

| SEQ | PG | LIN | LABEL  | OP    | OPERANDS                                                   | SFX | CT | LOCN | INSTRUCTION | TYPE  | CARD | A-ADDR | B-ADDR |
|-----|----|-----|--------|-------|------------------------------------------------------------|-----|----|------|-------------|-------|------|--------|--------|
| 101 |    |     | JOB    |       | FORTRAN COMPILER -- SCANNER -- PHASE 03                    |     |    |      |             |       |      |        |        |
| 102 |    |     | CTL    |       | 6611                                                       |     |    |      |             |       |      |        |        |
| 103 |    |     | *      |       |                                                            |     |    |      |             |       |      |        |        |
| 104 |    |     | *      |       | SCANNER PHASE: INSERT STATEMENT NUMBERS (NOT LABELS)       |     |    |      |             |       |      |        |        |
| 105 |    |     | *      |       | CLASSIFY STATEMENTS (FORMAT STATEMENTS ALREADY CLASSIFIED) |     |    |      |             |       |      |        |        |
| 106 |    |     | *      |       |                                                            |     |    |      |             |       |      |        |        |
| 107 |    |     | X1     | EQU   | 89                                                         |     |    | 0089 |             |       |      |        |        |
| 108 |    |     | X2     | EQU   | 94                                                         |     |    | 0094 |             |       |      |        |        |
| 109 |    |     | X3     | EQU   | 99                                                         |     |    | 0099 |             |       |      |        |        |
| 110 |    |     | *      |       |                                                            |     |    |      |             |       |      |        |        |
| 111 |    |     | *      |       | STUFF IN THE RESIDENT AREA PHASE 0                         |     |    |      |             |       |      |        |        |
| 112 |    |     | *      |       |                                                            |     |    |      |             |       |      |        |        |
| 113 |    |     | PHASID | EQU   | 110 PHASE ID, FOR SNAPSHOT DUMPS                           |     |    | 0110 |             |       |      |        |        |
| 114 |    |     | SNAPSH | EQU   | 333 CORE DUMP SNAPSHOT ROUTINE                             |     |    | 0333 |             |       |      |        |        |
| 115 |    |     | *      |       |                                                            |     |    |      |             |       |      |        |        |
| 116 |    |     | TOPCOR | EQU   | 688 TOP CORE ADDRESS FROM PARAM CARD                       |     |    | 0688 |             |       |      |        |        |
| 117 |    |     | IMOD   | EQU   | 690 INTEGER MODULUS -- NUMBER OF DIGITS                    |     |    | 0690 |             |       |      |        |        |
| 118 |    |     | MANTIS | EQU   | 692 FLOATING POINT MANTISSA DIGITS                         |     |    | 0692 |             |       |      |        |        |
| 119 |    |     | *      |       | BLANK FOR ORDINARY, A FOR A CONVERSION                     |     |    |      |             |       |      |        |        |
| 120 |    |     | PARAM  | EQU   | 699 PARAMETER CARD IS STORED HERE                          |     |    | 0699 |             |       |      |        |        |
| 121 |    |     | LOADNX | EQU   | 700 LOAD NEXT OVERLAY                                      |     |    | 0700 |             |       |      |        |        |
| 122 |    |     | *      |       |                                                            |     |    |      |             |       |      |        |        |
| 123 |    |     | 089    | DCW   | 000                                                        |     | 3  | 0089 |             |       |      | 1      |        |
| 124 |    |     | 091    | DC    | 00                                                         |     | 2  | 0091 |             |       |      | 1      |        |
| 125 |    |     | *      |       |                                                            |     |    |      |             |       |      |        |        |
| 126 |    |     | *      |       | GENERATE THE BLOCK TO LOAD PHASE 3                         |     |    |      |             |       |      |        |        |
| 127 |    |     | *      |       |                                                            |     |    |      |             |       |      |        |        |
| 128 |    |     | PHAS3  | NEWPH | @SCANNER@,BEGINN,BEGINN                                    |     |    |      |             | MACRO |      |        |        |
|     |    |     | *      |       |                                                            |     |    |      |             | GEN   |      |        |        |
|     |    |     | *      |       | LOAD A NEW PHASE                                           |     |    |      |             | GEN   |      |        |        |
|     |    |     | *      |       |                                                            |     |    |      |             | GEN   |      |        |        |
| 129 |    |     | ORG    |       | 201                                                        |     |    |      | 0201        |       |      |        |        |
| 130 |    |     | PHAS3  | LCA   | )9N001,PHASID PHASID                                       |     | 7  | 0201 | L 285 110   | GEN   | 2    | 285    | 110    |
| 131 |    |     |        | BCE   | LOADNX,LOADNX,1 Q: FROM CARDS?                             |     | 8  | 0208 | B 700 700 1 | GEN   | 2    | 700    | 700    |
| 132 |    |     |        | BCE   | LOADNX,LOADNX,, Q: FROM AUTOCODER TAPE?                    |     | 8  | 0216 | B 700 700 , | GEN   | 2    | 700    | 700    |
| 133 |    |     | )0J001 | ZA    | )9J001 CLEAR ERROR COUNTER                                 |     | 4  | 0224 | ? 278       | GEN   | 2    | 278    |        |
| 134 |    |     | )0K001 | RTW   | %U1,BEGINN LOAD THE OVERLAY                                |     | 8  | 0228 | L %U1 838 R | GEN   | 2    | %U1    | 838    |
| 135 |    |     |        | BER   | )0L001 Q: ERROR?                                           |     | 5  | 0236 | B 248 L     | GEN   | 3    | 248    |        |
| 136 |    |     |        | CS    | BEGINN,)9P001 NO: ENTER THIS BLOCK                         |     | 7  | 0241 | / 838 293   | GEN   | 3    | 838    | 293    |
| 137 |    |     | )0L001 | BSP   | 1                                                          |     | 5  | 0248 | U %U1 B     | GEN   | 3    | %U1    |        |
| 138 |    |     |        | A     | *-6,)9J001 BUMP ERROR COUNT                                |     | 7  | 0253 | A 253 278   | GEN   | 3    | 253    | 278    |
| 139 |    |     |        | BCE   | )0K001,)9J001-1,0 Q: NOT TEN YET?                          |     | 8  | 0260 | B 228 277 0 | GEN   | 3    | 228    | 277    |
| 140 |    |     |        | NOP   | 3333                                                       |     | 4  | 0268 | N C33       | GEN   | 3    | 3333   |        |
