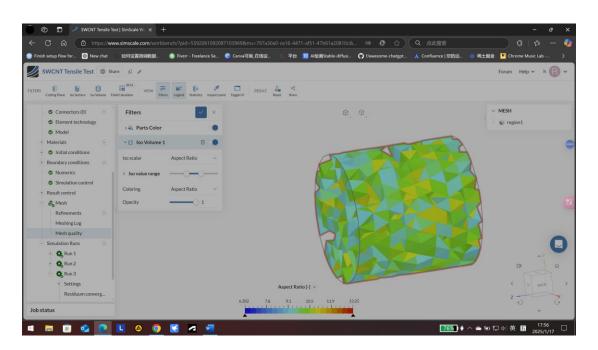


解决方案字段(上图)



网格质量(上图)

网格划分日志

SimScale incorporates Simulation Modeling Suite(TM) software by Simmetrix Inc. © 1997-2025. All Rights Reserved.

Model import took 588.644056ms.

Maximum precision of model and its entities: 1e-08 m.

Absolute small feature tolerance: 0.00995000000000000 m.

Surface meshing took 88.343607ms.

Number of cells after 132.628566ms: 2357

Number of cells after 177.124076ms: 3884

Meshing took 190.754315ms. Starting mesh export.

Mesh quality metrics:

Non Orthogonality

Acceptable range: 0.0 to 88.0

min: 0.0

max: 55.5

average: 25.4

99.99-th percentile: 55.5

Edge Ratio

Acceptable range: 0.0 to 100.0

min: 1.1

max: 3.2

average: 1.7

99.99-th percentile: 3.2

Volume Ratio

Acceptable range: 0.0 to 100.0

min: 1.0

max: 3.0

average: 1.4

99.99-th percentile: 3.0

Aspect Ratio

min: 6.4
max: 13.3
average: 10.0
99.99-th percentile: 13.3
Tetrahedral Aspect Ratio
Acceptable range: 0.0 to 100.0
min: 6.4
max: 13.3
average: 10.0
99.99-th percentile: 13.3
Skewness
Acceptable range: 0.0 to 100.0
min: 0.1
max: 0.8
average: 0.3
99.99-th percentile: 0.8
Min Edge Length: 0
Mesh export took 942.999188ms.
求解器日志
9.999999999e-04.
[96%] Instant calculé : 2.41600e+00, dernier instant archivé : 2.41600e+00, au numéro d'ordre :
2416

Acceptable range: 0.0 to 100.0

Time of computation: 2.41700000000e+00	
INCREMENT NEWTON RESTRECH. LINE. RECH. LINE. OPTION RELATION RELATION. RELATION. ASSEMBLAGE RESI_GLOB_FI RHO VALEUR	NEWTON TIF ABSOLU TEMPS CALCUL RELA RESI_GLOB_MAXI
2.41700E+00 0 1.03796E-15 	1.11022E-15
Criterion (S) of convergence reached (S) The residue of the type RESI_GLOB_RELA is worth node and degree of	1.037956642671e-15 with the
freedom N379 DX The residue of the type RESI_GLOB_MAXI is worth node and degree of	1.110223024625e-15 with the
freedom N379 DX Temps CPU consommé dans ce pas de temps : 0	0.098 s
* Nombre d'itérations de Newton	: 1
* Temps total intégration comportement	: 0.058 s (3 intégrations)
* Temps total factorisation matrice	: 0.002 s (1 factorisations)
* Temps construction second membre	: 0.015 s
* Temps total résolution K.U=F	: 0.003 s (1 résolutions)
* Temps assemblage matrice	: 0.007 s

* Nombre d'itérations de recherche linéaire : 0 * Temps autres opérations : 0.013 s Mémoire (Mo): 1411.30 / 1404.36 / 856.95 / 211.64 (VmPeak / VmSize / Optimum / Minimum) Filing of the fields Field stored DEPL at time 2.417000000000e+00 for the sequence number 2417 Field stored SIEF_ELGA at time 2.41700000000e+00 for the sequence number 2417 Field stored VARI_ELGA at time 2.41700000000e+00 for the sequence number 2417 Field stored COMPORTEMENT at time 2.41700000000e+00 for the sequence number 2417 Field stored VITE at time 2.41700000000e+00 for the sequence number 2417 Field stored ACCE at time 2.417000000000e+00 for the sequence number 2417 Adaptation of the time step. For the method of adaptation of the type FIXE, the computed time step is worth 2.000000000000e-03. On all the criteria of adaptation, the smallest time step is worth 2.00000000000e-03. After best fit on the compulsory points of transition, the smallest time step is worth 9.9999999999e-04. [96%] Instant calculé: 2.41700e+00, dernier instant archivé: 2.41700e+00, au numéro d'ordre: 2417

Time of computation: 2.41800000000e+00

INCREMENT NEWTON RESIDU RESIDU RECH. LINE. OPTION NEWTON
INSTANT ITERATION RELATIF ABSOLU NB. ITER COEFFICIENT ASSEMBLAGE TEMPS CALCUL
RESI_GLOB_RELA RESI_GLOB_MAXI RHO VALEUR
2.41800E+00 0 7.26570E-16 7.77156E-16
Criterion (S) of convergence reached (S)
The residue of the type RESI_GLOB_RELA is worth 7.265696498697e-16 with the node and degree of
freedom N381 DX
The residue of the type RESI_GLOB_MAXI is worth 7.771561172376e-16 with the node and degree of
freedom N381 DX
Temps CPU consommé dans ce pas de temps : 0.099 s
* Nombre d'itérations de Newton : 1
* Temps total intégration comportement : 0.059 s (3 intégrations)
* Temps total factorisation matrice : 0.002 s (1 factorisations)
* Temps construction second membre : 0.015 s
* Temps total résolution K.U=F : 0.003 s (1 résolutions)
* Temps assemblage matrice : 0.007 s
* Nombre d'itérations de recherche linéaire : 0
* Temps autres opérations : 0.013 s
Mémoire (Mo): 1411.84 / 1404.83 / 857.49 / 211.64 (VmPeak / VmSize /

Optimum / Minimum) Filing of the fields Field stored DEPL at time 2.41800000000e+00 for the sequence number 2418 Field stored SIEF_ELGA at time 2.41800000000e+00 for the sequence number 2418 Field stored VARI_ELGA at time 2.41800000000e+00 for the sequence number 2418 Field stored COMPORTEMENT at time 2.41800000000e+00 for the sequence number 2418 Field stored VITE at time 2.418000000000e+00 for the sequence number 2418 Field stored ACCE at time 2.418000000000e+00 for the sequence number 2418 Adaptation of the time step. For the method of adaptation of the type FIXE, the computed time step is worth 2.000000000000e-03. On all the criteria of adaptation, the smallest time step is worth 2.00000000000e-03. After best fit on the compulsory points of transition, the smallest time step is worth 9.9999999999e-04. [96%] Instant calculé: 2.41800e+00, dernier instant archivé: 2.41800e+00, au numéro d'ordre:

2418	
Fime of computation: 2.4190000000	000e+00
INCREMENT NEWTON RECH. LINE. RECH. LINE.	RESIDU RESIDU
instant iteration	RELATIF ABSOLU

NB. ITER COEFFICIENT ASSEMBLAGE TEMPS CALCUL
2.41900E+00 0 8.82263E-16 9.43690E-16
Criterion (S) of convergence reached (S)
The residue of the type RESI_GLOB_RELA is worth 8.822631462704e-16 with the node and degree of
freedom N449 DX
The residue of the type RESI_GLOB_MAXI is worth 9.436895709314e-16 with the node and degree of
freedom N449 DX
Temps CPU consommé dans ce pas de temps : 0.099 s
* Nombre d'itérations de Newton : 1
* Temps total intégration comportement : 0.058 s (3 intégrations)
* Temps total factorisation matrice : 0.002 s (1 factorisations)
* Temps construction second membre : 0.015 s
* Temps total résolution K.U=F : 0.003 s (1 résolutions)
* Temps assemblage matrice : 0.007 s
* Nombre d'itérations de recherche linéaire : 0
* Temps autres opérations : 0.013 s
Mémoire (Mo): 1412.38 / 1405.41 / 858.02 / 211.64 (VmPeak / VmSize / Optimum / Minimum)
Filing of the fields
Field stored DEPL at time 2.419000000000e+00 for the sequence number 2419

Field stored 2419	SIEF_ELGA at time 2.41900000000e+00 for the sequence number
Field stored 2419	VARI_ELGA at time 2.41900000000e+00 for the sequence number
Field stored number 243	COMPORTEMENT at time 2.41900000000e+00 for the sequence
Field stored	VITE at time 2.419000000000e+00 for the sequence number 2419
Field stored	ACCE at time 2.419000000000e+00 for the sequence number 2419
Adaptation o	f the time step.
For the meth	od of adaptation of the type FIXE, the computed time step is worth
2.000000000	000e-03.
On all the crit	teria of adaptation, the smallest time step is worth 2.00000000000e-
After best fit	on the compulsory points of transition, the smallest time step is worth
9.999999999	999e-04.
[96%] Instant d'ordre :	calculé : 2.41900e+00, dernier instant archivé : 2.41900e+00, au numéro
2419	
Time of comp	outation: 2.42000000000e+00
	NT NEWTON RESIDU RESIDU
•	T ITERATION RELATIF ABSOLU COEFFICIENT ASSEMBLAGE TEMPS CALCUL
l RHO	RESI_GLOB_RELA RESI_GLOB_MAXI VALEUR

.-----

| 2.42000E+00 | 0 | 7.78467E-16 | 8.32667E-16

Criterion (S) of convergence reached (S)

The residue of the type RESI_GLOB_RELA is worth 7.784674820033e-16 with the node and degree of

freedom N449 DX

The residue of the type RESI_GLOB_MAXI is worth 8.326672684689e-16 with the node and degree of

freedom N449 DX

Temps CPU consommé dans ce pas de temps : 0.097 s

* Nombre d'itérations de Newton : 1

* Temps total intégration comportement : 0.057 s (3 intégrations)

* Temps total factorisation matrice : 0.002 s (1 factorisations)

* Temps construction second membre : 0.015 s

* Temps total résolution K.U=F : 0.003 s (1 résolutions)

* Temps assemblage matrice : 0.007 s

* Nombre d'itérations de recherche linéaire : 0

* Temps autres opérations : 0.013 s

Mémoire (Mo) : 1412.93 / 1405.99 / 858.56 / 211.64 (VmPeak / VmSize /

Optimum / Minimum)

Filing of the fields

Field stored DEPL at time 2.42000000000e+00 for the sequence number 2420

Field stored SIEF_ELGA at time 2.42000000000e+00 for the sequence number

2420

Field stored VARI_ELGA at time 2.42000000000e+00 for the sequence number

2420

Field stored COMPORTEMENT at time 2.420000000000e+00 for the sequence number 2420 Field stored VITE at time 2.42000000000e+00 for the sequence number 2420 Field stored ACCE at time 2.420000000000e+00 for the sequence number 2420 Adaptation of the time step. For the method of adaptation of the type FIXE, the computed time step is worth 2.000000000000e-03. 03. After best fit on the compulsory points of transition, the smallest time step is worth 9.9999999999e-04. [96%] Instant calculé: 2.42000e+00, dernier instant archivé: 2.42000e+00, au numéro d'ordre: 2420 Time of computation: 2.421000000000e+00 INCREMENT | NEWTON RESIDU RESIDU RECH. LINE. | RECH. LINE. | OPTION | NEWTON | ITERATION | INSTANT RELATIF ABSOLU NB. ITER | COEFFICIENT | ASSEMBLAGE | TEMPS CALCUL | | RESI_GLOB_RELA | RESI_GLOB_MAXI | | VALEUR RHO | 2.42100E+00 0 | 9.86059E-16 | 1.05471E-15 | **|TANGENTE**

.-----

Criterion (S) of convergence reached (S)

The residue of the type RESI_GLOB_RELA is worth 9.860588105375e-16 with the node and degree of

freedom N379 DX

The residue of the type RESI_GLOB_MAXI is worth 1.054711873394e-15 with the node and degree of

freedom N379 DX

Temps CPU consommé dans ce pas de temps : 0.099 s

* Nombre d'itérations de Newton : 1

* Temps total intégration comportement : 0.058 s (3 intégrations)

* Temps total factorisation matrice : 0.002 s (1 factorisations)

* Temps construction second membre : 0.015 s

* Temps total résolution K.U=F : 0.003 s (1 résolutions)

* Temps assemblage matrice : 0.007 s

* Nombre d'itérations de recherche linéaire : 0

* Temps autres opérations : 0.013 s

Mémoire (Mo): 1413.47 / 1406.46 / 859.10 / 211.64 (VmPeak / VmSize / Optimum / Minimum)

Filing of the fields

Field stored DEPL at time 2.421000000000e+00 for the sequence number 2421

Field stored SIEF_ELGA at time 2.421000000000e+00 for the sequence number 2421

Field stored VARI_ELGA at time 2.421000000000e+00 for the sequence number 2421

Field stored COMPORTEMENT at time 2.421000000000e+00 for the sequence number 2421

Field stored VITE at time 2.421000000000e+00 for the sequence number 2421

Field stored ACCE at time 2.421000000000e+00 for the sequence number 2421 Adaptation of the time step. For the method of adaptation of the type FIXE, the computed time step is worth 2.000000000000e-03. On all the criteria of adaptation, the smallest time step is worth 2.00000000000e-03. After best fit on the compulsory points of transition, the smallest time step is worth 9.9999999999e-04. [96%] Instant calculé: 2.42100e+00, dernier instant archivé: 2.42100e+00, au numéro d'ordre: 2421 Time of computation: 2.422000000000e+00 INCREMENT | NEWTON | RESIDU RECH. LINE. | RECH. LINE. | OPTION NEWTON INSTANT ITERATION | RELATIF ABSOLU | COEFFICIENT | ASSEMBLAGE | TEMPS CALCUL | | RESI_GLOB_RELA | RESI_GLOB_MAXI | RHO VALEUR | 2.42200E+00 0 | 9.34161E-16 | 9.99201E-16 **ITANGENTE**

Criterion (S) of convergence reached (S)

The residue of the type RESI_GLOB_RELA is worth 9.341609784039e-16 with the

node and degree of

freedom N550 DX

The residue of the type RESI_GLOB_MAXI is worth 9.992007221626e-16 with the node and degree of

freedom N550 DX

Temps CPU consommé dans ce pas de temps : 0.099 s

* Nombre d'itérations de Newton : 1

* Temps total intégration comportement : 0.058 s (3 intégrations)

* Temps total factorisation matrice : 0.002 s (1 factorisations)

* Temps construction second membre : 0.015 s

* Temps total résolution K.U=F : 0.003 s (1 résolutions)

* Temps assemblage matrice : 0.007 s

* Nombre d'itérations de recherche linéaire : 0

* Temps autres opérations : 0.013 s

Mémoire (Mo): 1414.01 / 1407.04 / 859.64 / 211.64 (VmPeak / VmSize /

Optimum / Minimum)

Filing of the fields

Field stored DEPL at time 2.422000000000e+00 for the sequence number 2422

Field stored SIEF_ELGA at time 2.422000000000e+00 for the sequence number 2422

Field stored VARI_ELGA at time 2.42200000000e+00 for the sequence number 2422

Field stored COMPORTEMENT at time 2.422000000000e+00 for the sequence number 2422

Field stored VITE at time 2.42200000000e+00 for the sequence number 2422

Field stored ACCE at time 2.422000000000e+00 for the sequence number 2422

Adaptation of the time step.

For the method of adaptation of the type FIXE, the computed time step is worth

2	$\cap \cap \cap$	$\cap \cap$	$\cap \cap \cap$	000	0e - 03
∠ .	いんん	ハハノ	いハハル	ハハハハ	ハニーしんり

After best fit on the compulsory points of transition, the smallest time step is worth 9.999999999e-04.

[96%] Instant calculé : 2.42200e+00, dernier instant archivé : 2.42200e+00, au numéro d'ordre :	
2422	
Time of computation: 2.42300000000e+00	
INCREMENT NEWTON RESIDU RESIDU RECH. LINE. RECH. LINE. OPTION NEWTON	
INSTANT ITERATION RELATIF ABSOLU NB. ITER COEFFICIENT ASSEMBLAGE TEMPS CALCUL	
RESI_GLOB_RELA RESI_GLOB_MAXI RHO VALEUR	
2.42300E+00 0 9.34161E-16 9.99201E-16 	

Criterion (S) of convergence reached (S)

The residue of the type RESI_GLOB_RELA is worth 9.341609784039e-16 with the node and degree of

freedom N449 DX

The residue of the type RESI_GLOB_MAXI is worth 9.992007221626e-16 with the

node and degree of

freedom N449 DX

Temps CPU consommé dans ce pas de temps : 0.100 s

* Nombre d'itérations de Newton : 1

* Temps total intégration comportement : 0.059 s (3 intégrations)

* Temps total factorisation matrice : 0.002 s (1 factorisations)

* Temps construction second membre : 0.015 s

* Temps total résolution K.U=F : 0.003 s (1 résolutions)

* Temps assemblage matrice : 0.007 s

* Nombre d'itérations de recherche linéaire : 0

* Temps autres opérations : 0.013 s

Mémoire (Mo): 1414.57 / 1407.62 / 860.17 / 211.64 (VmPeak / VmSize /

Optimum / Minimum)

Filing of the fields

Field stored DEPL at time 2.423000000000e+00 for the sequence number 2423

Field stored SIEF_ELGA at time 2.423000000000e+00 for the sequence number 2423

Field stored VARI_ELGA at time 2.42300000000e+00 for the sequence number 2423

Field stored COMPORTEMENT at time 2.42300000000e+00 for the sequence number 2423

Field stored VITE at time 2.42300000000e+00 for the sequence number 2423

Field stored ACCE at time 2.423000000000e+00 for the sequence number 2423

Adaptation of the time step.

