

ANSYS analysis of Deep Drawing Process

Asst. Prof. Dr. Hani Aziz Ameen
Technical College- Baghdad
Dies and Tools Engineering Department
E-mail:haniazizameen@yahoo.com

Finite element model

Nonlinear Finite Element Formulation can be expressed mainly by three type of nonlinearities: Geometric nonlinearly, Material nonlinearly and Contact nonlinearly. The entire process of performing a finite element analysis of a metal forming operation. The input data for an ANSYS analysis are prepared using a preprocessor. The general preprocessor (PREP7) contains powerful solid modeling and mesh generation capabilities, and is also used to define all other analysis data geometric properties (real constants), material properties, constraints, loads, etc. . The 3-D 8-node structural element of Solid45 was used for blank. The tool set punch, die and blankholder were modeled as rigid bodies. Three different types of nonlinearity evident in the current study are Geometric nonlinearity where Lagrangian procedure can be used to analyze geometric nonlinear (NLGEOM,ON), nonlinear boundary conditions which results from contact and frictional effects where contact procedure in ANSYS was used to model the complex interaction between the blank and tooling. For rigid (tool set)-flexible (blank) contact, 3D CONTAC170 ,174 are used, to represent 3D target (tool set) surfaces which were associated with the deformable body (blank) represented by 3D 8-node Solid45. The movement of the punch was defined using a ***pilot node***; this node was also employed to obtain the drawing force during the simulation and material nonlinearity, which results from the nonlinear relationship between stresses and strains, Hill's theory is used to represent the material behavior (TB,Hill) . Only one quarter of the tooling and the part are modeled because of the axisymmetry. The finite element model as the following steps:

/filename,ED deep Drawing

/nerr,10000,10000,off

/prep7

rp=5

rd=5

v=120

/title,Dr.Hani Aziz Ameen, Technical College, Baghdad,2011

```
ET,1,45
MP,eX,1,200000e6
MP,nuXY,1,0.3
tb,biso,1
tbdata,1,200e6,500e6
TB,HILL,1
TBDATA,1,1.56,2.12,1.26,0.84,1,1
!=====
!plot the punch
!=====
k,1,0,0.006/1000,0
k,2,(20-rp)/1000,0.006/1000,0
k,3,(20-rp)/1000,(rp+0.006)/1000,0
k,4,20/1000,(rp+0.006)/1000,0
k,5,20/1000,46/1000,0
l,1,2
larc,2,4,3,rp/1000
l,4,5
k,100,(20-rp)/1000,(rp+0.006)/1000,0
k,101,(20-rp)/1000,(rp+0.006)/1000,-(20-rp)/1000
l,100,101
adrag,1,2,3,,,4
k,102,0,(rp+0.006)/1000,-(20-rp)/1000
arotat,5,,,,,101,102,-90
arotat,8,,,,,101,7,-90
arotat,10,,,,,101,7,-90
adrag,17,,,,,1
!=====
clocal,18,0,,,0,90
csys,18
wpcsys,1,18
!plot the blank
!=====
cylind,0,39/1000,0,0.6/1000,0,-90
csys,0
wpcsys,1,0

!=====
! plot the blank holder
!=====
```

```
k,23,45/1000,0,0
k,24,20.25/1000,0,0
l,24,23
k,110,15/1000,5/1000,0
k,103,15/1000,5/1000,-20.25/1000
k,104,15/1000,5/1000,-40/1000
l,110,103
l,103,104
adrag,32,,,,,33
adrag,35,,,,,34
k,105,20.25/1000,0.006/1000,0
l,105,1
adrag,39,,,,,41
aadd,13,14,15
!=====
!plot the die
!=====
k,31,20.66/1000,-20.6/1000,0
k,32,20.66/1000,-(rd+0.6)/1000,0
k,33,(20.66+rd)/1000,-(rd+0.6)/1000,0
k,34,(20.66+rd)/1000,-(0.6/1000),0
k,35,46/1000,-0.6/1000,0
l,31,32
larc,32,34,33,rd/1000
l,34,35
k,106,(20.66+rd)/1000,-(rd+0.6)/1000,-(20.66-rd)/1000
l,33,106
adrag,35,39,45,,,46
k,107,(20.66-rd)/1000,-20.6/1000,-(20.66-rd)/1000
k,108,(20.66-rd)/1000,-(rd+0.6)/1000,-(20.66-rd)/1000
arotat,47,50,52,,,107,108,90
k,109,0,-(rd+0.6)/1000,-(20.66-rd)/1000
l,108,109
adrag,54,55,56,,,61
ldele,4,,,1
kdele,102,,,
ldele,33,34,1,1
ldele,46,,,0
kdele,106,,,
ldele,61,,,1
```

