Table 6 This is the file, struct.balloon, which is the “fleshed out” version of the skeletal file, struct.new, that is automatically produced by GENTEXT. In this case the GENOPT user, whose duty it is to do the “fleshing out”, added only three statements: CALL OPNGEN, CALL RWDGEN, and CALL CLSGEN. These three lines are shown in bold face.

========================================================================

C=DECK STRUCT

SUBROUTINE STRUCT(IMODX,CONSTX,OBJGEN,CONMAX,NCONSX,IPOINC,

1 PCWORD,CPLOTX,ILOADX,ISTARX,NUSERC,IBEHV,IDV,IFAST,JJJ1)

C

C PURPOSE IS TO PERFORM THE ANALYSIS FOR A GIVEN DESIGN AND LOADING.

C CONSTRAINT CONDITIONS ARE ALSO GENERATED.

C

C Common blocks already present in the struct.tmpl file, that is,

C in the "skeletal" file possibly to be augmented by the user:

COMMON/PRMFIL/IFILEX,IFILE2,IOUT,IPRM(5)

COMMON/PRMOUT/IFILE3,IFILE4,IFILE8,IFILE9,IFIL11

COMMON/INDAT/INFILE

COMMON/LWRUPR/VLBX(50),VUBX(50),CLINKX(50,45),VLINKX(50),VBVX(99)

COMMON/NUMPAR/IPARX,IVARX,IALLOW,ICONSX,NDECX,NLINKX,NESCAP,ITYPEX

COMMON/PARAMS/PARX(99),VARX(50),ALLOWX(99),CONSXX(99),DECX(50),

1 ESCX(50)

COMMON/WORDS1/WORDPX(99),WORDVX(50),WORDAX(99),WORDCC(99),

1 WORDDX(50)

COMMON/WORDS2/WORDLX(50),WORDEX(50),WORDIQ(45)

COMMON/OPTVAR/IDVX(50),ILVX(50),IDLINK(50,45),IEVX(50),JTERMS(45)

COMMON/NUMPR2/ILARX,ICARX,IOARX,IFLATX,NCASES,NPRINX

COMMON/PARAM2/FLARX(50),CARX(99),OARX(50),FSAFEX(99),CPWRX(50,45)

COMMON/PARAM3/CINEQX(45,45),DPWREQ(45,45)

COMMON/PARAM4/IDINEQ(45,45),NINEQX,JINEQX(45),IEQTYP(45)

COMMON/WORDS3/WORDFX(50),WORDBX(99),WORDOB(50),WORDSX(99)

COMMON/WORDS4/WORDMX(99)

COMMON/PWORD/PHRASE

COMMON/PWORD2/IBLANK

COMMON/ISKIPX/ISKIP(30)

DIMENSION IBEHV(99)

C

C==========================================================================

C Start of first part of STRUCT written by "GENTEXT"

C INSERT ADDITIONAL COMMON BLOCKS HERE: (THESE ARE "GENTEXT" VARIABLES)

COMMON/FV03/EMOD1(10),IEMOD1

REAL EMOD1

COMMON/FV04/EMOD2(10),G12(10),G13(10),G23(10),NU(10),ALPHA1(10)

REAL EMOD2,G12,G13,G23,NU,ALPHA1

COMMON/FV01/LENGTH,RADIUS,HEIGHT,RINNER,ROUTER,TINNER,TOUTER

REAL LENGTH,RADIUS,HEIGHT,RINNER,ROUTER,TINNER,TOUTER

COMMON/FV10/ALPHA2(10),TEMPER(10),DENSTY(10)

REAL ALPHA2,TEMPER,DENSTY

COMMON/FV21/PINNER(20)

REAL PINNER

COMMON/FV26/GENBUK(20),GENBUKA(20),GENBUKF(20)

REAL GENBUK,GENBUKA,GENBUKF

COMMON/FV29/STRM1(20,5 ),JSTRM1 ,STRM1A(20,5 ),STRM1F(20,5 )

