| CLEAR ST CLEAR ST BOOTSTRA | 'ORAG | | L0681 | 16,10 | 5106,110 | 117B101/ | 191#071 | 029C029 | 00000000010 056B026/B0 061039 | 01/0991 | | 117I0? 011040 | | | | 1 2 3 |
|----------------------------------|-------|--------|---------|------------|------------|-----------|----------|-------------|-------------------------------------|-----------|--------|------------------|------------|--------|-----|-------------|
| | | | | FORT | RAN COMP | PILER | SCANNER | PHA | SE 03 | | | | | PAGE | : | 1 |
| SEQ PG | LIN | LABEL | OP | OPER | ANDS | | | | | | SFX CT | LOCN | INSTRUCTIO | N TYPE | CAR | D |
| 101 | | * | JOB | FORT | RAN COMP | PILER | SCANNER | PHA | SE 03 | | | | | | | |
| 102 | | | | | | | | a (**** | | | | | | | | |
| 103 | | | | | | TATEMENT | | | | | | | | | | |
| 104 | | | SIFY S | 3.I.Y.I.FW | ENTS (FC | RMAT STA | TEMENTS | ALREAD | Y CLASSIFI | ED) | | | | | | |
| 105 | | * | | | | | | | | | | | | | | |
| 106 | | | CTL | 6611 | | | | | | | | | | | | |
| 107 | | * | | | | | | | | | | | | | | |
| 108 | | X1 | EQU | 89 | | | | | | | | 0089 | | | | |
| 109 | | X2 | EQU | 94 | | | | | | | | 0094 | | | | |
| 110 | | Х3 | EQU | 99 | | | | | | | | 0099 | | | | |
| 111 | | * | | | | | | | | | | | | | | |
| 112 | | * STUF | F IN T | THE RE | SIDENT A | REA | | | | | | | | | | |
| 113 | | * | | | | | | | | | | | | | | |
| 114 | | PHASID | EQU | 110 | PHASE I | D, FOR S | NAPSHOT | DUMPS | | | | 0110 | | | | |
| 115 | | SNAPSH | EQU | 333 | CORE DU | MP SNAPS | HOT ROU' | TINE | | | | 0333 | | | | |
| 116 | | * | | | | | | | | | | | | | | |
| 117 | | PWORD | EQU | 685 | THE WOR | D PARAM | | | | | | 0685 | | | | |
| 118 | | TOPCOR | EQU | 688 | TOP COR | E ADDRES | S FROM | PARAM C | 'ARD | | | 0688 | | | | |
| 119 | | IMOD | EQU | 690 | INTEGER | MODULUS | NUM | BER OF | DIGITS | | | 0690 | | | | |
| 120 | | MANTIS | EQU | 692 | FLOATIN | IG POINT | MANTISS | A DIGIT | 'S | | | 0692 | | | | |
| 121 | | CONDNS | EOU | 693 | P FOR C | CONDENSED | DECK | | | | | 0693 | | | | |
| 122 | | SNAPSW | EOU | 694 | S FOR S | NAPSHOT | | | | | | 0694 | | | | |
| 123 | | C1410 | | 695 | T IF RU | N ON 141 | 0 IN 14 | 01 COMP | ATIBILITY | MODE | | 0695 | | | | |
| 124 | | FMTSW | ~ | | | | | | D FORMAT | | | 0696 | | | | |
| 125 | | * | ~ - | | | | - | | NVERSION | | | | | | | |
| 126 | | PARAM | EOU | | | ER CARD | | | | | | 0699 | | | | |
| 127 | | * | - 2 | | | | | | | | | | | | | |
| 128 | | LOADNX | EOU | 700 | LOAD NE | XT OVERL | AY | | | | | 0700 | | | | |
| 129 | | CLEARL | ~ | | | NSTRUCTI | | OADNX | | | | 0707 | | | | |
| 130 | | LOADEX | ~ | | | THAT EXI | | | | | | 0793 | | | | |
| 131 | | * | - 2 | | | | | | | | | | | | | |
| 132 | | * SIGN | ALS US | SED WH | EN LOADT | NG FROM | CARDS | | | | | | | | | |
| 133 | | * | | | | | | | | | | | | | | |
| 134 | | | ORG | 101 | | | | | | | | | 0101 | | | |
| 135 | | | DCW | | COLON 5 | i – 8 | | | | | 1 | 0101 | | | | 4 |
| 136 | | | ORG | 101 | 002011 | . 0 | | | | | - | 0101 | 0101 | | | - |
| 137 | | | DCW | | NNER@ | | | | | | 7 | 0107 | 0101 | | | 5 |
| 138 | | * | 2011 | 00011 | | | | | | | • | 0107 | | | | _ |
