

Table 24 Portion of the **equivellipse.NEW** file generated automatically by "GENTEXT" that corresponds to the GENOPT user's input listed in Table 15. This list forms part of the complete equivellipse.NEW file that appears in Table a10 of the appendix. The complete equivellipse.NEW file exists when the GENOPT user has completed the interactive "GENTEXT" session. This FORTRAN fragment forms part the FORTRAN library, begin.new, in particular, part of SUBROUTINE INPUT. This table is analogous to Table 13.

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      IF (JSKNBK1.EQ.0) GO TO 166
      DO 165 J=1,JSKNBK1
      IF (JSKNBK1.GT.1) THEN
        WRITE(6,'(A)') '      '
        WRITE(6,'(A)')
1      ' DEFINITION OF THE COLUMN INDEX OF THE ARRAY, STFBK1 = '
        WRITE(6,'(A)')
1      ' number of regions for computing behavior'
        WRITE(6,'(A)') '      '
        CALL CONVR2(J,CJ)
        WRITE(6,'(A,A,A)')
1      ' INPUT FOR COL. NO. ',CJ,' OF THE ARRAY STFBK1'
        IF (IPROMP.GT.1) THEN
          WRITE(IFILE8,'(A)') '      '
          WRITE(IFILE8,'(A)')
1      ' DEFINITION OF THE COLUMN INDEX OF THE ARRAY, STFBK1 = '
          WRITE(IFILE8,'(A)')
1      ' number of regions for computing behavior'
          WRITE(IFILE8,'(A)') '      '
          WRITE(IFILE8,'(A,A,A)')
1      ' INPUT FOR COL. NO. ',CJ,' OF THE ARRAY STFBK1'
        ENDIF
      ENDIF
      WRITE(6,'(A)') '      '
      WRITE(6,'(A)')
1      ' DEFINITION OF THE ROW INDEX OF THE ARRAY, STFBK1 = '
      WRITE(6,'(A)')
1      ' Number of load cases (number of environments) '
      WRITE(6,'(A)') '      '
      IF (IPROMP.GT.1) THEN
        WRITE(IFILE8,'(A)') '      '
        WRITE(IFILE8,'(A)')
1      ' DEFINITION OF THE ROW INDEX OF THE ARRAY, STFBK1 = '
        WRITE(IFILE8,'(A)')
1      ' Number of load cases (number of environments) '
        WRITE(IFILE8,'(A)') '      '
      ENDIF
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      IF (NCASES .EQ.0) GO TO 166
      DO 165 I=1,NCASES
      REWIND IFILE
      CALL DATUM(IFILE,165,0,0,
1      INT,STFBK1(I,J),CHARAC,IOUT,I,J,2,IPROMP)
      PHRASE =
1 'buckling load factor, isogrid member, mode 1: STFBK1'
      CALL BLANKX(PHRASE,IBLANK)
      CALL GETVAR(I,J, STFBK1(I,J), ICAR, CAR,WORDB)
165 CONTINUE
166 CONTINUE
      IF (JSKNBK1.EQ.0) GO TO 171
      DO 170 J=1,JSKNBK1
      IF (JSKNBK1.GT.1) THEN
        WRITE(6,'(A)') ' '
        WRITE(6,'(A)') '
1 ' DEFINITION OF THE COLUMN INDEX OF THE ARRAY, STFBK1A = '
        WRITE(6,'(A)') '
1 ' number of regions for computing behavior'
        WRITE(6,'(A)') ' '
        CALL CONVR2(J,CJ)
        WRITE(6,'(A,A,A)') '
1 ' INPUT FOR COL. NO. ',CJ,' OF THE ARRAY STFBK1A'
        IF (IPROMP.GT.1) THEN
          WRITE(IFILE8,'(A)') ' '
          WRITE(IFILE8,'(A)') '
1 ' DEFINITION OF THE COLUMN INDEX OF THE ARRAY, STFBK1A = '
          WRITE(IFILE8,'(A)') '
1 ' number of regions for computing behavior'
          WRITE(IFILE8,'(A)') ' '
          WRITE(IFILE8,'(A,A,A)') '
1 ' INPUT FOR COL. NO. ',CJ,' OF THE ARRAY STFBK1A'
        ENDIF
      ENDIF
      WRITE(6,'(A)') ' '
      WRITE(6,'(A)') '
1 ' DEFINITION OF THE ROW INDEX OF THE ARRAY, STFBK1A = '
      WRITE(6,'(A)') '
1 ' Number of load cases (number of environments) '
      WRITE(6,'(A)') ' '
      IF (IPROMP.GT.1) THEN
        WRITE(IFILE8,'(A)') ' '
        WRITE(IFILE8,'(A)') '
1 ' DEFINITION OF THE ROW INDEX OF THE ARRAY, STFBK1A = '
        WRITE(IFILE8,'(A)') '
1 ' Number of load cases (number of environments) '
        WRITE(IFILE8,'(A)') ' '
      ENDIF