REAL STRM1,STRM1A,STRM1F

COMMON/FV32/STRM2(20,5 ),STRM2A(20,5 ),STRM2F(20,5 )

REAL STRM2,STRM2A,STRM2F

COMMON/FV35/STRM3(20,5 ),STRM3A(20,5 ),STRM3F(20,5 )

REAL STRM3,STRM3A,STRM3F

COMMON/IV01/NMODUL

INTEGER NMODUL

COMMON/FV18/TFINNR,TFOUTR,TFWEBS,WEIGHT

REAL TFINNR,TFOUTR,TFWEBS,WEIGHT

COMMON/FV22/PMIDDL(20),POUTER(20)

REAL PMIDDL,POUTER

C

C

CHARACTER\*80 PHRASE,CODPHR,PCWORD

CHARACTER\*80 WORDPX,WORDVX,WORDAX,WORDCX,WORDDX,WORDLX,WORDEX

CHARACTER\*80 WORDFX,WORDBX,WORDOB,WORDSX,WORDMX,WORDCC,WORDIQ

c CHARACTER\*4 ANSOUT,CHARAC,ANSWER

CHARACTER\*2 CIX

character\*2 CJX

CHARACTER\*13 CODNAM

c DIMENSION ISUBX(100)

c LOGICAL ANSL1

C

DIMENSION CONSTX(\*),IPOINC(\*),PCWORD(\*),CPLOTX(\*)

C End of first part of STRUCT written by "GENTEXT"

C==========================================================================

C

C INSERT ADDITIONAL DIMENSION AND/OR LABELLED COMMON BLOCKS HERE,

C IF NECESSARY. THESE WOULD BE STATEMENTS THAT ARE CONSISTENT WITH

C SUBROUTINES THAT YOU OR OTHERS MAY HAVE WRITTEN THAT ARE REQUIRED

C FOR WHATEVER ANALYSIS YOU ARE PERSUING. MAKE SURE THAT YOU DO NOT

C INTRODUCE NAME CONFLICTS WITH THE "GENTEXT" LABELLED COMMON BLOCKS

C LISTED ABOVE.

C

C Please note that you do not have to modify STRUCT.NEW if you would

C rather provide all of your algorithms via the BEHAVIOR.NEW library.

C (See instructions in BEHAVIOR.NEW).

C

C If you are using a lot of software previously written either by

C yourself or others, or if there are a lot of behavioral constraints

C that are best generated by looping over array indices (such as

C occurs, for example, with stress constraints in laminates of

C composite materials), then it may be best to insert your common

C blocks and dimension statements here, your subroutine calls

C below (where indicated), and your subroutines in any of the libraries

C called ADDCODEn.NEW, n = 1,2,...,5. Please note that you

C may also have to add statements to SUBROUTINE TRANFR, the

C purpose of which is described below (in TRANFR).

C

C The several test cases provided with GENOPT demonstrate different

C methods:

C

C PLATE : leave STRUCT.NEW unchanged and modify BEHAVIOR.NEW

C SPHERE : leave STRUCT.NEW unchanged and modify BEHAVIOR.NEW

C TORISPH: leave BEHAVIOR.NEW unchanged except possibly for the objective

C function (SUBROUTINE OBJECT), modify STRUCT.NEW,

C possibly add a subroutine library called ADDCODE1.NEW, and

C possibly augment the usermake.linux file to collect object

C libraries from other directories. In the "TORISPH" case

C BEHAVIOR.NEW remains unchanged, no ADDCODE1.NEW library is

C added, and usermake.linux is not changed. Instead, the

C BIGBOSOR4 code is added and SUBROUTINE BOSDEC is written

C by the genopt user. The BIGBOSOR4 code and SUBROUTINE

C BOSDEC must be stored in /home/progs/bosdec/sources, as

C follows:

C BIGBOSOR4 code:

C -rw-r--r-- 1 bush bush 579671 Feb 29 07:19 addbosor4.src

C -rw-r--r-- 1 bush bush 83175 Feb 22 09:13 b4plot.src

C -rw-r--r-- 1 bush bush 89671 Feb 28 16:20 b4util.src

C -rw-r--r-- 1 bush bush 22723 Feb 10 14:27 bio.c

C -rw-r--r-- 1 bush bush 31175 Feb 10 14:27 bio\_linux.c

C -rw-r--r-- 1 bush bush 37152 Feb 10 14:27 bio\_linux.o

C -rw-r--r-- 1 bush bush 15650 Feb 10 14:26 gasp.F

C -rw-r--r-- 1 bush bush 18364 Feb 10 14:26 gasp\_linux.o

C -rw-r--r-- 1 bush bush 6310 Feb 13 10:12 opngen.src

C -rw-r--r-- 1 bush bush 22440 Feb 10 14:25 prompter.src

C -rw-r--r-- 1 bush bush 13426 Feb 22 09:14 resetup.src

C BOSDEC.src code:

C -rw-r--r-- 1 bush bush 33851 Mar 1 08:34 bosdec.src

C

C WAVYCYL: both BEHAVIOR.NEW and STRUCT.NEW are both changed. Otherwise

C the activity is the same as that described for TORISPH,

C except, of course, that struct.new is different from

C that used in connection with TORISPH.

C

C CYLINDER:same as the description for WAVYCYL.

C

C

C INSERT YOUR ADDITIONAL COMMON BLOCKS FOR THIS GENERIC CASE HERE:

C

C

C THE FOLLOWING CODE WAS WRITTEN BY "GENTEXT":

C

C================================================================

C Start the second portion of STRUCT written by "GENTEXT":

C

ICARX = ISTARX

INUMTT = 0

ICONSX = 0

KCONX = 0

IF (IMODX.EQ.0) THEN

CALL MOVERX(0.,0,CONSTX,1,99)

CALL MOVERX(0, 0,IPOINC,1,1500)

ENDIF

C

IF (ILOADX.EQ.1) THEN

C

C ESTABLISH FIRST ANY CONSTRAINTS THAT ARE INEQUALITY RELATIONSHIPS

C AMONG THE VARIABLES IN THE ARRAY VARX(\*) (THAT IS, VARIABLES THAT

C ARE EITHER DECISION VARIABLES, LINKED VARIABLES, ESCAPE VARIABLES,

C OR CANDIDATES FOR ANY OF THESE TYPES OF VARIABLES.

C

IF (NINEQX.GT.0)

1 CALL VARCON(WORDIQ,WORDMX,CINEQX,DPWREQ,IDINEQ,

1 NINEQX,JINEQX,IEQTYP,INUMTT,IMODX,CONMAX,IPOINC,

1 ICONSX,CONSTX,VARX,PCWORD,CPLOTX,ICARX)

C

C NEXT, ESTABLISH USER-WRITTEN CONSTRAINTS. AT PRESENT, THE PROGRAM

C ALLOWS ONLY ONE USER-WRITTEN CONSTRAINT. HOWEVER, THE USER CAN

C EASILY EXPAND THIS CAPABILITY SIMPLY BY ADDING SUBROUTINES THAT

C ARE ANALOGOUS TO USRCON (WITH NAMES SUCH AS USRCN2, USRCN3, ETC.

C TO THE BEHAVIOR.NEW LIBRARY, AND ADD CALLS TO THESE ADDITIONAL

C SUBROUTINES FOLLOWING THE CALL TO USRCON IMMEDIATELY BELOW.