| 141 |    |     |        | H     |                                                            |     | 1  | 0272 | .           | GEN   | 3    |        |        |
| 142 |    |     |        | B     | )0J001                                                     |     | 4  | 0273 | B 224       | GEN   | 4    | 224    |        |
| 143 |    |     | )9J001 | DCW   | #2 ERROR COUNTER                                           |     | 2  | 0278 |             | GEN   | 4    |        |        |
| 144 |    |     | )9N001 | DCW   | @SCANNER@ PHASE ID FROM PARAMETER 1                        |     | 7  | 0285 |             | GEN   | 4    |        |        |
| 145 |    |     |        | DC    | @ NEWPH @ IDENTIFY IN A DECK, TAPE, OR DUMP                |     | 7  | 0292 |             | GEN   | 4    |        |        |
| 146 |    |     | )9P001 | DCW   | @}@                                                        |     | 1  | 0293 |             | GEN   | 4    |        |        |
|     |    |     | * 108  | DSA   | PHAS3 NEWP LOAD ADDRESS FOR COMPILER-GEN                   |     |    |      |             | GEN   |      |        |        |



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|-----|----|-----|--------|-------|---------------------------------------------------|-----|----|------|-------------------|-------|------|--------|--------|
| 197 |    |     | *      |       |                                                   |     |    |      |                   |       |      |        |        |
| 198 |    |     |        | SBR   | CHKLBL&6,STMTST                                   | 7   |    | 1029 | H  49 M93         |       | 10   | 1049   | 2493   |
| 199 |    |     |        | SBR   | STMTPT,STMTST-1 INITIALIZE STATEMENT POINTER      | 7   |    | 1036 | H N04 M92         |       | 10   | 2504   | 2492   |
| 200 |    |     | CHKLBL | BCE   | STSTMT,STMTST,: FOUND THE START OF THE STATEMENT? | 8   |    | 1043 | B  75 M93 :       |       | 11   | 1075   | 2493   |
| 201 |    |     |        | SBR   | CHKLBL&6                                          | 4   |    | 1051 | H  49             |       | 11   | 1049   |        |
| 202 |    |     |        | SBR   | CHKLB2&6                                          | 4   |    | 1055 | H  65             |       | 11   | 1065   |        |
| 203 |    |     | CHKLB2 | BCE   | CHKLB2,0, DECREASE B REGISTER                     | 8   |    | 1059 | B  59 000         |       | 11   | 1059   | 000    |
| 204 |    |     |        | SBR   | STMTPT SET STATEMENT POINTER                      | 4   |    | 1067 | H N04             |       | 11   | 2504   |        |
| 205 |    |     |        | B     | CHKLBL                                            | 4   |    | 1071 | B  43             |       | 11   | 1043   |        |
| 206 |    |     | *      |       |                                                   |     |    |      |                   |       |      |        |        |
| 207 |    |     |        | *     | START PROCESSING THE STATEMENT PROPER.            |     |    |      |                   |       |      |        |        |
| 208 |    |     |        | *     | CHECK FOR ASSIGNMENT STATEMENT.                   |     |    |      |                   |       |      |        |        |
| 209 |    |     | *      |       |                                                   |     |    |      |                   |       |      |        |        |
| 210 |    |     | STSTMT | MCW   | STMTPT,ENDCHK&6                                   | 7   |    | 1075 | M N04  95         |       | 11   | 2504   | 1095   |
| 211 |    |     |        | MCW   | STMTPT,EQTEST&6                                   | 7   |    | 1082 | M N04 /08         |       | 12   | 2504   | 1108   |
| 212 |    |     | ENDCHK | BCE   | CKWORD,0,} END OF STATEMENT?                      | 8   |    | 1089 | B /73 000 } GMARK |       | 12   | 1173   | 000    |
| 213 |    |     |        | B     |                                                   | 1   |    | 1097 | B                 |       | 12   |        |        |
| 214 |    |     |        | SBR   | ENDCHK&6                                          | 4   |    | 1098 | H  95             |       | 12   | 1095   |        |
| 215 |    |     | EQTEST | BCE   | EQ,0-0,#                                          | 8   |    | 1102 | B /19 000 #       |       | 12   | 1119   | 000    |
| 216 |    |     |        | B     |                                                   | 1   |    | 1110 | B                 |       | 12   |        |        |
| 217 |    |     |        | SBR   | EQTEST&6                                          | 4   |    | 1111 | H /08             |       | 12   | 1108   |        |
| 218 |    |     |        | B     | ENDCHK                                            | 4   |    | 1115 | B  89             |       | 13   | 1089   |        |
| 219 |    |     | *      |       |                                                   |     |    |      |                   |       |      |        |        |
| 220 |    |     |        | *     | ASSIGNMENT STATEMENT.                             |     |    |      |                   |       |      |        |        |
| 221 |    |     | *      |       |                                                   |     |    |      |                   |       |      |        |        |
| 222 |    |     | EQ     | SW    | ENDCHK&4                                          | 4   |    | 1119 | ,  93             |       | 13   | 1093   |        |
| 223 |    |     |        | MCW   | ENDCHK&6,SVCHAR&3                                 | 7   |    | 1123 | M  95 /37         |       | 13   | 1095   | 1137   |
| 224 |    |     |        | CW    | ENDCHK&4                                          | 4   |    | 1130 | )  93             |       | 13   | 1093   |        |
| 225 |    |     | SVCHAR | MCW   | 0-0,CHAR                                          | 7   |    | 1134 | M 000 N05         |       | 13   | 000    | 2505   |
| 226 |    |     |        | SAR   | SVCHAR&3                                          | 4   |    | 1141 | Q /37             |       | 13   | 1137   |        |
| 227 |    |     |        | BCE   | LPAREN,CHAR,%                                     | 8   |    | 1145 | B T49 N05 %       |       | 13   | 1349   | 2505   |
| 228 |    |     |        | BCE   | LPAREN,CHAR,}                                     | 8   |    | 1153 | B T49 N05 } GMARK |       | 14   | 1349   | 2505   |
| 229 |    |     |        | BCE   | CKWORD,CHAR,,                                     | 8   |    | 1161 | B /73 N05 ,       |       | 14   | 1173   | 2505   |
| 230 |    |     |        | B     | SVCHAR                                            | 4   |    | 1169 | B /34             |       | 14   | 1134   |        |
| 231 |    |     | *      |       |                                                   |     |    |      |                   |       |      |        |        |
| 232 |    |     |        | *     | CHECK KEYWORD                                     |     |    |      |                   |       |      |        |        |