For the method of adaptation of the type FIXE, the computed time step is worth 2.0000000000e-03.

9.999999999e-04.
[96%] Instant calculé : 2.42300e+00, dernier instant archivé : 2.42300e+00, au numéro d'ordre :
2423
Time of computation: 2.42400000000e+00
INCREMENT NEWTON RESIDU RESIDU RECH. LINE. OPTION NEWTON
INSTANT ITERATION RELATIF ABSOLU NB. ITER COEFFICIENT ASSEMBLAGE TEMPS CALCUL
RESI_GLOB_RELA RESI_GLOB_MAXI RHO VALEUR
2.42400E+00 0 9.86059E-16 1.05471E-15
Criterion (S) of convergence reached (S)
The residue of the type RESI_GLOB_RELA is worth 9.860588105375e-16 with the node and degree of
freedom N550 DX
The residue of the type RESI_GLOB_MAXI is worth 1.054711873394e-15 with the node and degree of
freedom N550 DX
Temps CPU consommé dans ce pas de temps : 0.099 s

After best fit on the compulsory points of transition, the smallest time step is worth

* Nombre d'itérations de Newton

* Temps total intégration comportement : 0.058 s (3 intégrations)

: 1

* Temps total factorisation matrice : 0.002 s (1 factorisations)

* Temps construction second membre : 0.015 s

* Temps total résolution K.U=F : 0.003 s (1 résolutions)

* Temps assemblage matrice : 0.007 s

* Nombre d'itérations de recherche linéaire : 0

* Temps autres opérations : 0.013 s

Mémoire (Mo): 1415.10 / 1408.09 / 860.71 / 211.64 (VmPeak / VmSize /

Optimum / Minimum)

Filing of the fields

Field stored DEPL at time 2.424000000000e+00 for the sequence number 2424

Field stored SIEF_ELGA at time 2.424000000000e+00 for the sequence number 2424

Field stored VARI_ELGA at time 2.42400000000e+00 for the sequence number 2424

Field stored COMPORTEMENT at time 2.424000000000e+00 for the sequence number 2424

Field stored VITE at time 2.424000000000e+00 for the sequence number 2424

Field stored ACCE at time 2.424000000000e+00 for the sequence number 2424

Adaptation of the time step.

For the method of adaptation of the type FIXE, the computed time step is worth 2.0000000000e-03.

On all the criteria of adaptation, the smallest time step is worth 2.0000000000000 - 03.

After best fit on the compulsory points of transition, the smallest time step is worth 9.999999999e-04.

[96%] Instant calculé: 2.42400e+00, dernier instant archivé: 2.42400e+00, au numéro

d'ordre :				
2424				
Time of computati	on: 2.42500000	0000e+00		
INCREMENT RECH. LINE.	•	•	idu residu newton	1
•		·	F ABSOLU TEMPS CALCUL	
 RHO	 	RESI_GLOB_R VALEUR	ELA RESI_GLOB_MAXI 	
2.42500E+00 	0 TANGENTE		8.32667E-16 	
Criterion (S) of cor	wergence reached	(8)		
, ,	type RESI_GLOB_	. ,	7.784674820033e-16 with the	ne
freedom N449	DX			
The residue of the node and degree		_MAXI is worth	8.326672684689e-16 with the	he
freedom N449	DX			
Temps CPU conso	mmé dans ce pas d	de temps : 0	.101 s	
* Nombre d'itération	ons de Newton		: 1	
* Temps total intég	gration comportem	nent	: 0.059 s (3 intégrations)	
* Temps total factor	orisation matrice		: 0.002 s (1 factorisations)	

* Temps construction second membre : 0.016 s

* Temps total résolution K.U=F : 0.003 s (1 résolutions)

* Temps assemblage matrice : 0.007 s

* Nombre d'itérations de recherche linéaire : 0

* Temps autres opérations : 0.013 s

Mémoire (Mo): 1415.64 / 1408.67 / 861.25 / 211.64 (VmPeak / VmSize / Optimum / Minimum)

Filing of the fields

Field stored DEPL at time 2.425000000000e+00 for the sequence number 2425

Field stored SIEF_ELGA at time 2.425000000000e+00 for the sequence number 2425

Field stored VARI_ELGA at time 2.425000000000e+00 for the sequence number 2425

Field stored COMPORTEMENT at time 2.425000000000e+00 for the sequence number 2425

Field stored VITE at time 2.425000000000e+00 for the sequence number 2425

Field stored ACCE at time 2.425000000000e+00 for the sequence number 2425

Adaptation of the time step.

For the method of adaptation of the type FIXE, the computed time step is worth 2.0000000000e-03.

On all the criteria of adaptation, the smallest time step is worth 2.0000000000000 - 03.

After best fit on the compulsory points of transition, the smallest time step is worth 9.999999999e-04.

[96%]	Instant calculé	: 2.42500e+00,	dernier	instant	archivé :	2.425006	e+00,	au nu	ıméro
d'ordr	re:								

2425

Time of computation: 2.42600000000e+00
INCREMENT NEWTON RESIDU RESIDU RECH. LINE. RECH. LINE. OPTION NEWTON INSTANT ITERATION RELATIF ABSOLU NB. ITER COEFFICIENT ASSEMBLAGE TEMPS CALCUL
RESI_GLOB_RELA RESI_GLOB_MAXI RHO VALEUR
2.42600E+00 0 8.30365E-16 8.88178E-16 TANGENTE
Criterion (S) of convergence reached (S) The residue of the type RESI_GLOB_RELA is worth 8.303653141368e-16 with the
reedom N379 DX
The residue of the type RESI_GLOB_MAXI is worth 8.881784197001e-16 with the mode and degree of
reedom N379 DX - - - - - - - - - - - - - - - - - - -
Nombre d'itérations de Newton : 1
Temps total intégration comportement : 0.060 s (3 intégrations)
Temps total factorisation matrice : 0.002 s (1 factorisations)
Temps construction second membre : 0.016 s
Temps total résolution K.U=F : 0.003 s (1 résolutions)
Temps assemblage matrice : 0.007 s

* Nombre d'itérations de recherche linéaire : 0 * Temps autres opérations : 0.013 s Mémoire (Mo): 1416.20 / 1409.25 / 861.78 / 211.64 (VmPeak / VmSize / Optimum / Minimum) Filing of the fields Field stored DEPL at time 2.426000000000e+00 for the sequence number 2426 Field stored SIEF_ELGA at time 2.42600000000e+00 for the sequence number 2426 Field stored VARI_ELGA at time 2.42600000000e+00 for the sequence number 2426 Field stored COMPORTEMENT at time 2.42600000000e+00 for the sequence number 2426 Field stored VITE at time 2.426000000000e+00 for the sequence number 2426 Field stored ACCE at time 2.426000000000e+00 for the sequence number 2426 Adaptation of the time step. For the method of adaptation of the type FIXE, the computed time step is worth 2.000000000000e-03. On all the criteria of adaptation, the smallest time step is worth 2.00000000000e-03. After best fit on the compulsory points of transition, the smallest time step is worth 9.9999999999e-04. [97%] Instant calculé: 2.42600e+00, dernier instant archivé: 2.42600e+00, au numéro d'ordre: 2426

2.427000000000e+00

Time of computation:

INCREMENT NEWTON RESIDU RESIDU RECH. LINE. OPTION NEWTON			
INSTANT ITERATION RELATIF ABSOLU NB. ITER COEFFICIENT ASSEMBLAGE TEMPS CALCUL			
RESI_GLOB_RELA RESI_GLOB_MAXI RHO VALEUR			
2.42700E+00 0 9.86059E-16 1.05471E-15			
Criterion (S) of convergence reached (S)			
The residue of the type RESI_GLOB_RELA is worth 9.860588105375e-16 with the node and degree of			
freedom N449 DX			
The residue of the type RESI_GLOB_MAXI is worth 1.054711873394e-15 with the node and degree of			
freedom N449 DX			
Temps CPU consommé dans ce pas de temps : 0.101 s			
* Nombre d'itérations de Newton : 1			
* Temps total intégration comportement : 0.060 s (3 intégrations)			
* Temps total factorisation matrice : 0.002 s (1 factorisations)			
* Temps construction second membre : 0.016 s			
* Temps total résolution K.U=F : 0.003 s (1 résolutions)			
* Temps assemblage matrice : 0.007 s			
* Nombre d'itérations de recherche linéaire : 0			
* Temps autres opérations : 0.014 s			
Mémoire (Mo): 1416.73 / 1409.72 / 862.32 / 211.64 (VmPeak / VmSize /			

Optimum / Minimum) Filing of the fields Field stored DEPL at time 2.427000000000e+00 for the sequence number 2427 Field stored SIEF_ELGA at time 2.42700000000e+00 for the sequence number 2427 Field stored VARI_ELGA at time 2.42700000000e+00 for the sequence number 2427 Field stored COMPORTEMENT at time 2.42700000000e+00 for the sequence number 2427 Field stored VITE at time 2.427000000000e+00 for the sequence number 2427 Field stored ACCE at time 2.42700000000e+00 for the sequence number 2427 Adaptation of the time step. For the method of adaptation of the type FIXE, the computed time step is worth 2.000000000000e-03. On all the criteria of adaptation, the smallest time step is worth 2.000000000000e-03. After best fit on the compulsory points of transition, the smallest time step is worth 9.9999999999e-04. [97%] Instant calculé: 2.42700e+00, dernier instant archivé: 2.42700e+00, au numéro d'ordre: 2427

Time of computation: 2.428000000000e+00

| INCREMENT | NEWTON | RESIDU | RESIDU |
RECH. LINE. | RECH. LINE. | OPTION | NEWTON |
| INSTANT | ITERATION | RELATIF | ABSOLU |

NB. ITER COEFFICIENT ASSEMBLAGE TEMPS CALCUL			
RESI_GLOB_RELA RESI_GLOB_MAXI RHO VALEUR			
2.42800E+00 0 7.26570E-16 7.77156E-16			
Criterion (S) of convergence reached (S)			
The residue of the type RESI_GLOB_RELA is worth 7.265696498697e-16 with the node and degree of			
freedom N550 DX			
The residue of the type RESI_GLOB_MAXI is worth 7.771561172376e-16 with the node and degree of			
freedom N550 DX			
Temps CPU consommé dans ce pas de temps : 0.100 s			
* Nombre d'itérations de Newton : 1			
* Temps total intégration comportement : 0.060 s (3 intégrations)	: 0.060 s (3 intégrations)		
* Temps total factorisation matrice : 0.002 s (1 factorisations)			
* Temps construction second membre : 0.015 s			
* Temps total résolution K.U=F : 0.003 s (1 résolutions)			
* Temps assemblage matrice : 0.007 s			
* Nombre d'itérations de recherche linéaire : 0			
* Temps autres opérations : 0.013 s			
Mémoire (Mo): 1417.28 / 1410.30 / 862.86 / 211.64 (VmPeak / VmSize / Optimum / Minimum)			
Filing of the fields			
Field stored DEPL at time 2.428000000000e+00 for the sequence number 2428			

Field stored 2428	SIEF_ELGA at time 2.42800000000e+00 for the sequence number			
Field stored 2428	VARI_ELGA at time 2.428000000000e+00 for the sequence number			
Field stored number 242	COMPORTEMENT at time 2.42800000000e+00 for the sequence			
Field stored	VITE at time 2.428000000000e+00 for the sequence number 2428			
Field stored	ACCE at time 2.428000000000e+00 for the sequence number 2428			
Adaptation o	f the time step.			
For the meth	od of adaptation of the type FIXE, the computed time step is worth			
2.000000000	000e-03.			
On all the crit	teria of adaptation, the smallest time step is worth 2.00000000000e-			
After best fit	on the compulsory points of transition, the smallest time step is worth			
9.999999999	999e-04.			
[97%] Instant d'ordre :	calculé : 2.42800e+00, dernier instant archivé : 2.42800e+00, au numéro			
2428				
Time of computation: 2.42900000000e+00				
	NT NEWTON RESIDU RESIDU . RECH. LINE. OPTION NEWTON			
•	T ITERATION RELATIF ABSOLU COEFFICIENT ASSEMBLAGE TEMPS CALCUL			
l RHO	RESI_GLOB_RELA RESI_GLOB_MAXI VALEUR			

.-----

| 2.42900E+00 | 0 | 9.34161E-16 | 9.99201E-16

| ITANGENTE |

.....

Criterion (S) of convergence reached (S)

The residue of the type RESI_GLOB_RELA is worth 9.341609784039e-16 with the node and degree of

freedom N383 DX

The residue of the type RESI_GLOB_MAXI is worth 9.992007221626e-16 with the node and degree of

freedom N383 DX

Temps CPU consommé dans ce pas de temps : 0.100 s

* Nombre d'itérations de Newton : 1

* Temps total intégration comportement : 0.059 s (3 intégrations)

* Temps total factorisation matrice : 0.002 s (1 factorisations)

* Temps construction second membre : 0.015 s

* Temps total résolution K.U=F : 0.003 s (1 résolutions)

* Temps assemblage matrice : 0.007 s

* Nombre d'itérations de recherche linéaire : 0

* Temps autres opérations : 0.013 s

Mémoire (Mo): 1417.82 / 1410.85 / 863.40 / 211.64 (VmPeak / VmSize /

Optimum / Minimum)

Filing of the fields

Field stored DEPL at time 2.429000000000e+00 for the sequence number 2429

Field stored SIEF_ELGA at time 2.42900000000e+00 for the sequence number

2429

Field stored VARI_ELGA at time 2.42900000000e+00 for the sequence number

2429

Field stored COMPORTEMENT at time 2.42900000000e+00 for the sequence number 2429					
Field stored VITE at time 2.42900000000e+00 for the sequence number 2429					
Field stored ACCE at time 2.429000000000e+00 for the sequence number 2429					
Adaptation of the time step.					
For the method of adaptation of the type FIXE, the computed time step is worth					
2.0000000000e-03.					
On all the criteria of adaptation, the smallest time step is worth 2.000000000000-03.					
After best fit on the compulsory points of transition, the smallest time step is worth					
9.999999999e-04.					
[97%] Instant calculé : 2.42900e+00, dernier instant archivé : 2.42900e+00, au numéro d'ordre :					
2429					
Time of computation: 2.43000000000e+00					
INCREMENT NEWTON RESIDU RESIDU RECH. LINE. RECH. LINE. OPTION NEWTON					
INSTANT ITERATION RELATIF ABSOLU NB. ITER COEFFICIENT ASSEMBLAGE TEMPS CALCUL					
RESI_GLOB_RELA RESI_GLOB_MAXI RHO VALEUR					
2.43000E+00 0 7.26570E-16 7.77156E-16					

.-----

Criterion (S) of convergence reached (S)

The residue of the type RESI_GLOB_RELA is worth 7.265696498697e-16 with the node and degree of

freedom N550 DX

The residue of the type RESI_GLOB_MAXI is worth 7.771561172376e-16 with the node and degree of

freedom N550 DX

Temps CPU consommé dans ce pas de temps : 0.100 s

* Nombre d'itérations de Newton : 1

* Temps total intégration comportement : 0.059 s (3 intégrations)

* Temps total factorisation matrice : 0.002 s (1 factorisations)

* Temps construction second membre : 0.016 s

* Temps total résolution K.U=F : 0.003 s (1 résolutions)

* Temps assemblage matrice : 0.007 s

* Nombre d'itérations de recherche linéaire : 0

* Temps autres opérations : 0.013 s

Mémoire (Mo): 1418.38 / 1411.37 / 863.93 / 211.64 (VmPeak / VmSize / Optimum / Minimum)

Filing of the fields

Field stored DEPL at time 2.43000000000e+00 for the sequence number 2430

Field stored SIEF_ELGA at time 2.43000000000e+00 for the sequence number 2430

Field stored VARI_ELGA at time 2.43000000000e+00 for the sequence number 2430

Field stored COMPORTEMENT at time 2.43000000000e+00 for the sequence number 2430

Field stored VITE at time 2.43000000000e+00 for the sequence number 2430

Field stored ACCE at time 2.43000000000e+00 for the sequence number 2430 Adaptation of the time step. For the method of adaptation of the type FIXE, the computed time step is worth 2.000000000000e-03. On all the criteria of adaptation, the smallest time step is worth 2.00000000000e-03. After best fit on the compulsory points of transition, the smallest time step is worth 9.9999999999e-04. [97%] Instant calculé: 2.43000e+00, dernier instant archivé: 2.43000e+00, au numéro d'ordre: 2430 Time of computation: 2.431000000000e+00 INCREMENT | NEWTON | RESIDU RECH. LINE. | RECH. LINE. | OPTION NEWTON INSTANT ITERATION | RELATIF ABSOLU | COEFFICIENT | ASSEMBLAGE | TEMPS CALCUL | | RESI_GLOB_RELA | RESI_GLOB_MAXI | RHO VALEUR | 2.43100E+00 0 | 9.34161E-16 | 9.99201E-16 **ITANGENTE**

Criterion (S) of convergence reached (S)

The residue of the type RESI_GLOB_RELA is worth 9.341609784039e-16 with the

node and degree of

freedom N383 DX

The residue of the type RESI_GLOB_MAXI is worth 9.992007221626e-16 with the node and degree of

freedom N383 DX

Temps CPU consommé dans ce pas de temps : 0.101 s

* Nombre d'itérations de Newton : 1

* Temps total intégration comportement : 0.059 s (3 intégrations)

* Temps total factorisation matrice : 0.002 s (1 factorisations)

* Temps construction second membre : 0.015 s

* Temps total résolution K.U=F : 0.003 s (1 résolutions)

* Temps assemblage matrice : 0.007 s

* Nombre d'itérations de recherche linéaire : 0

* Temps autres opérations : 0.013 s

Mémoire (Mo): 1418.92 / 1411.95 / 864.47 / 211.64 (VmPeak / VmSize /

Optimum / Minimum)

Filing of the fields

Field stored DEPL at time 2.431000000000e+00 for the sequence number 2431

Field stored SIEF_ELGA at time 2.431000000000e+00 for the sequence number 2431

Field stored VARI_ELGA at time 2.431000000000e+00 for the sequence number 2431

Field stored COMPORTEMENT at time 2.431000000000e+00 for the sequence number 2431

Field stored VITE at time 2.431000000000e+00 for the sequence number 2431

Field stored ACCE at time 2.431000000000e+00 for the sequence number 2431

Adaptation of the time step.