| 139 | | | ORG | 838 | | | | | | | | | 0838 | | | |
| 140 | | * | ORG | 030 | | | | | | | | | 0030 | | | |
| 141 | | * STAR | т цгрг | 7 | | | | | | | | | | | | |
| 142 | | | | | ND MANTI | .GGV | | | | | | | | | | |
| 143 | | * | ic MODe | A COLI | IND PIRMIT | AGG | | | | | | | | | | |
| | 020 | DECIMA | MOM | TODO | OR, CORCH | IV c 6 | | | | | 7 | 0020 | M 688 985 | | | 6 |
| | 845 | TEGTIM | SW | | -1,MANTI | | | | | | | | , 689 691 | | | 6 |
| | 852 | | BCE | | ',IMOD, | | MODITITI | S BI.MNV | ON PARAME | יםגם כאםי | | | B 864 690 | | | 6 |
| | 860 | | В | ISPE | | NO, USE | | | | ILIK CHKI | | 0852 | | | | 6 |
| 11/ | 300 | | ם | TOPE | | NO, USE | OFECTE. | ע∪ויי טיייב | ,01100 | | 4 | 0000 | D 0/1 | | | J |
| | | | | | | | | | | | | | | | | |

| | | | | FORTRAN COMPILER SCANNER PHASE 03 | | | PAG | GE 2 |
|------------|------------|----------|---------|---|--------|------|----------------------|--------|
| SEQ | PG LIN | LABEL | OP | OPERANDS | SFX CT | LOCN | INSTRUCTION TYPE | E CARD |
| 148 | 864 | IDEF | MCW | INTDEF,IMOD YES, USE DEFAULT MODULUS | 7 | 0864 | M M42 690 | 6 |
| 149 | | ISPEC | | FDEF, MANTIS, FLOATING POINT MANTISSA BLANK? | | | B 883 692 | 7 |
| 150 | 879 | | В | | | | В 890 | 7 |
| 151 | 883 | FDEF | MCW | FLTDEF, MANTIS YES, USE DEFAULT MANTISSA | 7 | 0883 | M M44 692 | 7 |
| 152 | 890 | FSPEC | C | IMOD, INTMIN COMPARE MODULUS TO MINIMUM | 7 | 0890 | C 690 M46 | 7 |
| 153 | 897 | | BH | BADMOD | 5 | | B U69 U | 7 |
| 154 | 902 | | C | FSPEC NO, USE SPECIFIED MANTISSA FLTDEF, MANTIS YES, USE DEFAULT MANTISSA IMOD, INTMIN COMPARE MODULUS TO MINIMUM BADMOD IMOD, DIGMAX CHECK INTEGER MODULUS | 7 | | C 690 M48 | 7 |
| 155 | 909 | | BL | BADMOD | 5 | | B U69 T | 8 |
| 156 | | MANCHK | | MANTIS, DIGMAX CHECK FLOATING POINT MANTISSA | | | C 692 M48 | 8 |
| 157 | 921 | | BL | BADMAN | | | B U95 T | 8 |
| 158 159 | 926 933 | | C BH | MANTIS, FLTMIN BADMAN | 7 | | C 692 M50 B U95 U | 8 |
| 160 | 933 | * | вн | BADMAN | 5 | 0933 | B 032 0 | 8 |
| 161 | | | рт м∩г | DULUS AND MANTISSA | | | | |
| 162 | | * | ICI MOL | OULOS AND MANITODA | | | | |
| 163 | 938 | BADRET | CS | 332 | 4 | 0938 | / 332 | 8 |
| 164 | 942 | | CS | | 1 | 0942 | | 8 |
| 165 | 943 | | MCW | MODMSG,210 | 7 | 0943 | M M60 210 | 9 |
| 166 | 950 | | MCS | IMOD,213 | 7 | 0950 | Z 690 213 | 9 |
| 167 | 957 | | W | | 1 | 0957 | | 9 |
| 168 | 958 | | CS | 299 | | | / 299 | 9 |
| 169 | 962 | | MCW | MANMSG,211 | 7 | | M M71 211 | 9 |
| 170 | 969 | | MCS | MANTIS,214 | 7 | | Z 692 214 | 9 |
| 171 172 | 976 977 | | W | J | 1 | | | 9 |
| 173 | 911 | * | CC | U | 2 | 0977 | r u | 10 |
| 174 | 979 | CORCHK | BCE | CORCHK, 0-0, 0 TOPCOR STORED INTO B | 8 | 0979 | в 979 000 0 | 10 |
| 175 | 987 | CORCINC | В | CORCINC, O O, O TOT COR BIORED INTO E | | 0987 | | 10 |
| 176 | 988 | | SBR | MVBACK&6 STORES TOPCOR-2 | | | н т24 | 10 |
| 177 | 992 | | SBR | MVSTMT&3 | 4 | 0992 | н 999 | 10 |
| 178 | 996 | MVSTMT | LCA | 0-0,STMTSV COPY STATEMENT TO WORK AREA | 7 | 0996 | L 000 L97 | 10 |
| | 1 003 | | SAR | MVSTMT&3 READY FOR NEXT STATEMENT | 4 | 1003 | Q 999 | 10 |