C

CALL USRCON(INUMTT,IMODX,CONMAX,ICONSX,IPOINC,CONSTX,WORDCX,

1 WORDMX,PCWORD,CPLOTX,ICARX,IFILE8)

C

NUSERC = ICARX - NINEQX

ENDIF

C

IF (NPRINX.GT.0) THEN

WRITE(IFILE8,'(1X,A,I2,A)')

1 ' BEHAVIOR FOR ',ILOADX,' ENVIRONMENT (LOAD SET)'

WRITE(IFILE8,'(A)')' '

WRITE(IFILE8,'(A)')

1 ' CONSTRAINT BEHAVIOR DEFINITION'

WRITE(IFILE8,'(A)')

1 ' NUMBER VALUE'

ENDIF

C

CALL CONVR2(ILOADX,CIX)

IF (NPRINX.GT.0) THEN

WRITE(IFILE8,'(1X,A)')' '

WRITE(IFILE8,'(1X,A,I2)')

1 ' BEHAVIOR FOR LOAD SET NUMBER, ILOADX=',ILOADX

ENDIF

C

C End of the second portion of STRUCT written by "GENTEXT"

C=======================================================================

C

C USER: YOU MAY WANT TO INSERT SUBROUTINE CALLS FROM SOFTWARE DEVELOPED

C ELSEWHERE FOR ANY CALCULATIONS PERTAINING TO THIS LOAD SET.

C

**CALL OPNGEN**

**CALL RWDGEN**

C

C=======================================================================

C Start of the final portion of STRUCT written by "GENTEXT"

C

C INSERT THE PROGRAM FILE HERE:

C

C Behavior and constraints generated next for GENBUK:

C GENBUK = general buckling load factor

C

PHRASE =

1 'general buckling load factor'

CALL BLANKX(PHRASE,IENDP4)

JXX = 0

JXX = JXX + 1

GENBUK(ILOADX) = 0.0

IF (IBEHV(JXX).EQ.0) CALL BEHX1

1 (IFILE8,NPRINX,IMODX,IFAST,ILOADX ,

1 'general buckling load factor')

IF (GENBUK(ILOADX ).EQ.0.) GENBUK(ILOADX ) = 1.E+10

IF (GENBUKA(ILOADX ).EQ.0.) GENBUKA(ILOADX ) = 1.0

IF (GENBUKF(ILOADX ).EQ.0.) GENBUKF(ILOADX ) = 1.0

KCONX = KCONX + 1

CARX(KCONX) =GENBUK(ILOADX )

WORDCX= '(GENBUK('//CIX//')/GENBUKA('//CIX//

1 ')) / GENBUKF('//CIX//')'

CALL CONX(GENBUK(ILOADX ),GENBUKA(ILOADX ),GENBUKF(ILOADX )

1,'general buckling load factor',

1 'allowable for general buckling load factor',

1 'general buckling factor of safety',

1 2,INUMTT,IMODX,CONMAX,ICONSX,IPOINC,CONSTX,WORDCX,

1 WORDMX,PCWORD,CPLOTX,ICARX)

IF (IMODX.EQ.0) THEN

CODPHR =

1 ' general buckling load factor: '

IENDP4 =32

CODNAM ='GENBUK('//CIX//')'

MLET4 =6 + 4

WORDBX(KCONX)= CODPHR(1:IENDP4)//CODNAM(1:MLET4)

IF (NPRINX.GT.0) WRITE(IFILE8,'(I5,6X,G14.7,A,A)')

1 KCONX,CARX(KCONX),CODPHR(1:IENDP4),CODNAM(1:MLET4)

ENDIF

170 CONTINUE

171 CONTINUE

C

C Behavior and constraints generated next for STRM1:

C STRM1 = stress component in material 1

C

IF (JSTRM1 .EQ.0) GO TO 191

IF (NPRINX.GT.0) THEN

IF (JSTRM1 .GT.1) THEN

WRITE(IFILE8,'(1X,A)')' '

WRITE(IFILE8,'(1X,A,$)')' BEHAVIOR OVER J = '

WRITE(IFILE8,'(1X,A)')

1 'stress component number'