| 233 |    |     | *      |       |                                                   |     |    |      |                   |       |      |        |        |
| 234 |    |     | CKWORD | MCW   | STMTPT,*&4                                        | 7   |    | 1173 | M N04 /83         |       | 14   | 2504   | 1183   |
| 235 |    |     |        | MCW   | 0-0,WORD                                          | 7   |    | 1180 | M 000 N15         |       | 14   | 000    | 2515   |
| 236 |    |     |        | SW    | WORD                                              | 4   |    | 1187 | , N15             |       | 14   | 2515   |        |
| 237 |    |     |        | SW    |                                                   | 1   |    | 1191 | ,                 |       | 14   |        |        |
| 238 |    |     |        | MCW   | WORD,*&8                                          | 7   |    | 1192 | M N15 S06         |       | 15   | 2515   | 1206   |
| 239 |    |     |        | BCE   | BFCS1,KBFCs, IS 1ST LETTER B, F, C OR S?          | 8   |    | 1199 | B S37 N24         |       | 15   | 1237   | 2524   |
| 240 |    |     |        | CHAIN | 3                                                 |     |    |      |                   | MACRO |      |        |        |
| 241 |    |     |        | BCE   |                                                   | 1   |    | 1207 | B                 | GEN   | 15   |        |        |
| 242 |    |     |        | BCE   |                                                   | 1   |    | 1208 | B                 | GEN   | 15   |        |        |
| 243 |    |     |        | BCE   |                                                   | 1   |    | 1209 | B                 | GEN   | 15   |        |        |
| 244 |    |     |        | MCW   | WORD-1,*&8                                        | 7   |    | 1210 | M N14 S24         |       | 15   | 2514   | 1224   |
| 245 |    |     | TQINUA | BCE   | QINUA2,KQINUA, IS 2ND LETTER Q, I, N, U OR A?     | 8   |    | 1217 | B S71 N20         |       | 15   | 1271   | 2520   |
| 246 |    |     |        | CHAIN | 4                                                 |     |    |      |                   | MACRO |      |        |        |

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|-----|----|-----|--------|--------|----------------------------------------------------|-----|----|------|-------------|------|------|--------|--------|
| 247 |    |     |        | BCE    |                                                    | 1   |    | 1225 | B           | GEN  | 16   |        |        |
| 248 |    |     |        | BCE    |                                                    | 1   |    | 1226 | B           | GEN  | 16   |        |        |
| 249 |    |     |        | BCE    |                                                    | 1   |    | 1227 | B           | GEN  | 16   |        |        |
| 250 |    |     |        | BCE    |                                                    | 1   |    | 1228 | B           | GEN  | 16   |        |        |
| 251 |    |     |        | SW     | STMTYP                                             | 4   |    | 1229 | , M94       |      | 16   | 2494   |        |
| 252 |    |     |        | B      | OTHER                                              | 4   |    | 1233 | B U22       |      | 16   | 1422   |        |
| 253 |    |     |        | *      |                                                    |     |    |      |             |      |      |        |        |
| 254 |    |     |        | *      | FIRST LETTER IS B(ACKSPACE), F(ORMAT), C(ONTINUE), |     |    |      |             |      |      |        |        |
| 255 |    |     |        | *      | S(TOP) OR S(ENSELIGHT)                             |     |    |      |             |      |      |        |        |
| 256 |    |     |        | *      |                                                    |     |    |      |             |      |      |        |        |
| 257 |    |     | BFCS1  | C      | WORD-2,KNSE IS WORD [BFCS].NSE?                    | 7   |    | 1237 | C N13 N74   |      | 16   | 2513   | 2574   |
| 258 |    |     |        | BE     | SENSE                                              | 5   |    | 1244 | B S60 S     |      | 17   | 1260   |        |
| 259 |    |     |        | MCW    | WORD,STMTYP USE FIRST LETTER (BFCS) FOR STMT TYPE  | 7   |    | 1249 | M N15 M94   |      | 17   | 2515   | 2494   |
| 260 |    |     |        | B      | CLASSD                                             | 4   |    | 1256 | B T09       |      | 17   | 1309   |        |
| 261 |    |     | SENSE  | MCW    | TSENSE,STMTYP                                      | 7   |    | 1260 | M N75 M94   |      | 17   | 2575   | 2494   |
| 262 |    |     |        | B      | CLASSD                                             | 4   |    | 1267 | B T09       |      | 17   | 1309   |        |
| 263 |    |     |        | *      |                                                    |     |    |      |             |      |      |        |        |
| 264 |    |     |        | *      | SECOND LETTER IS (E)Q(UIVALENCE), (D)I(MENSION),   |     |    |      |             |      |      |        |        |
| 265 |    |     |        | *      | (E)N(D) OR (E)N(D)FILE), (P)U(NCH) OR (P)A(USE)    |     |    |      |             |      |      |        |        |
| 266 |    |     |        | *      |                                                    |     |    |      |             |      |      |        |        |
| 267 |    |     | QINUA2 | MCW    | WORD-1,STMTYP                                      | 7   |    | 1271 | M N14 M94   |      | 17   | 2514   | 2494   |
| 268 |    |     |        | BCE    | N2,TQINUA&7,N                                      | 8   |    | 1278 | B S90 S24 N |      | 18   | 1290   | 1224   |
| 269 |    |     |        | B      | CLASSD                                             | 4   |    | 1286 | B T09       |      | 18   | 1309   |        |
| 270 |    |     |        | *      |                                                    |     |    |      |             |      |      |        |        |
| 271 |    |     |        | *      | SECOND LETTER IS N. CHECK FOR ENDFILE.             |     |    |      |             |      |      |        |        |
| 272 |    |     |        | *      |                                                    |     |    |      |             |      |      |        |        |
| 273 |    |     | N2     | C      | WORD-2,KDFILE IS WORD .NDFILE?                     | 7   |    | 1290 | C N13 N80   |      | 18   | 2513   | 2580   |
| 274 |    |     |        | BE     | CLASSD                                             | 5   |    | 1297 | B T09 S     |      | 18   | 1309   |        |
| 275 |    |     |        | MCW    | TSLASH,STMTYP SET TYPE TO /                        | 7   |    | 1302 | M N81 M94   |      | 18   | 2581   | 2494   |
| 276 |    |     |        | *      |                                                    |     |    |      |             |      |      |        |        |
| 277 |    |     |        | *      | STATEMENT IS CLASSIFIED                            |     |    |      |             |      |      |        |        |
| 278 |    |     |        | *      |                                                    |     |    |      |             |      |      |        |        |