For the method of adaptation of the type FIXE, the computed time step is worth

2.00000000000e-03.	
On all the criteria of adaptation, the smallest time step is worth	2.000000000000e-

After best fit on the compulsory points of transition, the smallest time step is worth 9.999999999e-04.

[97%] Instant calculé : 2.43100e+00, dernier instant archivé : 2.43100e+00, au numéro d'ordre :				
2431				
Time of computation: 2.43200000000e+00				
INCREMENT NEWTON RESIDU RESIDU RECH. LINE. RECH. LINE. OPTION NEWTON				
INSTANT ITERATION RELATIF ABSOLU NB. ITER COEFFICIENT ASSEMBLAGE TEMPS CALCUL				
RESI_GLOB_RELA RESI_GLOB_MAXI RHO VALEUR				
2.43200E+00 0 1.03796E-15 1.11022E-15 				

Criterion (S) of convergence reached (S)

The residue of the type RESI_GLOB_RELA is worth 1.037956642671e-15 with the node and degree of

freedom N379 DX

03.

The residue of the type RESI_GLOB_MAXI is worth 1.110223024625e-15 with the

node and degree of

freedom N379 DX

Temps CPU consommé dans ce pas de temps : 0.100 s

* Nombre d'itérations de Newton : 1

* Temps total intégration comportement : 0.059 s (3 intégrations)

* Temps total factorisation matrice : 0.002 s (1 factorisations)

* Temps construction second membre : 0.015 s

* Temps total résolution K.U=F : 0.003 s (1 résolutions)

* Temps assemblage matrice : 0.007 s

* Nombre d'itérations de recherche linéaire : 0

* Temps autres opérations : 0.013 s

Mémoire (Mo): 1419.48 / 1412.53 / 865.01 / 211.64 (VmPeak / VmSize /

Optimum / Minimum)

Filing of the fields

Field stored DEPL at time 2.432000000000e+00 for the sequence number 2432

Field stored SIEF_ELGA at time 2.432000000000e+00 for the sequence number 2432

Field stored VARI_ELGA at time 2.43200000000e+00 for the sequence number 2432

Field stored COMPORTEMENT at time 2.43200000000e+00 for the sequence number 2432

Field stored VITE at time 2.43200000000e+00 for the sequence number 2432

Field stored ACCE at time 2.43200000000e+00 for the sequence number 2432

Adaptation of the time step.

For the method of adaptation of the type FIXE, the computed time step is worth 2.0000000000e-03.

9.9999999999e-04. [97%] Instant calculé : 2.43200e+00, dernier instant archivé : 2.43200e+00, au numéro d'ordre :				
Time of computation: 2.43300000000e+00				
INCREMENT NEWTON RESIDU RESIDU RECH. LINE. OPTION NEWTON				
INSTANT ITERATION RELATIF ABSOLU NB. ITER COEFFICIENT ASSEMBLAGE TEMPS CALCUL				
RESI_GLOB_RELA RESI_GLOB_MAXI RHO VALEUR				
2.43300E+00 0 7.26570E-16 7.77156E-16				
Criterion (S) of convergence reached (S)				
The residue of the type RESI_GLOB_RELA is worth 7.265696498697e-16 with the node and degree of				
freedom N550 DX				
The residue of the type RESI_GLOB_MAXI is worth 7.771561172376e-16 with the node and degree of				
freedom N550 DX				
Temps CPU consommé dans ce pas de temps : 0.113 s				

After best fit on the compulsory points of transition, the smallest time step is worth

* Nombre d'itérations de Newton

* Temps total intégration comportement : 0.073 s (3 intégrations)

: 1

* Temps total factorisation matrice : 0.002 s (1 factorisations)

* Temps construction second membre : 0.015 s

* Temps total résolution K.U=F : 0.003 s (1 résolutions)

* Temps assemblage matrice : 0.007 s

* Nombre d'itérations de recherche linéaire : 0

* Temps autres opérations : 0.013 s

Mémoire (Mo): 1420.01 / 1413.01 / 865.55 / 211.64 (VmPeak / VmSize /

Optimum / Minimum)

Filing of the fields

Field stored DEPL at time 2.433000000000e+00 for the sequence number 2433

Field stored SIEF_ELGA at time 2.433000000000e+00 for the sequence number 2433

Field stored VARI_ELGA at time 2.43300000000e+00 for the sequence number 2433

Field stored COMPORTEMENT at time 2.433000000000e+00 for the sequence number 2433

Field stored VITE at time 2.43300000000e+00 for the sequence number 2433

Field stored ACCE at time 2.43300000000e+00 for the sequence number 2433

Adaptation of the time step.

For the method of adaptation of the type FIXE, the computed time step is worth 2.00000000000e-03.

On all the criteria of adaptation, the smallest time step is worth 2.0000000000000 - 03.

After best fit on the compulsory points of transition, the smallest time step is worth 9.999999999e-04.

[97%] Instant calculé: 2.43300e+00, dernier instant archivé: 2.43300e+00, au numéro

d'ordre :					
2433					
Time of computati	on: 2.43400000000e+00				
•	NEWTON RE	·			
•	ITERATION RELA DEFFICIENT ASSEMBLAGE	,			
 RHO	RESI_GLOB_ VALEU	RELA RESI_GLOB_MAXI R			
2.43400E+00	0 9.86059E-16	 6 1.05471E-15 			
Criterion (S) of cor	nvergence reached (S)				
, ,	type RESI_GLOB_RELA is worth	9.860588105375e-16 with the			
freedom N449	DX				
The residue of the node and degree	type RESI_GLOB_MAXI is worth	1.054711873394e-15 with the			
freedom N449	DX				
Temps CPU conso	mmé dans ce pas de temps :	0.098 s			
* Nombre d'itération	ons de Newton	: 1			
* Temps total intégration comportement		: 0.057 s (3 intégrations)			
* Temps total factorisation matrice		: 0.002 s (1 factorisations)			

* Temps construction second membre : 0.015 s

* Temps total résolution K.U=F : 0.003 s (1 résolutions)

* Temps assemblage matrice : 0.007 s

* Nombre d'itérations de recherche linéaire : 0

* Temps autres opérations : 0.012 s

Mémoire (Mo): 1420.54 / 1413.57 / 866.08 / 211.64 (VmPeak / VmSize / Optimum / Minimum)

Filing of the fields

Field stored DEPL at time 2.434000000000e+00 for the sequence number 2434

Field stored SIEF_ELGA at time 2.43400000000e+00 for the sequence number 2434

Field stored VARI_ELGA at time 2.43400000000e+00 for the sequence number 2434

Field stored COMPORTEMENT at time 2.434000000000e+00 for the sequence number 2434

Field stored VITE at time 2.434000000000e+00 for the sequence number 2434 Field stored ACCE at time 2.434000000000e+00 for the sequence number 2434 Adaptation of the time step.

For the method of adaptation of the type FIXE, the computed time step is worth 2.0000000000e-03.

On all the criteria of adaptation, the smallest time step is worth 2.0000000000000 - 03.

After best fit on the compulsory points of transition, the smallest time step is worth 9.999999999e-04.

[97%] Instant calculé : 2.43400e+00, dern	ier instant archivé : 2.43400e+00,	au numéro
d'ordre :		

2434

Time of computation: 2.435000000000e+00		
•	NEWTON RECH. LINE. OPTIO	residu residu N newton
	ITERATION R EFFICIENT ASSEMBLA	
 RHO		OB_RELA RESI_GLOB_MAXI LEUR
	0 7.26570E TANGENTE	 E-16 7.77156E-16
Criterian (C) of		
Criterion (S) of con-	vergence reached (S)	
The residue of the node and degree		orth 7.265696498697e-16 with the
freedom N449	DX	
The residue of the node and degree		orth 7.771561172376e-16 with the
freedom N449	DX	
Temps CPU consor	nmé dans ce pas de temps	: 0.099 s
* Nombre d'itération	ons de Newton	:1
* Temps total intég	ration comportement	: 0.058 s (3 intégrations)
* Temps total facto	risation matrice	: 0.002 s (1 factorisations)
* Temps construction	on second membre	: 0.015 s
* Temps total résol	ution K.U=F	: 0.003 s (1 résolutions)
* Temps assemblage matrice		: 0.007 s

* Nombre d'itérations de recherche linéaire : 0 * Temps autres opérations : 0.013 s Mémoire (Mo): 1421.08 / 1414.09 / 866.62 / 211.64 (VmPeak / VmSize / Optimum / Minimum) Filing of the fields Field stored DEPL at time 2.435000000000e+00 for the sequence number 2435 Field stored SIEF_ELGA at time 2.43500000000e+00 for the sequence number 2435 Field stored VARI_ELGA at time 2.43500000000e+00 for the sequence number 2435 Field stored COMPORTEMENT at time 2.43500000000e+00 for the sequence number 2435 Field stored VITE at time 2.435000000000e+00 for the sequence number 2435 Field stored ACCE at time 2.435000000000e+00 for the sequence number 2435 Adaptation of the time step. For the method of adaptation of the type FIXE, the computed time step is worth 2.000000000000e-03. On all the criteria of adaptation, the smallest time step is worth 2.00000000000e-03. After best fit on the compulsory points of transition, the smallest time step is worth 9.9999999999e-04. [97%] Instant calculé: 2.43500e+00, dernier instant archivé: 2.43500e+00, au numéro d'ordre: 2435

Time of computation: 2.43600000000e+00

INCREMENT NEWTON RESIDU RESIDU RECH. LINE. OPTION NEWTON	
INSTANT ITERATION RELATIF ABSOLU NB. ITER COEFFICIENT ASSEMBLAGE TEMPS CALCUL	
RESI_GLOB_RELA RESI_GLOB_MAXI RHO VALEUR	
2.43600E+00 0 7.78467E-16 8.32667E-16	
Criterion (S) of convergence reached (S)	
The residue of the type RESI_GLOB_RELA is worth 7.784674820033e-16 with the node and degree of	
freedom N378 DX	
The residue of the type RESI_GLOB_MAXI is worth 8.326672684689e-16 with the node and degree of	
freedom N378 DX	
Temps CPU consommé dans ce pas de temps : 0.099 s	
* Nombre d'itérations de Newton : 1	
* Temps total intégration comportement : 0.059 s (3 intégrations)	
* Temps total factorisation matrice : 0.002 s (1 factorisations)	
* Temps construction second membre : 0.016 s	
* Temps total résolution K.U=F : 0.003 s (1 résolutions)	
* Temps assemblage matrice : 0.007 s	
* Nombre d'itérations de recherche linéaire : 0	
* Temps autres opérations : 0.013 s	
Mémoire (Mo): 1421.64 / 1414.67 / 867.16 / 211.64 (VmPeak / VmSize /	

Optimum / Minimum) Filing of the fields Field stored DEPL at time 2.436000000000e+00 for the sequence number 2436 Field stored SIEF_ELGA at time 2.43600000000e+00 for the sequence number 2436 Field stored VARI_ELGA at time 2.43600000000e+00 for the sequence number 2436 Field stored COMPORTEMENT at time 2.43600000000e+00 for the sequence number 2436 Field stored VITE at time 2.436000000000e+00 for the sequence number 2436 Field stored ACCE at time 2.436000000000e+00 for the sequence number 2436 Adaptation of the time step. For the method of adaptation of the type FIXE, the computed time step is worth 2.000000000000e-03. On all the criteria of adaptation, the smallest time step is worth 2.000000000000e-03. After best fit on the compulsory points of transition, the smallest time step is worth 9.9999999999e-04. [97%] Instant calculé: 2.43600e+00, dernier instant archivé: 2.43600e+00, au numéro d'ordre: 2436

Time of computation: 2.43700000000e+00

INCREMENT | NEWTON | RESIDU | RESIDU |

RECH. LINE. | RECH. LINE. | OPTION | NEWTON |

INSTANT | ITERATION | RELATIF | ABSOLU |

NB. ITER COEFFICIENT ASSEMBLAGE TEMPS CALCUL		
RESI_GLOB_RELA RESI_GLOB_MAXI RHO VALEUR		
2.43700E+00 0 8.30365E-16 8.88178E-16		
Criterion (S) of convergence reached (S)		
The residue of the type RESI_GLOB_RELA is worth 8.303653141368e-16 with the node and degree of		
freedom N550 DX		
The residue of the type RESI_GLOB_MAXI is worth 8.881784197001e-16 with the node and degree of		
freedom N550 DX		
Temps CPU consommé dans ce pas de temps : 0.099 s		
* Nombre d'itérations de Newton : 1		
* Temps total intégration comportement : 0.059 s (3 intégrations)		
* Temps total factorisation matrice : 0.002 s (1 factorisations)		
* Temps construction second membre : 0.016 s		
* Temps total résolution K.U=F : 0.003 s (1 résolutions)		
* Temps assemblage matrice : 0.007 s		
* Nombre d'itérations de recherche linéaire : 0		
* Temps autres opérations : 0.013 s		
Mémoire (Mo): 1422.20 / 1415.23 / 867.69 / 211.64 (VmPeak / VmSize / Optimum / Minimum)		
Filing of the fields		
Field stored DEPL at time 2.437000000000e+00 for the sequence number 2437		

Field stored 2437	SIEF_ELGA at time 2.437000000000e+00 for the sequence number
Field stored 2437	VARI_ELGA at time 2.437000000000e+00 for the sequence number
Field stored number 243	COMPORTEMENT at time 2.43700000000e+00 for the sequence
Field stored	VITE at time 2.437000000000e+00 for the sequence number 2437
Field stored	ACCE at time 2.437000000000e+00 for the sequence number 2437
Adaptation o	f the time step.
For the meth	od of adaptation of the type FIXE, the computed time step is worth
2.0000000000	000e-03.
On all the crit	teria of adaptation, the smallest time step is worth 2.000000000000e-
After best fit	on the compulsory points of transition, the smallest time step is worth
9.9999999999	999e-04.
[97%] Instant d'ordre :	calculé : 2.43700e+00, dernier instant archivé : 2.43700e+00, au numéro
2437	
Time of comp	outation: 2.43800000000e+00
	NT NEWTON RESIDU RESIDU
•	T ITERATION RELATIF ABSOLU COEFFICIENT ASSEMBLAGE TEMPS CALCUL
 RHO	RESI_GLOB_RELA RESI_GLOB_MAXI VALEUR

.-----

| 2.43800E+00 | 0 | 7.78467E-16 | 8.32667E-16

Criterion (S) of convergence reached (S)