kdele,107,,,

!finishing plotting

!=====

!meshing

!=====

lesize,29,0.6/1000

lesize,30,0.6/1000

lesize,31,0.6/1000

lesize,23,1/1000

lesize,24,1/1000

lesize,25,3/1000

lesize,26,3/1000

lesize,27,1/1000

lesize,28,1/1000

esize,3/1000

mshap,0,3d !equilateral elem

mshkey,2

type,1

mat,1

VSWEEP,1

!=====

MP,MU,1,0.05

MAT,1

MP,EMIS,1,7.88860905221e-031

R,3

REAL,3

ET,2,170

ET,3,174

R,3,,,1.0,0.1,0,

RMORE,,,1.0E20,0.0,1.0,

RMORE,0.0,0,1.0,,1.0,0.5

RMORE,0,1.0,1.0,0.0,,1.0

KEYOPT,3,4,0

KEYOPT,3,5,0

NROPT,UNSYM

KEYOPT,3,7,0

```
KEYOPT,3,8,0
KEYOPT,3,9,0
KEYOPT,3,10,1
KEYOPT,3,11,0
KEYOPT,3,12,0
KEYOPT,3,2,0
KEYOPT,2,1,0
KEYOPT,2,2,0
KEYOPT,2,3,0
KEYOPT,2,5,0
! Generate the target surface
ASEL,S,,1
ASEL,A,,2
ASEL,A,,3
ASEL,A,,4
ASEL,A,,5
ASEL,A,,6
ASEL,A,,7
CM,_TARGET,AREA
AATT,-1,3,2,-1
TYPE,2
AMESH,ALL
! Create a pilot node
! At center of mass of target geometric entities
N,8141, 0.013727711402,0.0195471818998,-0.013727711402
TSHAP,PILO
E,8141
! Generate the contact surface
ASEL,S,,8
CM,_CONTACT,AREA
TYPE,3
NSLA,S,1
ESLN,S,0
ESURF
ALLSEL
ESEL,ALL
ESEL,S,TYPE,,2
ESEL,A,TYPE,,3
ESEL,R,REAL,,3
ASEL,S,REAL,,3
```

```
! Reverse target normals
FLST,5,4,5,ORDE,3
FITEM,5,1
FITEM,5,-3
FITEM,5,7
CM,_Y,AREA
ASEL,,,P51X
CM,_YLN,LINE
CM,_YEL,ELEM
CM,_YND,NODE
LSLA,S,1
NSLA,S,1
ESLN,S,1
ESEL,R,REAL,,_REALID
ESURF,,REVERSE
CMSEL,S,_Y
CMSEL,S,_YLN
CMSEL,S,_YEL
CMSEL,S,_YND
CMDELE,_Y
CMDELE,_YLN
CMDELE,_YEL
CMDELE,_YND
ESEL,ALL
ESEL,S,TYPE,,2
ESEL,A,TYPE,,3
ESEL,R,REAL,,3
ASEL,S,REAL,,3
ESEL,ALL
ESEL,S,TYPE,,2
ESEL,A,TYPE,,3
ESEL,R,REAL,,3
ASEL,S,REAL,,3
!=====
MP,MU,1,0.05
MAT,1
MP,EMIS,1,7.88860905221e-031
R,4
REAL,4
ET,4,170
```

```
ET,5,174
R,4,,,1.0,0.1,0,
RMORE,,,1.0E20,0.0,1.0,
RMORE,0.0,0,1.0,,1.0,0.5
RMORE,0,1.0,1.0,0.0,,1.0
KEYOPT,5,4,0
KEYOPT,5,5,0
NROPT,UNSYM
KEYOPT,5,7,0
KEYOPT,5,8,0
KEYOPT,5,9,0
KEYOPT,5,10,1
KEYOPT,5,11,0
KEYOPT,5,12,0
KEYOPT,5,2,0
KEYOPT,4,1,0
KEYOPT,4,2,0
KEYOPT,4,3,0
KEYOPT,4,5,0
! Generate the target surface
ASEL,S,,,16
CM,_TARGET,AREA
AATT,-1,4,4,-1
TYPE,4
AMESH,ALL
! Create a pilot node
! At center of mass of target geometric entities
N,2685, 0.0261509004452,0,-0.0229133447997
TSHAP,PILO
E,2685
! Generate the contact surface
ASEL,S,,,8
CM,_CONTACT,AREA
TYPE,5
NSLA,S,1
ESLN,S,0
ESURF
*SET,_REALID,4
ALLSEL
ESEL,ALL
```

```
ESEL,S,TYPE,,4
ESEL,A,TYPE,,5
ESEL,R,REAL,,4
ASEL,S,REAL,,4
! /PSYMB,ESYS,1
! /PNUM,TYPE,1
! /NUM,1
! EPLOT
! Reverse target normals
CM,_Y,AREA
ASEL, , , , 16
CM,_YLN,LINE
CM,_YEL,ELEM
CM,_YND,NODE
LSLA,S,1
NSLA,S,1
ESLN,S,1
ESEL,R,REAL,,_REALID
ESURF,,REVERSE
CMSEL,S,_Y
CMSEL,S,_YLN
CMSEL,S,_YEL
CMSEL,S,_YND
CMDELE,_Y
CMDELE,_YLN
CMDELE,_YEL
CMDELE,_YND
! /REPLOT
!*
ESEL,ALL
ESEL,S,TYPE,,4
ESEL,A,TYPE,,5
ESEL,R,REAL,,4
ASEL,S,REAL,,4
! /PSYMB,ESYS,1
! /PNUM,TYPE,1
! /NUM,1
! EPLOT
ESEL,ALL
ESEL,S,TYPE,,4
```

```
ESEL,A,TYPE,,5
ESEL,R,REAL,,4
ASEL,S,REAL,,4

!=====
MP,MU,1,0.05
MAT,1
MP,EMIS,1,7.88860905221e-031
R,5
REAL,5
ET,6,170
ET,7,174
R,5,,,1.0,0.1,0,
RMORE,,,1.0E20,0.0,1.0,
RMORE,0.0,0,1.0,,1.0,0.5
RMORE,0,1.0,1.0,0.0,,1.0
KEYOPT,7,4,0
KEYOPT,7,5,0
NROPT,UNSYM
KEYOPT,7,7,0
KEYOPT,7,8,0
KEYOPT,7,9,0
KEYOPT,7,10,1
KEYOPT,7,11,0
KEYOPT,7,12,0
KEYOPT,7,2,0
KEYOPT,6,1,0
KEYOPT,6,2,0
KEYOPT,6,3,0
KEYOPT,6,5,0
! Generate the target surface
ASEL,S,,,13
ASEL,A,,,14
ASEL,A,,,15
ASEL,A,,,17
ASEL,A,,,18
ASEL,A,,,19
ASEL,A,,,20
ASEL,A,,,21
ASEL,A,,,22
```

```
CM,_TARGET,AREA
AATT,-1,5,6,-1
TYPE,6
AMESH,ALL
! Generate the contact surface
ASEL,S,,,9
CM,_CONTACT,AREA
TYPE,7
NSLA,S,1
ESLN,S,0
ESURF
*SET,_REALID,5
ALLSEL
ESEL,ALL
ESEL,S,TYPE,,6
ESEL,A,TYPE,,7
ESEL,R,REAL,,5
ASEL,S,REAL,,5
! Reverse target normals
FLST,5,3,5,ORDE,2
FITEM,5,17
FITEM,5,-19
CM,_Y,AREA
ASEL,,,P51X
CM,_YLN,LINE
CM,_YEL,ELEM
CM,_YND,NODE
LSLA,S,1
NSLA,S,1
ESLN,S,1
ESEL,R,REAL,,_REALID
ESURF,,REVERSE
CMSEL,S,_Y
CMSEL,S,_YLN
CMSEL,S,_YEL
CMSEL,S,_YND
CMDELE,_Y
CMDELE,_YLN
CMDELE,_YEL
CMDELE,_YND
```

```
ESEL,ALL
ESEL,S,TYPE,,6
ESEL,A,TYPE,,7
ESEL,R,REAL,,5
ASEL,S,REAL,,5
ESEL,ALL
ESEL,S,TYPE,,6
ESEL,A,TYPE,,7
ESEL,R,REAL,,5
ASEL,S,REAL,,5
!=====

!=====
finish
/config,nres,10000000
finish
/solu

antype,4
trnopt,full
nlgeom,on
kbc,0
ncnv,0
!cutcontrol,plslimit,0.20
!=====

! b.c on blank
asel,s,,,11
nsla,s,1
d,all,ux,0
allsel,all
asel,s,,,12
nsla,s,1
d,all,uz,0
allsel,all
nsel,s,,,2685
sf,all,pres,-10e3/4
allsel,all
!=====
! 1
```

!-----

```
nsel,s,,,8141
d,all,uy,-1/1000
allsel
time,1/v
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.01/v
cnvtol,u,0.25,.1
NEQIT,99
eqslv,sparse
!save
solve
!save
```

```
! 2
!----
nsel,s,,,8141
d,all,uy,-2/1000
allsel
time,2/v
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.008/v
cnvtol,u,0.25,.1
NEQIT,99
eqslv,sparse
!save
solve
!save
! 3
!-----
nsel,s,,,8141
```

d,all,uy,-3/1000

allsel

time,3/v

nropt,full

nlgeom,on

outre,all,all

outpr,all,all

deltim,0.007/v

cnvtol,u,0.250,.1

NEQIT,99

eqslv,sparse

!save

solve

!save

! 3.5

!-----

nsel,s,,,8141

d,all,uy,-3.5/1000

allsel

time,3.5/v

nlgeom,on

outre,all,all

outpr,all,all

nropt,full

deltim,0.009/v

cnvtol,u,0.300,.1

NEQIT,99

eqslv,sparse

!save

solve

!save

! 4

!-----

nsel,s,,,8141

d,all,uy,-4/1000

allsel

time,4/v

nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.009/v
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
!save
solve
!save

! 4.5
!-----
nselect,s,,,8141
d,all,uy,-4.5/1000
allselect
time,4.5/v

nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.008/v
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
!save
solve
!save