ENDIF

ENDIF

DO 190 J=1,JSTRM1

CALL CONVR2(J,CJX)

PHRASE =

1 'stress component in material 1'

CALL BLANKX(PHRASE,IENDP4)

JXX = JXX + 1

STRM1(ILOADX,J) = 0.0

IF (IBEHV(JXX).EQ.0) CALL BEHX2

1 (IFILE8,NPRINX,IMODX,IFAST,ILOADX,J,

1 'stress component in material 1')

IF (STRM1(ILOADX,J).EQ.0.) STRM1(ILOADX,J) = 1.E-10

IF (STRM1A(ILOADX,J).EQ.0.) STRM1A(ILOADX,J) = 1.0

IF (STRM1F(ILOADX,J).EQ.0.) STRM1F(ILOADX,J) = 1.0

KCONX = KCONX + 1

CARX(KCONX) =STRM1(ILOADX,J)

WORDCX= '(STRM1A('//CIX//','//CJX//')/STRM1('//CIX//','//CJX//

1 ')) / STRM1F('//CIX//','//CJX//')'

CALL CONX(STRM1(ILOADX,J),STRM1A(ILOADX,J),STRM1F(ILOADX,J)

1,'stress component in material 1',

1 'allowable stress in material 1',

1 'factor of safety for stress in material 1',

1 3,INUMTT,IMODX,CONMAX,ICONSX,IPOINC,CONSTX,WORDCX,

1 WORDMX,PCWORD,CPLOTX,ICARX)

IF (IMODX.EQ.0) THEN

CODPHR =

1 ' stress component in material 1: '

IENDP4 =34

CODNAM ='STRM1('//CIX//','//CJX//')'

MLET4 =5 + 7

WORDBX(KCONX)= CODPHR(1:IENDP4)//CODNAM(1:MLET4)

IF (NPRINX.GT.0) WRITE(IFILE8,'(I5,6X,G14.7,A,A)')

1 KCONX,CARX(KCONX),CODPHR(1:IENDP4),CODNAM(1:MLET4)

ENDIF

190 CONTINUE

191 CONTINUE

C

C Behavior and constraints generated next for STRM2:

C STRM2 = stress component in material 2

C

IF (JSTRM1 .EQ.0) GO TO 206

IF (NPRINX.GT.0) THEN

IF (JSTRM1 .GT.1) THEN

WRITE(IFILE8,'(1X,A)')' '

WRITE(IFILE8,'(1X,A,$)')' BEHAVIOR OVER J = '

WRITE(IFILE8,'(1X,A)')

1 'stress component number'

ENDIF

ENDIF

DO 205 J=1,JSTRM1

CALL CONVR2(J,CJX)

PHRASE =

1 'stress component in material 2'

CALL BLANKX(PHRASE,IENDP4)

JXX = JXX + 1

STRM2(ILOADX,J) = 0.0

IF (IBEHV(JXX).EQ.0) CALL BEHX3

1 (IFILE8,NPRINX,IMODX,IFAST,ILOADX,J,

1 'stress component in material 2')

IF (STRM2(ILOADX,J).EQ.0.) STRM2(ILOADX,J) = 1.E-10

IF (STRM2A(ILOADX,J).EQ.0.) STRM2A(ILOADX,J) = 1.0

IF (STRM2F(ILOADX,J).EQ.0.) STRM2F(ILOADX,J) = 1.0

KCONX = KCONX + 1

CARX(KCONX) =STRM2(ILOADX,J)

WORDCX= '(STRM2A('//CIX//','//CJX//')/STRM2('//CIX//','//CJX//

1 ')) / STRM2F('//CIX//','//CJX//')'

CALL CONX(STRM2(ILOADX,J),STRM2A(ILOADX,J),STRM2F(ILOADX,J)