The residue of the type RESI_GLOB_RELA is worth 7.784674820033e-16 with the node and degree of

freedom N410 DX

The residue of the type RESI_GLOB_MAXI is worth 8.326672684689e-16 with the node and degree of

freedom N410 DX

Temps CPU consommé dans ce pas de temps : 0.098 s

* Nombre d'itérations de Newton : 1

* Temps total intégration comportement : 0.059 s (3 intégrations)

* Temps total factorisation matrice : 0.002 s (1 factorisations)

* Temps construction second membre : 0.015 s

* Temps total résolution K.U=F : 0.003 s (1 résolutions)

* Temps assemblage matrice : 0.007 s

* Nombre d'itérations de recherche linéaire : 0

* Temps autres opérations : 0.013 s

Mémoire (Mo): 1422.75 / 1415.80 / 868.23 / 211.64 (VmPeak / VmSize /

Optimum / Minimum)

Filing of the fields

Field stored DEPL at time 2.438000000000e+00 for the sequence number 2438

Field stored SIEF_ELGA at time 2.43800000000e+00 for the sequence number

2438

Field stored VARI_ELGA at time 2.43800000000e+00 for the sequence number

2438

number 2438 Field stored VITE at time 2.43800000000e+00 for the sequence number 2438 Field stored ACCE at time 2.43800000000e+00 for the sequence number 2438 Adaptation of the time step. For the method of adaptation of the type FIXE, the computed time step is worth 2.000000000000e-03. 03. After best fit on the compulsory points of transition, the smallest time step is worth 9.9999999999e-04. [97%] Instant calculé: 2.43800e+00, dernier instant archivé: 2.43800e+00, au numéro d'ordre: 2438 Time of computation: 2.439000000000e+00 INCREMENT | NEWTON RESIDU RESIDU RECH. LINE. | RECH. LINE. | OPTION | NEWTON | ITERATION | INSTANT RELATIF ABSOLU NB. ITER | COEFFICIENT | ASSEMBLAGE | TEMPS CALCUL | | RESI_GLOB_RELA | RESI_GLOB_MAXI | | VALEUR RHO | 2.43900E+00 0 | 9.86059E-16 | 1.05471E-15 | **|TANGENTE**

Field stored COMPORTEMENT at time 2.438000000000e+00 for the sequence

.----

Criterion (S) of convergence reached (S)

The residue of the type RESI_GLOB_RELA is worth 9.860588105375e-16 with the node and degree of

freedom N379 DX

The residue of the type RESI_GLOB_MAXI is worth 1.054711873394e-15 with the node and degree of

freedom N379 DX

Temps CPU consommé dans ce pas de temps : 0.099 s

* Nombre d'itérations de Newton : 1

* Temps total intégration comportement : 0.059 s (3 intégrations)

* Temps total factorisation matrice : 0.002 s (1 factorisations)

* Temps construction second membre : 0.015 s

* Temps total résolution K.U=F : 0.003 s (1 résolutions)

* Temps assemblage matrice : 0.007 s

* Nombre d'itérations de recherche linéaire : 0

* Temps autres opérations : 0.013 s

Mémoire (Mo) : 1423.29 / 1416.28 / 868.77 / 211.64 (VmPeak / VmSize /

Optimum / Minimum)

Filing of the fields

Field stored DEPL at time 2.43900000000e+00 for the sequence number 2439

Field stored SIEF_ELGA at time 2.43900000000e+00 for the sequence number 2439

Field stored VARI_ELGA at time 2.43900000000e+00 for the sequence number 2439

Field stored COMPORTEMENT at time 2.43900000000e+00 for the sequence number 2439

Field stored VITE at time 2.43900000000e+00 for the sequence number 2439

Field stored ACCE at time 2.43900000000e+00 for the sequence number 2439 Adaptation of the time step. For the method of adaptation of the type FIXE, the computed time step is worth 2.000000000000e-03. On all the criteria of adaptation, the smallest time step is worth 2.00000000000e-03. After best fit on the compulsory points of transition, the smallest time step is worth 9.9999999999e-04. [97%] Instant calculé: 2.43900e+00, dernier instant archivé: 2.43900e+00, au numéro d'ordre: 2439 Time of computation: 2.44000000000e+00 INCREMENT | NEWTON | RESIDU RECH. LINE. | RECH. LINE. | OPTION NEWTON INSTANT ITERATION | RELATIF ABSOLU | COEFFICIENT | ASSEMBLAGE | TEMPS CALCUL | | RESI_GLOB_RELA | RESI_GLOB_MAXI | RHO VALEUR | 2.44000E+00 | 0 | 8.82263E-16 | 9.43690E-16 **|TANGENTE**

Criterion (S) of convergence reached (S)

The residue of the type RESI_GLOB_RELA is worth 8.822631462704e-16 with the

node and degree of

freedom N550 DX

The residue of the type RESI_GLOB_MAXI is worth 9.436895709314e-16 with the node and degree of

freedom N550 DX

Temps CPU consommé dans ce pas de temps : 0.099 s

* Nombre d'itérations de Newton : 1

* Temps total intégration comportement : 0.058 s (3 intégrations)

* Temps total factorisation matrice : 0.002 s (1 factorisations)

* Temps construction second membre : 0.015 s

* Temps total résolution K.U=F : 0.003 s (1 résolutions)

* Temps assemblage matrice : 0.007 s

* Nombre d'itérations de recherche linéaire : 0

* Temps autres opérations : 0.013 s

Mémoire (Mo): 1423.83 / 1416.86 / 869.31 / 211.64 (VmPeak / VmSize /

Optimum / Minimum)

Filing of the fields

Field stored DEPL at time 2.44000000000e+00 for the sequence number 2440

Field stored SIEF_ELGA at time 2.440000000000e+00 for the sequence number 2440

Field stored VARI_ELGA at time 2.44000000000e+00 for the sequence number 2440

Field stored COMPORTEMENT at time 2.44000000000e+00 for the sequence number 2440

Field stored VITE at time 2.44000000000e+00 for the sequence number 2440

Field stored ACCE at time 2.44000000000e+00 for the sequence number 2440

Adaptation of the time step.

For the method of adaptation of the type FIXE, the computed time step is worth

2.0000000000e-03.	
On all the criteria of adaptation, the smallest time step is worth 03.	2.000000000000e-
After best fit on the compulsory points of transition, the smallest	time step is worth
9.9999999999e-04.	

[97%] Instant calculé: 2.44000e+00, dernier instant archivé: 2.44000e+00, au numéro d'ordre: 2440 Time of computation: 2.441000000000e+00 | INCREMENT | NEWTON | RESIDU | RESIDU | RECH. LINE. | RECH. LINE. | OPTION | NEWTON | INSTANT | ITERATION | RELATIF | ABSOLU NB. ITER | COEFFICIENT | ASSEMBLAGE | TEMPS CALCUL | | RESI_GLOB_RELA | RESI_GLOB_MAXI | RHO | VALEUR | 2.44100E+00 | 0 | 8.82263E-16 | 9.43690E-16 | |TANGENTE |

Criterion (S) of convergence reached (S)

The residue of the type RESI_GLOB_RELA is worth 8.822631462704e-16 with the node and degree of

freedom N550 DX

The residue of the type RESI_GLOB_MAXI is worth 9.436895709314e-16 with the

node and degree of

freedom N550 DX

Temps CPU consommé dans ce pas de temps : 0.099 s

* Nombre d'itérations de Newton : 1

* Temps total intégration comportement : 0.058 s (3 intégrations)

* Temps total factorisation matrice : 0.002 s (1 factorisations)

* Temps construction second membre : 0.015 s

* Temps total résolution K.U=F : 0.003 s (1 résolutions)

* Temps assemblage matrice : 0.007 s

* Nombre d'itérations de recherche linéaire : 0

* Temps autres opérations : 0.013 s

Mémoire (Mo): 1424.38 / 1417.44 / 869.84 / 211.64 (VmPeak / VmSize /

Optimum / Minimum)

Filing of the fields

Field stored DEPL at time 2.441000000000e+00 for the sequence number 2441

Field stored SIEF_ELGA at time 2.441000000000e+00 for the sequence number

2441

Field stored VARI_ELGA at time 2.44100000000e+00 for the sequence number

2441

Field stored COMPORTEMENT at time 2.44100000000e+00 for the sequence

number 2441

Field stored VITE at time 2.441000000000e+00 for the sequence number 2441

Field stored ACCE at time 2.441000000000e+00 for the sequence number 2441

Adaptation of the time step.

For the method of adaptation of the type FIXE, the computed time step is worth

2.000000000000e-03.

03.

9.99999999e-04.
[97%] Instant calculé : 2.44100e+00, dernier instant archivé : 2.44100e+00, au numéro d'ordre :
2441
Time of computation: 2.44200000000e+00
INCREMENT NEWTON RESIDU RESIDU RECH. LINE. OPTION NEWTON
INSTANT ITERATION RELATIF ABSOLU NB. ITER COEFFICIENT ASSEMBLAGE TEMPS CALCUL
RESI_GLOB_RELA RESI_GLOB_MAXI RHO VALEUR
2.44200E+00 0 7.26570E-16 7.77156E-16
Criterion (S) of convergence reached (S)
The residue of the type RESI_GLOB_RELA is worth 7.265696498697e-16 with the node and degree of
freedom N410 DX
The residue of the type RESI_GLOB_MAXI is worth 7.771561172376e-16 with the node and degree of
freedom N410 DX
Temps CPU consommé dans ce pas de temps : 0.098 s

After best fit on the compulsory points of transition, the smallest time step is worth

* Nombre d'itérations de Newton

* Temps total intégration comportement : 0.058 s (3 intégrations)

: 1

* Temps total factorisation matrice : 0.002 s (1 factorisations)

* Temps construction second membre : 0.015 s

* Temps total résolution K.U=F : 0.003 s (1 résolutions)

* Temps assemblage matrice : 0.007 s

* Nombre d'itérations de recherche linéaire : 0

* Temps autres opérations : 0.013 s

Mémoire (Mo): 1424.92 / 1417.91 / 870.38 / 211.64 (VmPeak / VmSize /

Optimum / Minimum)

Filing of the fields

Field stored DEPL at time 2.442000000000e+00 for the sequence number 2442

Field stored SIEF_ELGA at time 2.442000000000e+00 for the sequence number 2442

Field stored VARI_ELGA at time 2.44200000000e+00 for the sequence number 2442

Field stored COMPORTEMENT at time 2.44200000000e+00 for the sequence number 2442

Field stored VITE at time 2.442000000000e+00 for the sequence number 2442

Field stored ACCE at time 2.442000000000e+00 for the sequence number 2442

Adaptation of the time step.

For the method of adaptation of the type FIXE, the computed time step is worth 2.00000000000e-03.

On all the criteria of adaptation, the smallest time step is worth 2.0000000000000 - 03.

After best fit on the compulsory points of transition, the smallest time step is worth 9.999999999e-04.

[97%] Instant calculé: 2.44200e+00, dernier instant archivé: 2.44200e+00, au numéro

d'ordre :		
2442		
Time of computati	on: 2.44300000000e+00	
•	NEWTON RE RECH. LINE. OPTION	·
•	ITERATION RELAT DEFFICIENT ASSEMBLAGE	·
 RHO	RESI_GLOB_I VALEUI	RELA RESI_GLOB_MAXI R
2.44300E+00 	0 1.08985E-15 TANGENTE	 5 1.16573E-15
Critorian (S) of cor	nvergence reached (S)	
, ,	type RESI_GLOB_RELA is worth	1.089854474805e-15 with the
freedom N379	DX	
The residue of the node and degree	type RESI_GLOB_MAXI is worth	1.165734175856e-15 with the
freedom N379	DX	
Temps CPU conso	mmé dans ce pas de temps : (0.098 s
* Nombre d'itérati	ons de Newton	: 1
* Temps total intég	gration comportement	: 0.057 s (3 intégrations)
* Temps total factorisation matrice		: 0.002 s (1 factorisations)

* Temps construction second membre : 0.015 s

* Temps total résolution K.U=F : 0.003 s (1 résolutions)

* Temps assemblage matrice : 0.007 s

* Nombre d'itérations de recherche linéaire : 0

* Temps autres opérations : 0.013 s

Mémoire (Mo): 1425.46 / 1418.49 / 870.92 / 211.64 (VmPeak / VmSize / Optimum / Minimum)

Filing of the fields

Field stored DEPL at time 2.443000000000e+00 for the sequence number 2443

Field stored SIEF_ELGA at time 2.443000000000e+00 for the sequence number 2443

Field stored VARI_ELGA at time 2.44300000000e+00 for the sequence number 2443

Field stored COMPORTEMENT at time 2.443000000000e+00 for the sequence number 2443

Field stored VITE at time 2.44300000000e+00 for the sequence number 2443

Field stored ACCE at time 2.44300000000e+00 for the sequence number 2443

Adaptation of the time step.

For the method of adaptation of the type FIXE, the computed time step is worth 2.0000000000e-03.

On all the criteria of adaptation, the smallest time step is worth 2.0000000000000 - 03.

After best fit on the compulsory points of transition, the smallest time step is worth 9.999999999e-04.

[97%] Instant calculé : 2.44300e+00, dernier instant archivé : 2.44300e+00, au numéro d'ordre :

2443

Time of computation: 2.44400000000e+00				
•	NEWTON RECH. LINE. (-	•	DU
•	iteration efficient asse		ABSOLU TEMPS CALCUL	
 RHO	Rf	ESI_GLOB_RELA VALEUR	A RESI_GLOB_MA: 	XI
•	0 6.° TANGENTE		7.21645E-16 	l
Critorian (S) of con	vorgence reached (C)			
	vergence reached (S)	A is worth G	746710177060. 10	S with the
node and degree	type RESI_GLOB_RELA of	A IS WOITH O.	7407101773026-10	o with the
freedom N383	DX			
The residue of the node and degree	type RESI_GLOB_MAX of	XI is worth 7.	216449660064e-1	6 with the
freedom N383	DX			
Temps CPU consor	nmé dans ce pas de te	mps : 0.09	19 s	
* Nombre d'itération	ns de Newton		: 1	
* Temps total intégration comportement : 0.058 s (3 intégrations)		ations)		
* Temps total facto	risation matrice	:	0.002 s (1 factorisa	tions)
* Temps construction	on second membre		: 0.015 s	
* Temps total résol	ution K.U=F		: 0.003 s (1 résolut	tions)
* Temps assemblage matrice		: 0.007 s		

* Nombre d'itérations de recherche linéaire : 0 * Temps autres opérations : 0.013 s Mémoire (Mo): 1426.01 / 1419.07 / 871.45 / 211.64 (VmPeak / VmSize / Optimum / Minimum) Filing of the fields Field stored DEPL at time 2.444000000000e+00 for the sequence number 2444 Field stored SIEF_ELGA at time 2.44400000000e+00 for the sequence number 2444 Field stored VARI_ELGA at time 2.44400000000e+00 for the sequence number 2444 Field stored COMPORTEMENT at time 2.44400000000e+00 for the sequence number 2444 Field stored VITE at time 2.444000000000e+00 for the sequence number 2444 Field stored ACCE at time 2.444000000000e+00 for the sequence number 2444 Adaptation of the time step. For the method of adaptation of the type FIXE, the computed time step is worth 2.000000000000e-03. On all the criteria of adaptation, the smallest time step is worth 2.00000000000e-03. After best fit on the compulsory points of transition, the smallest time step is worth 9.9999999999e-04. [97%] Instant calculé: 2.44400e+00, dernier instant archivé: 2.44400e+00, au numéro d'ordre: 2444

Time of computation: 2.44500000000e+00

INCREMENT NEWTON RESIDU RESIDU RECH. LINE. OPTION NEWTON
INSTANT ITERATION RELATIF ABSOLU NB. ITER COEFFICIENT ASSEMBLAGE TEMPS CALCUL
RESI_GLOB_RELA RESI_GLOB_MAXI RHO VALEUR
2.44500E+00 0 8.82263E-16 9.43690E-16
Criterion (S) of convergence reached (S)
The residue of the type RESI_GLOB_RELA is worth 8.822631462704e-16 with the node and degree of
freedom N449 DX
The residue of the type RESI_GLOB_MAXI is worth 9.436895709314e-16 with the node and degree of
freedom N449 DX
Temps CPU consommé dans ce pas de temps : 0.100 s
* Nombre d'itérations de Newton : 1
* Temps total intégration comportement : 0.059 s (3 intégrations)
* Temps total factorisation matrice : 0.002 s (1 factorisations)
* Temps construction second membre : 0.015 s
* Temps total résolution K.U=F : 0.003 s (1 résolutions)
* Temps assemblage matrice : 0.007 s
* Nombre d'itérations de recherche linéaire : 0
* Temps autres opérations : 0.013 s
Mémoire (Mo): 1426.55 / 1419.54 / 871.99 / 211.64 (VmPeak / VmSize /

