

Table A10 List of the file, **equivellipse.NEW**.

This is the completed file after the GENOPT user's completion of the "GENTEXT" interactive session. The FORTRAN statements in this file become part of the begin.new library, in particular, part of SUBROUTINE INPUT. GENOPT does this automatically.

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      CALL DATUM(IFILE,  5,0,0,   INT,  REALL,CHARAC,IOUT,0,0,0,IPROMP)
      CALL DATUM(IFILE, 10,1,2,npoint  , REALL,CHARAC,IOUT,0,0,0,IPROMP)
C
      WRITE(6,'(A)')'      '
      WRITE(6,'(A)')
1  ' DEFINITION OF THE ROW INDEX OF THE ARRAY, xinput = '
      WRITE(6,'(A)')
1  '  vector element number for xinput'
      WRITE(6,'(A)')'      '
      IF (IPROMP.GT.1) THEN
          WRITE(IFILE8,'(A)')'      '
          WRITE(IFILE8,'(A)')
1  ' DEFINITION OF THE ROW INDEX OF THE ARRAY, xinput = '
          WRITE(IFILE8,'(A)')
1  '  vector element number for xinput'
          WRITE(IFILE8,'(A)')'      '
      ENDIF
      REWIND IFILE
      CALL DATUM(IFILE, 15,1,1,Ixinput ,REALL,CHARAC,IOUT,0,0,0,IPROMP)
      IF (Ixinput .EQ.0) GO TO 16
      DO 15 I=1,Ixinput
      REWIND IFILE
      CALL DATUM(IFILE, 20,1,2,
1      INT,xinput(I),CHARAC,  IOUT,I,0,1,IPROMP)
      CALL GETVAR(I,0,      xinput(I),  IPAR,  PAR,WORDP)
15 CONTINUE
16 CONTINUE
      CALL DATUM(IFILE, 25,1,2,   INT,ainput  ,CHARAC,IOUT,0,0,0,IPROMP)
      CALL GETVAR(0,0,      ainput  ,  IPAR,  PAR,WORDP)
      CALL DATUM(IFILE, 30,1,2,   INT,binput  ,CHARAC,IOUT,0,0,0,IPROMP)
      CALL GETVAR(0,0,      binput  ,  IPAR,  PAR,WORDP)
      CALL DATUM(IFILE, 35,1,2,nodes  , REALL,CHARAC,IOUT,0,0,0,IPROMP)
      CALL DATUM(IFILE, 40,1,2,   INT,xlimit  ,CHARAC,IOUT,0,0,0,IPROMP)
      CALL GETVAR(0,0,      xlimit  ,  IPAR,  PAR,WORDP)
C
      WRITE(6,'(A)')'      '
      WRITE(6,'(A)')
1  ' DEFINITION OF THE ROW INDEX OF THE ARRAY, THKSKN = '
      WRITE(6,'(A)')
1  '  vector element number for xinput'
      WRITE(6,'(A)')'      '
      IF (IPROMP.GT.1) THEN
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        WRITE(IFILE8,'(A)')'      '
        WRITE(IFILE8,'(A)')
1  ' DEFINITION OF THE ROW INDEX OF THE ARRAY, THKSKN = '
        WRITE(IFILE8,'(A)')
1  '  vector element number for xinput'
        WRITE(IFILE8,'(A)')'      '
    ENDIF
    IF (Ixinpu .EQ.0) GO TO 46
    DO 45 I=1,Ixinpu
    REWIND IFILE
    CALL DATUM(IFILE, 45,1,2,
1      INT,THKSKN(I),CHARAC,  IOUT,I,0,1,IPROMP)
    CALL GETVAR(I,0,      THKSKN(I),  IVAR,  VAR,WORDV)
45 CONTINUE
46 CONTINUE

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C

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        WRITE(6,'(A)')'      '
        WRITE(6,'(A)')
1  ' DEFINITION OF THE ROW INDEX OF THE ARRAY, HIGHST = '
        WRITE(6,'(A)')
1  '  vector element number for xinput'
        WRITE(6,'(A)')'      '
    IF (IPROMP.GT.1) THEN
        WRITE(IFILE8,'(A)')'      '
        WRITE(IFILE8,'(A)')
1  ' DEFINITION OF THE ROW INDEX OF THE ARRAY, HIGHST = '
        WRITE(IFILE8,'(A)')
1  '  vector element number for xinput'
        WRITE(IFILE8,'(A)')'      '
    ENDIF
    IF (Ixinpu .EQ.0) GO TO 51
    DO 50 I=1,Ixinpu
    REWIND IFILE
    CALL DATUM(IFILE, 50,1,2,
1      INT,HIGHST(I),CHARAC,  IOUT,I,0,1,IPROMP)
    CALL GETVAR(I,0,      HIGHST(I),  IVAR,  VAR,WORDV)
50 CONTINUE
51 CONTINUE
    CALL DATUM(IFILE, 55,1,2,  INT,SPACNG  ,CHARAC,IOUT,0,0,0,IPROMP)
    CALL GETVAR(0,0,      SPACNG  ,  IVAR,  VAR,WORDV)
    CALL DATUM(IFILE, 60,1,2,  INT,THSTIF  ,CHARAC,IOUT,0,0,0,IPROMP)
    CALL GETVAR(0,0,      THSTIF  ,  IVAR,  VAR,WORDV)
    CALL DATUM(IFILE, 65,1,1,  INT,THKCYL  ,CHARAC,IOUT,0,0,0,IPROMP)
    CALL GETVAR(0,0,      THKCYL  ,  IPAR,  PAR,WORDP)
    CALL DATUM(IFILE, 70,1,1,  INT,RADCYL  ,CHARAC,IOUT,0,0,0,IPROMP)
    CALL GETVAR(0,0,      RADCYL  ,  IPAR,  PAR,WORDP)
    CALL DATUM(IFILE, 75,1,1,  INT,LENCYL  ,CHARAC,IOUT,0,0,0,IPROMP)
    CALL GETVAR(0,0,      LENCYL  ,  IPAR,  PAR,WORDP)