! 5
!-----
nselect,s,,,8141
d,all,uy,-5/1000
allselect
time,5/v

nlgeom,on

```
outre,all,all
outpr,all,all
nropt,full
deltim,0.008/v
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
!save
solve
!save
! 5.5
!-----
nsel,s,,,8141
d,all,uy,-5.5/1000
allsel
time,5.5/v
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.008/v
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
!save
solve
!save
! 6
!-----
nsel,s,,,8141
d,all,uy,-6/1000
allsel
time,6/v
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.008/v
```

```
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
!save
solve
!save
! 6.25
!-----
nselect,s,,,8141
d,all,uy,-6.25/1000
allsel
time,6.25/v
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.008/v
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
!save
solve
!save
```

```
! 6.5
!-----
nselect,s,,,8141
d,all,uy,-6.5/1000
allsel
time,6.5/v
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.003/v
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
```

```
!save
solve
!save
! 6.75
!-----
nsel,s,,,8141
d,all,uy,-6.75/1000
allsel
time,6.75/v
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.003/v
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
!save
solve
!save
! 7
!-----
nsel,s,,,8141
d,all,uy,-7/1000
allsel
time,7/v
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.003/v
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
!save
solve
!save
! 7.2
```

```
!-----
nselect,s,,,8141
d,all,uy,-7.2/1000
allsel
time,7.2/v
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/v
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
!save
solve
!save
! 7.4
!-----
nselect,s,,,8141
d,all,uy,-7.4/1000
allsel
time,7.4/v
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/v
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
!save
solve
!save
! 7.6
!-----
nselect,s,,,8141
d,all,uy,-7.6/1000
allsel
time,7.6/v
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/v
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
!save
solve
!save
! 7.8
!-----
nsel,s,,,8141
d,all,uy,-7.8/1000
allsel
time,7.8/v
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/v
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
!save
solve
!save
```

```
! 8
!-----
nsel,s,,,8141
d,all,uy,-8/1000
allsel
time,8/v
```

```
nlgeom,on
outre,all,all
outpr,all,all
```

```
nropt,full
deltim,0.006/v
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
!save
solve
!save
! 8.2
!-----
nsel,s,,,8141
d,all,uy,-8.2/1000
allsel
time,8.2/v
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/v
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
!save
solve
!save
! 8.4
!-----
nsel,s,,,8141
d,all,uy,-8.4/1000
allsel
time,8.4/v
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/v
cnvtol,u,0.300,.1
NEQIT,99
```

```
eqslv,sparse
!save
solve
!save
! 8.6
!-----
nselect,s,,,8141
d,all,uy,-8.6/1000
allsel
time,8.6/v
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/v
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
!save
solve
!save
! 8.8
!-----
nselect,s,,,8141
d,all,uy,-8.8/1000
allsel
time,8.8/v
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/v
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
!save
solve
!save
```

```
! 9
!-----
nsel,s,,,8141
d,all,uy,-9./1000
allsel
time,9./v

nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/v
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
!save
solve
!save
! 9.2
!-----
nsel,s,,,8141
d,all,uy,-9.2/1000
allsel
time,9.2/v

nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/v
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
!save
solve
!save
! 9.4
!-----
nsel,s,,,8141
d,all,uy,-9.4/1000
```

```
allsel  
time,9.4/v
```

```
nlgeom,on  
outre,all,all  
outpr,all,all  
nropt,full  
deltim,0.006/v  
cnvtol,u,0.300,.1  
NEQIT,99  
eqslv,sparse  
!save  
solve  
!save  
! 9.6  
!-----  
nsel,s,,,8141  
d,all,uy,-9.6/1000  
allsel  
time,9.6/v
```

```
nlgeom,on  
outre,all,all  
outpr,all,all  
nropt,full  
deltim,0.006/v  
cnvtol,u,0.300,.1  
NEQIT,99  
eqslv,sparse  
!save  
solve  
!save  
! 9.8  
!-----  
nsel,s,,,8141  
d,all,uy,-9.8/1000  
allsel  
time,9.8/v
```

```
nlgeom,on
```

```
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/v
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
!save
solve
!save
! 10
!-----
nsel,s,,,8141
d,all,uy,-10/1000
allsel
time,10/v
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/v
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
!save
solve
!save
```

```
! 10.2
!-----
nsel,s,,,8141
d,all,uy,-10.2/1000
allsel
time,10.2/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
```

```
deltim,0.003/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 10.4
!-----
nsel,s,,,8141
d,all,uy,-10.4/1000
allsel
time,10.4/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.003/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 10.6
!-----
nsel,s,,,8141
d,all,uy,-10.6/1000
allsel
time,10.6/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.003/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
```

```
save
solve
save

! 10.8
!-----
nselect,s,,,8141

d,all,uy,-10.8/1000
allsel
time,10.8/120
nlgeom,on
outre,all,all
outpr,all,all
deltim,0.006/120
nropt,full
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 11
!-----
nselect,s,,,8141
d,all,uy,-11/1000
allsel
time,11/120

nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
```

```
! 11.2
!-----
nsel,s,,,8141
d,all,uy,-11.2/1000
allsel
time,11.2/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
```

```
! 11.4
!-----
nsel,s,,,8141
d,all,uy,-11.4/1000
allsel
time,11.4/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
```

```
! 11.6
!-----
nsel,s,,,8141
d,all,uy,-11.6/1000
```

```
allsel  
time,11.6/120
```

```
nlgeom,on  
outre,all,all  
outpr,all,all  
nropt,full  
deltim,0.006/120  
cnvtol,u,0.300,.1  
NEQIT,99  
eqslv,sparse  
save  
solve  
save  
! 11.8  
!-----  
nsel,s,,,8141  
d,all,uy,-11.8/1000  
allsel  
time,11.8/120
```

```
nlgeom,on  
outre,all,all  
outpr,all,all  
nropt,full  
deltim,0.006/120  
cnvtol,u,0.300,.1  
NEQIT,99  
eqslv,sparse  
save  
solve  
save  
! 12  
!-----  
nsel,s,,,8141  
d,all,uy,-12/1000  
allsel  
time,12/120
```

```
nlgeom,on
```

```
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 12.2
!-----
nsel,s,,,8141
d,all,uy,-12.2/1000
allsel
time,12.2/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 12.4
!-----
nsel,s,,,8141
d,all,uy,-12.4/1000
allsel
time,12.4/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
```

```
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 12.6
!-----
nsel,s,,,8141
d,all,uy,-12.6/1000
allsel
time,12.6/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 12.8
!-----
nsel,s,,,8141
d,all,uy,-12.8/1000
allsel
time,12.8/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
```

```
solve
save
! 13
!-----
nsel,s,,,8141
d,all,uy,-13/1000
allsel
time,13/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 13.2
!-----
nsel,s,,,8141
d,all,uy,-13.2/1000
allsel
time,13.2/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 13.4
!-----
```

```
nsel,s,,,8141
d,all,uy,-13.4/1000
allsel
time,13.4/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 13.6
!-----
```

```
nsel,s,,,8141
d,all,uy,-13.6/1000
allsel
time,13.6/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 13.8
!-----
```

```
nsel,s,,,8141
d,all,uy,-13.8/1000
allsel
time,13.8/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 14
!-----
nsel,s,,,8141
d,all,uy,-14/1000
allsel
time,14/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 14.150
!-----
nsel,s,,,8141
d,all,uy,-14.150/1000
allsel
time,14.150/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
```

```
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 14.3
!-----
nsel,s,,,8141
d,all,uy,-14.3/1000
allsel
time,14.3/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 14.450
!-----
nsel,s,,,8141
d,all,uy,-14.450/1000
allsel
time,14.450/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
```

```
eqslv,sparse
save
solve
save
! 14.6
!-----
nselect,s,,,8141
d,all,uy,-14.6/1000
allsel
time,14.6/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 14.750
!-----
nselect,s,,,8141
d,all,uy,-14.750/1000
allsel
time,14.750/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
```

```
! 14.9
!-----