Optimum / Minimum) Filing of the fields Field stored DEPL at time 2.445000000000e+00 for the sequence number 2445 Field stored SIEF_ELGA at time 2.44500000000e+00 for the sequence number 2445 Field stored VARI_ELGA at time 2.44500000000e+00 for the sequence number 2445 Field stored COMPORTEMENT at time 2.44500000000e+00 for the sequence number 2445 Field stored VITE at time 2.445000000000e+00 for the sequence number 2445 Field stored ACCE at time 2.445000000000e+00 for the sequence number 2445 Adaptation of the time step. For the method of adaptation of the type FIXE, the computed time step is worth 2.000000000000e-03. On all the criteria of adaptation, the smallest time step is worth 2.000000000000e-03. After best fit on the compulsory points of transition, the smallest time step is worth 9.9999999999e-04. [97%] Instant calculé: 2.44500e+00, dernier instant archivé: 2.44500e+00, au numéro d'ordre: 2445

2445

Time of computation: 2.446000000000e+00

INCREMENT | NEWTON | RESIDU | RESIDU |
RECH. LINE. | RECH. LINE. | OPTION | NEWTON |
INSTANT | ITERATION | RELATIF | ABSOLU |

NB. ITER COEFFICIENT ASSEMBLAGE TEMPS CALCUL		
RESI_GLOB_RELA RESI_GLOB_MAXI RHO VALEUR		
2.44600E+00 0 8.30365E-16 8.88178E-16		
Criterion (S) of convergence reached (S)		
The residue of the type RESI_GLOB_RELA is worth 8.303653141368e-16 with the node and degree of		
freedom N379 DX		
The residue of the type RESI_GLOB_MAXI is worth 8.881784197001e-16 with the node and degree of		
freedom N379 DX		
Temps CPU consommé dans ce pas de temps : 0.100 s		
* Nombre d'itérations de Newton : 1		
* Temps total intégration comportement : 0.059 s (3 intégrations)		
* Temps total factorisation matrice : 0.002 s (1 factorisations)		
* Temps construction second membre : 0.015 s		
* Temps total résolution K.U=F : 0.003 s (1 résolutions)		
* Temps assemblage matrice : 0.007 s		
* Nombre d'itérations de recherche linéaire : 0		
* Temps autres opérations : 0.013 s		
Mémoire (Mo): 1427.09 / 1420.12 / 872.53 / 211.64 (VmPeak / VmSize / Optimum / Minimum)		
Filing of the fields		
Field stored DEPL at time 2.446000000000e+00 for the sequence number 2446		

Field stored 2446	SIEF_ELGA at time 2.446000000000e+00 for the sequence number
Field stored 2446	VARI_ELGA at time 2.446000000000e+00 for the sequence number
Field stored number 244	COMPORTEMENT at time 2.44600000000e+00 for the sequence
Field stored	VITE at time 2.446000000000e+00 for the sequence number 2446
Field stored	ACCE at time 2.446000000000e+00 for the sequence number 2446
Adaptation o	f the time step.
For the meth	od of adaptation of the type FIXE, the computed time step is worth
2.000000000	000e-03.
On all the crit	teria of adaptation, the smallest time step is worth 2.000000000000e-
After best fit	on the compulsory points of transition, the smallest time step is worth
9.999999999	999e-04.
[97%] Instant d'ordre :	calculé : 2.44600e+00, dernier instant archivé : 2.44600e+00, au numéro
2446	
Time of comp	outation: 2.44700000000e+00
	NT NEWTON RESIDU RESIDU . RECH. LINE. OPTION NEWTON
•	T ITERATION RELATIF ABSOLU COEFFICIENT ASSEMBLAGE TEMPS CALCUL
l RHO	RESI_GLOB_RELA RESI_GLOB_MAXI VALEUR

.-----

| 2.44700E+00 | 0 | 7.78467E-16 | 8.32667E-16

Criterion (S) of convergence reached (S)

The residue of the type RESI_GLOB_RELA is worth 7.784674820033e-16 with the node and degree of

freedom N449 DX

The residue of the type RESI_GLOB_MAXI is worth 8.326672684689e-16 with the node and degree of

freedom N449 DX

Temps CPU consommé dans ce pas de temps : 0.100 s

* Nombre d'itérations de Newton : 1

* Temps total intégration comportement : 0.059 s (3 intégrations)

* Temps total factorisation matrice : 0.002 s (1 factorisations)

* Temps construction second membre : 0.015 s

* Temps total résolution K.U=F : 0.003 s (1 résolutions)

* Temps assemblage matrice : 0.007 s

* Nombre d'itérations de recherche linéaire : 0

* Temps autres opérations : 0.013 s

Mémoire (Mo) : 1427.64 / 1420.70 / 873.07 / 211.64 (VmPeak / VmSize /

Optimum / Minimum)

Filing of the fields

Field stored DEPL at time 2.447000000000e+00 for the sequence number 2447

Field stored SIEF_ELGA at time 2.44700000000e+00 for the sequence number

2447

Field stored VARI_ELGA at time 2.44700000000e+00 for the sequence number

2447

Field stored COMPORTEMENT at time 2.447000000000e+00 for the sequence number 2447			
Field stored VITE at time 2.447000000000e+00 for the sequence number 2447			
Field stored ACCE at time 2.447000000000e+00 for the sequence number 2447			
Adaptation of the time step.			
For the method of adaptation of the type FIXE, the computed time step is worth			
2.0000000000e-03.			
On all the criteria of adaptation, the smallest time step is worth 2.00000000000e- 03.			
After best fit on the compulsory points of transition, the smallest time step is worth			
9.999999999e-04.			
[97%] Instant calculé : 2.44700e+00, dernier instant archivé : 2.44700e+00, au numéro d'ordre :			
2447			
Time of computation: 2.448000000000e+00			
INCREMENT NEWTON RESIDU RESIDU RECH. LINE. RECH. LINE. OPTION NEWTON			
INSTANT ITERATION RELATIF ABSOLU NB. ITER COEFFICIENT ASSEMBLAGE TEMPS CALCUL			
RESI_GLOB_RELA RESI_GLOB_MAXI RHO VALEUR			
2.44800E+00 0 6.74672E-16 7.21645E-16			

Criterion (S) of convergence reached (S)

The residue of the type RESI_GLOB_RELA is worth 6.746718177362e-16 with the node and degree of

freedom N379 DX

The residue of the type RESI_GLOB_MAXI is worth 7.216449660064e-16 with the node and degree of

freedom N379 DX

Temps CPU consommé dans ce pas de temps : 0.099 s

* Nombre d'itérations de Newton : 1

* Temps total intégration comportement : 0.059 s (3 intégrations)

* Temps total factorisation matrice : 0.002 s (1 factorisations)

* Temps construction second membre : 0.015 s

* Temps total résolution K.U=F : 0.003 s (1 résolutions)

* Temps assemblage matrice : 0.007 s

* Nombre d'itérations de recherche linéaire : 0

* Temps autres opérations : 0.013 s

Mémoire (Mo): 1428.19 / 1421.18 / 873.60 / 211.64 (VmPeak / VmSize / Optimum / Minimum)

Filing of the fields

Field stored DEPL at time 2.448000000000e+00 for the sequence number 2448

Field stored SIEF_ELGA at time 2.448000000000e+00 for the sequence number 2448

Field stored VARI_ELGA at time 2.448000000000e+00 for the sequence number 2448

Field stored COMPORTEMENT at time 2.44800000000e+00 for the sequence number 2448

Field stored VITE at time 2.448000000000e+00 for the sequence number 2448

Field stored ACCE at time 2.448000000000e+00 for the sequence number 2448 Adaptation of the time step. For the method of adaptation of the type FIXE, the computed time step is worth 2.000000000000e-03. On all the criteria of adaptation, the smallest time step is worth 2.00000000000e-03. After best fit on the compulsory points of transition, the smallest time step is worth 9.9999999999e-04. [97%] Instant calculé: 2.44800e+00, dernier instant archivé: 2.44800e+00, au numéro d'ordre: 2448 Time of computation: 2.44900000000e+00 INCREMENT | NEWTON | RESIDU RECH. LINE. | RECH. LINE. | OPTION NEWTON INSTANT ITERATION | RELATIF ABSOLU | COEFFICIENT | ASSEMBLAGE | TEMPS CALCUL | | RESI_GLOB_RELA | RESI_GLOB_MAXI | RHO VALEUR | 0 | 2.44900E+00 | 9.86059E-16 | 1.05471E-15 **ITANGENTE**

Criterion (S) of convergence reached (S)

The residue of the type RESI_GLOB_RELA is worth 9.860588105375e-16 with the

node and degree of

freedom N449 DX

The residue of the type RESI_GLOB_MAXI is worth 1.054711873394e-15 with the node and degree of

freedom N449 DX

Temps CPU consommé dans ce pas de temps : 0.099 s

* Nombre d'itérations de Newton : 1

* Temps total intégration comportement : 0.059 s (3 intégrations)

* Temps total factorisation matrice : 0.002 s (1 factorisations)

* Temps construction second membre : 0.015 s

* Temps total résolution K.U=F : 0.003 s (1 résolutions)

* Temps assemblage matrice : 0.007 s

* Nombre d'itérations de recherche linéaire : 0

* Temps autres opérations : 0.013 s

Mémoire (Mo): 1428.74 / 1421.73 / 874.14 / 211.64 (VmPeak / VmSize /

Optimum / Minimum)

Filing of the fields

Field stored DEPL at time 2.44900000000e+00 for the sequence number 2449

Field stored SIEF_ELGA at time 2.44900000000e+00 for the sequence number 2449

Field stored VARI_ELGA at time 2.44900000000e+00 for the sequence number 2449

Field stored COMPORTEMENT at time 2.44900000000e+00 for the sequence number 2449

Field stored VITE at time 2.44900000000e+00 for the sequence number 2449

Field stored ACCE at time 2.449000000000e+00 for the sequence number 2449

Adaptation of the time step.

For the method of adaptation of the type FIXE, the computed time step is worth

2.000000000000e-03.		

After best fit on the compulsory points of transition, the smallest time step is worth 9.999999999e-04.

[97%] Instant calculé : 2.44900e+00, dernier instant archivé : 2.44900e+00, au numéro d'ordre :			
2449			
Time of computation: 2.45000000000e+00			
INCREMENT NEWTON RESIDU RESIDU RECH. LINE. RECH. LINE. OPTION NEWTON			
INSTANT ITERATION RELATIF ABSOLU NB. ITER COEFFICIENT ASSEMBLAGE TEMPS CALCUL			
2.45000E+00 0 8.30365E-16 8.88178E-16			

Criterion (S) of convergence reached (S)

The residue of the type RESI_GLOB_RELA is worth 8.303653141368e-16 with the node and degree of

freedom N449 DX

The residue of the type RESI_GLOB_MAXI is worth 8.881784197001e-16 with the

node and degree of

freedom N449 DX

Temps CPU consommé dans ce pas de temps : 0.099 s

* Nombre d'itérations de Newton : 1

* Temps total intégration comportement : 0.058 s (3 intégrations)

* Temps total factorisation matrice : 0.002 s (1 factorisations)

* Temps construction second membre : 0.015 s

* Temps total résolution K.U=F : 0.003 s (1 résolutions)

* Temps assemblage matrice : 0.007 s

* Nombre d'itérations de recherche linéaire : 0

* Temps autres opérations : 0.013 s

Mémoire (Mo): 1429.29 / 1422.32 / 874.68 / 211.64 (VmPeak / VmSize /

Optimum / Minimum)

Filing of the fields

Field stored DEPL at time 2.45000000000e+00 for the sequence number 2450

Field stored SIEF_ELGA at time 2.450000000000e+00 for the sequence number 2450

Field stored VARI_ELGA at time 2.45000000000e+00 for the sequence number 2450

Field stored COMPORTEMENT at time 2.45000000000e+00 for the sequence number 2450

Field stored VITE at time 2.45000000000e+00 for the sequence number 2450

Field stored ACCE at time 2.450000000000e+00 for the sequence number 2450

Adaptation of the time step.

For the method of adaptation of the type FIXE, the computed time step is worth 2.0000000000e-03.

9.9999999999e-04. [97%] Instant calculé : 2.45000e+00, dernier instant archivé : 2.45000e+00, au numéro d'ordre :				
Time of computation: 2.45100000000e+00				
INCREMENT NEWTON RESIDU RESIDU RECH. LINE. OPTION NEWTON				
INSTANT ITERATION RELATIF ABSOLU NB. ITER COEFFICIENT ASSEMBLAGE TEMPS CALCUL				
RESI_GLOB_RELA RESI_GLOB_MAXI RHO VALEUR				
2.45100E+00 0 8.30365E-16 8.88178E-16				
Criterion (S) of convergence reached (S)				
The residue of the type RESI_GLOB_RELA is worth 8.303653141368e-16 with the node and degree of				
freedom N379 DX				
The residue of the type RESI_GLOB_MAXI is worth 8.881784197001e-16 with the node and degree of				
freedom N379 DX				
Temps CPU consommé dans ce pas de temps : 0.100 s				

After best fit on the compulsory points of transition, the smallest time step is worth

* Nombre d'itérations de Newton

* Temps total intégration comportement : 0.059 s (3 intégrations)

: 1

* Temps total factorisation matrice : 0.002 s (1 factorisations)

* Temps construction second membre : 0.015 s

* Temps total résolution K.U=F : 0.003 s (1 résolutions)

* Temps assemblage matrice : 0.007 s

* Nombre d'itérations de recherche linéaire : 0

* Temps autres opérations : 0.013 s

Mémoire (Mo): 1429.83 / 1422.86 / 875.21 / 211.64 (VmPeak / VmSize /

Optimum / Minimum)

Filing of the fields

Field stored DEPL at time 2.451000000000e+00 for the sequence number 2451

Field stored SIEF_ELGA at time 2.451000000000e+00 for the sequence number 2451

Field stored VARI_ELGA at time 2.451000000000e+00 for the sequence number 2451

Field stored COMPORTEMENT at time 2.451000000000e+00 for the sequence number 2451

Field stored VITE at time 2.451000000000e+00 for the sequence number 2451

Field stored ACCE at time 2.451000000000e+00 for the sequence number 2451

Adaptation of the time step.

For the method of adaptation of the type FIXE, the computed time step is worth 2.00000000000e-03.

On all the criteria of adaptation, the smallest time step is worth 2.0000000000000 - 03.

After best fit on the compulsory points of transition, the smallest time step is worth 9.999999999e-04.

[98%] Instant calculé: 2.45100e+00, dernier instant archivé: 2.45100e+00, au numéro

d'ordre :					
2451					
Time of computati	on: 2.452000000	000e+00			
	NEWTON RECH. LINE.	•	idu residu newton		
	ITERATION DEFFICIENT A	•	F ABSOLU TEMPS CALCUL		
I	1	RESI_GLOB_R	ELA RESI_GLOB_MAXI		
RHO		VALEUR	I		
LO 450005 : 00			LO 400005 40		
2.45200E+00 	0 TANGENTE	8.82203E-10	9.43690E-16		
Criterion (S) of cor	nvergence reached	(S)			
The residue of the node and degree		RELA is worth	8.822631462704e-16 with the		
freedom N377	DX				
The residue of the node and degree		MAXI is worth	9.436895709314e-16 with the		
freedom N377	DX				
Temps CPU conso	mmé dans ce pas d	le temps : 0	.099 s		
* Nombre d'itérati	ons de Newton		: 1		
* Temps total intég	gration comportem	ent	: 0.058 s (3 intégrations)		
* Temps total factorisation matrice		: 0.002 s (1 factorisations)			

* Temps construction second membre : 0.015 s

* Temps total résolution K.U=F : 0.003 s (1 résolutions)

* Temps assemblage matrice : 0.007 s

* Nombre d'itérations de recherche linéaire : 0

* Temps autres opérations : 0.013 s

Mémoire (Mo): 1430.39 / 1423.38 / 875.75 / 211.64 (VmPeak / VmSize / Optimum / Minimum)

Filing of the fields

Field stored DEPL at time 2.452000000000e+00 for the sequence number 2452

Field stored SIEF_ELGA at time 2.452000000000e+00 for the sequence number 2452

Field stored VARI_ELGA at time 2.452000000000e+00 for the sequence number 2452

Field stored COMPORTEMENT at time 2.452000000000e+00 for the sequence number 2452

Field stored VITE at time 2.452000000000e+00 for the sequence number 2452

Field stored ACCE at time 2.452000000000e+00 for the sequence number 2452

Adaptation of the time step.

For the method of adaptation of the type FIXE, the computed time step is worth 2.0000000000e-03.

On all the criteria of adaptation, the smallest time step is worth 2.0000000000000 - 03.

After best fit on the compulsory points of transition, the smallest time step is worth 9.999999999e-04.