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CALL DATUM(IFILE, 80,1,2, INT,WIMP ,CHARAC,IOUT,0,0,0,IPROMP)
CALL GETVAR(0,0, WIMP , IPAR, PAR,WORDP)
CALL DATUM(IFILE, 85,1,1, INT,EMATL ,CHARAC,IOUT,0,0,0,IPROMP)
CALL GETVAR(0,0, EMATL , IPAR, PAR,WORDP)
CALL DATUM(IFILE, 90,1,1, INT,NUMATL ,CHARAC,IOUT,0,0,0,IPROMP)
CALL GETVAR(0,0, NUMATL , IPAR, PAR,WORDP)
CALL DATUM(IFILE, 95,1,2, INT,DNMATL ,CHARAC,IOUT,0,0,0,IPROMP)
CALL GETVAR(0,0, DNMATL , IPAR, PAR,WORDP)
CALL DATUM(IFILE,100,1,2,IMODE , REALL,CHARAC,IOUT,0,0,0,IPROMP)
MCASES = 1
CALL DATUM(IFILE,105,1,1,NCASES ,REALL,CHARAC,IOUT,0,0,0,IPROMP)
IF (NCASES .EQ.0) GO TO 111
DO 110 I=1,NCASES
REWIND IFILE
CALL DATUM(IFILE,110,1,1,
1 INT,PRESS(I),CHARAC, IOUT,I,0,1,IPROMP)
CALL GETVAR(I,0, PRESS(I), ILAR, FLAR,WORDF)
110 CONTINUE
111 CONTINUE

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C

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WRITE(6,'(A)') ' '
WRITE(6,'(A)')
1 ' DEFINITION OF THE ROW INDEX OF THE ARRAY, CLAPS1 = '
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, CLAPS1 = '
WRITE(IFILE8,'(A)')
1 ' Number of load cases (number of environments) '
WRITE(IFILE8,'(A)') ' '
ENDIF
IF (NCASES .EQ.0) GO TO 116
DO 115 I=1,NCASES
REWIND IFILE
CALL DATUM(IFILE,115,0,0,
1 INT,CLAPS1(I),CHARAC, IOUT,I,0,1,IPROMP)
PHRASE =
1 'collapse pressure with imperfection mode 1: CLAPS1'
CALL BLANKX(PHRASE,IBLANK)
CALL GETVAR(I,0, CLAPS1(I), ICAR, CAR,WORDB)
115 CONTINUE
116 CONTINUE

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WRITE(6,'(A)') ' '
WRITE(6,'(A)')

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1 ' DEFINITION OF THE ROW INDEX OF THE ARRAY, CLAPS1A = '
  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, CLAPS1A = '
  WRITE(IFILE8,'(A)')
1 ' Number of load cases (number of environments) '
  WRITE(IFILE8,'(A)')
  ENDIF
  IF (NCASES .EQ.0) GO TO 121
  DO 120 I=1,NCASES
  REWIND IFILE
  CALL DATUM(IFILE,120,1,1,
1 INT,CLAPS1A(I),CHARAC, IOUT,I,0,1,IPROMP)
  CALL GETVAR(I,0, CLAPS1A(I),IALLOW,ALLOW,WORDA)
120 CONTINUE
121 CONTINUE

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  WRITE(6,'(A)')
  WRITE(6,'(A)')
1 ' DEFINITION OF THE ROW INDEX OF THE ARRAY, CLAPS1F = '
  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, CLAPS1F = '
  WRITE(IFILE8,'(A)')
1 ' Number of load cases (number of environments) '
  WRITE(IFILE8,'(A)')
  ENDIF
  IF (NCASES .EQ.0) GO TO 126
  DO 125 I=1,NCASES
  REWIND IFILE
  CALL DATUM(IFILE,125,1,1,
1 INT,CLAPS1F(I),CHARAC, IOUT,I,0,1,IPROMP)
  CALL GETVAR(I,0, CLAPS1F(I), IFACT,FSAFE,WORDS)
125 CONTINUE
126 CONTINUE

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  WRITE(6,'(A)')
  WRITE(6,'(A)')
1 ' DEFINITION OF THE ROW INDEX OF THE ARRAY, GENBK1 = '
  WRITE(6,'(A)')

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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, GENBK1 = '
    WRITE(IFILE8,'(A)')
1 ' Number of load cases (number of environments) '
    WRITE(IFILE8,'(A)')' '
ENDIF
IF (NCASES .EQ.0) GO TO 131
DO 130 I=1,NCASES
REWIND IFILE
CALL DATUM(IFILE,130,0,0,
1 INT,GENBK1(I),CHARAC, IOUT,I,0,1,IPROMP)
PHRASE =
1 'general buckling load factor, mode 1: GENBK1'
CALL BLANKX(PHRASE,IBLANK)
CALL GETVAR(I,0, GENBK1(I), ICAR, CAR,WORDB)
130 CONTINUE
131 CONTINUE

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C

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    WRITE(6,'(A)')' '
    WRITE(6,'(A)')
1 ' DEFINITION OF THE ROW INDEX OF THE ARRAY, GENBK1A = '
    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, GENBK1A = '
        WRITE(IFILE8,'(A)')
1 ' Number of load cases (number of environments) '
        WRITE(IFILE8,'(A)')' '
    ENDIF
    IF (NCASES .EQ.0) GO TO 136
    DO 135 I=1,NCASES
    REWIND IFILE
    CALL DATUM(IFILE,135,1,2,
1 INT,GENBK1A(I),CHARAC, IOUT,I,0,1,IPROMP)
    CALL GETVAR(I,0, GENBK1A(I), IALLOW,ALLOW,WORDA)
135 CONTINUE
136 CONTINUE

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    WRITE(6,'(A)')' '
    WRITE(6,'(A)')
1 ' DEFINITION OF THE ROW INDEX OF THE ARRAY, GENBK1F = '

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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, GENBK1F = '
    WRITE(IFILE8,'(A)')
1 ' Number of load cases (number of environments) '
    WRITE(IFILE8,'(A)')' '
ENDIF
IF (NCASES .EQ.0) GO TO 141
DO 140 I=1,NCASES
REWIND IFILE
CALL DATUM(IFILE,140,1,2,
1 INT,GENBK1F(I),CHARAC, IOUT,I,0,1,IPROMP)
CALL GETVAR(I,0, GENBK1F(I), IFACT,FSAFE,WORDS)
140 CONTINUE
141 CONTINUE
WRITE(6,'(A)')' '
WRITE(6,'(A)')
1 ' DEFINITION OF THE COLUMN INDEX OF THE ARRAY, SKNBK1 = '
WRITE(6,'(A)')
1 ' number of regions for computing behavior'
WRITE(6,'(A)')' '
REWIND IFILE
CALL DATUM(IFILE,145,1,1,JSKNBK1,REALL,CHARAC,IOUT,0,0,0,IPROMP)
C
IF (JSKNBK1.EQ.0) GO TO 151
DO 150 J=1,JSKNBK1
IF (JSKNBK1.GT.1) THEN
    WRITE(6,'(A)')' '
    WRITE(6,'(A)')
1 ' DEFINITION OF THE COLUMN INDEX OF THE ARRAY, SKNBK1 = '
    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 SKNBK1'
    IF (IPROMP.GT.1) THEN
        WRITE(IFILE8,'(A)')' '
        WRITE(IFILE8,'(A)')
1 ' DEFINITION OF THE COLUMN INDEX OF THE ARRAY, SKNBK1 = '
        WRITE(IFILE8,'(A)')
1 ' number of regions for computing behavior'
        WRITE(IFILE8,'(A)')' '
        WRITE(IFILE8,'(A,A,A)')