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      IF (NCASES .EQ.0) GO TO 171
      DO 170 I=1,NCASES
      REWIND IFILE
      CALL DATUM(IFILE,170,1,1,
1      INT,STFBK1A(I,J),CHARAC,IOUT,I,J,2,IPROMP)
      CALL GETVAR(I,J,STFBK1A(I,J),IALLOW,ALLOW,WORDA)
170 CONTINUE
171 CONTINUE
      IF (JSKNBK1.EQ.0) GO TO 176
      DO 175 J=1,JSKNBK1
      IF (JSKNBK1.GT.1) THEN
        WRITE(6,'(A)')' '
        WRITE(6,'(A)')
1      ' DEFINITION OF THE COLUMN INDEX OF THE ARRAY, STFBK1F = '
        WRITE(6,'(A)')
1      ' number of regions for computing behavior'
        WRITE(6,'(A)')' '
        CALL CONVR2(J,CJ)
        WRITE(6,'(A,A,A)')
1      ' INPUT FOR COL. NO. ',CJ,' OF THE ARRAY STFBK1F'
        IF (IPROMP.GT.1) THEN
          WRITE(IFILE8,'(A)')' '
          WRITE(IFILE8,'(A)')
1      ' DEFINITION OF THE COLUMN INDEX OF THE ARRAY, STFBK1F = '
          WRITE(IFILE8,'(A)')
1      ' number of regions for computing behavior'
          WRITE(IFILE8,'(A)')' '
          WRITE(IFILE8,'(A,A,A)')
1      ' INPUT FOR COL. NO. ',CJ,' OF THE ARRAY STFBK1F'
        ENDIF
      ENDIF
      WRITE(6,'(A)')' '
      WRITE(6,'(A)')
1      ' DEFINITION OF THE ROW INDEX OF THE ARRAY, STFBK1F = '
      WRITE(6,'(A)')
1      ' Number of load cases (number of environments) '
      WRITE(6,'(A)')' '
      IF (IPROMP.GT.1) THEN
        WRITE(IFILE8,'(A)')' '
        WRITE(IFILE8,'(A)')
1      ' DEFINITION OF THE ROW INDEX OF THE ARRAY, STFBK1F = '
        WRITE(IFILE8,'(A)')
1      ' Number of load cases (number of environments) '
        WRITE(IFILE8,'(A)')' '
      ENDIF
      IF (NCASES .EQ.0) GO TO 176
      DO 175 I=1,NCASES
      REWIND IFILE

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      CALL DATUM(IFILE,175,1,1,
1      INT,STFBK1F(I,J),CHARAC,IOUT,I,J,2,IPROMP)
      CALL GETVAR(I,J,STFBK1F(I,J),IFACT,FSAFE,WORDS)
175 CONTINUE
176 CONTINUE
      IF (JSKNBK1.EQ.0) GO TO 181
      DO 180 J=1,JSKNBK1
      IF (JSKNBK1.GT.1) THEN
        WRITE(6,'(A)') ' '
        WRITE(6,'(A)')
1      ' DEFINITION OF THE COLUMN INDEX OF THE ARRAY, SKNST1 = '
        WRITE(6,'(A)')
1      ' number of regions for computing behavior'
        WRITE(6,'(A)') ' '
        CALL CONVR2(J,CJ)
        WRITE(6,'(A,A,A)')
1      ' INPUT FOR COL. NO. ',CJ,' OF THE ARRAY SKNST1'
        IF (IPROMP.GT.1) THEN
          WRITE(IFILE8,'(A)') ' '
          WRITE(IFILE8,'(A)')
1      ' DEFINITION OF THE COLUMN INDEX OF THE ARRAY, SKNST1 = '
          WRITE(IFILE8,'(A)')
1      ' number of regions for computing behavior'
          WRITE(IFILE8,'(A)') ' '
          WRITE(IFILE8,'(A,A,A)')
1      ' INPUT FOR COL. NO. ',CJ,' OF THE ARRAY SKNST1'
          ENDIF
        ENDIF
        WRITE(6,'(A)') ' '
        WRITE(6,'(A)')
1      ' DEFINITION OF THE ROW INDEX OF THE ARRAY, SKNST1 = '
        WRITE(6,'(A)')
1      ' Number of load cases (number of environments) '
        WRITE(6,'(A)') ' '
        IF (IPROMP.GT.1) THEN
          WRITE(IFILE8,'(A)') ' '
          WRITE(IFILE8,'(A)')
1      ' DEFINITION OF THE ROW INDEX OF THE ARRAY, SKNST1 = '
          WRITE(IFILE8,'(A)')
1      ' Number of load cases (number of environments) '
          WRITE(IFILE8,'(A)') ' '
        ENDIF
        IF (NCASES .EQ.0) GO TO 181
        DO 180 I=1,NCASES
        REWIND IFILE
        CALL DATUM(IFILE,180,0,0,
1      INT,SKNST1(I,J),CHARAC,IOUT,I,J,2,IPROMP)
        PHRASE =