[98%] Instant calculé : 2.45200e+00, dernier instant archivé : 2.45200e+00, au numéro d'ordre :

2452

.----

Time of computation: 2.45300000000e+00				
	NEWTON RECH. LINE. (residu residu Dption newton		
•	iteration efficient asse	RELATIF ABSOLU EMBLAGE TEMPS CALCUL		
 RHO	RI 	esi_glob_rela resi_glob_maxi Valeur		
•	0 8.i TANGENTE	32263E-16 9.43690E-16 		
Criterion (S) of con-	vergence reached (S)			
The residue of the node and degree		A is worth 8.822631462704e-16 with the		
freedom N449	DX			
The residue of the node and degree		KI is worth 9.436895709314e-16 with the		
freedom N449	DX			
Temps CPU consor	nmé dans ce pas de te	mps : 0.099 s		
* Nombre d'itération	ons de Newton	: 1		
* Temps total intég	ration comportement	: 0.058 s (3 intégrations)		
* Temps total factorisation matrice : 0.002 s (1 factorisations)		: 0.002 s (1 factorisations)		
* Temps construction	on second membre	: 0.015 s		
* Temps total résolution K.U=F		: 0.003 s (1 résolutions)		
* Temps assemblage matrice		: 0.007 s		

* Nombre d'itérations de recherche linéaire : 0 * Temps autres opérations : 0.013 s Mémoire (Mo): 1430.93 / 1423.96 / 876.29 / 211.64 (VmPeak / VmSize / Optimum / Minimum) Filing of the fields Field stored DEPL at time 2.453000000000e+00 for the sequence number 2453 Field stored SIEF_ELGA at time 2.45300000000e+00 for the sequence number 2453 Field stored VARI_ELGA at time 2.45300000000e+00 for the sequence number 2453 Field stored COMPORTEMENT at time 2.45300000000e+00 for the sequence number 2453 Field stored VITE at time 2.453000000000e+00 for the sequence number 2453 Field stored ACCE at time 2.453000000000e+00 for the sequence number 2453 Adaptation of the time step. For the method of adaptation of the type FIXE, the computed time step is worth 2.000000000000e-03. On all the criteria of adaptation, the smallest time step is worth 2.00000000000e-03. After best fit on the compulsory points of transition, the smallest time step is worth 9.9999999999e-04. [98%] Instant calculé: 2.45300e+00, dernier instant archivé: 2.45300e+00, au numéro d'ordre: 2453

Time of computation: 2.45400000000e+00

INCREMENT NEWTON RESIDU RESIDU RECH. LINE. OPTION NEWTON
INSTANT ITERATION RELATIF ABSOLU NB. ITER COEFFICIENT ASSEMBLAGE TEMPS CALCUL
RESI_GLOB_RELA RESI_GLOB_MAXI RHO VALEUR
2.45400E+00 0 9.34161E-16 9.99201E-16
Criterion (S) of convergence reached (S)
The residue of the type RESI_GLOB_RELA is worth 9.341609784039e-16 with the node and degree of
freedom N383 DX
The residue of the type RESI_GLOB_MAXI is worth 9.992007221626e-16 with the node and degree of
freedom N383 DX
Temps CPU consommé dans ce pas de temps : 0.100 s
* Nombre d'itérations de Newton : 1
* Temps total intégration comportement : 0.059 s (3 intégrations)
* Temps total factorisation matrice : 0.002 s (1 factorisations)
* Temps construction second membre : 0.015 s
* Temps total résolution K.U=F : 0.003 s (1 résolutions)
* Temps assemblage matrice : 0.007 s
* Nombre d'itérations de recherche linéaire : 0
* Temps autres opérations : 0.014 s
Mémoire (Mo): 1431.48 / 1424.54 / 876.83 / 211.64 (VmPeak / VmSize /

Optimum / Minimum) Filing of the fields Field stored DEPL at time 2.45400000000e+00 for the sequence number 2454 Field stored SIEF_ELGA at time 2.45400000000e+00 for the sequence number 2454 Field stored VARI_ELGA at time 2.45400000000e+00 for the sequence number 2454 Field stored COMPORTEMENT at time 2.45400000000e+00 for the sequence number 2454 Field stored VITE at time 2.454000000000e+00 for the sequence number 2454 Field stored ACCE at time 2.454000000000e+00 for the sequence number 2454 Adaptation of the time step. For the method of adaptation of the type FIXE, the computed time step is worth 2.000000000000e-03. On all the criteria of adaptation, the smallest time step is worth 2.000000000000e-03. After best fit on the compulsory points of transition, the smallest time step is worth 9.9999999999e-04. [98%] Instant calculé: 2.45400e+00, dernier instant archivé: 2.45400e+00, au numéro d'ordre: 2454

Time of computation: 2.455000000000e+00

RECH. LINE. | RECH. LINE. | OPTION

NEWTON |

iteration |

RESIDU

RELATIF |

| NEWTON

RESIDU

ABSOLU

INCREMENT |

INSTANT

NB. ITER COEFFICIENT ASSEMBLAGE TEMPS CALCUL	
RESI_GLOB_RELA RESI_GLOB_MAXI RHO VALEUR	
2.45500E+00 0 9.86059E-16 1.05471E-15 	
Criterion (S) of convergence reached (S)	
The residue of the type RESI_GLOB_RELA is worth 9.860588105375e-16 with the node and degree of	
freedom N379 DX	
The residue of the type RESI_GLOB_MAXI is worth 1.054711873394e-15 with the node and degree of	
freedom N379 DX	
Temps CPU consommé dans ce pas de temps : 0.101 s	
* Nombre d'itérations de Newton : 1	
* Temps total intégration comportement : 0.059 s (3 intégrations)	
* Temps total factorisation matrice : 0.002 s (1 factorisations)	
* Temps construction second membre : 0.016 s	
* Temps total résolution K.U=F : 0.003 s (1 résolutions)	
* Temps assemblage matrice : 0.007 s	
* Nombre d'itérations de recherche linéaire : 0	
* Temps autres opérations : 0.013 s	
Mémoire (Mo): 1432.02 / 1425.01 / 877.36 / 211.64 (VmPeak / VmSize / Optimum / Minimum)	
Filing of the fields	
Field stored DEPL at time 2.455000000000e+00 for the sequence number 2455	

Field stored 2455	SIEF_ELGA at time 2.455000000000e+00 for the sequence number
Field stored 2455	VARI_ELGA at time 2.455000000000e+00 for the sequence number
Field stored number 245	COMPORTEMENT at time 2.45500000000e+00 for the sequence
Field stored	VITE at time 2.455000000000e+00 for the sequence number 2455
Field stored	ACCE at time 2.455000000000e+00 for the sequence number 2455
Adaptation o	f the time step.
For the meth	od of adaptation of the type FIXE, the computed time step is worth
2.0000000000	000e-03.
On all the crit	teria of adaptation, the smallest time step is worth 2.00000000000e-
After best fit	on the compulsory points of transition, the smallest time step is worth
9.999999999	999e-04.
[98%] Instant d'ordre :	calculé : 2.45500e+00, dernier instant archivé : 2.45500e+00, au numéro
2455	
Time of comp	outation: 2.45600000000e+00
	NT NEWTON RESIDU RESIDU
•	T ITERATION RELATIF ABSOLU COEFFICIENT ASSEMBLAGE TEMPS CALCUL
 RHO	RESI_GLOB_RELA RESI_GLOB_MAXI VALEUR

.-----

| 2.45600E+00 | 0 | 7.78467E-16 | 8.32667E-16

Criterion (S) of convergence reached (S)

The residue of the type RESI_GLOB_RELA is worth 7.784674820033e-16 with the node and degree of

freedom N379 DX

The residue of the type RESI_GLOB_MAXI is worth 8.326672684689e-16 with the node and degree of

freedom N379 DX

Temps CPU consommé dans ce pas de temps : 0.100 s

* Nombre d'itérations de Newton : 1

* Temps total intégration comportement : 0.059 s (3 intégrations)

* Temps total factorisation matrice : 0.002 s (1 factorisations)

* Temps construction second membre : 0.015 s

* Temps total résolution K.U=F : 0.003 s (1 résolutions)

* Temps assemblage matrice : 0.007 s

* Nombre d'itérations de recherche linéaire : 0

* Temps autres opérations : 0.013 s

Mémoire (Mo): 1432.57 / 1425.57 / 877.90 / 211.64 (VmPeak / VmSize /

Optimum / Minimum)

Filing of the fields

Field stored DEPL at time 2.456000000000e+00 for the sequence number 2456

Field stored SIEF_ELGA at time 2.45600000000e+00 for the sequence number

2456

Field stored VARI_ELGA at time 2.45600000000e+00 for the sequence number

2456

Field stored COMPORTEMENT at time 2.456000000000e+00 for the sequence number 2456 Field stored VITE at time 2.456000000000e+00 for the sequence number 2456 Field stored ACCE at time 2.456000000000e+00 for the sequence number 2456 Adaptation of the time step. For the method of adaptation of the type FIXE, the computed time step is worth 2.000000000000e-03. 03. After best fit on the compulsory points of transition, the smallest time step is worth 9.9999999999e-04. [98%] Instant calculé: 2.45600e+00, dernier instant archivé: 2.45600e+00, au numéro d'ordre: 2456 Time of computation: 2.457000000000e+00 INCREMENT | NEWTON RESIDU RESIDU RECH. LINE. | RECH. LINE. | OPTION | NEWTON | ITERATION | INSTANT RELATIF ABSOLU NB. ITER | COEFFICIENT | ASSEMBLAGE | TEMPS CALCUL | | RESI_GLOB_RELA | RESI_GLOB_MAXI | | VALEUR RHO | 2.45700E+00 0 | 9.86059E-16 | 1.05471E-15 | ITANGENTE

Criterion (S) of convergence reached (S)

The residue of the type RESI_GLOB_RELA is worth 9.860588105375e-16 with the node and degree of

freedom N379 DX

The residue of the type RESI_GLOB_MAXI is worth 1.054711873394e-15 with the node and degree of

freedom N379 DX

Temps CPU consommé dans ce pas de temps : 0.099 s

* Nombre d'itérations de Newton : 1

* Temps total intégration comportement : 0.059 s (3 intégrations)

* Temps total factorisation matrice : 0.002 s (1 factorisations)

* Temps construction second membre : 0.015 s

* Temps total résolution K.U=F : 0.003 s (1 résolutions)

* Temps assemblage matrice : 0.007 s

* Nombre d'itérations de recherche linéaire : 0

* Temps autres opérations : 0.013 s

Mémoire (Mo): 1433.12 / 1426.14 / 878.44 / 211.64 (VmPeak / VmSize / Optimum / Minimum)

Filing of the fields

Field stored DEPL at time 2.457000000000e+00 for the sequence number 2457

Field stored SIEF_ELGA at time 2.457000000000e+00 for the sequence number 2457

Field stored VARI_ELGA at time 2.457000000000e+00 for the sequence number 2457

Field stored COMPORTEMENT at time 2.457000000000e+00 for the sequence number 2457

Field stored VITE at time 2.457000000000e+00 for the sequence number 2457

Field stored ACCE at time 2.457000000000e+00 for the sequence number 2457 Adaptation of the time step. For the method of adaptation of the type FIXE, the computed time step is worth 2.000000000000e-03. On all the criteria of adaptation, the smallest time step is worth 2.00000000000e-03. After best fit on the compulsory points of transition, the smallest time step is worth 9.9999999999e-04. [98%] Instant calculé: 2.45700e+00, dernier instant archivé: 2.45700e+00, au numéro d'ordre: 2457 Time of computation: 2.458000000000e+00 INCREMENT | NEWTON | RESIDU RECH. LINE. | RECH. LINE. | OPTION NEWTON INSTANT ITERATION | RELATIF ABSOLU | COEFFICIENT | ASSEMBLAGE | TEMPS CALCUL | | RESI_GLOB_RELA | RESI_GLOB_MAXI | RHO VALEUR | 2.45800E+00 0 | 8.30365E-16 | 8.88178E-16 **ITANGENTE**

Criterion (S) of convergence reached (S)

The residue of the type RESI_GLOB_RELA is worth 8.303653141368e-16 with the

node and degree of

freedom N379 DX

The residue of the type RESI_GLOB_MAXI is worth 8.881784197001e-16 with the node and degree of

freedom N379 DX

Temps CPU consommé dans ce pas de temps : 0.128 s

* Nombre d'itérations de Newton : 1

* Temps total intégration comportement : 0.064 s (3 intégrations)

* Temps total factorisation matrice : 0.003 s (1 factorisations)

* Temps construction second membre : 0.016 s

* Temps total résolution K.U=F : 0.003 s (1 résolutions)

* Temps assemblage matrice : 0.010 s

* Nombre d'itérations de recherche linéaire : 0

* Temps autres opérations : 0.032 s

Mémoire (Mo): 1433.67 / 1426.72 / 878.98 / 211.64 (VmPeak / VmSize /

Optimum / Minimum)

Filing of the fields

Field stored DEPL at time 2.458000000000e+00 for the sequence number 2458

Field stored SIEF_ELGA at time 2.458000000000e+00 for the sequence number 2458

Field stored VARI_ELGA at time 2.45800000000e+00 for the sequence number 2458

Field stored COMPORTEMENT at time 2.458000000000e+00 for the sequence number 2458

Field stored VITE at time 2.45800000000e+00 for the sequence number 2458

Field stored ACCE at time 2.45800000000e+00 for the sequence number 2458

Adaptation of the time step.

For the method of adaptation of the type FIXE, the computed time step is worth

2.000000000000e-03.	

After best fit on the compulsory points of transition, the smallest time step is worth 9.999999999e-04.

[98%] Instant calculé : 2.45800e+00, dernier instant archivé : 2.45800e+00, au numéro d'ordre :
2458
Time of computation: 2.459000000000e+00
INCREMENT NEWTON RESIDU RESIDU RECH. LINE. RECH. LINE. OPTION NEWTON
INSTANT ITERATION RELATIF ABSOLU NB. ITER COEFFICIENT ASSEMBLAGE TEMPS CALCUL
RESI_GLOB_RELA RESI_GLOB_MAXI RHO VALEUR
2.45900E+00 0 1.08985E-15 1.16573E-15

Criterion (S) of convergence reached (S)

The residue of the type RESI_GLOB_RELA is worth 1.089854474805e-15 with the node and degree of

freedom N379 DX

The residue of the type RESI_GLOB_MAXI is worth 1.165734175856e-15 with the

node and degree of

freedom N379 DX

Temps CPU consommé dans ce pas de temps : 0.100 s

* Nombre d'itérations de Newton : 1

* Temps total intégration comportement : 0.059 s (3 intégrations)

* Temps total factorisation matrice : 0.002 s (1 factorisations)

* Temps construction second membre : 0.015 s

* Temps total résolution K.U=F : 0.003 s (1 résolutions)

* Temps assemblage matrice : 0.007 s

* Nombre d'itérations de recherche linéaire : 0

* Temps autres opérations : 0.013 s

Mémoire (Mo): 1434.20 / 1427.20 / 879.51 / 211.64 (VmPeak / VmSize /

Optimum / Minimum)

Filing of the fields

Field stored DEPL at time 2.459000000000e+00 for the sequence number 2459

Field stored SIEF_ELGA at time 2.45900000000e+00 for the sequence number

2459

Field stored VARI_ELGA at time 2.45900000000e+00 for the sequence number

2459

Field stored COMPORTEMENT at time 2.45900000000e+00 for the sequence

number 2459

Field stored VITE at time 2.45900000000e+00 for the sequence number 2459

Field stored ACCE at time 2.45900000000e+00 for the sequence number 2459

Adaptation of the time step.

For the method of adaptation of the type FIXE, the computed time step is worth

2.000000000000e-03.

03.

9.999999999e-04.		
[98%] Instant calculé : 2.45900e+00, dernier instant archivé : 2.45900e+00, au numéro d'ordre :		
2459		
Time of computation: 2.46000000000e+00		
INCREMENT NEWTON RESIDU RESIDU RECH. LINE. RECH. LINE. OPTION NEWTON		
INSTANT ITERATION RELATIF ABSOLU NB. ITER COEFFICIENT ASSEMBLAGE TEMPS CALCUL		
RESI_GLOB_RELA RESI_GLOB_MAXI RHO VALEUR		
2.46000E+00 0 7.78467E-16 8.32667E-16		
Criterion (S) of convergence reached (S)		
The residue of the type RESI_GLOB_RELA is worth 7.784674820033e-16 with the node and degree of		
freedom N449 DX		
The residue of the type RESI_GLOB_MAXI is worth 8.326672684689e-16 with the node and degree of		
freedom N449 DX		
Temps CPU consommé dans ce pas de temps : 0.099 s		

After best fit on the compulsory points of transition, the smallest time step is worth

* Nombre d'itérations de Newton

* Temps total intégration comportement : 0.058 s (3 intégrations)

: 1

* Temps total factorisation matrice : 0.002 s (1 factorisations)

* Temps construction second membre : 0.015 s

* Temps total résolution K.U=F : 0.003 s (1 résolutions)

* Temps assemblage matrice : 0.007 s

* Nombre d'itérations de recherche linéaire : 0

* Temps autres opérations : 0.013 s

Mémoire (Mo): 1434.75 / 1427.78 / 880.05 / 211.64 (VmPeak / VmSize /

Optimum / Minimum)

Filing of the fields

Field stored DEPL at time 2.46000000000e+00 for the sequence number 2460

Field stored SIEF_ELGA at time 2.460000000000e+00 for the sequence number 2460

Field stored VARI_ELGA at time 2.46000000000e+00 for the sequence number 2460

Field stored COMPORTEMENT at time 2.46000000000e+00 for the sequence number 2460

Field stored VITE at time 2.46000000000e+00 for the sequence number 2460

Field stored ACCE at time 2.46000000000e+00 for the sequence number 2460

Adaptation of the time step.