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1 ' INPUT FOR COL. NO. ',CJ,' OF THE ARRAY SKNBK1'
  ENDIF
ENDIF
WRITE(6,'(A)')' '
WRITE(6,'(A)')
1 ' DEFINITION OF THE ROW INDEX OF THE ARRAY, SKNBK1 = '
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, SKNBK1 = '
WRITE(IFILE8,'(A)')
1 ' Number of load cases (number of environments) '
WRITE(IFILE8,'(A)')' '
ENDIF
IF (NCASES .EQ.0) GO TO 151
DO 150 I=1,NCASES
REWIND IFILE
CALL DATUM(IFILE,150,0,0,
1 INT,SKNBK1(I,J),CHARAC,IOUT,I,J,2,IPROMP)
PHRASE =
1 'local skin buckling load factor, mode 1: SKNBK1'
CALL BLANKX(PHRASE,IBLANK)
CALL GETVAR(I,J, SKNBK1(I,J), ICAR, CAR,WORDB)
150 CONTINUE
151 CONTINUE

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IF (JSKNBK1.EQ.0) GO TO 156
DO 155 J=1,JSKNBK1
IF (JSKNBK1.GT.1) THEN
  WRITE(6,'(A)')' '
  WRITE(6,'(A)')
1 ' DEFINITION OF THE COLUMN INDEX OF THE ARRAY, SKNBK1A = '
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 SKNBK1A'
IF (IPROMP.GT.1) THEN
  WRITE(IFILE8,'(A)')' '
  WRITE(IFILE8,'(A)')
1 ' DEFINITION OF THE COLUMN INDEX OF THE ARRAY, SKNBK1A = '
WRITE(IFILE8,'(A)')
1 ' number of regions for computing behavior'
WRITE(IFILE8,'(A)')' '

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        WRITE(IFILE8,'(A,A,A)')
1 '    INPUT FOR COL. NO. ',CJ,' OF THE ARRAY SKNBK1A'
    ENDIF
ENDIF
WRITE(6,'(A)')' '
WRITE(6,'(A)')' '
1 ' DEFINITION OF THE ROW INDEX OF THE ARRAY, SKNBK1A = '
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, SKNBK1A = '
WRITE(IFILE8,'(A)')' '
1 ' Number of load cases (number of environments) '
WRITE(IFILE8,'(A)')' '
ENDIF
IF (NCASES .EQ.0) GO TO 156
DO 155 I=1,NCASES
REWIND IFILE
CALL DATUM(IFILE,155,1,1,
1 INT,SKNBK1A(I,J),CHARAC,IOUT,I,J,2,IPROMP)
CALL GETVAR(I,J, SKNBK1A(I,J),IALLOW,ALLOW,WORDA)
155 CONTINUE
156 CONTINUE

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IF (JSKNBK1.EQ.0) GO TO 161
DO 160 J=1,JSKNBK1
IF (JSKNBK1.GT.1) THEN
    WRITE(6,'(A)')' '
    WRITE(6,'(A)')' '
1 ' DEFINITION OF THE COLUMN INDEX OF THE ARRAY, SKNBK1F = '
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 SKNBK1F'
IF (IPROMP.GT.1) THEN
    WRITE(IFILE8,'(A)')' '
    WRITE(IFILE8,'(A)')' '
1 ' DEFINITION OF THE COLUMN INDEX OF THE ARRAY, SKNBK1F = '
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 SKNBK1F'

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        ENDIF
ENDIF
WRITE(6, '(A)') ' '
WRITE(6, '(A)')
1 ' DEFINITION OF THE ROW INDEX OF THE ARRAY, SKNBK1F = '
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, SKNBK1F = '
WRITE(IFILE8, '(A)')
1 ' Number of load cases (number of environments) '
WRITE(IFILE8, '(A)') ' '
ENDIF
IF (NCASES .EQ.0) GO TO 161
DO 160 I=1, NCASES
REWIND IFILE
CALL DATUM(IFILE, 160, 1, 1,
1 INT, SKNBK1F(I, J), CHARAC, IOUT, I, J, 2, IPROMP)
CALL GETVAR(I, J, SKNBK1F(I, J), IFACT, FSAFE, WORDS)
160 CONTINUE
161 CONTINUE

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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

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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
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

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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

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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
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

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C

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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)')'    '

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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
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

```

C

```

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 =
1 'maximum stress in the shell skin, mode 1: SKNST1'
CALL BLANKX(PHRASE,IBLANK)
CALL GETVAR(I,J, SKNST1(I,J), ICAR, CAR,WORDB)
180 CONTINUE
181 CONTINUE

```

C

```

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)
185 CONTINUE
186 CONTINUE

```

C

```

  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

```

C

```

IF (JSKNBK1.EQ.0) GO TO 196
DO 195 J=1, JSKNBK1
IF (JSKNBK1.GT.1) THEN
    WRITE(6, '(A)') ' '
    WRITE(6, '(A)')
1 ' DEFINITION OF THE COLUMN INDEX OF THE ARRAY, STFST1 = '
    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 STFST1'
    IF (IPROMP.GT.1) THEN
        WRITE(IFILE8, '(A)') ' '
        WRITE(IFILE8, '(A)')
1 ' DEFINITION OF THE COLUMN INDEX OF THE ARRAY, STFST1 = '
        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 STFST1'
    ENDIF
ENDIF
WRITE(6, '(A)') ' '
WRITE(6, '(A)')
1 ' DEFINITION OF THE ROW INDEX OF THE ARRAY, STFST1 = '
    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, STFST1 = '
        WRITE(IFILE8,'(A)')
1 ' Number of load cases (number of environments) '
        WRITE(IFILE8,'(A)') '      '
      ENDIF
      IF (NCASES .EQ.0) GO TO 196
      DO 195 I=1,NCASES
      REWIND IFILE
      CALL DATUM(IFILE,195,0,0,
1 INT,STFST1(I,J),CHARAC,IOUT,I,J,2,IPROMP)
      PHRASE =
1 'maximum stress in isogrid stiffener, mode 1: STFST1'
      CALL BLANKX(PHRASE,IBLANK)
      CALL GETVAR(I,J, STFST1(I,J), ICAR, CAR,WORDB)
195 CONTINUE
196 CONTINUE

```

C

