SNGL 9	943	SNGL Q	1253	SNSE B	2457	SPACEG	878	SPACEX	2140	SPACEZ	1246
SPCL Q	1284	SPEC 9	1644	SPLITI	1656	SQRTFN	879	SQUEZZ	1963	SQUOZ<	1572	SQUOZO	1704
SQUOZW	959	START#	337	START%	859	START&	838	START*	838	START.	845	START0	1060
START1	337	START2	884	START3	838	START4	838	START5	838	START6	838	START7	838
START8	838	START9	842	START<	838	STARTA	838	STARTB	838	STARTC	1022	STARTD	838
STARTF	914	STARTG	1115	STARTH	931	STARTI	856	STARTJ	879	STARTK	877	STARTL	898
STARTM	864	STARTN	1205	STARTO	1210	STARTR	934	STARTS	916	STARTU	838	STARTW	854
STARTX	888	STARTY	838	START[	838	STATEM	2026	STLOCE	83	STMNOA	2822	STMNOE	1494
STO 0	913	STODDK	2264	STOP E	1336	STORE1	1237	STORE2	1271	STOREA	1364	STOREZ	853
STOTPR	1423	STREGZ	1918	STRIPM	1717	STRIPO	1414	STRX1Z	1635	SUB C	1096	SUB1 7	2728
SUB1 Y	2657	SUB2 K	1198	SUB3 7	2147	SUB5 Y	1190	SUBSC<	2199	SUBSCK	1176	SUBSCR	191
SUBSWI	2503	SUBSWK	2038	SUBTRI	2033	SUBTRJ	1131	SUBTRN	989	SUBTRO	1424	SUBXT7	2754
SV1 X	2063	SVORGG	1181	SVZN M	2028	SVZN X	2060	SW 1	1060	SW1 A	1332	SW1 I	1119
SW1 R	583	SW1 T	2430	SW2X2R	1266	SWAP 7	1575	SWCH N	1583	SWCHAI	956	SWCHAJ	1099
SWCHAK	2272	SWCHBI	1332	SWCHBJ	1731	SWCHCJ	1256	SWCHDJ	2076	SWCHEJ	943	SWCHFJ	1806
SWCHGJ	1739	SWCHSK	2243	SWCHXK	1390	SWCHZK	1404	SWEAT5	955	SWEATY	2254	SWIX2J	1594
SWLWP1	1156	SWM Y	2363	SWOFFX	1608	SWTCH%	1212	SWTCH2	1416	SWTCHQ	998	SWTCHX	1543
SYMB U	1032	SYMBLZ	1694	SYN2RI	1938	SYN2SI	2502	SYNER<	2122	SYNERF	1484	SYNERG	883
SYNERM	1802	SYNTXK	1784	SYS1 &	931	SYS1 *	975	SYS1 /	1417	SYS1 3	1661	SYS1 4	1614
SYS1 9	1758	SYS1 D	1112	SYS1 E	1567	SYS1 F	1845	SYS1 G	1979	SYS1 K	2601	SYS1 U	1324
SYS1 V	1279	SYS1 W	1256	SYS1 X	1265	SYS1 Z	1594	SYS2 1	1573	SYS2 6	1144	SYS2 G	2145
SYS2 H	2273	SYS2 O	1397	SYS2 P	1405	SYS2 Q	1549	SYS2 T	2599	SYS2 X	2197	SYS2 Z	1676
SYS3 N	1689	SYS3 X	1018	SYS4 J	2499	SYS4 N	1726	SYS5 L	1361	SYS6 S	2622	SYSC22	1612
SYSCG.	1469	SYSG 8	1470	SYSGM0	3091	SYSGM7	3103	SYSGM<	2768	SYSGMA	2999	SYSGMY	2873
SYSGMZ	2461	SYSGM[	1068	SYSL 5	1292	SYSMKC	1427	T1 #	498	T2 #	540	TABELZ	2499