nsel,s,,,8141
d,all,uy,-14.9/1000
allsel
time,14.9/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
```

```
! 15.050
!-----
nsel,s,,,8141
d,all,uy,-15.050/1000
allsel
time,15.050/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
```

```
! 15.2
!-----
nsel,s,,,8141
d,all,uy,-15.2/1000
```

```
allsel  
time,15.2/120
```

```
nlgeom,on  
outre,all,all  
outpr,all,all  
nropt,full  
deltim,0.006/120  
cnvtol,u,0.300,.1  
NEQIT,99  
eqslv,sparse  
save  
solve  
save  
! 15.350  
!-----  
nsel,s,,,8141  
d,all,uy,-15.350/1000  
allsel  
time,15.350/120
```

```
nlgeom,on  
outre,all,all  
outpr,all,all  
nropt,full  
deltim,0.006/120  
cnvtol,u,0.300,.1  
NEQIT,99  
eqslv,sparse  
save  
solve  
save  
! 15.5  
!-----  
nsel,s,,,8141  
d,all,uy,-15.5/1000  
allsel  
time,15.5/120
```

```
nlgeom,on
```

```
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 15.650
!-----
nsel,s,,,8141
d,all,uy,-15.650/1000
allsel
time,15.650/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 15.8
!-----
nsel,s,,,8141
d,all,uy,-15.8/1000
allsel
time,15.8/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
```

```
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 15.950
!-----
nsel,s,,,8141
d,all,uy,-15.950/1000
allsel
time,15.950/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 16.100
!-----
nsel,s,,,8141
d,all,uy,-16.100/1000
allsel
time,16.100/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
```

```
solve
save
! 16.250
!-----
nsel,s,,,8141
d,all,uy,-16.250/1000
allsel
time,16.250/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 16.4
!-----
nsel,s,,,8141
d,all,uy,-16.4/1000
allsel
time,16.4/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 16.550
!-----
```

```
nsel,s,,,8141
d,all,uy,-16.550/1000
allsel
time,16.550/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 16.7
!-----
```

```
nsel,s,,,8141
d,all,uy,-16.7/1000
allsel
time,16.7/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 16.8
!-----
```

```
nsel,s,,,8141
d,all,uy,-16.8/1000
allsel
time,16.8/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 16.9
!-----
nsel,s,,,8141
d,all,uy,-16.9/1000
allsel
time,16.9/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 17
!-----
nsel,s,,,8141
d,all,uy,-17/1000
allsel
time,17/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
```

```
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 17.1
!-----
nsel,s,,,8141
d,all,uy,-17.1/1000
allsel
time,17.1/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 17.2
!-----
nsel,s,,,8141
d,all,uy,-17.2/1000
allsel
time,17.2/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
```

```
eqslv,sparse
save
solve
save
! 17.3
!-----
nselect,s,,,8141
d,all,uy,-17.3/1000
allsel
time,17.3/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 17.4
!-----
nselect,s,,,8141
d,all,uy,-17.4/1000
allsel
time,17.4/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
```

```
! 17.50
!-----
nselect,s,,,8141
d,all,uy,-17.50/1000
allsel
time,17.50/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
```

```
! 17.6
!-----
nselect,s,,,8141
d,all,uy,-17.6/1000
allsel
time,17.6/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
```

```
! 17.7
!-----
nselect,s,,,8141
d,all,uy,-17.7/1000
```

```
allsel  
time,17.7/120
```

```
nlgeom,on  
outre,all,all  
outpr,all,all  
nropt,full  
deltim,0.006/120  
cnvtol,u,0.300,.1  
NEQIT,99  
eqslv,sparse  
save  
solve  
save  
! 17.8  
!-----  
nsel,s,,,8141  
d,all,uy,-17.8/1000  
allsel  
time,17.8/120
```

```
nlgeom,on  
outre,all,all  
outpr,all,all  
nropt,full  
deltim,0.006/120  
cnvtol,u,0.300,.1  
NEQIT,99  
eqslv,sparse  
save  
solve  
save  
! 17.9  
!-----  
nsel,s,,,8141  
d,all,uy,-17.9/1000  
allsel  
time,17.9/120
```

```
nlgeom,on
```

```
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 18.00
!-----
nsel,s,,,8141
d,all,uy,-18.00/1000
allsel
time,18.00/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 18.1
!-----
nsel,s,,,8141
d,all,uy,-18.1/1000
allsel
time,18.1/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
```

```
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 18.2
!-----
nsel,s,,,8141
d,all,uy,-18.2/1000
allsel
time,18.2/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 18.3
!-----
nsel,s,,,8141
d,all,uy,-18.3/1000
allsel
time,18.3/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
```

```
solve
save
! 18.4
!-----
nsel,s,,,8141
d,all,uy,-18.4/1000
allsel
time,18.4/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 18.5
!-----
nsel,s,,,8141
d,all,uy,-18.5/1000
allsel
time,18.5/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 18.6
!-----
```

```
nsel,s,,,8141
d,all,uy,-18.6/1000
allsel
time,18.6/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 18.7
!-----
```

```
nsel,s,,,8141
d,all,uy,-18.7/1000
allsel
time,18.7/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 18.8
!-----
```

```
nsel,s,,,8141
d,all,uy,-18.8/1000
allsel
time,18.8/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 18.9
!-----
nsel,s,,,8141
d,all,uy,-18.9/1000
allsel
time,18.9/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
```

```
! 19.0
!-----
nsel,s,,,8141
d,all,uy,-19.0/1000
allsel
time,19.0/120
```

```
nlgeom,on
outre,all,all
```

```
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 19.1
!-----
nsel,s,,,8141
d,all,uy,-19.1/1000
allsel
time,19.1/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 19.2
!-----
nsel,s,,,8141
d,all,uy,-19.2/1000
allsel
time,19.2/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
```

```
NEQIT,99
eqslv,sparse
save
solve
save
! 19.3
!-----
nsel,s,,,8141
d,all,uy,-19.3/1000
allsel
time,19.3/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.003/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 19.4
!-----
nsel,s,,,8141
d,all,uy,-19.4/1000
allsel
time,19.4/v
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.003/v
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
```

```
save
! 19.5
!-----
nselect,s,,,8141
d,all,uy,-19.5/1000
allsel
time,19.5/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.003/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
```

```
save
solve
save
! 19.6
!-----
nselect,s,,,8141
d,all,uy,-19.6/1000
allsel
time,19.6/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.003/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
```

```
save
solve
save
! 19.7
!-----
nselect,s,,,8141
```

```
d,all,uy,-19.7/1000
allsel
time,19.7/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.003/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 19.8
!-----
nsel,s,,,8141
d,all,uy,-19.8/1000
allsel
time,19.8/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.003/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 19.9
!-----
nsel,s,,,8141
d,all,uy,-19.9/1000
allsel
time,19.9/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.003/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 20.0
!-----
nsel,s,,,8141
d,all,uy,-20.0/1000
allsel
time,20.0/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.003/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 20.1
!-----
nsel,s,,,8141
d,all,uy,-20.1/1000
allsel
time,20.1/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
```

```
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 20.2
!-----
nsel,s,,,8141
d,all,uy,-20.2/1000
allsel
time,20.2/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 20.3
!-----
nsel,s,,,8141
d,all,uy,-20.3/1000
allsel
time,20.3/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
```

```
save
solve
save
! 20.4
!-----
nsel,s,,,8141
d,all,uy,-20.4/1000
allsel
time,20.4/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 20.5
!-----
nsel,s,,,8141
d,all,uy,-20.5/1000
allsel
time,20.5/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 20.6
```

```
!-----  
nset,s,,,8141  
d,all,uy,-20.6/1000  
allsel  
time,20.6/120
```

```
nlgeom,on  
outre,all,all  
outpr,all,all  
nropt,full  
deltim,0.006/120  
cnvtol,u,0.300,.1  
NEQIT,99  
eqslv,sparse  
save  
solve  
save  
! 20.7
```

```
!-----  
nset,s,,,8141  
d,all,uy,-20.7/1000  
allsel  
time,20.7/120
```

```
nlgeom,on  
outre,all,all  
outpr,all,all  
nropt,full  
deltim,0.006/120  
cnvtol,u,0.300,.1  
NEQIT,99  
eqslv,sparse  
save  
solve  
save  
! 20.8
```

```
!-----  
nset,s,,,8141  
d,all,uy,-20.8/1000  
allsel
```