| | 1 007 | | MCW | STMING, STMISV INSERT STATEMENT NUMBER INTO STMI | 7 | 1007 | M M00 L97 | 11 |
| | 1 014 | | Α | KI.STMTNO AND BUMP IT | / | 1014 | A MUL MUU | 11 |
| | 1 021 | * | BCE | CLASS2,STMTYP,F FORMAT STMT IS ALREADY CLASSIFIED | 8 | 1021 | B T14 L94 F | 11 |
| 183 184 | | | OVED | THE LABEL IF ANY | | | | |
| 185 | | * SVIP | OVER | IRE LADEL IF ANI | | | | |
| | 1 029 | | SBR | CHKLBL&6,STMTST | 7 | 1029 | н 49 L93 | 11 |
| | 1 036 | | SBR | STMTPT,STMTST-1 INITIALIZE STATEMENT POINTER | | | H M04 L92 | 11 |
| | | CHKLBL | | STSTMT, STMTST,: FOUND THE START OF THE STATEMENT? | | | в 75 L93 : | 12 |
| 189 | 1 051 | | SBR | CHKLBL&6 | 4 | 1051 | н 49 | 12 |
| 190 | 1 055 | | SBR | CHKLB2&6 | 4 | 1055 | н 65 | 12 |
| | | CHKLB2 | BCE | CHKLB2,0, DECREASE B REGISTER | | | в 59 000 | 12 |
| | 1 067 | | SBR | STMTPT SET STATEMENT POINTER | | | H M04 | 12 |
| | 1 071 | 4. | В | CHKLBL | 4 | 1071 | В 43 | 12 |
| 194 195 | | * (1777) | m DD00 | DECCING THE CTATEMENT DOODED | | | | |
| 195 | | | | CESSING THE STATEMENT PROPER. ASSIGNMENT STATEMENT. | | | | |
| 196 | | * CHEC. | K FUR | ADDIGNIENI DIMIENENI. | | | | |
| | | | | | | | | |

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| SEQ | PG | LIN | LABEL | OP | OPERANDS | SFX CT | LOCN | INSTRUCTION | TYPE | CARD |
| | 1 | | STSTMT | | STMTPT, ENDCHK&6 STMTPT, EQTEST&6 CKWORD,0,} END OF STATEMENT? ENDCHK&6 ED 0-0 # | | | M M04 95 | | 12 |
| | 1 | | | MCW | STMTPT, EQTEST&6 | 7 | | M M04 /08 | | 13 |
| 200 | | | ENDCHK | | CKWORD,0,} END OF STATEMENT? | 8 | | B /73 000 } | GMARK | |
| | 1 | | | В | | 1 | 1097 | | | 13 |
| | 1 | | | SBR | ENDCHK&6 | | 1098 | н 95 | | 13 |
| | | | EQTEST | | EQ, 0-0,# | 8 | | B /19 000 # | | 13 |
| | 1 | | | В | | | 1110 | | | 13 |
| | 1 | | | SBR | EQTEST&6 | 4 | | H /08 | | 13 |
| | 1 | 115 | | В | ENDCHK | 4 | 1115 | в 89 | | 14 |
| 207 | | | * | | | | | | | |
| 208 | | | | GNMENT | STATEMENT. | | | | | |
| 209 | | | * | | | | | Laa | | |
| | | 119 | EQ | SW | ENDCHK&4 | | | , 93 | | 14 |
| | 1 | | | MCW | ENDCHK&6, SVCHAR&3 | 7 | | M 95 /37 | | 14 |
| | 1 | | | CW | ENDCHK&4 | 4 | |) 93 | | 14 |
| | 1 | | SVCHAR | | 0-0, CHAR | 7 | | M 000 M05 | | 14 |
| | 1 | | | SAR | SVCHAR&3 | | | Q /37 | | 14 |
| | 1 | | | BCE | LPAREN, CHAR, % | 8 | | B T49 M05 % | | 14 |
| | 1 | | | BCE | LPAREN, CHAR, } | 8 | | B T49 M05 } | | |
| | 1 | | | BCE | CKWORD, CHAR,, | | | B /73 M05 , | | 15 |
| | 1 | 169 | | В | SVCHAR | 4 | 1169 | В /34 | | 15 |
| 219 | | | * | | | | | | | |
| 220 | | | * CHEC | K KEYW | ORD | | | | | |
| 221 | | | * | | | | | | | |
| | 1 | | CKWORD | | STMTPT, *&4 | 7 | | M M04 /83 | | 15 |
| | 1 | | | MCW | 0-0, WORD | 7 | | M 000 M15 | | 15 |
| | 1 | | | SW | WORD | | | , M15 | | 15 |
| | 1 | | | SW | | 1 | | , | | 15 |
| | 1 | | | MCW | WORD, *&8 | 7 | | M M15 S06 | | 16 |
| | 1 | | | BCE | BFCS1,KBFCS, IS 1ST LETTER B, F, C OR S? | 8 | 1199 | B S37 M24 | | 16 |
| | 1 | 207 | | CHAIN | 3 | _ | | _ | MACRO | |
| 229 | | | | BCE | | | | В | GEN | 16 |
| 230 | | | | BCE | | 1 | | В | GEN | 16 |