| 279 |    |     |        | CLASSD | CW WORD                                            | 4   |    | 1309 | ) N15       |      | 18   | 2515   |        |
| 280 |    |     |        | CW     |                                                    | 1   |    | 1313 | )           |      | 18   |        |        |
| 281 |    |     |        | CLASS2 | CW STMTYP                                          | 4   |    | 1314 | ) M94       |      | 19   | 2494   |        |
| 282 |    |     | MVBACK | LCA    | STMTSV,0 MOVE THE STATEMENT BACK                   | 7   |    | 1318 | L M97 000   |      | 19   | 2497   | 000    |
| 283 |    |     |        | SBR    | MVBACK&6                                           | 4   |    | 1325 | H T24       |      | 19   | 1324   |        |
| 284 |    |     |        | SBR    | CKBLNK&6                                           | 4   |    | 1329 | H T43       |      | 19   | 1343   |        |
| 285 |    |     |        | SBR    | 83 ADDRESS BELOW LAST STMT, FOR NEXT PHASE         | 4   |    | 1333 | H 083       |      | 19   | 083    |        |
| 286 |    |     | CKBLNK | BCE    | DONE,0-0,                                          | 8   |    | 1337 | B W72 000   |      | 19   | 1672   | 000    |
| 287 |    |     |        | B      | MVSTMT                                             | 4   |    | 1345 | B 996       |      | 19   | 996    |        |
| 288 |    |     |        | *      |                                                    |     |    |      |             |      |      |        |        |
| 289 |    |     |        | *      | LEFT PARENTHESIS OR GROUP MARK                     |     |    |      |             |      |      |        |        |
| 290 |    |     |        | *      |                                                    |     |    |      |             |      |      |        |        |
| 291 |    |     | LPAREN | MCW    | EQTEST&6,X1                                        | 7   |    | 1349 | M /08 089   |      | 20   | 1108   | 089    |
| 292 |    |     |        | BCE    | RPAREN,1&X1,)                                      | 8   |    | 1356 | B T69 0 1 ) |      | 20   | 1369   | 001+1  |
| 293 |    |     |        | B      |                                                    | 1   |    | 1364 | B           |      | 20   |        |        |
| 294 |    |     |        | B      | CLASS2                                             | 4   |    | 1365 | B T14       |      | 20   | 1314   |        |
| 295 |    |     | RPAREN | BCE    | LPAR2,2&X1,%                                       | 8   |    | 1369 | B T85 0 2 % |      | 20   | 1385   | 002+1  |
| 296 |    |     |        | SBR    | X1                                                 | 4   |    | 1377 | H 089       |      | 20   | 089    |        |

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| 297 |    |     |        | B   | RPAREN                                                  | 4   |    | 1381 | B T69       |       | 20   | 1369   |        |
| 298 |    |     | LPAR2  | BCE | F,3&X1,F                                                | 8   |    | 1385 | B T97 0 3 F |       | 21   | 1397   | 003+1  |
| 299 |    |     |        | B   | CLASS2                                                  | 4   |    | 1393 | B T14       |       | 21   | 1314   |        |
| 300 |    |     | F      | BCE | CLASS2,6&X1,:                                           | 8   |    | 1397 | B T14 0 6 : |       | 21   | 1314   | 006+1  |
| 301 |    |     |        |     | CHAIN 2                                                 |     |    |      |             | MACRO |      |        |        |
| 302 |    |     |        | BCE |                                                         | 1   |    | 1405 | B           | GEN   | 21   |        |        |
| 303 |    |     |        | BCE |                                                         | 1   |    | 1406 | B           | GEN   | 21   |        |        |
| 304 |    |     |        | MCW | TARITH,STMTYP                                           | 7   |    | 1407 | M N82 M94   |       | 21   | 2582   | 2494   |
| 305 |    |     |        | SW  | 195                                                     | 4   |    | 1414 | , 195       |       | 21   | 195    |        |
| 306 |    |     |        | B   | CLASS2                                                  | 4   |    | 1418 | B T14       |       | 22   | 1314   |        |
| 307 |    |     |        | *   |                                                         |     |    |      |             |       |      |        |        |
| 308 |    |     |        | *   | FIRST LETTER IS NOT BFCS AND SECOND LETTER IS NOT QINUA |     |    |      |             |       |      |        |        |
| 309 |    |     |        | *   |                                                         |     |    |      |             |       |      |        |        |
| 310 |    |     | OTHER  | CW  | WORD                                                    | 4   |    | 1422 | ) N15       |       | 22   | 2515   |        |
| 311 |    |     |        | CW  |                                                         | 1   |    | 1426 | )           |       | 22   |        |        |
| 312 |    |     |        | C   | WORD,KFI IF ( SENSE...?                                 | 7   |    | 1427 | C N15 N32   |       | 22   | 2515   | 2532   |
| 313 |    |     |        | BU  | NOTIF                                                   | 5   |    | 1434 | B V21 /     |       | 22   | 1521   |        |
| 314 |    |     |        | BCE | SLITE,WORD-8,L                                          | 8   |    | 1439 | B U58 N07 L |       | 22   | 1458   | 2507   |
| 315 |    |     |        | MCW | TSSW,STMTYP SENSE SWITCH                                | 7   |    | 1447 | M N40 M94   |       | 22   | 2540   | 2494   |
| 316 |    |     |        | B   | CLASS2                                                  | 4   |    | 1454 | B T14       |       | 23   | 1314   |        |
| 317 |    |     |        | *   |                                                         |     |    |      |             |       |      |        |        |
| 318 |    |     |        | *   | NINTH CHARACTER IS L -- ASSUME IF ( SENSE LIGHT ... )   |     |    |      |             |       |      |        |        |
| 319 |    |     |        | *   |                                                         |     |    |      |             |       |      |        |        |
| 320 |    |     | SLITE  | MCW | TSLITE,STMTYP                                           | 7   |    | 1458 | M N83 M94   |       | 23   | 2583   | 2494   |
| 321 |    |     |        | B   | CLASS2                                                  | 4   |    | 1465 | B T14       |       | 23   | 1314   |        |
| 322 |    |     |        | *   |                                                         |     |    |      |             |       |      |        |        |
| 323 |    |     |        | *   | BAD MODULUS MESSAGE                                     |     |    |      |             |       |      |        |        |