time,20.8/120

nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 20.9
!-----
nsel,s,,,8141
d,all,uy,-20.9/1000
allsel
time,20.9/120

nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save

! 21.0
!-----
nsel,s,,,8141
d,all,uy,-21.0/1000
allsel
time,21.0/120

nlgeom,on

```
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 21.1
!-----
nsel,s,,,8141
d,all,uy,-21.1/1000
allsel
time,21.1/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 21.2
!-----
nsel,s,,,8141
d,all,uy,-21.2/1000
allsel
time,21.2/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
```

```
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 21.3
!-----
nsel,s,,,8141
d,all,uy,-21.3/1000
allsel
time,21.3/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 21.4
!-----
nsel,s,,,8141
d,all,uy,-21.4/1000
allsel
time,21.4/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
```

```
solve
save
! 21.5
!-----
nsel,s,,,8141
d,all,uy,-21.5/1000
allsel
time,21.5/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 21.6
!-----
nsel,s,,,8141
d,all,uy,-21.6/1000
allsel
time,21.6/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 21.7
!-----
```

```
nsel,s,,,8141
d,all,uy,-21.7/1000
allsel
time,21.7/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 21.8
!-----
```

```
nsel,s,,,8141
d,all,uy,-21.8/1000
allsel
time,21.8/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 21.9
!-----
```

```
nsel,s,,,8141
d,all,uy,-21.9/1000
allsel
time,21.9/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 22.0
!-----
nsel,s,,,8141
d,all,uy,-22.0/1000
allsel
time,22.0/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 22.1
!-----
nsel,s,,,8141
d,all,uy,-22.1/1000
allsel
time,22.1/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
```

```
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 22.2
!-----
nselect,s,,,8141
d,all,uy,-22.2/1000
allsel
time,22.2/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 22.3
!-----
nselect,s,,,8141
d,all,uy,-22.3/1000
allsel
time,22.3/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
```

```
eqslv,sparse
save
solve
save
! 22.4
!-----
nselect,s,,,8141
d,all,uy,-22.4/1000
allsel
time,22.4/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 22.5
!-----
nselect,s,,,8141
d,all,uy,-22.5/1000
allsel
time,22.5/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
```

```
! 22.6
!-----
nsel,s,,,8141
d,all,uy,-22.6/1000
allsel
time,22.6/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
```

```
! 22.7
!-----
nsel,s,,,8141
d,all,uy,-22.7/1000
allsel
time,22.7/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
```

```
! 22.8
!-----
nsel,s,,,8141
d,all,uy,-22.8/1000
```

```
allsel  
time,22.8/120
```

```
nlgeom,on  
outre,all,all  
outpr,all,all  
nropt,full  
deltim,0.006/120  
cnvtol,u,0.300,.1  
NEQIT,99  
eqslv,sparse  
save  
solve  
save  
! 22.9  
!-----  
nsel,s,,,8141  
d,all,uy,-22.9/1000  
allsel  
time,22.9/120
```

```
nlgeom,on  
outre,all,all  
outpr,all,all  
nropt,full  
deltim,0.006/120  
cnvtol,u,0.300,.1  
NEQIT,99  
eqslv,sparse  
save  
solve  
save  
! 23.0  
!-----  
nsel,s,,,8141  
d,all,uy,-23.0/1000  
allsel  
time,23.0/120
```

```
nlgeom,on
```

```
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 23.1
!-----
nsel,s,,,8141
d,all,uy,-23.1/1000
allsel
time,23.1/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 23.2
!-----
nsel,s,,,8141
d,all,uy,-23.2/1000
allsel
time,23.2/v
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.003/v
```

```
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
!save
solve
save
! 23.3
!-----
nsel,s,,,8141
d,all,uy,-23.3/1000
allsel
time,23.3/v
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.003/v
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
!save
solve
!save
! 23.4
!-----
nsel,s,,,8141
d,all,uy,-23.4/1000
allsel
time,23.4/v
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
cutcontrol,plslimit,0.25
deltim,0.003/v
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
```

```
!save
solve
!save
! 23.5
!-----
nselect,s,,,8141
d,all,uy,-23.5/1000
allsel
time,23.5/v

nlgeom,on
outre,all,all
outpr,all,all
nropt,full
cutcontrol,plslimit,0.25
deltim,0.003/v
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
!save
solve
!save
! 23.6
!-----
nselect,s,,,8141
d,all,uy,-23.6/1000
allsel
time,23.6/v

nlgeom,on
outre,all,all
outpr,all,all
nropt,full
cutcontrol,plslimit,0.15
deltim,0.003/v
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
!save
solve
```

```
!save
! 23.7
!-----
nselect,s,,,8141
d,all,uy,-23.7/1000
allsel
time,23.7/v
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.003/v
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
!save
solve
!save
! 23.8
!-----
nselect,s,,,8141
d,all,uy,-23.8/1000
allsel
time,23.8/v
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.003/v
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
!save
solve
!save
! 23.9
!-----
nselect,s,,,8141
```

```
d,all,uy,-23.9/1000
allsel
time,23.9/v
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.003/v
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
!save
solve
!save
! 24.0
!-----
nsel,s,,,8141
d,all,uy,-24.0/1000
allsel
time,24.0/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 24.1
!-----
nsel,s,,,8141
d,all,uy,-24.1/1000
allsel
time,24.1/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 24.2
!-----
nsel,s,,,8141
d,all,uy,-24.2/1000
allsel
time,24.2/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 24.3
!-----
nsel,s,,,8141
d,all,uy,-24.3/1000
allsel
time,24.3/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
```

```
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 24.4
!-----
nsel,s,,,8141
d,all,uy,-24.4/1000
allsel
time,24.4/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 24.5
!-----
nsel,s,,,8141
d,all,uy,-24.5/1000
allsel
time,24.5/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
```

```
save
solve
save
! 24.6
!-----
nsel,s,,,8141
d,all,uy,-24.6/1000
allsel
time,24.6/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 24.7
!-----
nsel,s,,,8141
d,all,uy,-24.7/1000
allsel
time,24.7/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 24.8
```

```
!-----  
nset,s,,,8141  
d,all,uy,-24.8/1000  
allsel  
time,24.8/120
```

```
nlgeom,on  
outre,all,all  
outpr,all,all  
nropt,full  
deltim,0.006/120  
cnvtol,u,0.300,.1  
NEQIT,99  
eqslv,sparse  
save  
solve  
save  
! 24.9
```

```
!-----  
nset,s,,,8141  
d,all,uy,-24.9/1000  
allsel  
time,24.9/120
```

```
nlgeom,on  
outre,all,all  
outpr,all,all  
nropt,full  
deltim,0.006/120  
cnvtol,u,0.300,.1  
NEQIT,99  
eqslv,sparse  
save  
solve  
save  
! 25.0
```

```
!-----  
nset,s,,,8141  
d,all,uy,-25.0/1000  
allsel
```