```

      IF (JSKNBK1.EQ.0) GO TO 201
      DO 200 J=1,JSKNBK1
      IF (JSKNBK1.GT.1) THEN
        WRITE(6,'(A)') '      '
        WRITE(6,'(A)')
1 ' DEFINITION OF THE COLUMN INDEX OF THE ARRAY, STFST1A = '
        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 STFST1A'
        IF (IPROMP.GT.1) THEN
          WRITE(IFILE8,'(A)') '      '
          WRITE(IFILE8,'(A)')
1 ' DEFINITION OF THE COLUMN INDEX OF THE ARRAY, STFST1A = '
          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 STFST1A'
        ENDIF
      ENDIF
      WRITE(6,'(A)') '      '
      WRITE(6,'(A)')
1 ' DEFINITION OF THE ROW INDEX OF THE ARRAY, STFST1A = '
      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, STFST1A = '
    WRITE(IFILE8, '(A)')
1 '   Number of load cases (number of environments) '
    WRITE(IFILE8, '(A)') '      '
ENDIF
IF (NCASES .EQ.0) GO TO 201
DO 200 I=1, NCASES
REWIND IFILE
CALL DATUM(IFILE, 200, 1, 1,
1     INT, STFST1A(I, J), CHARAC, IOUT, I, J, 2, IPROMP)
CALL GETVAR(I, J,     STFST1A(I, J), IALLOW, ALLOW, WORDA)
200 CONTINUE
201 CONTINUE

```

C

```

IF (JSKNBK1.EQ.0) GO TO 206
DO 205 J=1, JSKNBK1
IF (JSKNBK1.GT.1) THEN
    WRITE(6, '(A)') '      '
    WRITE(6, '(A)')
1 '   DEFINITION OF THE COLUMN INDEX OF THE ARRAY, STFST1F = '
    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 STFST1F'
    IF (IPROMP.GT.1) THEN
        WRITE(IFILE8, '(A)') '      '
        WRITE(IFILE8, '(A)')
1 '   DEFINITION OF THE COLUMN INDEX OF THE ARRAY, STFST1F = '
        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 STFST1F'
    ENDIF
ENDIF
WRITE(6, '(A)') '      '
WRITE(6, '(A)')
1 ' DEFINITION OF THE ROW INDEX OF THE ARRAY, STFST1F = '
    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, STFST1F = '
        WRITE(IFILE8,'(A)')
1  '  Number of load cases (number of environments) '
        WRITE(IFILE8,'(A)')'      '
    ENDIF
    IF (NCASES .EQ.0) GO TO 206
    DO 205 I=1,NCASES
    REWIND IFILE
    CALL DATUM(IFILE,205,1,1,
1      INT,STFST1F(I,J),CHARAC,IOUT,I,J,2,IPROMP)
    CALL GETVAR(I,J,    STFST1F(I,J), IFACT,FSAFE,WORDS)
205 CONTINUE
206 CONTINUE

```

C

```

        WRITE(6,'(A)')'      '
        WRITE(6,'(A)')
1  ' DEFINITION OF THE ROW INDEX OF THE ARRAY, WAPEX1 = '
        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, WAPEX1 = '
        WRITE(IFILE8,'(A)')
1  '  Number of load cases (number of environments) '
        WRITE(IFILE8,'(A)')'      '
    ENDIF
    IF (NCASES .EQ.0) GO TO 211
    DO 210 I=1,NCASES
    REWIND IFILE
    CALL DATUM(IFILE,210,0,0,
1      INT,WAPEX1(I),CHARAC,  IOUT,I,0,1,IPROMP)
    PHRASE =
1  'normal (axial) displacement at apex, mode 1: WAPEX1'
    CALL BLANKX(PHRASE,IBLANK)
    CALL GETVAR(I,0,    WAPEX1(I),  ICAR,  CAR,WORDB)
210 CONTINUE
211 CONTINUE

```

C

```

        WRITE(6,'(A)')'      '
        WRITE(6,'(A)')
1  ' DEFINITION OF THE ROW INDEX OF THE ARRAY, WAPEX1A = '
        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, WAPEX1A = '
        WRITE(IFILE8,'(A)')
1 ' Number of load cases (number of environments) '
        WRITE(IFILE8,'(A)') '      '
      ENDIF
      IF (NCASES .EQ.0) GO TO 216
      DO 215 I=1,NCASES
      REWIND IFILE
      CALL DATUM(IFILE,215,1,1,
1      INT,WAPEX1A(I),CHARAC, IOUT,I,0,1,IPROMP)
      CALL GETVAR(I,0, WAPEX1A(I),IALLOW,ALLOW,WORDA)
215 CONTINUE
216 CONTINUE

```

C

```

      WRITE(6,'(A)') '      '
      WRITE(6,'(A)')
1 ' DEFINITION OF THE ROW INDEX OF THE ARRAY, WAPEX1F = '
      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, WAPEX1F = '
        WRITE(IFILE8,'(A)')
1 ' Number of load cases (number of environments) '
        WRITE(IFILE8,'(A)') '      '
      ENDIF
      IF (NCASES .EQ.0) GO TO 221
      DO 220 I=1,NCASES
      REWIND IFILE
      CALL DATUM(IFILE,220,1,1,
1      INT,WAPEX1F(I),CHARAC, IOUT,I,0,1,IPROMP)
      CALL GETVAR(I,0, WAPEX1F(I), IFACT,FSAFE,WORDS)
220 CONTINUE
221 CONTINUE

```

C

```

      WRITE(6,'(A)') '      '
      WRITE(6,'(A)')
1 ' DEFINITION OF THE ROW INDEX OF THE ARRAY, CLAPS2 = '
      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, CLAPS2 = '
        WRITE(IFILE8,'(A)')
1  ' Number of load cases (number of environments) '
        WRITE(IFILE8,'(A)')' '
        ENDIF
        IF (NCASES .EQ.0) GO TO 226
        DO 225 I=1,NCASES
        REWIND IFILE
        CALL DATUM(IFILE,225,0,0,
1      INT,CLAPS2(I),CHARAC,  IOUT,I,0,1,IPROMP)
        PHRASE =
1  'collapse pressure with imperfection mode 2: CLAPS2'
        CALL BLANKX(PHRASE,IBLANK)
        CALL GETVAR(I,0,      CLAPS2(I),  ICAR,  CAR,WORDB)
225 CONTINUE
226 CONTINUE

```

C