| 324 |    |     |        | *   |                                                         |     |    |      |             |       |      |        |        |
| 325 |    |     | BADMOD | CS  | 332                                                     | 4   |    | 1469 | / 332       |       | 23   | 332    |        |
| 326 |    |     |        | CS  |                                                         | 1   |    | 1473 | /           |       | 23   |        |        |
| 327 |    |     |        | MCW | MSG42,218                                               | 7   |    | 1474 | M O01 218   |       | 23   | 2601   | 218    |
| 328 |    |     |        | W   |                                                         | 1   |    | 1481 | 2           |       | 23   |        |        |
| 329 |    |     |        | CC  | J                                                       | 2   |    | 1482 | F J         |       | 24   |        |        |
| 330 |    |     |        | MCW | INTDEF,IMOD                                             | 7   |    | 1484 | M N42 690   |       | 24   | 2542   | 690    |
| 331 |    |     |        | B   | MANCHK                                                  | 4   |    | 1491 | B 914       |       | 24   | 914    |        |
| 332 |    |     |        | *   |                                                         |     |    |      |             |       |      |        |        |
| 333 |    |     |        | *   | BAD MANTISSA MESSAGE                                    |     |    |      |             |       |      |        |        |
| 334 |    |     |        | *   |                                                         |     |    |      |             |       |      |        |        |
| 335 |    |     | BADMAN | CS  | 332                                                     | 4   |    | 1495 | / 332       |       | 24   | 332    |        |
| 336 |    |     |        | CS  |                                                         | 1   |    | 1499 | /           |       | 24   |        |        |
| 337 |    |     |        | MCW | MSG43,219                                               | 7   |    | 1500 | M O20 219   |       | 24   | 2620   | 219    |
| 338 |    |     |        | W   |                                                         | 1   |    | 1507 | 2           |       | 24   |        |        |
| 339 |    |     |        | CC  | J                                                       | 2   |    | 1508 | F J         |       | 25   |        |        |
| 340 |    |     |        | MCW | FLTDEF,MANTIS                                           | 7   |    | 1510 | M N44 692   |       | 25   | 2544   | 692    |
| 341 |    |     |        | B   | BADRET                                                  | 4   |    | 1517 | B 938       |       | 25   | 938    |        |
| 342 |    |     |        | *   |                                                         |     |    |      |             |       |      |        |        |
| 343 |    |     |        | *   | NOT AN IF STATEMENT, CHECK FOR OTHERS                   |     |    |      |             |       |      |        |        |
| 344 |    |     |        | *   |                                                         |     |    |      |             |       |      |        |        |
| 345 |    |     | NOTIF  | BCE | DO,WORD,D                                               | 8   |    | 1521 | B V95 N15 D |       | 25   | 1595   | 2515   |
| 346 |    |     |        | BCE | LPAR3,WORD-2,%                                          | 8   |    | 1529 | B W06 N13 % |       | 25   | 1606   | 2513   |

| SEQ | PG | LIN | LABEL | OP  | OPERANDS                                                    | SFX | CT | LOCN | INSTRUCTION | TYPE | CARD | A-ADDR | B-ADDR |
|-----|----|-----|-------|-----|-------------------------------------------------------------|-----|----|------|-------------|------|------|--------|--------|
| 347 |    |     |       | BCE | LPAR5,WORD-4,%                                              | 8   |    | 1537 | B W17 N11 % |      | 25   | 1617   | 2511   |
| 348 |    |     |       | BCE | GOTO,WORD,G                                                 | 8   |    | 1545 | B W28 N15 G |      | 26   | 1628   | 2515   |
| 349 |    |     |       | BCE | PRINT,WORD,P                                                | 8   |    | 1553 | B W39 N15 P |      | 26   | 1639   | 2515   |
| 350 |    |     |       | BWZ | READ,WORD-4,2                                               | 8   |    | 1561 | V W50 N11 2 |      | 26   | 1650   | 2511   |
| 351 |    |     |       | BCE | RWD,WORD-5,D                                                | 8   |    | 1569 | B W61 N10 D |      | 26   | 1661   | 2510   |
| 352 |    |     |       | MCW | K1,STMTYP                                                   | 7   |    | 1577 | M N01 M94   |      | 26   | 2501   | 2494   |
| 353 |    |     |       | MN  | WORD-5,STMTYP USE NUMERIC OF SIXTH CHAR                     | 7   |    | 1584 | D N10 M94   |      | 27   | 2510   | 2494   |
| 354 |    |     |       | B   | NOTIF2                                                      |     |    | 1591 | B O26       |      | 27   | 2626   |        |
| 355 |    |     |       | *   |                                                             |     |    |      |             |      |      |        |        |
| 356 |    |     |       | *   | FIRST LETTER IS D(O)                                        |     |    |      |             |      |      |        |        |
| 357 |    |     |       | *   |                                                             |     |    |      |             |      |      |        |        |
| 358 |    |     | DO    | MCW | TDO,STMTYP                                                  | 7   |    | 1595 | M N39 M94   |      | 27   | 2539   | 2494   |
| 359 |    |     |       | B   | CLASS2                                                      | 4   |    | 1602 | B T14       |      | 27   | 1314   |        |
| 360 |    |     |       | *   |                                                             |     |    |      |             |      |      |        |        |
| 361 |    |     |       | *   | THIRD CHARACTER IS LEFT PARENTHESIS                         |     |    |      |             |      |      |        |        |
| 362 |    |     |       | *   |                                                             |     |    |      |             |      |      |        |        |
| 363 |    |     | LPAR3 | MCW | TIF,STMTYP                                                  | 7   |    | 1606 | M N38 M94   |      | 27   | 2538   | 2494   |
| 364 |    |     |       | B   | CLASS2                                                      | 4   |    | 1613 | B T14       |      | 27   | 1314   |        |
| 365 |    |     |       | *   |                                                             |     |    |      |             |      |      |        |        |
| 366 |    |     |       | *   | FIFTH CHARACTER IS LEFT PARENTHESIS -- ASSUME COMPUTED GOTO |     |    |      |             |      |      |        |        |
| 367 |    |     |       | *   |                                                             |     |    |      |             |      |      |        |        |