For the method of adaptation of the type FIXE, the computed time step is worth 2.0000000000e-03.

On all the criteria of adaptation, the smallest time step is worth 2.0000000000000 - 03.

After best fit on the compulsory points of transition, the smallest time step is worth 9.999999999e-04.

[98%] Instant calculé: 2.46000e+00, dernier instant archivé: 2.46000e+00, au numéro

d'ordre :		
2460		
Time of computa	tion: 2.46100000000e+00	
•	NEWTON RES	·
•	ITERATION RELAT OEFFICIENT ASSEMBLAGE	·
 RHO	RESI_GLOB_F	RELA RESI_GLOB_MAXI
 2.46100E+00 	0 9.34161E-16 TANGENTE	9.99201E-16
Criterion (S) of co	nvergence reached (S)	
	e type RESI_GLOB_RELA is worth	9.341609784039e-16 with the
freedom N379	DX	
The residue of the	e type RESI_GLOB_MAXI is worth	9.992007221626e-16 with the
freedom N379	DX	
Temps CPU conso	ommé dans ce pas de temps : C	0.099 s
* Nombre d'itérat	ions de Newton	: 1
* Temps total inté	égration comportement	: 0.058 s (3 intégrations)
* Temps total factorisation matrice		: 0.002 s (1 factorisations)

* Temps construction second membre : 0.015 s

* Temps total résolution K.U=F : 0.003 s (1 résolutions)

* Temps assemblage matrice : 0.007 s

* Nombre d'itérations de recherche linéaire : 0

* Temps autres opérations : 0.013 s

Mémoire (Mo): 1435.30 / 1428.36 / 880.59 / 211.64 (VmPeak / VmSize / Optimum / Minimum)

Filing of the fields

Field stored DEPL at time 2.461000000000e+00 for the sequence number 2461

Field stored SIEF_ELGA at time 2.461000000000e+00 for the sequence number 2461

Field stored VARI_ELGA at time 2.461000000000e+00 for the sequence number 2461

Field stored COMPORTEMENT at time 2.461000000000e+00 for the sequence number 2461

Field stored VITE at time 2.461000000000e+00 for the sequence number 2461

Field stored ACCE at time 2.461000000000e+00 for the sequence number 2461

Adaptation of the time step.

For the method of adaptation of the type FIXE, the computed time step is worth 2.0000000000e-03.

On all the criteria of adaptation, the smallest time step is worth 2.0000000000000 - 03.

After best fit on the compulsory points of transition, the smallest time step is worth 9.999999999e-04.

[98%] Instant calculé : 2.46100e+00, dernier instant archivé : 2.46100e+00, au numéro d'ordre :

2461

.----

Time of computation: 2.46200000000e+00	
INCREMENT NEWTON RESIDU RESIDU RECH. LINE. RECH. LINE. OPTION NEWTON INSTANT ITERATION RELATIF ABSOLU NB. ITER COEFFICIENT ASSEMBLAGE TEMPS CALCUL RESI_GLOB_RELA RESI_GLOB_MAXI RHO VALEUR	
2.46200E+00 0 1.03796E-15 1.11022E-15 TANGENTE	
Criterion (S) of convergence reached (S) The residue of the type RESI_GLOB_RELA is worth 1.037956642671e-15 with the mode and degree of	
Treedom N379 DX The residue of the type RESI_GLOB_MAXI is worth 1.110223024625e-15 with the mode and degree of	
reedom N379 DX Femps CPU consommé dans ce pas de temps : 0.100 s	
Nombre d'itérations de Newton : 1	
Temps total intégration comportement : 0.059 s (3 intégrations)	
Temps total factorisation matrice : 0.002 s (1 factorisations)	
Temps construction second membre : 0.015 s	
Temps total résolution K.U=F : 0.003 s (1 résolutions)	
Temps assemblage matrice : 0.007 s	

* Nombre d'itérations de recherche linéaire : 0 * Temps autres opérations : 0.013 s Mémoire (Mo): 1435.85 / 1428.84 / 881.12 / 211.64 (VmPeak / VmSize / Optimum / Minimum) Filing of the fields Field stored DEPL at time 2.462000000000e+00 for the sequence number 2462 Field stored SIEF_ELGA at time 2.46200000000e+00 for the sequence number 2462 Field stored VARI_ELGA at time 2.46200000000e+00 for the sequence number 2462 Field stored COMPORTEMENT at time 2.46200000000e+00 for the sequence number 2462 Field stored VITE at time 2.46200000000e+00 for the sequence number 2462 Field stored ACCE at time 2.462000000000e+00 for the sequence number 2462 Adaptation of the time step. For the method of adaptation of the type FIXE, the computed time step is worth 2.000000000000e-03. On all the criteria of adaptation, the smallest time step is worth 2.00000000000e-03. After best fit on the compulsory points of transition, the smallest time step is worth 9.9999999999e-04. [98%] Instant calculé: 2.46200e+00, dernier instant archivé: 2.46200e+00, au numéro d'ordre: 2462

Time of computation: 2.46300000000e+00

INCREMENT NEWTON RESIDU RESIDU RECH. LINE. OPTION NEWTON
INSTANT ITERATION RELATIF ABSOLU NB. ITER COEFFICIENT ASSEMBLAGE TEMPS CALCUL
RESI_GLOB_RELA RESI_GLOB_MAXI RHO VALEUR
2.46300E+00 0 7.78467E-16 8.32667E-16
Criterion (S) of convergence reached (S)
The residue of the type RESI_GLOB_RELA is worth 7.784674820033e-16 with the node and degree of
freedom N550 DX
The residue of the type RESI_GLOB_MAXI is worth 8.326672684689e-16 with the node and degree of
freedom N550 DX
Temps CPU consommé dans ce pas de temps : 0.099 s
* Nombre d'itérations de Newton : 1
* Temps total intégration comportement : 0.058 s (3 intégrations)
* Temps total factorisation matrice : 0.002 s (1 factorisations)
* Temps construction second membre : 0.015 s
* Temps total résolution K.U=F : 0.003 s (1 résolutions)
* Temps assemblage matrice : 0.007 s
* Nombre d'itérations de recherche linéaire : 0
* Temps autres opérations : 0.013 s
Mémoire (Mo): 1436.40 / 1429.39 / 881.66 / 211.64 (VmPeak / VmSize /

Optimum / Minimum) Filing of the fields Field stored DEPL at time 2.46300000000e+00 for the sequence number 2463 Field stored SIEF_ELGA at time 2.46300000000e+00 for the sequence number 2463 Field stored VARI_ELGA at time 2.46300000000e+00 for the sequence number 2463 Field stored COMPORTEMENT at time 2.46300000000e+00 for the sequence number 2463 Field stored VITE at time 2.463000000000e+00 for the sequence number 2463 Field stored ACCE at time 2.46300000000e+00 for the sequence number 2463 Adaptation of the time step. For the method of adaptation of the type FIXE, the computed time step is worth 2.000000000000e-03. On all the criteria of adaptation, the smallest time step is worth 2.000000000000e-03. After best fit on the compulsory points of transition, the smallest time step is worth 9.9999999999e-04. [98%] Instant calculé: 2.46300e+00, dernier instant archivé: 2.46300e+00, au numéro d'ordre ·

d Ordre .
2463
Time of computation: 2.46400000000e+00
INCREMENT NEWTON RESIDU RESIDU
rech. line. rech. line. option newton
INSTANT ITERATION RELATIF ABSOLU

NB. ITER COEFFICIENT ASSEMBLAGE TEMPS CALCUL
RESI_GLOB_RELA RESI_GLOB_MAXI
NIO WALLOK
2.46400E+00
Criterion (S) of convergence reached (S)
The residue of the type RESI_GLOB_RELA is worth 6.746718177362e-16 with the node and degree of
freedom N410 DX
The residue of the type RESI_GLOB_MAXI is worth 7.216449660064e-16 with the node and degree of
freedom N410 DX
Temps CPU consommé dans ce pas de temps : 0.099 s
* Nombre d'itérations de Newton : 1
* Temps total intégration comportement : 0.059 s (3 intégrations)
* Temps total factorisation matrice : 0.002 s (1 factorisations)
* Temps construction second membre : 0.015 s
* Temps total résolution K.U=F : 0.003 s (1 résolutions)
* Temps assemblage matrice : 0.007 s
* Nombre d'itérations de recherche linéaire : 0
* Temps autres opérations : 0.013 s
Mémoire (Mo): 1436.95 / 1429.97 / 882.20 / 211.64 (VmPeak / VmSize / Optimum / Minimum)
Filing of the fields
Field stored DEPL at time 2.464000000000e+00 for the sequence number 2464

Field stored 2464	SIEF_ELGA at time 2.464000000000e+00 for the sequence number
Field stored 2464	VARI_ELGA at time 2.464000000000e+00 for the sequence number
Field stored number 246	COMPORTEMENT at time 2.46400000000e+00 for the sequence
Field stored	VITE at time 2.464000000000e+00 for the sequence number 2464
Field stored	ACCE at time 2.464000000000e+00 for the sequence number 2464
Adaptation o	f the time step.
For the meth	od of adaptation of the type FIXE, the computed time step is worth
2.0000000000	000e-03.
On all the crit	teria of adaptation, the smallest time step is worth 2.000000000000e-
After best fit	on the compulsory points of transition, the smallest time step is worth
9.9999999999	999e-04.
[98%] Instant d'ordre :	calculé : 2.46400e+00, dernier instant archivé : 2.46400e+00, au numéro
2464	
Time of comp	outation: 2.46500000000e+00
	NT NEWTON RESIDU RESIDU
•	T ITERATION RELATIF ABSOLU COEFFICIENT ASSEMBLAGE TEMPS CALCUL
 RHO	RESI_GLOB_RELA RESI_GLOB_MAXI VALEUR

| 2.46500E+00 | 0 | 7.78467E-16 | 8.32667E-16

| ITANGENTE |

Criterion (S) of convergence reached (S)

The residue of the type RESI_GLOB_RELA is worth 7.784674820033e-16 with the node and degree of

freedom N449 DX

The residue of the type RESI_GLOB_MAXI is worth 8.326672684689e-16 with the node and degree of

freedom N449 DX

Temps CPU consommé dans ce pas de temps : 0.101 s

* Nombre d'itérations de Newton : 1

* Temps total intégration comportement : 0.060 s (3 intégrations)

* Temps total factorisation matrice : 0.002 s (1 factorisations)

* Temps construction second membre : 0.015 s

* Temps total résolution K.U=F : 0.003 s (1 résolutions)

* Temps assemblage matrice : 0.007 s

* Nombre d'itérations de recherche linéaire : 0

* Temps autres opérations : 0.013 s

Mémoire (Mo): 1437.50 / 1430.55 / 882.74 / 211.64 (VmPeak / VmSize /

Optimum / Minimum)

Filing of the fields

Field stored DEPL at time 2.465000000000e+00 for the sequence number 2465

Field stored SIEF_ELGA at time 2.465000000000e+00 for the sequence number

2465

Field stored VARI_ELGA at time 2.46500000000e+00 for the sequence number

2465

Field stored COMPORTEMENT at time 2.465000000000e+00 for the sequence number 2465 Field stored VITE at time 2.465000000000e+00 for the sequence number 2465 Field stored ACCE at time 2.465000000000e+00 for the sequence number 2465 Adaptation of the time step. For the method of adaptation of the type FIXE, the computed time step is worth 2.000000000000e-03. 03. After best fit on the compulsory points of transition, the smallest time step is worth 9.9999999999e-04. [98%] Instant calculé: 2.46500e+00, dernier instant archivé: 2.46500e+00, au numéro d'ordre: 2465 Time of computation: 2.466000000000e+00 INCREMENT | NEWTON RESIDU RESIDU RECH. LINE. | RECH. LINE. | OPTION | NEWTON | ITERATION | INSTANT RELATIF ABSOLU NB. ITER | COEFFICIENT | ASSEMBLAGE | TEMPS CALCUL | | RESI_GLOB_RELA | RESI_GLOB_MAXI | | VALEUR RHO | 2.46600E+00 0 | 1.14175E-15 | 1.22125E-15 | **|TANGENTE**

Criterion (S) of convergence reached (S)

The residue of the type RESI_GLOB_RELA is worth 1.141752306938e-15 with the node and degree of

freedom N383 DX

The residue of the type RESI_GLOB_MAXI is worth 1.221245327088e-15 with the node and degree of

freedom N383 DX

Temps CPU consommé dans ce pas de temps : 0.100 s

* Nombre d'itérations de Newton : 1

* Temps total intégration comportement : 0.059 s (3 intégrations)

* Temps total factorisation matrice : 0.002 s (1 factorisations)

* Temps construction second membre : 0.015 s

* Temps total résolution K.U=F : 0.003 s (1 résolutions)

* Temps assemblage matrice : 0.007 s

* Nombre d'itérations de recherche linéaire : 0

* Temps autres opérations : 0.013 s

Mémoire (Mo): 1438.04 / 1431.03 / 883.27 / 211.64 (VmPeak / VmSize / Optimum / Minimum)

Filing of the fields

Field stored DEPL at time 2.466000000000e+00 for the sequence number 2466

Field stored SIEF_ELGA at time 2.466000000000e+00 for the sequence number 2466

Field stored VARI_ELGA at time 2.466000000000e+00 for the sequence number 2466

Field stored COMPORTEMENT at time 2.466000000000e+00 for the sequence number 2466

Field stored VITE at time 2.466000000000e+00 for the sequence number 2466

Field stored ACCE at time 2.466000000000e+00 for the sequence number 2466 Adaptation of the time step. For the method of adaptation of the type FIXE, the computed time step is worth 2.000000000000e-03. On all the criteria of adaptation, the smallest time step is worth 2.00000000000e-03. After best fit on the compulsory points of transition, the smallest time step is worth 9.9999999999e-04. [98%] Instant calculé: 2.46600e+00, dernier instant archivé: 2.46600e+00, au numéro d'ordre: 2466 Time of computation: 2.467000000000e+00 INCREMENT | NEWTON | RESIDU RECH. LINE. | RECH. LINE. | OPTION NEWTON INSTANT ITERATION | RELATIF ABSOLU | COEFFICIENT | ASSEMBLAGE | TEMPS CALCUL | | RESI_GLOB_RELA | RESI_GLOB_MAXI | RHO VALEUR | 2.46700E+00 | 0 | 7.78467E-16 | 8.32667E-16 **ITANGENTE**

Criterion (S) of convergence reached (S)

The residue of the type RESI_GLOB_RELA is worth 7.784674820033e-16 with the

node and degree of

freedom N377 DX

The residue of the type RESI_GLOB_MAXI is worth 8.326672684689e-16 with the node and degree of

freedom N377 DX

Temps CPU consommé dans ce pas de temps : 0.099 s

* Nombre d'itérations de Newton : 1

* Temps total intégration comportement : 0.059 s (3 intégrations)

* Temps total factorisation matrice : 0.002 s (1 factorisations)

* Temps construction second membre : 0.015 s

* Temps total résolution K.U=F : 0.003 s (1 résolutions)

* Temps assemblage matrice : 0.007 s

* Nombre d'itérations de recherche linéaire : 0

* Temps autres opérations : 0.013 s

Mémoire (Mo): 1438.58 / 1431.61 / 883.81 / 211.64 (VmPeak / VmSize /

Optimum / Minimum)

Filing of the fields

Field stored DEPL at time 2.467000000000e+00 for the sequence number 2467

Field stored SIEF_ELGA at time 2.467000000000e+00 for the sequence number 2467

Field stored VARI_ELGA at time 2.467000000000e+00 for the sequence number 2467

Field stored COMPORTEMENT at time 2.467000000000e+00 for the sequence number 2467

Field stored VITE at time 2.46700000000e+00 for the sequence number 2467

Field stored ACCE at time 2.467000000000e+00 for the sequence number 2467

Adaptation of the time step.

For the method of adaptation of the type FIXE, the computed time step is worth

2.000000000000e-03.	

After best fit on the compulsory points of transition, the smallest time step is worth 9.999999999e-04.