```

        WRITE(6,'(A)')' '
        WRITE(6,'(A)')
1  ' DEFINITION OF THE ROW INDEX OF THE ARRAY, CLAPS2A = '
        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, CLAPS2A = '
            WRITE(IFILE8,'(A)')
1  ' Number of load cases (number of environments) '
            WRITE(IFILE8,'(A)')' '
        ENDIF
        IF (NCASES .EQ.0) GO TO 231
        DO 230 I=1,NCASES
        REWIND IFILE
        CALL DATUM(IFILE,230,1,1,
1      INT,CLAPS2A(I),CHARAC,  IOUT,I,0,1,IPROMP)
        CALL GETVAR(I,0,      CLAPS2A(I),IALLOW,ALLOW,WORDA)
230 CONTINUE
231 CONTINUE

```

C

```

        WRITE(6,'(A)')' '
        WRITE(6,'(A)')
1  ' DEFINITION OF THE ROW INDEX OF THE ARRAY, CLAPS2F = '
        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, CLAPS2F = '
        WRITE(IFILE8,'(A)')
1  '  Number of load cases (number of environments) '
        WRITE(IFILE8,'(A)')'      '
    ENDIF
    IF (NCASES .EQ.0) GO TO 236
    DO 235 I=1,NCASES
    REWIND IFILE
    CALL DATUM(IFILE,235,1,1,
1      INT,CLAPS2F(I),CHARAC,  IOUT,I,0,1,IPROMP)
    CALL GETVAR(I,0,      CLAPS2F(I), IFACT,FSAFE,WORDS)
235 CONTINUE
236 CONTINUE

```

C

```

        WRITE(6,'(A)')'      '
        WRITE(6,'(A)')
1  ' DEFINITION OF THE ROW INDEX OF THE ARRAY, GENBK2 = '
        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, GENBK2 = '
        WRITE(IFILE8,'(A)')
1  '  Number of load cases (number of environments) '
        WRITE(IFILE8,'(A)')'      '
    ENDIF
    IF (NCASES .EQ.0) GO TO 241
    DO 240 I=1,NCASES
    REWIND IFILE
    CALL DATUM(IFILE,240,0,0,
1      INT,GENBK2(I),CHARAC,  IOUT,I,0,1,IPROMP)
    PHRASE =
1  'general buckling load factor, mode 2: GENBK2'
    CALL BLANKX(PHRASE,IBLANK)
    CALL GETVAR(I,0,      GENBK2(I),  ICAR,  CAR,WORDB)
240 CONTINUE
241 CONTINUE

```

C

```

        WRITE(6,'(A)')'      '
        WRITE(6,'(A)')
1  ' DEFINITION OF THE ROW INDEX OF THE ARRAY, GENBK2A = '
        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, GENBK2A = '
        WRITE(IFILE8,'(A)')
1 ' Number of load cases (number of environments) '
        WRITE(IFILE8,'(A)') '      '
      ENDIF
      IF (NCASES .EQ.0) GO TO 246
      DO 245 I=1,NCASES
      REWIND IFILE
      CALL DATUM(IFILE,245,1,1,
1      INT,GENBK2A(I),CHARAC, IOUT,I,0,1,IPROMP)
      CALL GETVAR(I,0,      GENBK2A(I),IALLOW,ALLOW,WORDA)
245 CONTINUE
246 CONTINUE

```

C

```

      WRITE(6,'(A)') '      '
      WRITE(6,'(A)')
1 ' DEFINITION OF THE ROW INDEX OF THE ARRAY, GENBK2F = '
      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, GENBK2F = '
        WRITE(IFILE8,'(A)')
1 ' Number of load cases (number of environments) '
        WRITE(IFILE8,'(A)') '      '
      ENDIF
      IF (NCASES .EQ.0) GO TO 251
      DO 250 I=1,NCASES
      REWIND IFILE
      CALL DATUM(IFILE,250,1,2,
1      INT,GENBK2F(I),CHARAC, IOUT,I,0,1,IPROMP)
      CALL GETVAR(I,0,      GENBK2F(I), IFACT,FSAFE,WORDS)
250 CONTINUE
251 CONTINUE
      WRITE(6,'(A)') '      '
      WRITE(6,'(A)')
1 ' DEFINITION OF THE COLUMN INDEX OF THE ARRAY, SKNBK2 = '
      WRITE(6,'(A)')
1 ' number of regions for computing behavior'
      WRITE(6,'(A)') '      '
      REWIND IFILE
      CALL DATUM(IFILE,255,1,1,JSKNBK2,REALL,CHARAC,IOUT,0,0,0,IPROMP)

```

C

```

IF (JSKNBK2.EQ.0) GO TO 261
DO 260 J=1,JSKNBK2
IF (JSKNBK2.GT.1) THEN
  WRITE(6, '(A)') ' '
  WRITE(6, '(A)')
1  ' DEFINITION OF THE COLUMN INDEX OF THE ARRAY, SKNBK2 = '
  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 SKNBK2'
  IF (IPROMP.GT.1) THEN
    WRITE(IFILE8, '(A)') ' '
    WRITE(IFILE8, '(A)')
1  ' DEFINITION OF THE COLUMN INDEX OF THE ARRAY, SKNBK2 = '
    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 SKNBK2'
  ENDIF
ENDIF
WRITE(6, '(A)') ' '
WRITE(6, '(A)')
1  ' DEFINITION OF THE ROW INDEX OF THE ARRAY, SKNBK2 = '
  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, SKNBK2 = '
    WRITE(IFILE8, '(A)')
1  ' Number of load cases (number of environments) '
    WRITE(IFILE8, '(A)') ' '
  ENDIF
IF (NCASES .EQ.0) GO TO 261
DO 260 I=1,NCASES
REWIND IFILE
CALL DATUM(IFILE,260,0,0,
1  INT,SKNBK2(I,J),CHARAC,IOUT,I,J,2,IPROMP)
PHRASE =
1  'local skin buckling load factor, mode 2: SKNBK2'
CALL BLANKX(PHRASE,IBLANK)
CALL GETVAR(I,J, SKNBK2(I,J), ICAR, CAR,WORDB)
260 CONTINUE
261 CONTINUE

```

C