1,'stress component in material 2',

1 'allowable for stress in material 2',

1 'factor of safety for stress in material 2',

1 3,INUMTT,IMODX,CONMAX,ICONSX,IPOINC,CONSTX,WORDCX,

1 WORDMX,PCWORD,CPLOTX,ICARX)

IF (IMODX.EQ.0) THEN

CODPHR =

1 ' stress component in material 2: '

IENDP4 =34

CODNAM ='STRM2('//CIX//','//CJX//')'

MLET4 =5 + 7

WORDBX(KCONX)= CODPHR(1:IENDP4)//CODNAM(1:MLET4)

IF (NPRINX.GT.0) WRITE(IFILE8,'(I5,6X,G14.7,A,A)')

1 KCONX,CARX(KCONX),CODPHR(1:IENDP4),CODNAM(1:MLET4)

ENDIF

205 CONTINUE

206 CONTINUE

C

C Behavior and constraints generated next for STRM3:

C STRM3 = stress component in material 3

C

IF (JSTRM1 .EQ.0) GO TO 221

IF (NPRINX.GT.0) THEN

IF (JSTRM1 .GT.1) THEN

WRITE(IFILE8,'(1X,A)')' '

WRITE(IFILE8,'(1X,A,$)')' BEHAVIOR OVER J = '

WRITE(IFILE8,'(1X,A)')

1 'stress component number'

ENDIF

ENDIF

DO 220 J=1,JSTRM1

CALL CONVR2(J,CJX)

PHRASE =

1 'stress component in material 3'

CALL BLANKX(PHRASE,IENDP4)

JXX = JXX + 1

STRM3(ILOADX,J) = 0.0

IF (IBEHV(JXX).EQ.0) CALL BEHX4

1 (IFILE8,NPRINX,IMODX,IFAST,ILOADX,J,

1 'stress component in material 3')

IF (STRM3(ILOADX,J).EQ.0.) STRM3(ILOADX,J) = 1.E-10

IF (STRM3A(ILOADX,J).EQ.0.) STRM3A(ILOADX,J) = 1.0

IF (STRM3F(ILOADX,J).EQ.0.) STRM3F(ILOADX,J) = 1.0

KCONX = KCONX + 1

CARX(KCONX) =STRM3(ILOADX,J)

WORDCX= '(STRM3A('//CIX//','//CJX//')/STRM3('//CIX//','//CJX//

1 ')) / STRM3F('//CIX//','//CJX//')'

CALL CONX(STRM3(ILOADX,J),STRM3A(ILOADX,J),STRM3F(ILOADX,J)

1,'stress component in material 3',

1 'allowable for stress in material 3',

1 'factor of safety for stress in material 3',

1 3,INUMTT,IMODX,CONMAX,ICONSX,IPOINC,CONSTX,WORDCX,

1 WORDMX,PCWORD,CPLOTX,ICARX)

IF (IMODX.EQ.0) THEN

CODPHR =

1 ' stress component in material 3: '

IENDP4 =34

CODNAM ='STRM3('//CIX//','//CJX//')'

MLET4 =5 + 7

WORDBX(KCONX)= CODPHR(1:IENDP4)//CODNAM(1:MLET4)

IF (NPRINX.GT.0) WRITE(IFILE8,'(I5,6X,G14.7,A,A)')

1 KCONX,CARX(KCONX),CODPHR(1:IENDP4),CODNAM(1:MLET4)

ENDIF

220 CONTINUE

221 CONTINUE

C

C NEXT, EVALUATE THE OBJECTIVE, OBJGEN:

IF (ILOADX.EQ.1) THEN

PHRASE ='weight/length of the balloon'

CALL BLANKX(PHRASE,IENDP4)

CALL OBJECT(IFILE8,NPRINX,IMODX,OBJGEN,

1 'weight/length of the balloon')

ENDIF

NCONSX = ICONSX

C

# CALL CLSGEN

C

RETURN

END

C

C

C

C

C

C End of the final portion of STRUCT written by "GENTEXT"

C=======================================================================

C

C=DECK TRANFR

SUBROUTINE TRANFR(ARG1,ARG2,ARG3,ARG4,ARG5)

C

C USER: DO NOT FORGET TO MODIFY THE ARGUMENT LIST OF TRANFR AS

C APPROPRIATE FOR YOUR CASE!