| 368 |    |     | LPAR5 | MCW | TCGO,STMTYP                                                 | 7   |    | 1617 | M N37 M94   |      | 28   | 2537   | 2494   |
| 369 |    |     |       | B   | CLASS2                                                      | 4   |    | 1624 | B T14       |      | 28   | 1314   |        |
| 370 |    |     |       | *   |                                                             |     |    |      |             |      |      |        |        |
| 371 |    |     |       | *   | FIRST CHARACTER IS G                                        |     |    |      |             |      |      |        |        |
| 372 |    |     |       | *   |                                                             |     |    |      |             |      |      |        |        |
| 373 |    |     | GOTO  | MCW | TGO,STMTYP                                                  | 7   |    | 1628 | M N36 M94   |      | 28   | 2536   | 2494   |
| 374 |    |     |       | B   | CLASS2                                                      | 4   |    | 1635 | B T14       |      | 28   | 1314   |        |
| 375 |    |     |       | *   |                                                             |     |    |      |             |      |      |        |        |
| 376 |    |     |       | *   | FIRST CHARACTER IS P                                        |     |    |      |             |      |      |        |        |
| 377 |    |     |       | *   |                                                             |     |    |      |             |      |      |        |        |
| 378 |    |     | PRINT | MCW | TPRINT,STMTYP                                               | 7   |    | 1639 | M N35 M94   |      | 28   | 2535   | 2494   |
| 379 |    |     |       | B   | CLASS2                                                      | 4   |    | 1646 | B T14       |      | 28   | 1314   |        |
| 380 |    |     |       | *   |                                                             |     |    |      |             |      |      |        |        |
| 381 |    |     |       | *   | FIFTH CHARACTER IS NUMERIC -- ASSUME IT'S READ              |     |    |      |             |      |      |        |        |
| 382 |    |     |       | *   |                                                             |     |    |      |             |      |      |        |        |
| 383 |    |     | READ  | MCW | TREAD,STMTYP                                                | 7   |    | 1650 | M N34 M94   |      | 29   | 2534   | 2494   |
| 384 |    |     |       | B   | CLASS2                                                      | 4   |    | 1657 | B T14       |      | 29   | 1314   |        |
| 385 |    |     |       | *   |                                                             |     |    |      |             |      |      |        |        |
| 386 |    |     |       | *   | SIXTH CHARACTER IS D -- ASSUME REWIND                       |     |    |      |             |      |      |        |        |
| 387 |    |     |       | *   |                                                             |     |    |      |             |      |      |        |        |
| 388 |    |     | RWD   | MCW | TREW,STMTYP                                                 | 7   |    | 1661 | M N33 M94   |      | 29   | 2533   | 2494   |
| 389 |    |     |       | B   | CLASS2                                                      | 4   |    | 1668 | B T14       |      | 29   | 1314   |        |
| 390 |    |     |       | *   |                                                             |     |    |      |             |      |      |        |        |
| 391 |    |     |       | *   | ALL DONE                                                    |     |    |      |             |      |      |        |        |
| 392 |    |     |       | *   |                                                             |     |    |      |             |      |      |        |        |
| 393 |    |     | DONE  | BSS | SNAPSH,C                                                    | 5   |    | 1672 | B 333 C     |      | 29   | 333    |        |
| 394 |    |     |       | B   | LOADNX                                                      | 4   |    | 1677 | B 700       |      | 29   | 700    |        |
| 395 |    |     |       | DCW | #1                                                          | 1   |    | 1681 |             |      | 29   |        |        |
| 396 |    |     |       | ORG | *&X00                                                       |     |    |      | 1700        |      |      |        |        |

| SEQ | PG | LIN | LABEL  | OP  | OPERANDS                                          | SFX | CT | LOCN | INSTRUCTION | TYPE | CARD | A-ADDR | B-ADDR |
|-----|----|-----|--------|-----|---------------------------------------------------|-----|----|------|-------------|------|------|--------|--------|
| 397 |    |     | ORG    |     | * & 800 THIS COULD PROBABLY BE REDUCED TO * & 700 |     |    |      | 2500        |      |      |        |        |
| 398 |    |     | ORG    |     | * - 2                                             |     |    |      | 2498        |      |      |        |        |
| 399 |    |     | *      |     |                                                   |     |    |      |             |      |      |        |        |
| 400 |    |     | STMTST | EQU | STMTNO-7 STATEMENT START                          |     |    | 2493 |             |      |      |        |        |
| 401 |    |     | STMTYP | EQU | STMTNO-6 STATEMENT TYPE -- F FOR FORMAT           |     |    | 2494 |             |      |      |        |        |
| 402 |    |     | STMTSV | EQU | STMTNO-3                                          |     |    | 2497 |             |      |      |        |        |
| 403 |    |     | *      |     |                                                   |     |    |      |             |      |      |        |        |
| 404 |    |     | *      |     | CONSTANTS AND WORK AREAS                          |     |    |      |             |      |      |        |        |
| 405 |    |     | *      |     |                                                   |     |    |      |             |      |      |        |        |
| 406 |    |     | *      |     | ORG 2398                                          |     |    |      |             |      |      |        |        |
| 407 |    |     | STMTNO | DCW | 001                                               |     | 3  | 2500 |             |      | 30   |        |        |
| 408 |    |     | K1     | DCW | 1                                                 |     | 1  | 2501 |             |      | 30   |        |        |
| 409 |    |     | STMTPT | DCW | #3 STATEMENT POINTER                              |     | 3  | 2504 |             |      | 30   |        |        |
| 410 |    |     | CHAR   | DCW | #1 CHARACTER BEING EXAMINED                       |     | 1  | 2505 |             |      | 30   |        |        |
| 411 |    |     | WORD   | DCW | #10                                               |     | 10 | 2515 |             |      | 30   |        |        |
| 412 |    |     | KQINUA | DC  | @QINUA@ TEST SECOND CHARACTER OF STATEMENT        |     | 5  | 2520 |             |      | 30   |        |        |