```

IF (JSKNBK2.EQ.0) GO TO 266
DO 265 J=1,JSKNBK2
IF (JSKNBK2.GT.1) THEN
  WRITE(6,'(A)') ' '
  WRITE(6,'(A)')
1  ' DEFINITION OF THE COLUMN INDEX OF THE ARRAY, SKNBK2A = '
  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 SKNBK2A'
  IF (IPROMP.GT.1) THEN
    WRITE(IFILE8,'(A)') ' '
    WRITE(IFILE8,'(A)')
1  ' DEFINITION OF THE COLUMN INDEX OF THE ARRAY, SKNBK2A = '
    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 SKNBK2A'
    ENDIF
  ENDIF
  WRITE(6,'(A)') ' '
  WRITE(6,'(A)')
1  ' DEFINITION OF THE ROW INDEX OF THE ARRAY, SKNBK2A = '
  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, SKNBK2A = '
    WRITE(IFILE8,'(A)')
1  ' Number of load cases (number of environments) '
    WRITE(IFILE8,'(A)') ' '
  ENDIF
  IF (NCASES .EQ.0) GO TO 266
  DO 265 I=1,NCASES
  REWIND IFILE
  CALL DATUM(IFILE,265,1,1,
1  INT,SKNBK2A(I,J),CHARAC,IOUT,I,J,2,IPROMP)
  CALL GETVAR(I,J, SKNBK2A(I,J),IALLOW,ALLOW,WORDA)
265 CONTINUE
266 CONTINUE

```

C

```

IF (JSKNBK2.EQ.0) GO TO 271

```



```

DO 270 J=1,JSKNBK2
IF (JSKNBK2.GT.1) THEN
  WRITE(6,'(A)')' '
  WRITE(6,'(A)')
1 ' DEFINITION OF THE COLUMN INDEX OF THE ARRAY, SKNBK2F = '
  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 SKNBK2F'
  IF (IPROMP.GT.1) THEN
    WRITE(IFILE8,'(A)')' '
    WRITE(IFILE8,'(A)')
1 ' DEFINITION OF THE COLUMN INDEX OF THE ARRAY, SKNBK2F = '
    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 SKNBK2F'
  ENDIF
ENDIF
WRITE(6,'(A)')' '
WRITE(6,'(A)')
1 ' DEFINITION OF THE ROW INDEX OF THE ARRAY, SKNBK2F = '
  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, SKNBK2F = '
    WRITE(IFILE8,'(A)')
1 ' Number of load cases (number of environments) '
    WRITE(IFILE8,'(A)')' '
  ENDIF
  IF (NCASES .EQ.0) GO TO 271
  DO 270 I=1,NCASES
  REWIND IFILE
  CALL DATUM(IFILE,270,1,1,
1 INT,SKNBK2F(I,J),CHARAC,IOUT,I,J,2,IPROMP)
  CALL GETVAR(I,J, SKNBK2F(I,J), IFACT,FSAFE,WORDS)
270 CONTINUE
271 CONTINUE
C
  IF (JSKNBK2.EQ.0) GO TO 276
  DO 275 J=1,JSKNBK2
  IF (JSKNBK2.GT.1) THEN

```

```

        WRITE(6,'(A)')'      '
        WRITE(6,'(A)')
1      ' DEFINITION OF THE COLUMN INDEX OF THE ARRAY, STFBK2 = '
        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 STFBK2'
        IF (IPROMP.GT.1) THEN
            WRITE(IFILE8,'(A)')'      '
            WRITE(IFILE8,'(A)')
1      ' DEFINITION OF THE COLUMN INDEX OF THE ARRAY, STFBK2 = '
            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 STFBK2'
        ENDIF
    ENDIF
    WRITE(6,'(A)')'      '
    WRITE(6,'(A)')
1 ' DEFINITION OF THE ROW INDEX OF THE ARRAY, STFBK2 = '
    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, STFBK2 = '
        WRITE(IFILE8,'(A)')
1 ' Number of load cases (number of environments) '
        WRITE(IFILE8,'(A)')'      '
    ENDIF
    IF (NCASES .EQ.0) GO TO 276
    DO 275 I=1,NCASES
    REWIND IFILE
    CALL DATUM(IFILE,275,0,0,
1      INT,STFBK2(I,J),CHARAC,IOUT,I,J,2,IPROMP)
    PHRASE =
1 'buckling load factor for isogrid member, mode 2: STFBK2'
    CALL BLANKX(PHRASE,IBLANK)
    CALL GETVAR(I,J, STFBK2(I,J), ICAR, CAR,WORDB)
275 CONTINUE
276 CONTINUE
C
    IF (JSKNBK2.EQ.0) GO TO 281
    DO 280 J=1,JSKNBK2

```

```

IF (JSKNBK2.GT.1) THEN
  WRITE(6,'(A)')' '
  WRITE(6,'(A)')
1  ' DEFINITION OF THE COLUMN INDEX OF THE ARRAY, STFBK2A = '
  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 STFBK2A'
  IF (IPROMP.GT.1) THEN
    WRITE(IFILE8,'(A)')' '
    WRITE(IFILE8,'(A)')
1  ' DEFINITION OF THE COLUMN INDEX OF THE ARRAY, STFBK2A = '
    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 STFBK2A'
  ENDIF
ENDIF
WRITE(6,'(A)')' '
WRITE(6,'(A)')
1  ' DEFINITION OF THE ROW INDEX OF THE ARRAY, STFBK2A = '
  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, STFBK2A = '
    WRITE(IFILE8,'(A)')
1  ' Number of load cases (number of environments) '
    WRITE(IFILE8,'(A)')' '
  ENDIF
IF (NCASES .EQ.0) GO TO 281
DO 280 I=1,NCASES
REWIND IFILE
CALL DATUM(IFILE,280,1,1,
1  INT,STFBK2A(I,J),CHARAC,IOUT,I,J,2,IPROMP)
CALL GETVAR(I,J, STFBK2A(I,J),IALLOW,ALLOW,WORDA)
280 CONTINUE
281 CONTINUE
C
IF (JSKNBK2.EQ.0) GO TO 286
DO 285 J=1,JSKNBK2
IF (JSKNBK2.GT.1) THEN
  WRITE(6,'(A)')' '

```