TABLE7	2241	TABLEC	838	TABLEE	1197	TABLEK	2311	TABLEM	1992	TABLES	2341	TABLEZ	897
TAIL 0	2747	TAIL K	1837	TAKE M	1591	TALLYG	865	TAMAXT	2600	TAMR1T	1599	TAMROF	980
TAPE 9	1710	TBAD2R	1563	TBEGIN	1810	TBKFF1	1013	TBL1 Z	847	TBL2 Z	883	TBLADR	927
TBLR 7	2572	TBOOT#	553	TCLEAR	710	TEMP 0	2572	TEMP O	2136	TEMP2O	2139	TEN A	2536
TERM 1	1204	TEST %	1301	TEST .	1148	TEST H	1313	TEST J	1671	TEST K	1435	TEST M	932
TEST1B	1089	TEST1K	1016	TEST1Z	884	TEST2B	1102	TEST2K	1031	TEST2Q	1095	TEST2V	1076
TEST2Z	2435	TEST3Z	2436	TEST5M	1590	TEST5Q	991	TEST5V	1041	TESTAZ	1570	TESTBZ	1590
TESTCZ	1610	TESTET	1998	THREEZ	838	THRU L	1045	TLGM 9	1282	TLU I	1240	TMPSZS	2552
TMS3 Z	1207	TNMBRB	1598	TOP %	1642	TOP M	914	TOP Q	1519	TOP R	1641	TOP2 Q	1522
TOTALA	2807	TOTALK	2428	TOVL A	1228	TPERM#	581	TPERR2	1102	TPERR6	284	TPERRR	1188
TPERX6	947	TPNAMM	1161	TRACKK	200	TRAP .	1359	TRAWMZ	1722	TRY2 M	1702	TRYITK	972
TSDUNH	1660	TST1 <	1172	TST1 G	1195	TSTCSZ	1806	TSTIOH	838	TSTNDA	1669	TSTWMZ	1404
TSTZNS	1306	TU I	2204	TUBIGH	1566	TUF 7	1328	TUF2 7	1344	TUKIT0	2493	TUNO 9	1638
TUNO I	1336	TUNO U	1225	TURN G	1592	TURN I	1858	TURN K	1994	TUSW I	2599	TWISTI	2097
TWISTK	1603	TWLV58	1043	TWO A	2513	TWO9 N	1275	TWO9 O	1332	TWO9 P	1307	TYPE 0	2870
TYPE1R	993	UNARY7	2672	UNDEFJ	1824	UNIQ F	1050	UNITS0	2819	UNITSK	1894	UNPAKA	1876
UNPAKN	1200	UNPAKO	1256	UNPAKP	1231	UNREFJ	965	UNREFN	1412	UNREFT	1361	UPDATZ	2196
UPLIMJ	848	UPLIMN	849	UPLIMO	848	UPLIMP	848	URFSWT	2562	VARBLI	1992	VARBLM	1283
VBLSWI	2779	VERSEI	2505	VSERRI	1036	VZONEI	2768	VZONEJ	2336	WCTR T	2507	WITCHM	1224
WK5 A	2653	WK5 O	2071	WK51 A	2648	WK51 O	2208	WKBK1Z	870	WKBK2Z	875	WKBK3Z	1668
WMSW Z	1617	WMTSTZ	1514	WORD #	680	WORDLI	2587	WORK 3	1598	WORK A	2425	WORK B	2422
WORK F	1690	WORK G	849	WORK I	2646	WORK J	2296	WORK K	2363	WORK O	2106	WORK U	893
WORK1M	2009	WORK34	1613	WORK3A	2834	WORK3C	1352	WORK3I	2597	WORK5J	853	WORK6A	2817
WORK9C	1820	WORRYL	968	WORRYM	1026	WORRYN	1321	WORRYY	1109	WOW K	2043	WP 1	1103
WPB 1	1152	WPCS 1	1497	WRAP N	1390	WRDMVZ	1397	WRONGX	1116	WRTAPE	1412	WTOTPE	1395
X1 %	89	X1 &	89	X1 *	89	X1 .	89	X1 0	89	X1 1	89	X1 3	89