| 413 |    |     | KBFC   | DC  | @BFCS@ TEST FIRST CHARACTER OF STATEMENT          |     | 4  | 2524 |             |      | 30   |        |        |
| 414 |    |     | KFI    | DCW | @ESNES%FI@ IF (SENSE SPELLED BACKWARD             |     | 8  | 2532 |             |      | 30   |        |        |
| 415 |    |     | TREW   | DC  | @Z@ STATEMENT CODE FOR REWIND                     |     | 1  | 2533 |             |      | 30   |        |        |
| 416 |    |     | TREAD  | DC  | @L@ STATEMENT CODE FOR READ                       |     | 1  | 2534 |             |      | 30   |        |        |
| 417 |    |     | TPRINT | DC  | @P@ STATEMENT CODE FOR PRINT                      |     | 1  | 2535 |             |      | 30   |        |        |
| 418 |    |     | TGO    | DC  | @G@ STATEMENT CODE FOR GOTO                       |     | 1  | 2536 |             |      | 30   |        |        |
| 419 |    |     | TCGO   | DC  | @T@ STATEMENT CODE FOR COMPUTED GOTO              |     | 1  | 2537 |             |      | 31   |        |        |
| 420 |    |     | TIF    | DC  | @E@ STATEMENT CODE FOR IF                         |     | 1  | 2538 |             |      | 31   |        |        |
| 421 |    |     | TDO    | DC  | @D@ STATEMENT CODE FOR DO                         |     | 1  | 2539 |             |      | 31   |        |        |
| 422 |    |     | TSSW   | DC  | @W@ STATEMENT CODE FOR IF ( SENSE SWITCH ...      |     | 1  | 2540 |             |      | 31   |        |        |
| 423 |    |     | INTDEF | DCW | 05 DEFAULT INTEGER MODULUS                        |     | 2  | 2542 |             |      | 31   |        |        |
| 424 |    |     | FLTDEF | DCW | 08 DEFAULT FLOATING POINT MANTISSA DIGITS         |     | 2  | 2544 |             |      | 31   |        |        |
| 425 |    |     | INTMIN | DCW | 01 MINIMUM INTEGER MODULUS                        |     | 2  | 2546 |             |      | 31   |        |        |
| 426 |    |     | DIGMAX | DCW | 20 MAXIMUM INT MOD AND MAX FP MANTISSA            |     | 2  | 2548 |             |      | 31   |        |        |
| 427 |    |     | FLTMIN | DCW | 02 MINIMUM FLOATING POINT MANTISSA DIGITS         |     | 2  | 2550 |             |      | 32   |        |        |
| 428 |    |     | MODMSG | DCW | @MODULUS IS@                                      |     | 10 | 2560 |             |      | 32   |        |        |
| 429 |    |     | MANMSG | DCW | @MANTISSA IS@                                     |     | 11 | 2571 |             |      | 32   |        |        |
| 430 |    |     | KNSE   | DCW | @ESN@ NSE (PART OF SENSELIGHT) SPELT BACKWARD     |     | 3  | 2574 |             |      | 32   |        |        |
| 431 |    |     | TSENSE | DCW | @J@ STATEMENT CODE FOR SENSE LIGHT                |     | 1  | 2575 |             |      | 32   |        |        |
| 432 |    |     | KDFILE | DCW | @ELIFD@ DFILE (PART OF ENDFILE) SPELT BACKWARD    |     | 5  | 2580 |             |      | 32   |        |        |
| 433 |    |     | TSLASH | DCW | @/@ STATEMENT CODE FOR END                        |     | 1  | 2581 |             |      | 32   |        |        |
| 434 |    |     | TARITH | DCW | @R@ STATEMENT CODE FOR ARITHMETIC                 |     | 1  | 2582 |             |      | 33   |        |        |
| 435 |    |     | TSLITE | DCW | @K@ STATEMENT CODE FOR IF ( SENSE LIGHT...        |     | 1  | 2583 |             |      | 33   |        |        |
| 436 |    |     | MSG42  | DCW | @ERROR 42 - MODULUS@                              |     | 18 | 2601 |             |      | 33   |        |        |
| 437 |    |     | MSG43  | DCW | @ERROR 43 - MANTISSA@                             |     | 19 | 2620 |             |      | 33   |        |        |
| 438 |    |     | *      |     | PATCHES IN THE V3M4 OPERATIONAL TAPE              |     |    |      |             |      |      |        |        |
| 439 |    |     | K9     | DCW | 9 V3M4                                            |     | 1  | 2621 |             |      | 34   |        |        |
| 440 |    |     | TESTW6 | DC  | 6531 V3M4                                         |     | 4  | 2625 |             |      | 34   |        |        |
| 441 |    |     | NOTIF2 | MN  | WORD-5, * & 8 V3M4                                |     | 7  | 2626 | D N10 O40   |      | 34   | 2510   | 2640   |
| 442 |    |     |        | BCE | CLASS2, TESTW6, 0 READ TAPE? V3M4                 |     | 8  | 2633 | B T14 O25 0 |      | 34   | 1314   | 2625   |
| 443 |    |     |        | B   | WRITE TAPE? V3M4                                  |     | 1  | 2641 | B           |      | 34   |        |        |
| 444 |    |     |        | B   | READ INPUT TAPE? V3M4                             |     | 1  | 2642 | B           |      | 34   |        |        |
| 445 |    |     |        | B   | WRITE OUTPUT TAPE? V3M4                           |     | 1  | 2643 | B           |      | 34   |        |        |
| 446 |    |     |        | MN  | K9, STMTYP USE CODE 9 V3M4                        |     | 7  | 2644 | D O21 M94   |      | 34   | 2621   | 2494   |

| SEQ | PG | LIN | LABEL  | OP         | OPERANDS                                      | SFX  | CT | LOCN | INSTRUCTION | TYPE  | CARD | A-ADDR | B-ADDR |
|-----|----|-----|--------|------------|-----------------------------------------------|------|----|------|-------------|-------|------|--------|--------|
| 447 |    |     |        | BIN        | CLASS2,                                       | V3M4 | 5  | 2651 | B T14       |       | 35   | 1314   |        |
| 448 |    |     |        | ORG        | 2600                                          |      |    |      | 2600        |       |      |        |        |
| 449 |    |     | GMWM   | DCW        | @}@                                           |      | 1  | 2600 |             | GMARK | 36   |        |        |
| 450 |    |     | CLRFCT | EQU        | GMWM-1 USED IN PHASE 4 AS TOP OF CLEAR (WHY?) |      |    | 2599 |             |       |      |        |        |
| 451 |    |     | * 108  | DSA        | LOADAD                                        |      |    |      |             |       |      |        |        |
| 452 |    |     |        | XFR        | BEGINN                                        |      |    |      | B 838       |       | 36   | 838    |        |
| 453 |    |     | *      |            |                                               |      |    |      |             |       |      |        |        |
| 454 |    |     | *      | CLEAR CORE | AFTER THE PHASE USING MY CLRTOP ADDRESS       |      |    |      |             |       |      |        |        |
| 455 |    |     | *      |            |                                               |      |    |      |             |       |      |        |        |
| 456 |    |     | CLRME  | CLRA       | BEGINN,CLRFCT                                 |      |    |      |             | MACRO |      |        |        |
|     |    |     | *      |            |                                               |      |    |      |             | GEN   |      |        |        |