| 231 | | 010 | | BCE | wonn 1 4-0 | | 1209 | В | GEN | 16 |
| | 1 | | mo Tarra | MCW | WORD-1,*&8 | 7 | | M M14 S24 | | 16 |
| | | | TQINUA | | QINUA2,KQINUA, IS 2ND LETTER Q, I, N, U OR A? | 8 | 1217 | B S71 M20 | | 16 |
| | 1 | 225 | | CHAIN | 4 | - | 1005 | _ | MACRO | |
| 235 | | | | BCE | | | 1225 | | GEN | 17 |
| 236 | | | | BCE | | | 1226 | | GEN | 17 |
| 237 | | | | BCE | | | 1227 | | GEN | 17 |
| 238 | 1 | 000 | | BCE | OTHER P. | | 1228 | | GEN | 17 |
| | 1 | | | SW | STMTYP | | | , L94 | | 17 |
| | 1 | 233 | * | В | OTHER | 4 | 1233 | B U22 | | 17 |
| 241 | | | | m | TO DO COMPANY (CONTENT) | | | | | |
| 242 | | | | | ER IS B(ACKSPACE), F(ORMAT), C(ONTINUE), | | | | | |
| 243 | | | * S(TO) | P) OR | S(ENSELIGHT) | | | | | |
| 244 | | 227 | | a | WODD 2 WAGE TO WODD [DEGG] NGEO | - | 1000 | G M12 M74 | | 1 7 |
| | | | BFCS1 | | WORD-2,KNSE IS WORD [BFCS].NSE? | | | C M13 M74 | | 17 |
| 246 | | | | BE | SENSE | | | B S60 S | | 18 18 |
| 24/ | 1 | ∠49 | | MCW | WORD, STMTYP USE FIRST LETTER (BFCS) FOR STMT TYPE | / | 1249 | M M15 L94 | | 18 |

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|-----|----------------|-----------|----------|---|--------|--------|--------------------------|-------|----------|
| SEQ | PG LIN | LABEL | OP | OPERANDS | SFX CT | LOCN | INSTRUCTION | TYPE | CARD |
| 248 | 1 256 | | В | CLASSD | 4 | 1256 | в т09 | | 18 |
| 249 | 1 260 | SENSE | MCW | TSENSE, STMTYP | 7 | 1260 | M M75 L94 | | 18 |
| 250 | 1 267 | | В | CLASSD | 4 | 1267 | в т09 | | 18 |
| 251 | | * | | | | | | | |
| 252 | | | | TER IS (E)Q(UIVALENCE), (D)I(MENSION), | | | | | |
| 253 | | | (D) OR | (E)N(DFILE), (P)U(NCH) OR (P)A(USE) | | | | | |
| 254 | 1 071 | * | MOTA | HODD 1 OFFICE | - | 1071 | M M14 TO4 | | 1.0 |
| 255 | 1 271 | QINUA2 | | WORD-1,STMTYP | | | M M14 L94 B S90 S24 N | | 18 19 |
| | 1 278 | | BCE B | N2,TQINUA&7,N CLASSD | | | B T09 | | 19 |
| 258 | 1 200 | * | ь | CLASSD | 4 | 1200 | Б 109 | | 19 |
| 259 | | * SECO | ND LET | TER IS N. CHECK FOR ENDFILE. | | | | | |
| 260 | | * | | | | | | | |
| 261 | 1 290 | N2 | C | WORD-2,KDFILE IS WORD .NDFILE? CLASSD TSLASH,STMTYP SET TYPE TO / | 7 | 1290 | C M13 M80 | | 19 |
| 262 | 1 297 | | BE | CLASSD | 5 | 1297 | B T09 S | | 19 |
| 263 | 1 302 | | MCW | TSLASH,STMTYP SET TYPE TO / | 7 | 1302 | M M81 L94 | | 19 |
| 264 | | * | | | | | | | |
| 265 | | * STAT | EMENT | IS CLASSIFIED | | | | | |
| 266 | 1 200 | * | GT. | MODE | 4 | 1200 | \ 241.5 | | 1.0 |
| | 1 319 | CLASSD | | WORD | | 1313 |) M15 | | 19 19 |
| | | CLASS2 | | STMTYP | | |)) L94 | | 20 |
| | | MVBACK | | STMTSV, 0 MOVE THE STATEMENT BACK | | | L L97 000 | | 20 |
| | 1 325 | PIVER | | MVBACK&6 | | | H T24 | | 20 |
| | 1 329 | | SBR | CKBLNK&6 | | | H T43 | | 20 |
| | 1 333 | | SBR | 83 ADDRESS BELOW LAST STMT, FOR NEXT PHASE | | | н 083 | | 20 |
| 274 | 1 337 | CKBLNK | BCE | DONE, 0-0, | 8 | 1337 | B W72 000 | | 20 |
| | 1 345 | | В | MVSTMT | 4 | 1345 | в 996 | | 20 |
| 276 | | * | | | | | | | |
| 277 | | * LEFT | PAREN | THESIS OR GROUP MARK | | | | | |
| 278 | 1 240 | * | | TOTTOTT (111 | _ | 1040 | | | 0.1 |