time,25.0/120

nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save

! 25.1
!-----
nsel,s,,,8141
d,all,uy,-25.1/1000
allsel
time,25.1/120

nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save

! 25.2
!-----
nsel,s,,,8141
d,all,uy,-25.2/1000
allsel
time,25.2/120

nlgeom,on

```
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 25.3
!-----
nsel,s,,,8141
d,all,uy,-25.3/1000
allsel
time,25.3/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 25.4
!-----
nsel,s,,,8141
d,all,uy,-25.4/1000
allsel
time,25.4/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
```

```
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 25.5
!-----
nsel,s,,,8141
d,all,uy,-25.5/1000
allsel
time,25.5/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 25.6
!-----
nsel,s,,,8141
d,all,uy,-25.6/1000
allsel
time,25.6/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
```

```
solve
save
! 25.7
!-----
nsel,s,,,8141
d,all,uy,-25.7/1000
allsel
time,25.7/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 25.8
!-----
nsel,s,,,8141
d,all,uy,-25.8/1000
allsel
time,25.8/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 25.9
!-----
```

```
nsel,s,,,8141
d,all,uy,-25.9/1000
allsel
time,25.9/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
```

```
save
solve
save
! 26.0
!-----
```

```
nsel,s,,,8141
d,all,uy,-26.0/1000
allsel
time,26.0/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
```

```
save
solve
save
! 26.1
!-----
```

```
nsel,s,,,8141
d,all,uy,-26.1/1000
allsel
time,26.1/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 26.2
!-----
nsel,s,,,8141
d,all,uy,-26.2/1000
allsel
time,26.2/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 26.3
!-----
nsel,s,,,8141
d,all,uy,-26.3/1000
allsel
time,26.3/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
```

```
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 26.4
!-----
nsel,s,,,8141
d,all,uy,-26.4/1000
allsel
time,26.4/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 26.5
!-----
nsel,s,,,8141
d,all,uy,-26.5/1000
allsel
time,26.5/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
```

```
eqslv,sparse
save
solve
save
! 26.6
!-----
nselect,s,,,8141
d,all,uy,-26.6/1000
allsel
time,26.6/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 26.7
!-----
nselect,s,,,8141
d,all,uy,-26.7/1000
allsel
time,26.7/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
```

```
! 26.8
!-----
nsel,s,,,8141
d,all,uy,-26.8/1000
allsel
time,26.8/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
```

```
! 26.9
!-----
nsel,s,,,8141
d,all,uy,-26.9/1000
allsel
time,26.9/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
```

```
! 27.0
!-----
nsel,s,,,8141
d,all,uy,-27.0/1000
```

```
allsel  
time,27.0/120
```

```
nlgeom,on  
outre,all,all  
outpr,all,all  
nropt,full  
deltim,0.006/120  
cnvtol,u,0.300,.1  
NEQIT,99  
eqslv,sparse  
save  
solve  
save  
! 27.1  
!-----  
nsel,s,,,8141  
d,all,uy,-27.1/1000  
allsel  
time,27.1/120
```

```
nlgeom,on  
outre,all,all  
outpr,all,all  
nropt,full  
deltim,0.006/120  
cnvtol,u,0.300,.1  
NEQIT,99  
eqslv,sparse  
save  
solve  
save  
! 27.2  
!-----  
nsel,s,,,8141  
d,all,uy,-27.2/1000  
allsel  
time,27.2/120
```

```
nlgeom,on
```

```
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 27.3
!-----
nsel,s,,,8141
d,all,uy,-27.3/1000
allsel
time,27.3/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 27.4
!-----
nsel,s,,,8141
d,all,uy,-27.4/1000
allsel
time,27.4/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
```

```
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 27.5
!-----
nsel,s,,,8141
d,all,uy,-27.5/1000
allsel
time,27.5/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 27.6
!-----
nsel,s,,,8141
d,all,uy,-27.6/1000
allsel
time,27.6/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
```

```
solve
save
! 27.7
!-----
nsel,s,,,8141
d,all,uy,-27.7/1000
allsel
time,27.7/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 27.8
!-----
nsel,s,,,8141
d,all,uy,-27.8/1000
allsel
time,27.8/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 27.9
!-----
```

```
nsel,s,,,8141
d,all,uy,-27.9/1000
allsel
time,27.9/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 28.0
!-----
nsel,s,,,8141
d,all,uy,-28.0/1000
allsel
time,28.0/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 28.1
!-----
nsel,s,,,8141
d,all,uy,-28.1/1000
allsel
time,28.1/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 28.2
!-----
nsel,s,,,8141
d,all,uy,-28.2/1000
allsel
time,28.2/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 28.3
!-----
nsel,s,,,8141
d,all,uy,-28.3/1000
allsel
time,28.3/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
```

```
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 28.4
!-----
nsel,s,,,8141
d,all,uy,-28.4/1000
allsel
time,28.4/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 28.5
!-----
nsel,s,,,8141
d,all,uy,-28.5/1000
allsel
time,28.5/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
```

```
eqslv,sparse
save
solve
save
! 28.6
!-----
nselect,s,,,8141
d,all,uy,-28.6/1000
allsel
time,28.6/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 28.7
!-----
nselect,s,,,8141
d,all,uy,-28.7/1000
allsel
time,28.7/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
```

```
! 28.8
!-----
nsel,s,,,8141
d,all,uy,-28.8/1000
allsel
time,28.8/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
```

```
! 28.9
!-----
nsel,s,,,8141
d,all,uy,-28.9/1000
allsel
time,28.9/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
```

```
! 29.0
!-----
nsel,s,,,8141
d,all,uy,-29.0/1000
```

```
allsel  
time,29.0/120
```

```
nlgeom,on  
outre,all,all  
outpr,all,all  
nropt,full  
deltim,0.006/120  
cnvtol,u,0.300,.1  
NEQIT,99  
eqslv,sparse  
save  
solve  
save  
! 29.1  
!-----  
nsel,s,,,8141  
d,all,uy,-29.1/1000  
allsel  
time,29.1/120
```

```
nlgeom,on  
outre,all,all  
outpr,all,all  
nropt,full  
deltim,0.006/120  
cnvtol,u,0.300,.1  
NEQIT,99  
eqslv,sparse  
save  
solve  
save  
! 29.2  
!-----  
nsel,s,,,8141  
d,all,uy,-29.2/1000  
allsel  
time,29.2/120
```

```
nlgeom,on
```

```
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 29.3
!-----
nsel,s,,,8141
d,all,uy,-29.3/1000
allsel
time,29.3/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 29.4
!-----
nsel,s,,,8141
d,all,uy,-29.4/1000
allsel
time,29.4/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
```

```
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 29.5
!-----
nsel,s,,,8141
d,all,uy,-29.5/1000
allsel
time,29.5/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 29.6
!-----
nsel,s,,,8141
d,all,uy,-29.6/1000
allsel
time,29.6/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
```

```
solve
save
! 29.7
!-----
nsel,s,,,8141
d,all,uy,-29.7/1000
allsel
time,29.7/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 29.8
!-----
nsel,s,,,8141
d,all,uy,-29.8/1000
allsel
time,29.8/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 29.9
!-----
```

```
nsel,s,,,8141
d,all,uy,-29.9/1000
allsel
time,29.9/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 30.0
!-----
```

```
nsel,s,,,8141
d,all,uy,-30.0/1000
allsel
time,30.0/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 30.050
!-----
```

```
nsel,s,,,8141
d,all,uy,-30.050/1000
```

```
allsel  
time,30.050/120
```

```
nlgeom,on  
outre,all,all  
outpr,all,all  
nropt,full  
deltim,0.006/120  
cnvtol,u,0.300,.1  
NEQIT,99  
eqslv,sparse  
save  
solve  
save  
! 30.1  
!-----
```

```
nsel,s,,,8141  
d,all,uy,-30.1/1000  
allsel  
time,30.1/120
```

```
nlgeom,on  
outre,all,all  
outpr,all,all  
nropt,full  
deltim,0.006/120  
cnvtol,u,0.300,.1  
NEQIT,99  
eqslv,sparse  
save  
solve  
save  
! 30.150  
!-----
```

```
nsel,s,,,8141  
d,all,uy,-30.150/1000  
allsel  
time,30.150/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 30.2
!-----
```

```
nsel,s,,8141
d,all,uy,-30.2/1000
allsel
time,30.2/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 30.250
!-----
```

```
nsel,s,,8141
d,all,uy,-30.250/1000
allsel
time,30.250/120
```

```
nlgeom,on
outre,all,all
```

```
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
```

```
! 30.3
!-----
```

```
nsel,s,,,8141
d,all,uy,-30.3/1000
allsel
time,30.3/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 30.350
!-----
```

```
nsel,s,,,8141
d,all,uy,-30.350/1000
allsel
time,30.350/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
```

```
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 30.4
!-----
```

```
nsel,s,,,8141
d,all,uy,-30.4/1000
allsel
time,30.4/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 30.450
!-----
```

```
nsel,s,,,8141
d,all,uy,-30.450/1000
allsel
time,30.450/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
```

```
NEQIT,99
eqslv,sparse
save
solve
save
! 30.5
!-----
nsel,s,,,8141
d,all,uy,-30.5/1000
allsel
time,30.5/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 30.550
!-----
nsel,s,,,8141
d,all,uy,-30.550/1000
allsel
time,30.550/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
```

```
save
! 30.6
!-----
nselect,s,,,8141
d,all,uy,-30.6/1000
allsel
time,30.6/120

nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 30.650
!-----
nselect,s,,,8141
d,all,uy,-30.650/1000
allsel
time,30.650/120

nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 30.7
!-----
nselect,s,,,8141
```

```
d,all,uy,-30.7/1000  
allsel  
time,30.7/120
```

```
nlgeom,on  
outre,all,all  
outpr,all,all  
nropt,full  
deltim,0.006/120  
cnvtol,u,0.300,.1  
NEQIT,99  
eqslv,sparse  
save  
solve  
save  
! 30.750  
!-----  
nsel,s,,,8141  
d,all,uy,-30.750/1000  
allsel  
time,30.750/120
```

```
nlgeom,on  
outre,all,all  
outpr,all,all  
nropt,full  
deltim,0.006/120  
cnvtol,u,0.300,.1  
NEQIT,99  
eqslv,sparse  
save  
solve  
save  
! 30.8  
!-----  
nsel,s,,,8141  
d,all,uy,-30.8/1000  
allsel  
time,30.8/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 30.850
!-----
nsel,s,,,8141
d,all,uy,-30.850/1000
allsel
time,30.850/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 30.9
!-----
nsel,s,,,8141
d,all,uy,-30.9/1000
allsel
time,30.9/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
```

```
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 30.950
!-----
nselect,s,,,8141
d,all,uy,-30.950/1000
allsel
time,30.950/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 31.0
!-----
nselect,s,,,8141
d,all,uy,-31.0/1000
allsel
time,31.0/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
```

```
save
solve
save
! 31.050
!-----
nselect,s,,,8141
d,all,uy,-31.050/1000
allsel
time,31.050/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 31.1
!-----
nselect,s,,,8141
d,all,uy,-31.1/1000
allsel
time,31.1/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 31.150
```

```
!-----  
nset,s,,,8141  
d,all,uy,-31.150/1000  
allsel  
time,31.150/120
```

```
nlgeom,on  
outre,all,all  
outpr,all,all  
nropt,full  
deltim,0.006/120  
cnvtol,u,0.300,.1  
NEQIT,99  
eqslv,sparse  
save  
solve  
save  
! 31.2
```

```
!-----  
nset,s,,,8141  
d,all,uy,-31.2/1000  
allsel  
time,31.2/120
```

```
nlgeom,on  
outre,all,all  
outpr,all,all  
nropt,full  
deltim,0.006/120  
cnvtol,u,0.300,.1  
NEQIT,99  
eqslv,sparse  
save  
solve  
save  
! 31.250
```

```
!-----  
nset,s,,,8141  
d,all,uy,-31.250/1000  
allsel
```

time,31.250/120

nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 31.3
!-----
nselect,s,,,8141
d,all,uy,-31.3/1000
allsel
time,31.3/120

nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 31.350
!-----
nselect,s,,,8141
d,all,uy,-31.350/1000
allsel
time,31.350/120