```

        WRITE(6, '(A)')
1      ' DEFINITION OF THE COLUMN INDEX OF THE ARRAY, STFBK2F = '
        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 STFBK2F'
        IF (IPROMP.GT.1) THEN
            WRITE(IFILE8, '(A)')
            WRITE(IFILE8, '(A)')
1      ' DEFINITION OF THE COLUMN INDEX OF THE ARRAY, STFBK2F = '
            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 STFBK2F'
        ENDIF
    ENDIF
    WRITE(6, '(A)')
    WRITE(6, '(A)')
1  ' DEFINITION OF THE ROW INDEX OF THE ARRAY, STFBK2F = '
    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, STFBK2F = '
        WRITE(IFILE8, '(A)')
1  ' Number of load cases (number of environments) '
        WRITE(IFILE8, '(A)')
    ENDIF
    IF (NCASES .EQ.0) GO TO 286
    DO 285 I=1,NCASES
        REWIND IFILE
        CALL DATUM(IFILE,285,1,1,
1      INT,STFBK2F(I,J),CHARAC,IOUT,I,J,2,IPROMP)
        CALL GETVAR(I,J, STFBK2F(I,J), IFACT,FSAFE,WORDS)
285 CONTINUE
286 CONTINUE

```

C

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    IF (JSKNBK2.EQ.0) GO TO 291
    DO 290 J=1,JSKNBK2
    IF (JSKNBK2.GT.1) THEN
        WRITE(6, '(A)')
        WRITE(6, '(A)')
1      ' DEFINITION OF THE COLUMN INDEX OF THE ARRAY, SKNST2 = '

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```

        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 SKNST2'
    IF (IPROMP.GT.1) THEN
        WRITE(IFILE8,'(A)')'    '
        WRITE(IFILE8,'(A)')
1  '  DEFINITION OF THE COLUMN INDEX OF THE ARRAY, SKNST2 = '
        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 SKNST2'
        ENDIF
    ENDIF
    WRITE(6,'(A)')'    '
    WRITE(6,'(A)')
1  '  DEFINITION OF THE ROW INDEX OF THE ARRAY, SKNST2 = '
    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, SKNST2 = '
        WRITE(IFILE8,'(A)')
1  '  Number of load cases (number of environments) '
        WRITE(IFILE8,'(A)')'    '
    ENDIF
    IF (NCASES .EQ.0) GO TO 291
    DO 290 I=1,NCASES
        REWIND IFILE
        CALL DATUM(IFILE,290,0,0,
1  INT,SKNST2(I,J),CHARAC,IOUT,I,J,2,IPROMP)
        PHRASE =
1  'maximum stress in the shell skin, mode 2: SKNST2'
        CALL BLANKX(PHRASE,IBLANK)
        CALL GETVAR(I,J, SKNST2(I,J), ICAR, CAR,WORDB)
290 CONTINUE
291 CONTINUE

```

C

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    IF (JSKNBK2.EQ.0) GO TO 296
    DO 295 J=1,JSKNBK2
    IF (JSKNBK2.GT.1) THEN
        WRITE(6,'(A)')'    '
        WRITE(6,'(A)')

```

```

1      ' DEFINITION OF THE COLUMN INDEX OF THE ARRAY, SKNST2A = '
      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 SKNST2A'
      IF (IPROMP.GT.1) THEN
        WRITE(IFILE8,'(A)')'      '
        WRITE(IFILE8,'(A)')
1      ' DEFINITION OF THE COLUMN INDEX OF THE ARRAY, SKNST2A = '
        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 SKNST2A'
      ENDIF
    ENDIF
    WRITE(6,'(A)')'      '
    WRITE(6,'(A)')
1      ' DEFINITION OF THE ROW INDEX OF THE ARRAY, SKNST2A = '
    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, SKNST2A = '
      WRITE(IFILE8,'(A)')
1      ' Number of load cases (number of environments) '
      WRITE(IFILE8,'(A)')'      '
    ENDIF
    IF (NCASES .EQ.0) GO TO 296
    DO 295 I=1,NCASES
      REWIND IFILE
      CALL DATUM(IFILE,295,1,1,
1      INT,SKNST2A(I,J),CHARAC,IOUT,I,J,2,IPROMP)
      CALL GETVAR(I,J, SKNST2A(I,J),IALLOW,ALLOW,WORDA)
295 CONTINUE
296 CONTINUE

```

C

```

      IF (JSKNBK2.EQ.0) GO TO 301
      DO 300 J=1,JSKNBK2
      IF (JSKNBK2.GT.1) THEN
        WRITE(6,'(A)')'      '
        WRITE(6,'(A)')
1      ' DEFINITION OF THE COLUMN INDEX OF THE ARRAY, SKNST2F = '
        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 SKNST2F'
  IF (IPROMP.GT.1) THEN
    WRITE(IFILE8,'(A)')'    '
    WRITE(IFILE8,'(A)')
1 '  DEFINITION OF THE COLUMN INDEX OF THE ARRAY, SKNST2F = '
    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 SKNST2F'
  ENDIF
ENDIF
WRITE(6,'(A)')'    '
WRITE(6,'(A)')
1 ' DEFINITION OF THE ROW INDEX OF THE ARRAY, SKNST2F = '
  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, SKNST2F = '
    WRITE(IFILE8,'(A)')
1 ' Number of load cases (number of environments) '
    WRITE(IFILE8,'(A)')'    '
  ENDIF
  IF (NCASES .EQ.0) GO TO 301
  DO 300 I=1,NCASES
  REWIND IFILE
  CALL DATUM(IFILE,300,1,1,
1 INT,SKNST2F(I,J),CHARAC,IOUT,I,J,2,IPROMP)
  CALL GETVAR(I,J, SKNST2F(I,J), IFACT,FSAFE,WORDS)
300 CONTINUE
301 CONTINUE
C
  IF (JSKNBK2.EQ.0) GO TO 306
  DO 305 J=1,JSKNBK2
  IF (JSKNBK2.GT.1) THEN
    WRITE(6,'(A)')'    '
    WRITE(6,'(A)')
1 '  DEFINITION OF THE COLUMN INDEX OF THE ARRAY, STFST2 = '
    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 STFST2'
    IF (IPROMP.GT.1) THEN
        WRITE(IFILE8,'(A)')' '
        WRITE(IFILE8,'(A)')
1 '    ' DEFINITION OF THE COLUMN INDEX OF THE ARRAY, STFST2 = '
        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 STFST2'
    ENDIF
ENDIF
WRITE(6,'(A)')' '
WRITE(6,'(A)')
1 ' DEFINITION OF THE ROW INDEX OF THE ARRAY, STFST2 = '
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, STFST2 = '
WRITE(IFILE8,'(A)')
1 '    Number of load cases (number of environments) '
WRITE(IFILE8,'(A)')' '
ENDIF
IF (NCASES .EQ.0) GO TO 306
DO 305 I=1,NCASES
REWIND IFILE
CALL DATUM(IFILE,305,0,0,
1 INT,STFST2(I,J),CHARAC,IOUT,I,J,2,IPROMP)
PHRASE =
1 'maximum stress in isogrid stiffener, mode 2: STFST2'
CALL BLANKX(PHRASE,IBLANK)
CALL GETVAR(I,J, STFST2(I,J), ICAR, CAR,WORDB)
305 CONTINUE
306 CONTINUE

```

C