| | | LPAREN | | EQTEST&6,X1 | | | M /08 089 B T69 0 1) | | 21 21 |
| | 1 356 1 364 | | BCE B | RPAREN, 1&X1,) | | 1364 | 1 : | | 21 |
| | 1 365 | | В | CLASS2 | 4 | 1365 | B T14 | | 21 |
| | | RPAREN | | LPAR2,2&X1,% | 8 | 1369 | B T85 0 2 % | | 21 |
| | 1 377 | 111111111 | SBR | X1 | | | н 089 | | 21 |
| | 1 381 | | В | RPAREN | | | В Т69 | | 21 |
| | | LPAR2 | BCE | F,3&X1,F | 8 | | B T97 0 3 F | | 22 |
| 287 | 1 393 | | В | CLASS2 | 4 | 1393 | B T14 | | 22 |
| | 1 397 | F | BCE | CLASS2,6&X1,: | 8 | 1397 | B T14 0 6 : | | 22 |
| | 1 405 | | CHAIN | 2 | | | | MACRO | |
| 290 | | | BCE | | | 1405 | | GEN | 22 |
| 291 | 1 405 | | BCE | TARTEN COMPUR | | 1406 | | GEN | 22 |
| | 1 407 | | MCW | TARITH, STMTYP | | | M M82 L94 | | 22 |
| | 1 414 1 418 | | SW B | 195 CLASS2 | | | , 195 В Т14 | | 22 23 |
| 294 | T #T9 | * | Д | CHOOL | 4 | T-4T-0 | D IT4 | | 23 |
| 296 | | | т Гетт | ER IS NOT BFCS AND SECOND LETTER IS NOT QINUA | | | | | |
| 297 | | * | | 1115 520015 221121 15 1101 \$11011 | | | | | |
| | | | | | | | | | |

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| SEQ PG LIN LABEL OP | OPERANDS | SFX |
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| CEO. | DC IIN | LABEL | OD | OPERANDS | cev c | T TOOM | INSTRUCTION TYPE | CARD |
|------------|----------------|------------|------------|---|-------|--------|--------------------|----------|
| SEQ | PG LIN | LADEL | OP | OPERANDS | SFA C | LOCN | INSTRUCTION TIPE | CARD |
| 298 | 1 422 | OTHER | CW | WORD | | 1422 |) M15 | 23 |
| 299 | 1 426 | | CW | | | 1426 |) | 23 |
| 300 | 1 427 | | C | WORD, KFI IF (SENSE? | | | C M15 M32 | 23 |
| | 1 434 | | BU | NOTIF | | | B V21 / | 23 |
| 302 | 1 439 | | BCE | SLITE, WORD-8, L | | 1439 | | 23 |
| 303 | 1 447 | | MCW | TSSW,STMTYP SENSE SWITCH | | | M M40 L94 | 23 |
| | 1 454 | | В | CLASS2 | | 1454 | B T14 | 24 |
| 305 | | * | | | | | | |
| 306 | | * NINT | 'н снаг | RACTER IS L ASSUME IF (SENSE LIGHT) | | | | |
| 307 | 1 450 | or top | MOU | TOT THE CHARLE | | 7 1450 | M MO2 TO4 | 2.4 |
| 308 309 | 1 458 1 465 | SLITE | MCW B | TSLITE,STMTYP CLASS2 | | | M M83 L94 B T14 | 24 24 |
| 310 | 1 405 | * | ь | CLASSZ | | 1400 | B 114 | 24 |
| 311 | | | MODIII I | JS MESSAGE | | | | |
| 312 | | * | MODUL | NESSAGE | | | | |
| | 1 469 | BADMOD | CS | 332 | | 1 1469 | / 332 | 24 |
| 314 | 1 473 | DIIDIIOD | CS | 332 | | 1473 | | 24 |
| | 1 474 | | MCW | MSG42,218 | | | M N01 218 | 24 |
| | 1 481 | | W | | | 1481 | | 24 |
| | 1 482 | | CC | J | | 1482 | | 25 |
| 318 | 1 484 | | MCW | INTDEF, IMOD | | 1484 | M M42 690 | 25 |
| 319 | 1 491 | | В | MANCHK | | 1491 | в 914 | 25 |
| 320 | | * | | | | | | |
| 321 | | * BAD | MANTIS | SSA MESSAGE | | | | |
| 322 | | * | | | | | | |
| 323 | 1 495 | BADMAN | CS | 332 | | 1495 | / 332 | 25 |
| 324 | 1 499 | | CS | | | 1499 | / | 25 |
| | 1 500 | | MCW | MSG43,219 | | 1500 | M N20 219 | 25 |
| | 1 507 | | W | | | 1507 | 2 | 25 |
| | 1 508 | | CC | J | | 1508 | F J | 26 |
| | 1 510 | | MCW | FLTDEF, MANTIS | | | M M44 692 | 26 |
| | 1 517 | | В | BADRET | | 1517 | В 938 | 26 |
| 330 | | * | | | | | | |