nlgeom,on
outre,all,all

```
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 31.4
!-----
nsel,s,,,8141
d,all,uy,-31.4/1000
allsel
time,31.4/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 31.450
!-----
nsel,s,,,8141
d,all,uy,-31.450/1000
allsel
time,31.450/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
```

```
NEQIT,99
eqslv,sparse
save
solve
save
! 31.5
!-----
nsel,s,,,8141
d,all,uy,-31.5/1000
allsel
time,31.5/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 31.550
!-----
nsel,s,,,8141
d,all,uy,-31.550/1000
allsel
time,31.550/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
```

```
save
! 31.6
!-----
nselect,s,,,8141
d,all,uy,-31.6/1000
allsel
time,31.6/120

nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 31.650
!-----
nselect,s,,,8141
d,all,uy,-31.650/1000
allsel
time,31.650/120

nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 31.7
!-----
nselect,s,,,8141
```

```
d,all,uy,-31.7/1000  
allsel  
time,31.7/120
```

```
nlgeom,on  
outre,all,all  
outpr,all,all  
nropt,full  
deltim,0.006/120  
cnvtol,u,0.300,.1  
NEQIT,99  
eqslv,sparse  
save  
solve  
save  
! 31.750  
!-----  
nsel,s,,,8141  
d,all,uy,-31.750/1000  
allsel  
time,31.750/120
```

```
nlgeom,on  
outre,all,all  
outpr,all,all  
nropt,full  
deltim,0.006/120  
cnvtol,u,0.300,.1  
NEQIT,99  
eqslv,sparse  
save  
solve  
save  
! 31.8  
!-----  
nsel,s,,,8141  
d,all,uy,-31.8/1000  
allsel  
time,31.8/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 31.850
!-----
nsel,s,,,8141
d,all,uy,-31.850/1000
allsel
time,31.850/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 31.9
!-----
nsel,s,,,8141
d,all,uy,-31.9/1000
allsel
time,31.9/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
```

```
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 31.950
!-----
nselect,s,,,8141
d,all,uy,-31.950/1000
allsel
time,31.950/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 32.0
!-----
nselect,s,,,8141
d,all,uy,-32.0/1000
allsel
time,32.0/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
```

```
save
solve
save
! 32.050
!-----
nsel,s,,,8141
d,all,uy,-32.050/1000
allsel
time,32.050/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
```

```
! 32.1
!-----
nsel,s,,,8141
d,all,uy,-32.1/1000
allsel
time,32.1/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
```

```
! 32.150
!-----
nselect,s,,,8141
d,all,uy,-32.150/1000
allsel
time,32.150/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
```

```
! 32.2
!-----
nselect,s,,,8141
d,all,uy,-32.2/1000
allsel
time,32.2/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
```

```
! 32.250
!-----
nselect,s,,,8141
d,all,uy,-32.250/1000
```

```
allsel
time,32.250/120

nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 32.3
!-----
nsel,s,,,8141
d,all,uy,-32.3/1000
allsel
time,32.3/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 32.350
!-----
nsel,s,,,8141
d,all,uy,-32.350/1000
allsel
time,32.350/120
```

```
nlgeom,on
```

```
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 32.4
!-----
nsel,s,,,8141
d,all,uy,-32.4/1000
allsel
time,32.4/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 32.450
!-----
nsel,s,,,8141
d,all,uy,-32.450/1000
allsel
time,32.450/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
```

```
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 32.5
!-----
nsel,s,,,8141
d,all,uy,-32.5/1000
allsel
time,32.5/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 32.550
!-----
nsel,s,,,8141
d,all,uy,-32.550/1000
allsel
time,32.550/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
```

```
solve
save
! 32.6
!-----
nsel,s,,,8141
d,all,uy,-32.6/1000
allsel
time,32.6/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 32.650
!-----
nsel,s,,,8141
d,all,uy,-32.650/1000
allsel
time,32.650/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 32.7
!-----
```

```
nsel,s,,,8141
d,all,uy,-32.7/1000
allsel
time,32.7/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
```

```
save
solve
save
! 32.750
!-----
```

```
nsel,s,,,8141
d,all,uy,-32.750/1000
allsel
time,32.750/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
```

```
save
solve
save
! 32.8
!-----
```

```
nsel,s,,,8141
d,all,uy,-32.8/1000
allsel
time,32.8/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 32.850
!-----
nsel,s,,,8141
d,all,uy,-32.850/1000
allsel
time,32.850/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 32.9
!-----
nsel,s,,,8141
d,all,uy,-32.9/1000
allsel
time,32.9/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
```

```
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 32.950
!-----
nselect,s,,,8141
d,all,uy,-32.950/1000
allsel
time,32.950/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 33.0
!-----
nselect,s,,,8141
d,all,uy,-33.0/1000
allsel
time,33.0/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
```

```
eqslv,sparse
save
solve
save
! 33.050
!-----
nsel,s,,,8141
d,all,uy,-33.050/1000
allsel
time,33.050/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
```

```
! 33.1
!-----
nsel,s,,,8141
d,all,uy,-33.1/1000
allsel
time,33.1/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
```

```
save
! 33.150
!-----
nselect,s,,,8141
d,all,uy,-33.150/1000
allsel
time,33.150/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
```

```
save
solve
save
! 33.2
!-----
nselect,s,,,8141
d,all,uy,-33.2/1000
allsel
time,33.2/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
```

```
save
solve
save
! 33.250
!-----
nselect,s,,,8141
```

```
d,all,uy,-33.250/1000
allsel
time,33.250/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
```

```
save
```

```
solve
```

```
save
```

```
! 33.3
```

```
!-----
```

```
nsel,s,,,8141
```

```
d,all,uy,-33.3/1000
```

```
allsel
```

```
time,33.3/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
```

```
save
```

```
solve
```

```
save
```

```
! 33.350
```

```
!-----
```

```
nsel,s,,,8141
```

```
d,all,uy,-33.350/1000
```

```
allsel
```

```
time,33.350/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 33.4
!-----
nsel,s,,,8141
d,all,uy,-33.4/1000
allsel
time,33.4/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 33.450
!-----
nsel,s,,,8141
d,all,uy,-33.450/1000
allsel
time,33.450/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
```

```
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 33.5
!-----
nsel,s,,,8141
d,all,uy,-33.5/1000
allsel
time,33.5/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 33.550
!-----
nsel,s,,,8141
d,all,uy,-33.550/1000
allsel
time,33.550/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
```

```
save
solve
save
! 33.6
!-----
nsel,s,,,8141
d,all,uy,-33.6/1000
allsel
time,33.6/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 33.650
!-----
nsel,s,,,8141
d,all,uy,-33.650/1000
allsel
time,33.650/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 33.7
```

```
!-----  
nsel,s,,,8141  
d,all,uy,-33.7/1000  
allsel  
time,33.7/120
```

```
nlgeom,on  
outre,all,all  
outpr,all,all  
nropt,full  
deltim,0.006/120  
cnvtol,u,0.300,.1  
NEQIT,99  
eqslv,sparse  
save  
solve  
save  
! 33.750
```

```
!-----  
nsel,s,,,8141  
d,all,uy,-33.750/1000  
allsel  
time,33.750/120
```

```
nlgeom,on  
outre,all,all  
outpr,all,all  
nropt,full  
deltim,0.006/120  
cnvtol,u,0.300,.1  
NEQIT,99  
eqslv,sparse  
save  
solve  
save  
! 33.8
```

```
!-----  
nsel,s,,,8141  
d,all,uy,-33.8/1000  
allsel
```

time,33.8/120

nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 33.850
!-----
nselect,s,,,8141
d,all,uy,-33.850/1000
allsel
time,33.850/120

nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 33.9
!-----
nselect,s,,,8141
d,all,uy,-33.9/1000
allsel
time,33.9/120

nlgeom,on
outre,all,all

```
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 33.950
!-----
nsel,s,,,8141
d,all,uy,-33.950/1000
allsel
time,33.950/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 34.0
!-----
nsel,s,,,8141
d,all,uy,-34.0/1000
allsel
time,34.0/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
```

```
NEQIT,99
eqslv,sparse
save
solve
save
! 34.050
!-----
nsel,s,,,8141
d,all,uy,-34.050/1000
allsel
time,34.050/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 34.1
!-----
nsel,s,,,8141
d,all,uy,-34.1/1000
allsel
time,34.1/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
```

```
save
! 34.150
!-----
nselect,s,,,8141
d,all,uy,-34.150/1000
allsel
time,34.150/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
```

```
save
solve
save
! 34.2
!-----
nselect,s,,,8141
d,all,uy,-34.2/1000
allsel
time,34.2/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
```

```
save
solve
save
! 34.250
!-----
nselect,s,,,8141
```

```
d,all,uy,-34.250/1000
allsel
time,34.250/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
```

```
save
solve
save
```

```
! 34.3
!-----
```

```
nsel,s,,,8141
d,all,uy,-34.3/1000
allsel
time,34.3/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
```

```
save
solve
save
! 34.350
!-----
```

```
nsel,s,,,8141
d,all,uy,-34.350/1000
allsel
time,34.350/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 34.4
!-----
nsel,s,,,8141
d,all,uy,-34.4/1000
allsel
time,34.4/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 34.450
!-----
nsel,s,,,8141
d,all,uy,-34.450/1000
allsel
time,34.450/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
```

```
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 34.5
!-----
nsel,s,,,8141
d,all,uy,-34.5/1000
allsel
time,34.5/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 34.550
!-----
nsel,s,,,8141
d,all,uy,-34.550/1000
allsel
time,34.550/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
```

```
save
solve
save
! 34.6
!-----
nselect,s,,,8141
d,all,uy,-34.6/1000
allsel
time,34.6/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 34.650
!-----
nselect,s,,,8141
d,all,uy,-34.650/1000
allsel
time,34.650/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 34.7
```

```
!-----  
nsel,s,,,8141  
d,all,uy,-34.7/1000  
allsel  
time,34.7/120
```

```
nlgeom,on  
outre,all,all  
outpr,all,all  
nropt,full  
deltim,0.006/120  
cnvtol,u,0.300,.1  
NEQIT,99  
eqslv,sparse  
save  
solve  
save  
! 34.750
```

```
!-----  
nsel,s,,,8141  
d,all,uy,-34.750/1000  
allsel  
time,34.750/120
```

```
nlgeom,on  
outre,all,all  
outpr,all,all  
nropt,full  
deltim,0.006/120  
cnvtol,u,0.300,.1  
NEQIT,99  
eqslv,sparse  
save  
solve  
save  
! 34.8
```

```
!-----  
nsel,s,,,8141  
d,all,uy,-34.8/1000  
allsel
```