|     |    |     | *      | CLEAR CORE | AFTER A PHASE USING THE CLRTOP ADDRESS        |      |    |      |             | GEN   |      |        |        |
|     |    |     | *      |            |                                               |      |    |      |             | GEN   |      |        |        |
| 457 |    |     |        | ORG        | BEGINN&X00                                    |      |    |      | 0900        |       |      |        |        |
| 458 |    |     | )0R002 | EQU        | * CLRBOT & X00 - 1                            |      |    | 0899 |             | GEN   |      |        |        |
| 459 |    |     |        | ORG        | 201                                           |      |    |      | 0201        |       |      |        |        |
|     |    |     | *      |            |                                               |      |    |      |             | GEN   |      |        |        |
|     |    |     | *      | CLEAR DOWN | TO CLRBOT & X00 THE EASY WAY                  |      |    |      |             | GEN   |      |        |        |
|     |    |     | *      |            |                                               |      |    |      |             | GEN   |      |        |        |
| 460 |    |     | CLRME  | EQU        | *&1                                           |      |    |      | 0201        |       |      |        |        |
| 461 |    |     | )0J002 | CS         | CLRFCT CLEAR FROM CLRTOP                      |      | 4  | 0201 | / N99       | GEN   | 37   | 2599   |        |
| 462 |    |     |        | SBR        | )0J002&3                                      |      | 4  | 0205 | H 204       | GEN   | 37   | 204    |        |
| 463 |    |     |        | SBR        | )0L002&6                                      |      | 4  | 0209 | H 250       | GEN   | 37   | 250    |        |
| 464 |    |     |        | C          | )0J002&3,)0M002 DOWN TO CLRBOT & X00?         |      | 7  | 0213 | C 204 261   | GEN   | 37   | 204    | 261    |
| 465 |    |     |        | BU         | )0J002                                        |      | 5  | 0220 | B 201 /     | GEN   | 37   | 201    |        |
|     |    |     | *      |            |                                               |      |    |      |             | GEN   |      |        |        |
|     |    |     | *      | NOW CLEAR  | DOWN TO CLRBOT THE HARD WAY                   |      |    |      |             | GEN   |      |        |        |
|     |    |     | *      |            |                                               |      |    |      |             | GEN   |      |        |        |
| 466 |    |     | )0K002 | C          | )0L002&6,)0N002                               |      | 7  | 0225 | C 250 264   | GEN   | 37   | 250    | 264    |
| 467 |    |     |        | BU         | )0L002                                        |      | 5  | 0232 | B 244 /     | GEN   | 37   | 244    |        |
| 468 |    |     |        | CS         | LOADNX,)0Q002 LOAD THE NEXT BLOCK AT 1        |      | 7  | 0237 | / 700 271   | GEN   | 38   | 700    | 271    |
| 469 |    |     | )0L002 | LCA        | )0P002,0-0 CLEAR WITH BLANK AND WORD MARK     |      | 7  | 0244 | L 265 000   | GEN   | 38   | 265    | 000    |
| 470 |    |     |        | SBR        | )0L002&6                                      |      | 4  | 0251 | H 250       | GEN   | 38   | 250    |        |
| 471 |    |     |        | B          | )0K002                                        |      | 4  | 0255 | B 225       | GEN   | 38   | 225    |        |
| 472 |    |     | )0M002 | DSA        | )0R002 CLRBOT & X00 - 1                       |      | 3  | 0261 | 899         | GEN   | 38   | 899    |        |
| 473 |    |     | )0N002 | DSA        | BEGINN CLRBOT                                 |      | 3  | 0264 | 838         | GEN   | 38   | 838    |        |
| 474 |    |     | )0P002 | DCW        | #1                                            |      | 1  | 0265 |             | GEN   | 38   |        |        |
| 475 |    |     |        | DC         | @CLRA @ IDENTIFY IN A DECK, TAPE, OR DUMP     |      | 5  | 0270 |             | GEN   | 38   |        |        |
| 476 |    |     | )0Q002 | DCW        | @}@                                           |      | 1  | 0271 |             | GEN   | 39   |        |        |
| 477 |    |     |        | ORG        | *&1 START NEW CARD FOR COMPILER-GEN           |      |    |      | 0273        |       |      |        |        |
|     |    |     | *      | DSA        | CLRME CLRA                                    |      |    |      |             | GEN   |      |        |        |
| 478 |    |     |        | XFR        | CLRME                                         |      |    |      | B 201       |       | 39   | 201    |        |



| SYMBOL | ADDRESS | SYMBOL | ADDRESS | SYMBOL | ADDRESS | SYMBOL | ADDRESS | SYMBOL | ADDRESS | SYMBOL | ADDRESS |
|--------|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|---------|
| )OJ001 | 0224: 0 | )OJ002 | 0201: 0 | )OK001 | 0228: 0 | )OK002 | 0225: 0 | )OL001 | 0248: 0 | )OL002 | 0244: 0 |
| )OM002 | 0261: 0 | )ON002 | 0264: 0 | )OP002 | 0265: 0 | )OQ002 | 0271: 0 | )OR002 | 0899: 0 | )9J001 | 0278: 0 |
| )9N001 | 0285: 0 | )9P001 | 0293: 0 | BADMAN | 1495: 0 | BADMOD | 1469: 0 | BADRET | 0938: 0 | BEGINN | 0838: 0 |
| BFC1   | 1237: 0 | CHAR   | 2505: 0 | CHKLB2 | 1059: 0 | CHKLBL | 1043: 0 | CKBLNK | 1337: 0 | CKWORD | 1173: 0 |
| CLASS2 | 1314: 0 | CLASSD | 1309: 0 | CLRFCT | 2599: 0 | CLRME  | 0201: 0 | CORCHK | 0979: 0 | DIGMAX | 2548: 0 |
| DO     | 1595: 0 | DONE   | 1672: 0 | ENDCHK | 1089: 0 | EQ     | 1119: 0 | EQTEST | 1102: 0 | F      | 1397: 0 |
| FDEF   | 0883: 0 | FLTDEF | 2544: 0 | FLTMIN | 2550: 0 | FSPEC  | 0890: 0 | GMWM   | 2600: 0 | GOTO   | 1628: 0 |
| IDEF   | 0864: 0 | IMOD   | 0690: 0 | INTDEF | 2542: 0 | INTMIN | 2546: 0 | ISPEC  | 0871: 0 | K1     | 2501: 0 |
| K9     | 2621: 0 | KBFCS  | 2524: 0 | KDFILE | 2580: 0 | KFI    | 2532: 0 | KNSE   | 2574: 0 | KQINUA | 2520: 0 |
| LOADAD | 0838: 0 | LOADNX | 0700: 0 | LPAR2  | 1385: 0 | LPAR3  | 1606: 0 | LPAR5  | 1617: 0 | LPAREN | 1349: 0 |
| MANCHK | 0914: 0 | MANMSG | 2571: 0 | MANTIS | 0692: 0 | MODMSG | 2560: 0 | MSG42  | 2601: 0 | MSG43  | 2620: 0 |
| MVBACK | 1318: 0 | MVSTMT | 0996: 0 | N2     | 1290: 0 | NOTIF  | 1521: 0 | NOTIF2 | 2626: 0 | OTHER  | 1422: 0 |
| PARAM  | 0699: 0 | PHAS3  | 0201: 0 | PHASID | 0110: 0 | PRINT  | 1639: 0 | QINUA2 | 1271: 0 | READ   | 1650: 0 |
| RPAREN | 1369: 0 | RWD    | 1661: 0 | SENSE  | 1260: 0 | SLITE  | 1458: 0 | SNAPSH | 0333: 0 | STMTNO | 2500: 0 |
| STMTPT | 2504: 0 | STMTST | 2493: 0 | STMTSV | 2497: 0 | STMTYP | 2494: 0 | STSTMT | 1075: 0 | SVCHAR | 1134: 0 |
| TARITH | 2582: 0 | TCGO   | 2537: 0 | TDO    | 2539: 0 | TESTW6 | 2625: 0 | TGO    | 2536: 0 | TIF    | 2538: 0 |
| TOPCOR | 0688: 0 | TPRINT | 2535: 0 | TQINUA | 1217: 0 | TREAD  | 2534: 0 | TREW   | 2533: 0 | TSENSE | 2575: 0 |
| TSLASH | 2581: 0 | TSLITE | 2583: 0 | TSSW   | 2540: 0 | WORD   | 2515: 0 | X1     | 0089: 0 | X2     | 0094: 0 |
| X3     | 0099: 0 |        |         |        |         |        |         |        |         |        |         |

## UNREFERENCED SYMBOLS

LOADAD PARAM X2 X3