| 331 | | * NOT * | AN IF | STATEMENT, CHECK FOR OTHERS | | | | |
| 332 | 1 501 | | DOE | DO MORD D | | 1521 | B V95 M15 D | 26 |
| 333 334 | 1 521 1 529 | NOIIF | BCE BCE | DO,WORD,D LPAR3,WORD-2,% | | 1521 | B W06 M13 % | 26 26 |
| | 1 529 | | BCE | LPAR3, WORD-2, & LPAR5, WORD-4, & | | 3 1529 | | 26 26 |
| | 1 545 | | BCE | GOTO, WORD, G | | 1545 | | 27 |
| | 1 553 | | BCE | PRINT, WORD, P | | 1553 | | 27 |
| | 1 561 | | BWZ | READ, WORD-4, 2 | | | V W50 M11 2 | 27 |
| | 1 569 | | BCE | RWD, WORD-5, D | | 1569 | | 27 |
| | 1 577 | | MCW | K1,STMTYP | | 1577 | | 27 |
| | 1 584 | | MN | WORD-5,STMTYP USE NUMERIC OF SIXTH CHAR | | 1584 | | 28 |
| 342 | 1 591 | | В | · | /3M4 | | в изб | 28 |
| 343 | | * | | | | | | |
| 344 | | * FIRS | T LETT | TER IS D(O) | | | | |
| 345 | | * | | | | | | |
| 346 | 1 595 | DO | MCW | TDO,STMTYP | | | M M39 L94 | 28 |
| 347 | 1 602 | | В | CLASS2 | | 1602 | B T14 | 28 |
| | | | | | | | | |

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| SEQ PG LIN | LABEL | OP | OPERANDS | SFX CT | LOCN | INSTRUCTION T | YPE CARD |
| 348 | * | | | | | | |
| 349 350 | * THIR | RD CHAR | AACTER IS LEFT PARENTHESIS | | | | |
| 351 1 606 | LPAR3 | MCW | TIF,STMTYP | 7 | 1606 | M M38 L94 | 28 |
| 352 1 613 | | В | CLASS2 | 4 | 1613 | B T14 | 28 |
| 353 | * | | | | | | |
| 354 355 | * FIFT | TH CHAR | RACTER IS LEFT PARENTHESIS ASSUME COMPUTED GOTO | | | | |
| 356 1 617 | | MCW | TCGO,STMTYP | 7 | 1617 | M M37 L94 | 29 |
| 357 1 624 | DITHO | В | CLASS2 | | | B T14 | 29 |
| 358 | * | | | | | | |
| 359 | * FIRS | ST CHAR | RACTER IS G | | | | |
| 360 | * | | | | | | |
| 361 1 628 | GOTO | MCW | TGO,STMTYP | | | M M36 L94 | 29 |
| 362 1 635 363 | * | В | CLASS2 | 4 | 1635 | B T14 | 29 |
| 364 | * FTRS | т снав | ACTER IS P | | | | |
| 365 | * | or cinn | HCIBN 10 1 | | | | |
| 366 1 639 | PRINT | MCW | TPRINT, STMTYP | 7 | 1639 | M M35 L94 | 29 |
| 367 1 646 | | В | CLASS2 | 4 | 1646 | B T14 | 29 |
| 368 | * | | | | | | |
| 369 | * FIFT | TH CHAR | RACTER IS NUMERIC ASSUME IT'S READ | | | | |
| 370 371 1 650 | READ | MCW | TREAD, STMTYP | 7 | 1650 | м м34 ь94 | 30 |
| 372 1 657 | KEAD | В | CLASS2 | | | B T14 | 30 |
| 373 | * | _ | | _ | | | |
| 374 | * SIXT | TH CHAR | RACTER IS D ASSUME REWIND | | | | |
| 375 | * | | | | | | |
| 376 1 661 | RWD | MCW | TREW, STMTYP | | | M M33 L94 | 30 |
| 377 1 668 378 | * | В | CLASS2 | 4 | 1668 | B T14 | 30 |
| 379 | * ALL | DONE | | | | | |
| 380 | * | 20112 | | | | | |
| 381 1 672 | DONE | BSS | SNAPSH, C | 5 | 1672 | B 333 C | 30 |
| 382 1 677 | | SBR | LOADEX&3,1010 | | | н 796 10 | 30 |
| 383 1 684 | | | CLEARL&3,2599 | 7 | | H 710 N99 | 31 |
| 384 1 691 | | LCA B | SORTER, PHASID LOADNX | 7 | | L N30 110 B 700 | 31 31 |
| 385 1 698 386 1 702 | | DCW | #1 | | 1702 | B 700 | 31 |
| 387 | * | Den | π± | _ | 1702 | | 31 |
| 388 | STMTST | EQU | 2393 STATEMENT START | | 2393 | | |
| 389 | STMTYF | EQU | 2394 STATEMENT TYPE F FOR FORMAT | | 2394 | | |
| 390 | STMTSV | / EQU | 2397 | | 2397 | | |
| 391 | * | | AND HODY ADDIG | | | | |
| 392 393 | * CONS | STANTS | AND WORK AREAS | | | | |
| 393 | | ORG | 2398 | | | 2398 | |