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1 'maximum stress in the shell skin, mode 1: SKNST1'
  CALL BLANKX(PHASE,IBLANK)
  CALL GETVAR(I,J, SKNST1(I,J), ICAR, CAR,WORDB)
180 CONTINUE
181 CONTINUE
  IF (JSKNBK1.EQ.0) GO TO 186
  DO 185 J=1,JSKNBK1
  IF (JSKNBK1.GT.1) THEN
    WRITE(6,'(A)') ' '
    WRITE(6,'(A)')
  1 ' DEFINITION OF THE COLUMN INDEX OF THE ARRAY, SKNST1A = '
    WRITE(6,'(A)')
  1 ' number of regions for computing behavior'
    WRITE(6,'(A)') ' '
    CALL CONVR2(J,CJ)
    WRITE(6,'(A,A,A)')
  1 ' INPUT FOR COL. NO. ',CJ,' OF THE ARRAY SKNST1A'
    IF (IPROMP.GT.1) THEN
      WRITE(IFILE8,'(A)') ' '
      WRITE(IFILE8,'(A)')
  1 ' DEFINITION OF THE COLUMN INDEX OF THE ARRAY, SKNST1A = '
      WRITE(IFILE8,'(A)')
  1 ' number of regions for computing behavior'
      WRITE(IFILE8,'(A)') ' '
      WRITE(IFILE8,'(A,A,A)')
  1 ' INPUT FOR COL. NO. ',CJ,' OF THE ARRAY SKNST1A'
      ENDIF
    ENDIF
    WRITE(6,'(A)') ' '
    WRITE(6,'(A)')
  1 ' DEFINITION OF THE ROW INDEX OF THE ARRAY, SKNST1A = '
    WRITE(6,'(A)')
  1 ' Number of load cases (number of environments) '
    WRITE(6,'(A)') ' '
    IF (IPROMP.GT.1) THEN
      WRITE(IFILE8,'(A)') ' '
      WRITE(IFILE8,'(A)')
  1 ' DEFINITION OF THE ROW INDEX OF THE ARRAY, SKNST1A = '
      WRITE(IFILE8,'(A)')
  1 ' Number of load cases (number of environments) '
      WRITE(IFILE8,'(A)') ' '
    ENDIF
    IF (NCASES .EQ.0) GO TO 186
    DO 185 I=1,NCASES
    REWIND IFILE
    CALL DATUM(IFILE,185,1,1,
  1 INT,SKNST1A(I,J),CHARAC,IOUT,I,J,2,IPROMP)
    CALL GETVAR(I,J, SKNST1A(I,J),IALLOW,ALLOW,WORDA)

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185 CONTINUE
186 CONTINUE
    IF (JSKNBK1.EQ.0) GO TO 191
    DO 190 J=1,JSKNBK1
    IF (JSKNBK1.GT.1) THEN
        WRITE(6,'(A)') ' '
        WRITE(6,'(A)')
1      ' DEFINITION OF THE COLUMN INDEX OF THE ARRAY, SKNST1F = '
        WRITE(6,'(A)')
1      ' number of regions for computing behavior'
        WRITE(6,'(A)') ' '
        CALL CONVR2(J,CJ)
        WRITE(6,'(A,A,A)')
1      ' INPUT FOR COL. NO. ',CJ,' OF THE ARRAY SKNST1F'
        IF (IPROMP.GT.1) THEN
            WRITE(IFILE8,'(A)') ' '
            WRITE(IFILE8,'(A)')
1          ' DEFINITION OF THE COLUMN INDEX OF THE ARRAY, SKNST1F = '
            WRITE(IFILE8,'(A)')
1          ' number of regions for computing behavior'
            WRITE(IFILE8,'(A)') ' '
            WRITE(IFILE8,'(A,A,A)')
1          ' INPUT FOR COL. NO. ',CJ,' OF THE ARRAY SKNST1F'
            ENDIF
        ENDIF
        WRITE(6,'(A)') ' '
        WRITE(6,'(A)')
1      ' DEFINITION OF THE ROW INDEX OF THE ARRAY, SKNST1F = '
        WRITE(6,'(A)')
1      ' Number of load cases (number of environments) '
        WRITE(6,'(A)') ' '
        IF (IPROMP.GT.1) THEN
            WRITE(IFILE8,'(A)') ' '
            WRITE(IFILE8,'(A)')
1          ' DEFINITION OF THE ROW INDEX OF THE ARRAY, SKNST1F = '
            WRITE(IFILE8,'(A)')
1          ' Number of load cases (number of environments) '
            WRITE(IFILE8,'(A)') ' '
        ENDIF
        IF (NCASES .EQ.0) GO TO 191
        DO 190 I=1,NCASES
        REWIND IFILE
        CALL DATUM(IFILE,190,1,1,
1          INT,SKNST1F(I,J),CHARAC,IOUT,I,J,2,IPROMP)
        CALL GETVAR(I,J, SKNST1F(I,J), IFACT,FSAFE,WORDS)
190 CONTINUE
191 CONTINUE
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