```

    IF (JSKNBK2.EQ.0) GO TO 311
    DO 310 J=1,JSKNBK2
    IF (JSKNBK2.GT.1) THEN
        WRITE(6,'(A)')' '
        WRITE(6,'(A)')
1 '    ' DEFINITION OF THE COLUMN INDEX OF THE ARRAY, STFST2A = '
        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 STFST2A'
    IF (IPROMP.GT.1) THEN
        WRITE(IFILE8, '(A)') '    '
        WRITE(IFILE8, '(A)')
1 '    ' DEFINITION OF THE COLUMN INDEX OF THE ARRAY, STFST2A = '
        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 STFST2A'
    ENDIF
ENDIF
WRITE(6, '(A)') '      '
WRITE(6, '(A)')
1 ' DEFINITION OF THE ROW INDEX OF THE ARRAY, STFST2A = '
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, STFST2A = '
        WRITE(IFILE8, '(A)')
1 '    Number of load cases (number of environments) '
        WRITE(IFILE8, '(A)') '    '
    ENDIF
    IF (NCASES .EQ.0) GO TO 311
    DO 310 I=1, NCASES
    REWIND IFILE
    CALL DATUM(IFILE, 310, 1, 1,
1 INT, STFST2A(I, J), CHARAC, IOUT, I, J, 2, IPROMP)
    CALL GETVAR(I, J, STFST2A(I, J), IALLOW, ALLOW, WORDA)
310 CONTINUE
311 CONTINUE
C
    IF (JSKNBK2.EQ.0) GO TO 316
    DO 315 J=1, JSKNBK2
    IF (JSKNBK2.GT.1) THEN
        WRITE(6, '(A)') '      '
        WRITE(6, '(A)')
1 '    ' DEFINITION OF THE COLUMN INDEX OF THE ARRAY, STFST2F = '
        WRITE(6, '(A)')
1 '    number of regions for computing behavior'
        WRITE(6, '(A)') '    '
        CALL CONVR2(J,CJ)

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```

        WRITE(6, '(A,A,A)')
1 '    INPUT FOR COL. NO. ',CJ,' OF THE ARRAY STFST2F'
    IF (IPROMP.GT.1) THEN
        WRITE(IFILE8, '(A)')
        WRITE(IFILE8, '(A)')
1 '    DEFINITION OF THE COLUMN INDEX OF THE ARRAY, STFST2F = '
        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 STFST2F'
    ENDIF
ENDIF
WRITE(6, '(A)')
WRITE(6, '(A)')
1 ' DEFINITION OF THE ROW INDEX OF THE ARRAY, STFST2F = '
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, STFST2F = '
WRITE(IFILE8, '(A)')
1 ' Number of load cases (number of environments) '
WRITE(IFILE8, '(A)')
ENDIF
IF (NCASES .EQ.0) GO TO 316
DO 315 I=1,NCASES
REWIND IFILE
CALL DATUM(IFILE,315,1,1,
1 INT,STFST2F(I,J),CHARAC,IOUT,I,J,2,IPROMP)
CALL GETVAR(I,J, STFST2F(I,J), IFACT,FSAFE,WORDS)
315 CONTINUE
316 CONTINUE

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C

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    WRITE(6, '(A)')
    WRITE(6, '(A)')
1 ' DEFINITION OF THE ROW INDEX OF THE ARRAY, WAPEX2 = '
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, WAPEX2 = '
WRITE(IFILE8, '(A)')
1 ' Number of load cases (number of environments) '

```

```

        WRITE(IFILE8,'(A)')'      '
    ENDIF
    IF (NCASES .EQ.0) GO TO 321
    DO 320 I=1,NCASES
    REWIND IFILE
    CALL DATUM(IFILE,320,0,0,
1      INT,WAPEX2(I),CHARAC,  IOUT,I,0,1,IPROMP)
    PHRASE =
1  'normal (axial) displacement at apex, mode 2: WAPEX2'
    CALL BLANKX(PHRASE,IBLANK)
    CALL GETVAR(I,0,      WAPEX2(I),  ICAR,  CAR,WORDB)
320 CONTINUE
321 CONTINUE

```

C

```

        WRITE(6,'(A)')'      '
        WRITE(6,'(A)')
1  ' DEFINITION OF THE ROW INDEX OF THE ARRAY, WAPEX2A = '
        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, WAPEX2A = '
            WRITE(IFILE8,'(A)')
1  '  Number of load cases (number of environments) '
            WRITE(IFILE8,'(A)')'      '
        ENDIF
        IF (NCASES .EQ.0) GO TO 326
        DO 325 I=1,NCASES
        REWIND IFILE
        CALL DATUM(IFILE,325,1,1,
1      INT,WAPEX2A(I),CHARAC,  IOUT,I,0,1,IPROMP)
        CALL GETVAR(I,0,      WAPEX2A(I),IALLOW,ALLOW,WORDA)
325 CONTINUE
326 CONTINUE

```

C

```

        WRITE(6,'(A)')'      '
        WRITE(6,'(A)')
1  ' DEFINITION OF THE ROW INDEX OF THE ARRAY, WAPEX2F = '
        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, WAPEX2F = '
            WRITE(IFILE8,'(A)')

```

```

1 ' Number of load cases (number of environments) '
  WRITE(IFILE8,'(A)')' '
ENDIF
IF (NCASES .EQ.0) GO TO 331
DO 330 I=1,NCASES
REWIND IFILE
CALL DATUM(IFILE,330,1,1,
1 INT,WAPEX2F(I),CHARAC, IOUT,I,0,1,IPROMP)
CALL GETVAR(I,0, WAPEX2F(I), IFACT,FSAFE,WORDS)
330 CONTINUE
331 CONTINUE
CALL DATUM(IFILE,335,0,0, INT,WEIGHT ,CHARAC,IOUT,0,0,0,IPROMP)
PHRASE =
1 'weight of the equivalent ellipsoidal head: WEIGHT'
CALL BLANKX(PHRASE,IBLANK)
CALL GETVAR(0,0, WEIGHT , IOAR, OAR,WORDOB)
=====

```