| | STMTNC | | 001 | 3 | 2400 | -220 | 32 |
| 396 2 401 | | DCW | 1 | 1 | 2401 | | 32 |
| 397 2 404 | STMTPT | DCW | #3 STATEMENT POINTER | 3 | 2404 | | 32 |
| | | | | | | | |

| | | | | FORTRAN COMPILER | 2 SCANNER PHASE 03 | | | | | PAGE | 7 |
|-----|--------|--------|-----|-------------------|--|----------|--------|------|-------------------------------|-------|------|
| SEQ | PG LIN | LABEL | OP | OPERANDS | | | SFX CT | LOCN | INSTRUCTION | TYPE | CARD |
| 398 | 2 405 | CHAR | DCW | #1 CHARACTER BE | EING EXAMINED SECOND CHARACTER OF STATE PRIST CHARACTER OF STATEM SENSE SPELLED BACKWARD S | | 1 | 2405 | D M10 N50 B T14 N35 0 B | | 32 |
| 399 | 2 415 | WORD | DCW | #10 | | | 10 | 2415 | | | 32 |
| 400 | 2 420 | KQINUA | DC | @QINUA@ TEST S | ECOND CHARACTER OF STATE | MENT | 5 | 2420 | | | 32 |
| 401 | 2 424 | KBFCS | DC | @BFCS@ TEST F | IRST CHARACTER OF STATEM | ENT | 4 | 2424 | | | 32 |
| 402 | 2 430 | KFI | DCW | @ESNES%FI@ IF(S | ENSE SPELLED BACKWARD | | 8 | 2432 | | | 32 |
| 403 | 2 433 | TREW | DC | @Z@ STATEM | MENT CODE FOR REWIND | | 1 | 2433 | | | 32 |
| 404 | 2 434 | TREAD | DC | @L@ STATEM | IENT CODE FOR READ | | 1 | 2434 | | | 32 |
| 405 | 2 435 | TPRINT | DC | @P@ STATEM | MENT CODE FOR PRINT | | 1 | 2435 | | | 32 |
| 406 | 2 436 | TGO | DC | @G@ STATEM | MENT CODE FOR GOTO | | 1 | 2436 | | | 32 |
| 407 | 2 437 | TCGO | DC | @T@ STATEM | MENT CODE FOR COMPUTED GO | TO | 1 | 2437 | | | 33 |
| 408 | 2 438 | TIF | DC | @E@ STATEM | MENT CODE FOR IF | | 1 | 2438 | | | 33 |
| 409 | 2 439 | TDO | DC | @D@ STATEM | MENT CODE FOR DO | | 1 | 2439 | | | 33 |
| 410 | 2 440 | TSSW | DC | @W@ STATEM | MENT CODE FOR IF (SENSE | SWITCH | 1 | 2440 | | | 33 |
| 411 | 2 442 | INTDEF | DCW | 05 DEFAULT INTE | GER MODULUS | | 2 | 2442 | | | 33 |
| 412 | 2 444 | FLTDEF | DCW | 08 DEFAULT FLOA | TING POINT MANTISSA DIGI | TS | 2 | 2444 | | | 33 |
| 413 | 2 446 | INTMIN | DCW | 01 MINIMUM INTE | MENT CODE FOR DO MENT CODE FOR IF (SENSE MEGER MODULUS MOD AND MAX FP MANTISSA MOD AND MAX FP MANTISSA MING POINT MANTISSA DIGI | | 2 | 2446 | | | 33 |
| 414 | 2 448 | DIGMAX | DCW | 20 MAXIMUM INT | MOD AND MAX FP MANTISSA | | 2 | 2448 | | | 33 |
| 415 | 2 450 | FLTMIN | DCW | 02 MINIMUM FLOA | TING POINT MANTISSA DIGI | TS | 2 | 2450 | | | 34 |
| 416 | 2 460 | MODMSG | DCW | @MODULUS IS@ | | | 10 | 2460 | | | 34 |
| 417 | 2 471 | MANMSG | DCW | @MANTISSA IS@ | | | 11 | 2471 | | | 34 |
| 418 | 2 474 | KNSE | DCW | @ESN@ NSE (P | ART OF SENSELIGHT) SPELT | BACKWARD | 3 | 2474 | | | 34 |
| 419 | 2 475 | TSENSE | DCW | @J@ STATEM | PART OF SENSELIGHT) SPELT HENT CODE FOR SENSE LIGHT (PART OF ENDFILE) SPELT HENT CODE FOR END HENT CODE FOR ARITHMETIC HENT CODE FOR IF (SENSE | | 1 | 2475 | | | 34 |
| 420 | 2 480 | KDFILE | DCW | @ELIFD@ DFILE | (PART OF ENDFILE) SPELT | BACKWARD | 5 | 2480 | | | 34 |
| 421 | 2 481 | TSLASH | DCW | @/@ STATEM | MENT CODE FOR END | | 1 | 2481 | | | 34 |
| 422 | 2 482 | TARITH | DCW | @R@ STATEM | MENT CODE FOR ARITHMETIC | | 1 | 2482 | | | 35 |
| 423 | 2 483 | TSLITE | DCW | @K@ STATEM | MENT CODE FOR IF (SENSE | LIGHT | 1 | 2483 | | | 35 |