X1	4	89	X1	5	89	X1	6	89	X1	7	89	X1	8	89	X1	9	89	X1	<	89
X1	B	89	X1	C	89	X1	D	89	X1	E	89	X1	F	89	X1	G	89	X1	H	89
X1	I	89	X1	J	89	X1	K	89	X1	L	89	X1	M	89	X1	N	89	X1	O	89
X1	P	89	X1	Q	89	X1	R	89	X1	S	89	X1	T	89	X1	U	89	X1	V	89
X1	W	89	X1	X	89	X1	Y	89	X1	Z	89	X2	%	94	X2	.	94	X2	0	94
X2	1	94	X2	3	94	X2	4	94	X2	5	94	X2	7	94	X2	9	94	X2	<	94
X2	C	94	X2	D	94	X2	E	94	X2	F	94	X2	G	94	X2	H	94	X2	I	94
X2	J	94	X2	K	94	X2	L	94	X2	M	94	X2	N	94	X2	O	94	X2	P	94
X2	Q	94	X2	R	94	X2	S	94	X2	T	94	X2	U	94	X2	V	94	X2	W	94
X2	X	94	X2	Y	94	X2	Z	94	X25	Z	1598	X3	%	99	X3	&	99	X3	*	99
X3	.	99	X3	0	99	X3	1	99	X3	3	99	X3	4	99	X3	5	99	X3	7	99
X3	8	99	X3	9	99	X3	<	99	X3	F	99	X3	G	99	X3	H	99	X3	I	99
X3	J	99	X3	K	99	X3	L	99	X3	M	99	X3	N	99	X3	O	99	X3	P	99
X3	Q	99	X3	R	99	X3	S	99	X3	T	99	X3	U	99	X3	V	99	X3	W	99
X3	X	99	X3	Y	99	X3	Z	99	X35	Z	1603	X3ANDI		7+X3	XABSVA		122	XATANF		121
XBEGIN		838	XCOMF1		117	XDOAD1		111	XDOAD2		112	XDOAD3		113	XDOINI		114	XDOSBS		116
XEUNTK		1683	XEXPON		157	XFIXFU		124	XFLTFU		125	XL1	#	89	XL1	7	89	XL1	A	89
XL1	C	89	XL1	E	89	XL2	#	94	XL2	A	94	XL2	C	94	XL2	E	94	XL2	T	94
XL3	#	99	XL3	7	99	XL3	A	99	XL3	C	99	XL3	E	99	XL3	T	99	XLINKF		139
XLINKS		840	XLINKW		185	XLOGFN		119	XNEGTF		123	XNOT	T	1281	XOBLST		115	XPANDI		1726
XPMODY		2768	XPNETL		897	XPON	Y	2767	XPONTK		2420	XSINFU		118	XSQRTF		126	XSUB	Y	2513
XTPSW9		1757	XUSER1		127	XUSER2		128	XUSER3		129	XUSER4		130	XUSER5		131	XUSER6		132
XUSER7		133	XUSER8		134	XUSER9		135	XUSR10		136	XUSR11		137	XUSR12		138	XXPNTL		120
XXX	#	0	XXX	7	0	XXX	8	0	XXX	9	1165	XXX	T	0	XXXX	C	0	XXXX	E	0
YEAH	M	1413	YESIOT		1291	YIPEE6		201	YUSER1		876	YUSER2		873	YUSER3		870	YUSER4		867
YUSER5		864	YUSER6		861	YUSER7		858	YUSER8		855	YUSER9		852	YUSR10		849	YUSR11		846
YUSR12		843	ZADD	C	1442	ZERO	#	637	ZERO	5	1162	ZERO	M	1644	ZERO	Y	2500	ZEROS#		641
ZEROZJ		2247	ZNA	J	1929	ZON19O		1334	ZONCH<		2035	ZONE	.	1243	ZONE	0	2829	ZONE	C	1009
ZONE	L	1080	ZONE	N	1627	ZONE	Z	886	ZONESH		2098	ZONESI		2602	ZONESJ		2250	ZONESN		1276
ZONESO		2015	ZONESP		1308	ZONESS		2509	ZONESX		2019									