C

C PURPOSE IS TO TRANSFER DATA FROM THE LABELLED COMMON BLOCKS

C SET UP BY THE GENOPT CODE TO LABELLED COMMON OR ARGUMENTS IN

C THE SUBROUTINE ARGUMENT LIST THAT MATCH PREVIOUSLY WRITTEN CODE

C BY YOURSELF OR OTHER PROGRAM DEVELOPERS. THE USER SHOULD ESTABLISH

C THE ARGUMENT LIST AND/OR LABELLED COMMON BLOCKS THAT MATCH VARIABLES

C IN THE PREVIOUSLY WRITTEN CODE. FOR AN EXAMPLE, SEE THE DISCUSSION

C OF THE CASE CALLED "PANEL".

C

C==========================================================================

C Start of part of TRANFR written by "GENTEXT"

C INSERT ADDITIONAL COMMON BLOCKS HERE: (THESE ARE "GENTEXT" VARIABLES)

COMMON/FV03/EMOD1(10),IEMOD1

REAL EMOD1

COMMON/FV04/EMOD2(10),G12(10),G13(10),G23(10),NU(10),ALPHA1(10)

REAL EMOD2,G12,G13,G23,NU,ALPHA1

COMMON/FV01/LENGTH,RADIUS,HEIGHT,RINNER,ROUTER,TINNER,TOUTER

REAL LENGTH,RADIUS,HEIGHT,RINNER,ROUTER,TINNER,TOUTER

COMMON/FV10/ALPHA2(10),TEMPER(10),DENSTY(10)

REAL ALPHA2,TEMPER,DENSTY

COMMON/FV21/PINNER(20)

REAL PINNER

COMMON/FV26/GENBUK(20),GENBUKA(20),GENBUKF(20)

REAL GENBUK,GENBUKA,GENBUKF

COMMON/FV29/STRM1(20,5 ),JSTRM1 ,STRM1A(20,5 ),STRM1F(20,5 )

REAL STRM1,STRM1A,STRM1F

COMMON/FV32/STRM2(20,5 ),STRM2A(20,5 ),STRM2F(20,5 )

REAL STRM2,STRM2A,STRM2F

COMMON/FV35/STRM3(20,5 ),STRM3A(20,5 ),STRM3F(20,5 )

REAL STRM3,STRM3A,STRM3F

COMMON/IV01/NMODUL

INTEGER NMODUL

COMMON/FV18/TFINNR,TFOUTR,TFWEBS,WEIGHT

REAL TFINNR,TFOUTR,TFWEBS,WEIGHT

COMMON/FV22/PMIDDL(20),POUTER(20)

REAL PMIDDL,POUTER

C

C

C End of part of TRANFR written by "GENTEXT"

C==========================================================================

C INSERT ADDITIONAL DIMENSION AND/OR LABELLED COMMON BLOCKS HERE,

C IF NECESSARY. THESE WOULD BE STATEMENTS THAT ARE CONSISTENT WITH

C SUBROUTINES THAT YOU OR OTHERS MAY HAVE WRITTEN THAT ARE REQUIRED

C FOR WHATEVER ANALYSIS YOU ARE NOW PERSUING. MAKE SURE THERE ARE

C NO NAME CONFLICTS WITH THE "GENTEXT" LABELLED COMMON BLOCKS.

C

C

C INSERT APPROPRIATE FORTRAN STATEMENTS HERE (DON'T FORGET TO CORRECT

C THE ARGUMENT LIST OF SUBROUTINE TRANFR!)

C PROGRAM FILE:

C

C

RETURN

END

C

C

C

==================================================================