time,34.8/120

nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 34.850
!-----
nselect,s,,,8141
d,all,uy,-34.850/1000
allsel
time,34.850/120

nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 34.9
!-----
nselect,s,,,8141
d,all,uy,-34.9/1000
allsel
time,34.9/120

nlgeom,on
outre,all,all

```
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 34.950
!-----
nsel,s,,,8141
d,all,uy,-34.950/1000
allsel
time,34.950/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
/eof
! 35.0
!-----
nsel,s,,,1232
d,all,uy,-35.0/1000
allsel
time,35.0/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
```

```
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 35.1
!-----
nsel,s,,,1232
d,all,uy,-35.1/1000
allsel
time,35.1/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 35.2
!-----
nsel,s,,,1232
d,all,uy,-35.2/1000
allsel
time,35.2/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
```

```
solve
save
! 35.3
!-----
nsel,s,,,1232
d,all,uy,-35.3/1000
allsel
time,35.3/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 35.4
!-----
nsel,s,,,1232
d,all,uy,-35.4/1000
allsel
time,35.4/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 35.5
!-----
```

```
nsel,s,,,1232
d,all,uy,-35.5/1000
allsel
time,35.5/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 35.6
!-----
nsel,s,,,1232
d,all,uy,-35.6/1000
allsel
time,35.6/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 35.7
!-----
nsel,s,,,1232
d,all,uy,-35.7/1000
allsel
time,35.7/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 35.8
!-----
nsel,s,,,1232
d,all,uy,-35.8/1000
allsel
time,35.8/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 35.9
!-----
nsel,s,,,1232
d,all,uy,-35.9/1000
allsel
time,35.9/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
```

```
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 36.0
!-----
nselect,s,,,1232
d,all,uy,-36.0/1000
allsel
time,36.0/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 36.1
!-----
nselect,s,,,1232
d,all,uy,-36.1/1000
allsel
time,36.1/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
```

```
eqslv,sparse
save
solve
save
! 36.2
!-----
nselect,s,,,1232
d,all,uy,-36.2/1000
allsel
time,36.2/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 36.3
!-----
nselect,s,,,1232
d,all,uy,-36.3/1000
allsel
time,36.3/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
```

```
! 36.4
!-----
nsel,s,,,1232
d,all,uy,-36.4/1000
allsel
time,36.4/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
```

```
! 36.5
!-----
nsel,s,,,1232
d,all,uy,-36.5/1000
allsel
time,36.5/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
```

```
! 36.6
!-----
nsel,s,,,1232
d,all,uy,-36.6/1000
```

```
allsel  
time,36.6/120
```

```
nlgeom,on  
outre,all,all  
outpr,all,all  
nropt,full  
deltim,0.006/120  
cnvtol,u,0.300,.1  
NEQIT,99  
eqslv,sparse  
save  
solve  
save  
! 36.7  
!-----  
nsel,s,,,1232  
d,all,uy,-36.7/1000  
allsel  
time,36.7/120
```

```
nlgeom,on  
outre,all,all  
outpr,all,all  
nropt,full  
deltim,0.006/120  
cnvtol,u,0.300,.1  
NEQIT,99  
eqslv,sparse  
save  
solve  
save  
! 36.8  
!-----  
nsel,s,,,1232  
d,all,uy,-36.8/1000  
allsel  
time,36.8/120
```

```
nlgeom,on
```

```
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 36.9
!-----
nsel,s,,,1232
d,all,uy,-36.9/1000
allsel
time,36.9/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 37.0
!-----
nsel,s,,,1232
d,all,uy,-37.0/1000
allsel
time,37.0/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
```

```
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 37.1
!-----
nsel,s,,,1232
d,all,uy,-37.1/1000
allsel
time,37.1/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 37.2
!-----
nsel,s,,,1232
d,all,uy,-37.2/1000
allsel
time,37.2/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
```

```
solve
save
! 37.3
!-----
nsel,s,,,1232
d,all,uy,-37.3/1000
allsel
time,37.3/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 37.4
!-----
nsel,s,,,1232
d,all,uy,-37.4/1000
allsel
time,37.4/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 37.5
!-----
```

```
nsel,s,,,1232
d,all,uy,-37.5/1000
allsel
time,37.5/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 37.6
!-----
nsel,s,,,1232
d,all,uy,-37.6/1000
allsel
time,37.6/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 37.7
!-----
nsel,s,,,1232
d,all,uy,-37.7/1000
allsel
time,37.7/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 37.8
!-----
nsel,s,,,1232
d,all,uy,-37.8/1000
allsel
time,37.8/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 37.9
!-----
nsel,s,,,1232
d,all,uy,-37.9/1000
allsel
time,37.9/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
```

```
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 38.0
!-----
nsel,s,,,1232
d,all,uy,-38.0/1000
allsel
time,38.0/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 38.1
!-----
nsel,s,,,1232
d,all,uy,-38.1/1000
allsel
time,38.1/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
```

```
eqslv,sparse
save
solve
save
! 38.2
!-----
nselect,s,,,1232
d,all,uy,-38.2/1000
allsel
time,38.2/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 38.3
!-----
nselect,s,,,1232
d,all,uy,-38.3/1000
allsel
time,38.3/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
```

```
! 38.4
!-----
nsel,s,,,1232
d,all,uy,-38.4/1000
allsel
time,38.4/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
```

```
! 38.5
!-----
nsel,s,,,1232
d,all,uy,-38.5/1000
allsel
time,38.5/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
```

```
! 38.6
!-----
nsel,s,,,1232
d,all,uy,-38.6/1000
```

```
allsel  
time,38.6/120
```

```
nlgeom,on  
outre,all,all  
outpr,all,all  
nropt,full  
deltim,0.006/120  
cnvtol,u,0.300,.1  
NEQIT,99  
eqslv,sparse  
save  
solve  
save  
! 38.7  
!-----  
nsel,s,,,1232  
d,all,uy,-38.7/1000  
allsel  
time,38.7/120
```

```
nlgeom,on  
outre,all,all  
outpr,all,all  
nropt,full  
deltim,0.006/120  
cnvtol,u,0.300,.1  
NEQIT,99  
eqslv,sparse  
save  
solve  
save  
! 38.8  
!-----  
nsel,s,,,1232  
d,all,uy,-38.8/1000  
allsel  
time,38.8/120
```

```
nlgeom,on
```

```
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 38.9
!-----
nsel,s,,,1232
d,all,uy,-38.9/1000
allsel
time,38.9/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 39.0
!-----
nsel,s,,,1232
d,all,uy,-39.0/1000
allsel
time,39.0/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
```

```
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 39.1
!-----
nsel,s,,,1232
d,all,uy,-39.1/1000
allsel
time,39.1/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 39.2
!-----
nsel,s,,,1232
d,all,uy,-39.2/1000
allsel
time,39.2/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
```

```
solve
save
! 39.3
!-----
nsel,s,,,1232
d,all,uy,-39.3/1000
allsel
time,39.3/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 39.4
!-----
nsel,s,,,1232
d,all,uy,-39.4/1000
allsel
time,39.4/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 39.5
!-----
```

```
nsel,s,,,1232
d,all,uy,-39.5/1000
allsel
time,39.5/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 39.6
!-----
nsel,s,,,1232
d,all,uy,-39.6/1000
allsel
time,39.6/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 39.7
!-----
nsel,s,,,1232
d,all,uy,-39.7/1000
allsel
time,39.7/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 39.8
!-----
nsel,s,,,1232
d,all,uy,-39.8/1000
allsel
time,39.8/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
nropt,full
deltim,0.006/120
cnvtol,u,0.300,.1
NEQIT,99
eqslv,sparse
save
solve
save
! 39.9
!-----
nsel,s,,,1232
d,all,uy,-39.9/1000
allsel
time,39.9/120
```

```
nlgeom,on
outre,all,all
outpr,all,all
```

```
nropt,full  
deltim,0.006/120  
cnvtol,u,0.300,.1  
NEQIT,99  
eqslv,sparse  
save  
solve  
save  
/eof  
/eof
```