| 424 | 2 501 | MSG42 | DCW | @ERROR 42 - MODU | JLUS@ | | 18 | 2501 | | | 35 |
| 425 | 2 520 | MSG43 | DCW | @ERROR 43 - MANT | ISSA@ | | 19 | 2520 | | | 35 |
| 426 | 2 530 | SORTER | DCW | @SORTER ONE@ | | | 10 | 2530 | | | 36 |
| 427 | 2 535 | K9 | DCW | 9 | | V3M4 | 1 | 2531 | | | 36 |
| 428 | 2 535 | TESTW6 | DC | 6531 | | V3M4 | 4 | 2535 | | | 36 |
| 429 | 2 536 | NOTIF2 | MN | WORD-5,*&8 | | V3M4 | 7 | 2536 | D M10 N50 | | 36 |
| 430 | 2 543 | | BCE | CLASS2, TESTW6, 0 | READ TAPE? | V3M4 | 8 | 2543 | B T14 N35 0 | | 36 |
| 431 | 2 551 | | В | | WRITE TAPE? | V3M4 | 1 | 2551 | В | | 36 |
| 432 | 2 552 | | В | CLASS2,TESTW6,0 | READ INPUT TAPE? | V3M4 | 1 | 2552 | В | | 36 |
| 433 | 2 553 | | В | | WRITE OUTPUT TAPE? | V3M4 | 1 | 2553 | В | | 36 |
| 434 | 2 554 | | MN | K9,STMTYP | USE CODE 9 | V3M4 | 7 | 2554 | D N31 L94 | | 37 |
| 435 | 2 561 | | BIN | CLASS2, | | V3M4 | 5 | 2561 | B T14 | | 37 |
| 436 | | | ORG | 2600 | READ TAPE? WRITE TAPE? READ INPUT TAPE? WRITE OUTPUT TAPE? USE CODE 9 | | | | B B B D N31 L94 B T14 2600 | | |
| 437 | 2 600 | GMWM | DCW | @}@ | | | 1 | 2600 | | GMARK | 38 |
| 438 | | | EX | BEGINN | | | | | в 838 | | 39 |
| 439 | | | END | | | | | | / 000 080 | | |
| | | | | | | | | | | | |

| phase-3.2.asc | Tue Jul 15 0 | 0:10:50 2008 | 8 |
|---------------|--------------------|------------------|---|
| | FORTRAN COMPILER S | SCANNER PHASE 03 | |

| SYMBOL | ADDRESS |
|--------|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|---------|
| BADMAN | 1495 | BADMOD | 1469 | BADRET | 938 | BEGINN | 838 | BFCS1 | 1237 | C1410 | 695 | CHAR | 2405 |
| CHKLB2 | 1059 | CHKLBL | 1043 | CKBLNK | 1337 | CKWORD | 1173 | CLASS2 | 1314 | CLASSD | 1309 | CLEARL | 707 |
| CONDNS | 693 | CORCHK | 979 | DIGMAX | 2448 | DO | 1595 | DONE | 1672 | ENDCHK | 1089 | EQ | 1119 |
| EQTEST | 1102 | F | 1397 | FDEF | 883 | FLTDEF | 2444 | FLTMIN | 2450 | FMTSW | 696 | FSPEC | 890 |
| GMWM | 2600 | GOTO | 1628 | IDEF | 864 | IMOD | 690 | INTDEF | 2442 | INTMIN | 2446 | ISPEC | 871 |
| K1 | 2401 | К9 | 2531 | KBFCS | 2424 | KDFILE | 2480 | KFI | 2432 | KNSE | 2474 | KQINUA | 2420 |
| LOADEX | 793 | LOADNX | 700 | LPAR2 | 1385 | LPAR3 | 1606 | LPAR5 | 1617 | LPAREN | 1349 | MANCHK | 914 |
| MANMSG | 2471 | MANTIS | 692 | MODMSG | 2460 | MSG42 | 2501 | MSG43 | 2520 | MVBACK | 1318 | MVSTMT | 996 |
| N2 | 1290 | NOTIF | 1521 | NOTIF2 | 2536 | OTHER | 1422 | PARAM | 699 | PHASID | 110 | PRINT | 1639 |
| PWORD | 685 | QINUA2 | 1271 | READ | 1650 | RPAREN | 1369 | RWD | 1661 | SENSE | 1260 | SLITE | 1458 |
| SNAPSH | 333 | SNAPSW | 694 | SORTER | 2530 | STMTNO | 2400 | STMTPT | 2404 | STMTST | 2393 | STMTSV | 2397 |
| STMTYP | 2394 | STSTMT | 1075 | SVCHAR | 1134 | TARITH | 2482 | TCGO | 2437 | TDO | 2439 | TESTW6 | 2535 |
| TGO | 2436 | TIF | 2438 | TOPCOR | 688 | TPRINT | 2435 | TQINUA | 1217 | TREAD | 2434 | TREW | 2433 |
| TSENSE | 2475 | TSLASH | 2481 | TSLITE | 2483 | TSSW | 2440 | WORD | 2415 | X1 | 89 | X2 | 94 |
| х3 | 99 | | | | | | | | | | | | |

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