[98%] Instant calculé : 2.46700e+00, dernier instant archivé : 2.46700e+00, au numéro d'ordre :			
2467			
Time of computation: 2.468000000000e+00			
INCREMENT NEWTON RESIDU RESIDU RECH. LINE. RECH. LINE. OPTION NEWTON			
INSTANT ITERATION RELATIF ABSOLU NB. ITER COEFFICIENT ASSEMBLAGE TEMPS CALCUL			
2.46800E+00 0 1.03796E-15 1.11022E-15 			
	•		

Criterion (S) of convergence reached (S)

The residue of the type RESI_GLOB_RELA is worth 1.037956642671e-15 with the node and degree of

freedom N383 DX

The residue of the type RESI_GLOB_MAXI is worth 1.110223024625e-15 with the

node and degree of

freedom N383 DX

Temps CPU consommé dans ce pas de temps : 0.100 s

* Nombre d'itérations de Newton : 1

* Temps total intégration comportement : 0.059 s (3 intégrations)

* Temps total factorisation matrice : 0.002 s (1 factorisations)

* Temps construction second membre : 0.015 s

* Temps total résolution K.U=F : 0.003 s (1 résolutions)

* Temps assemblage matrice : 0.007 s

* Nombre d'itérations de recherche linéaire : 0

* Temps autres opérations : 0.014 s

Mémoire (Mo): 1439.13 / 1432.18 / 884.35 / 211.64 (VmPeak / VmSize /

Optimum / Minimum)

Filing of the fields

Field stored DEPL at time 2.468000000000e+00 for the sequence number 2468

Field stored SIEF_ELGA at time 2.46800000000e+00 for the sequence number

2468

Field stored VARI_ELGA at time 2.46800000000e+00 for the sequence number

2468

Field stored COMPORTEMENT at time 2.46800000000e+00 for the sequence

number 2468

Field stored VITE at time 2.46800000000e+00 for the sequence number 2468

Field stored ACCE at time 2.468000000000e+00 for the sequence number 2468

Adaptation of the time step.

For the method of adaptation of the type FIXE, the computed time step is worth

2.000000000000e-03.

03.

9.99999999999e-	04.
[98%] Instant calcu d'ordre :	llé : 2.46800e+00, dernier instant archivé : 2.46800e+00, au numéro
2468	
Time of computati	on: 2.46900000000e+00
	NEWTON RESIDU RESIDU RECH. LINE. OPTION NEWTON
	ITERATION RELATIF ABSOLU DEFFICIENT ASSEMBLAGE TEMPS CALCUL
 RHO	RESI_GLOB_RELA RESI_GLOB_MAXI VALEUR
2.46900E+00 	0 1.03796E-15 1.11022E-15 TANGENTE
Criterion (S) of con	vergence reached (S)
The residue of the node and degree	type RESI_GLOB_RELA is worth 1.037956642671e-15 with the
freedom N379	DX
The residue of the node and degree	type RESI_GLOB_MAXI is worth 1.110223024625e-15 with the
freedom N379	DX
Temps CPU conso	mmé dans ce pas de temps : 0.099 s

After best fit on the compulsory points of transition, the smallest time step is worth

* Nombre d'itérations de Newton

* Temps total intégration comportement : 0.058 s (3 intégrations)

: 1

* Temps total factorisation matrice : 0.002 s (1 factorisations)

* Temps construction second membre : 0.015 s

* Temps total résolution K.U=F : 0.003 s (1 résolutions)

* Temps assemblage matrice : 0.007 s

* Nombre d'itérations de recherche linéaire : 0

* Temps autres opérations : 0.013 s

Mémoire (Mo): 1439.66 / 1432.66 / 884.88 / 211.64 (VmPeak / VmSize /

Optimum / Minimum)

Filing of the fields

Field stored DEPL at time 2.469000000000e+00 for the sequence number 2469

Field stored SIEF_ELGA at time 2.469000000000e+00 for the sequence number 2469

Field stored VARI_ELGA at time 2.46900000000e+00 for the sequence number 2469

Field stored COMPORTEMENT at time 2.46900000000e+00 for the sequence number 2469

Field stored VITE at time 2.46900000000e+00 for the sequence number 2469

Field stored ACCE at time 2.46900000000e+00 for the sequence number 2469

Adaptation of the time step.

For the method of adaptation of the type FIXE, the computed time step is worth 2.00000000000e-03.

On all the criteria of adaptation, the smallest time step is worth 2.0000000000000 - 03.

After best fit on the compulsory points of transition, the smallest time step is worth 9.999999999e-04.

[98%] Instant calculé: 2.46900e+00, dernier instant archivé: 2.46900e+00, au numéro

d'ordre :		
2469		
Time of computati	on: 2.470000000000e+00	
•	NEWTON F RECH. LINE. OPTION	·
	ITERATION REL DEFFICIENT ASSEMBLAGE	,
 RHO	RESI_GLOE	B_RELA RESI_GLOB_MAXI UR
2.47000E+00	0 6.74672E-:	 16 7.21645E-16
Criterian (S) of con	vergence reached (S)	
	type RESI_GLOB_RELA is wort	h 6.746718177362e-16 with the
freedom N516	DX	
The residue of the node and degree		h 7.216449660064e-16 with the
freedom N516	DX	
Temps CPU conso	mmé dans ce pas de temps	: 0.099 s
* Nombre d'itération	ons de Newton	: 1
* Temps total intég	gration comportement	: 0.059 s (3 intégrations)
* Temps total factor	prisation matrice	: 0.002 s (1 factorisations)

* Temps construction second membre : 0.015 s

* Temps total résolution K.U=F : 0.003 s (1 résolutions)

* Temps assemblage matrice : 0.007 s

* Nombre d'itérations de recherche linéaire : 0

* Temps autres opérations : 0.013 s

Mémoire (Mo): 1440.21 / 1433.23 / 885.42 / 211.64 (VmPeak / VmSize / Optimum / Minimum)

Filing of the fields

Field stored DEPL at time 2.47000000000e+00 for the sequence number 2470

Field stored SIEF_ELGA at time 2.470000000000e+00 for the sequence number 2470

Field stored VARI_ELGA at time 2.47000000000e+00 for the sequence number 2470

Field stored COMPORTEMENT at time 2.47000000000e+00 for the sequence number 2470

Field stored VITE at time 2.47000000000e+00 for the sequence number 2470

Field stored ACCE at time 2.47000000000e+00 for the sequence number 2470

Adaptation of the time step.

For the method of adaptation of the type FIXE, the computed time step is worth 2.0000000000e-03.

On all the criteria of adaptation, the smallest time step is worth 2.0000000000000 - 03.

After best fit on the compulsory points of transition, the smallest time step is worth 9.999999999e-04.

[98%]	Instant c	:alculé :	2.47000e	+00, der	nier inst	tant arch	nivé : 2.47	000e+00,	au r	numéro
d'ordi	re:									

2470

.-----

Time of computation	on: 2.471000000000e+00	
•	NEWTON RECH. LINE. OPTIC	residu residu Dn newton
•	ITERATION I EFFICIENT ASSEMBL	RELATIF ABSOLU AGE TEMPS CALCUL
 RHO		LOB_RELA RESI_GLOB_MAXI ALEUR
	0 8.30365 TANGENTE	 5E-16 8.88178E-16
Critorian (S) of con	vorgenee reached (C)	
	vergence reached (S)	0.000CE01.410C0 - 10 with the
node and degree		orth 8.303653141368e-16 with the
freedom N449	DX	
The residue of the node and degree		vorth 8.881784197001e-16 with the
freedom N449	DX	
Temps CPU consor	nmé dans ce pas de temps	: 0.100 s
* Nombre d'itération	ons de Newton	:1
* Temps total intég	ration comportement	: 0.059 s (3 intégrations)
* Temps total facto	risation matrice	: 0.002 s (1 factorisations)
* Temps construction	on second membre	: 0.015 s
* Temps total résol	ution K.U=F	: 0.003 s (1 résolutions)
* Temps assemblac	ne matrice	: 0.007 s

* Nombre d'itérations de recherche linéaire : 0 * Temps autres opérations : 0.013 s Mémoire (Mo): 1440.76 / 1433.82 / 885.96 / 211.64 (VmPeak / VmSize / Optimum / Minimum) Filing of the fields Field stored DEPL at time 2.471000000000e+00 for the sequence number 2471 Field stored SIEF_ELGA at time 2.47100000000e+00 for the sequence number 2471 Field stored VARI_ELGA at time 2.471000000000e+00 for the sequence number 2471 Field stored COMPORTEMENT at time 2.47100000000e+00 for the sequence number 2471 Field stored VITE at time 2.471000000000e+00 for the sequence number 2471 Field stored ACCE at time 2.471000000000e+00 for the sequence number 2471 Adaptation of the time step. For the method of adaptation of the type FIXE, the computed time step is worth 2.000000000000e-03. On all the criteria of adaptation, the smallest time step is worth 2.00000000000e-03. After best fit on the compulsory points of transition, the smallest time step is worth 9.9999999999e-04. [98%] Instant calculé: 2.47100e+00, dernier instant archivé: 2.47100e+00, au numéro d'ordre: 2471

Time of computation: 2.47200000000e+00

INCREMENT NEWTON RESIDU RESIDU RECH. LINE. OPTION NEWTON
INSTANT ITERATION RELATIF ABSOLU NB. ITER COEFFICIENT ASSEMBLAGE TEMPS CALCUL
RESI_GLOB_RELA RESI_GLOB_MAXI RHO VALEUR
2.47200E+00 0 7.78467E-16 8.32667E-16
Criterion (S) of convergence reached (S)
The residue of the type RESI_GLOB_RELA is worth 7.784674820033e-16 with the node and degree of
freedom N449 DX
The residue of the type RESI_GLOB_MAXI is worth 8.326672684689e-16 with the node and degree of
freedom N449 DX
Temps CPU consommé dans ce pas de temps : 0.100 s
* Nombre d'itérations de Newton : 1
* Temps total intégration comportement : 0.059 s (3 intégrations)
* Temps total factorisation matrice : 0.002 s (1 factorisations)
* Temps construction second membre : 0.015 s
* Temps total résolution K.U=F : 0.003 s (1 résolutions)
* Temps assemblage matrice : 0.007 s
* Nombre d'itérations de recherche linéaire : 0
* Temps autres opérations : 0.013 s
Mémoire (Mo): 1441.30 / 1434.29 / 886.50 / 211.64 (VmPeak / VmSize /

Optimum / Minimum) Filing of the fields Field stored DEPL at time 2.47200000000e+00 for the sequence number 2472 Field stored SIEF_ELGA at time 2.47200000000e+00 for the sequence number 2472 Field stored VARI_ELGA at time 2.47200000000e+00 for the sequence number 2472 Field stored COMPORTEMENT at time 2.47200000000e+00 for the sequence number 2472 Field stored VITE at time 2.472000000000e+00 for the sequence number 2472 Field stored ACCE at time 2.472000000000e+00 for the sequence number 2472 Adaptation of the time step. For the method of adaptation of the type FIXE, the computed time step is worth 2.000000000000e-03. On all the criteria of adaptation, the smallest time step is worth 2.00000000000e-03. After best fit on the compulsory points of transition, the smallest time step is worth 9.9999999999e-04. [98%] Instant calculé: 2.47200e+00, dernier instant archivé: 2.47200e+00, au numéro d'ordre:

2472	
Fime of computation: 2.4730000000	
INCREMENT NEWTON RECH. LINE. RECH. LINE.	residu residu Option newton
INSTANT ITERATION	RELATIF ABSOLU

NB. ITER COEFFICIENT ASSEMBLAGE TEMPS CALCU	JL
	MAXI
2.47300E+00 0 1.03796E-15 1.11022E-15	
Criterion (S) of convergence reached (S)	
The residue of the type RESI_GLOB_RELA is worth 1.0379566426716 node and degree of	e-15 with the
freedom N379 DX	
The residue of the type RESI_GLOB_MAXI is worth 1.1102230246256 node and degree of	e-15 with the
freedom N379 DX	
Temps CPU consommé dans ce pas de temps : 0.099 s	
* Nombre d'itérations de Newton : 1	
* Temps total intégration comportement : 0.058 s (3 int	tégrations)
* Temps total factorisation matrice : 0.002 s (1 facto	risations)
* Temps construction second membre : 0.015 s	
* Temps total résolution K.U=F : 0.003 s (1 rés	solutions)
* Temps assemblage matrice : 0.007 s	
* Nombre d'itérations de recherche linéaire : 0	
* Temps autres opérations : 0.013 s	
Mémoire (Mo): 1441.84 / 1434.87 / 887.03 / 211.64 (VmPeak Optimum / Minimum)	/ VmSize /
Filing of the fields	
Field stored DEPL at time 2.47300000000e+00 for the sequence no	umber 2473

Field stored 2473	SIEF_ELGA at time 2.473000000000e+00 for the sequence number
Field stored 2473	VARI_ELGA at time 2.473000000000e+00 for the sequence number
Field stored number 247	COMPORTEMENT at time 2.47300000000e+00 for the sequence
Field stored	VITE at time 2.473000000000e+00 for the sequence number 2473
Field stored	ACCE at time 2.473000000000e+00 for the sequence number 2473
Adaptation o	f the time step.
For the meth-	od of adaptation of the type FIXE, the computed time step is worth
2.0000000000	000e-03.
On all the crit	teria of adaptation, the smallest time step is worth 2.000000000000e-
After best fit	on the compulsory points of transition, the smallest time step is worth
9.9999999999	999e-04.
[98%] Instant d'ordre :	calculé : 2.47300e+00, dernier instant archivé : 2.47300e+00, au numéro
2473	
Time of comp	outation: 2.47400000000e+00
	NT NEWTON RESIDU RESIDU
•	T ITERATION RELATIF ABSOLU COEFFICIENT ASSEMBLAGE TEMPS CALCUL
 RHO	RESI_GLOB_RELA RESI_GLOB_MAXI VALEUR

.-----

| 2.47400E+00 | 0 | 9.34161E-16 | 9.99201E-16

.....

Criterion (S) of convergence reached (S)

The residue of the type RESI_GLOB_RELA is worth 9.341609784039e-16 with the node and degree of

freedom N550 DX

The residue of the type RESI_GLOB_MAXI is worth 9.992007221626e-16 with the node and degree of

freedom N550 DX

Temps CPU consommé dans ce pas de temps : 0.100 s

* Nombre d'itérations de Newton : 1

* Temps total intégration comportement : 0.059 s (3 intégrations)

* Temps total factorisation matrice : 0.002 s (1 factorisations)

* Temps construction second membre : 0.015 s

* Temps total résolution K.U=F : 0.003 s (1 résolutions)

* Temps assemblage matrice : 0.007 s

* Nombre d'itérations de recherche linéaire : 0

* Temps autres opérations : 0.013 s

Mémoire (Mo): 1442.39 / 1435.45 / 887.57 / 211.64 (VmPeak / VmSize /

Optimum / Minimum)

Filing of the fields

Field stored DEPL at time 2.47400000000e+00 for the sequence number 2474

Field stored SIEF_ELGA at time 2.47400000000e+00 for the sequence number

2474

Field stored VARI_ELGA at time 2.47400000000e+00 for the sequence number

2474

Field stored COMPORTEMENT at time 2.474000000000e+00 for the sequence number 2474 Field stored VITE at time 2.47400000000e+00 for the sequence number 2474 Field stored ACCE at time 2.474000000000e+00 for the sequence number 2474 Adaptation of the time step. For the method of adaptation of the type FIXE, the computed time step is worth 2.000000000000e-03. 03. After best fit on the compulsory points of transition, the smallest time step is worth 9.9999999999e-04. [98%] Instant calculé: 2.47400e+00, dernier instant archivé: 2.47400e+00, au numéro d'ordre: 2474 Time of computation: 2.475000000000e+00 INCREMENT | NEWTON RESIDU RESIDU RECH. LINE. | RECH. LINE. | OPTION | NEWTON | ITERATION | INSTANT RELATIF ABSOLU NB. ITER | COEFFICIENT | ASSEMBLAGE | TEMPS CALCUL | | RESI_GLOB_RELA | RESI_GLOB_MAXI | | VALEUR RHO | 2.47500E+00 0 | 8.30365E-16 | 8.88178E-16 | **|TANGENTE**

Criterion (S) of convergence reached (S)

The residue of the type RESI_GLOB_RELA is worth 8.303653141368e-16 with the node and degree of

freedom N379 DX

The residue of the type RESI_GLOB_MAXI is worth 8.881784197001e-16 with the node and degree of

freedom N379 DX

Temps CPU consommé dans ce pas de temps : 0.100 s

* Nombre d'itérations de Newton : 1

* Temps total intégration comportement : 0.059 s (3 intégrations)

* Temps total factorisation matrice : 0.002 s (1 factorisations)

* Temps construction second membre : 0.015 s

* Temps total résolution K.U=F : 0.003 s (1 résolutions)

* Temps assemblage matrice : 0.007 s

* Nombre d'itérations de recherche linéaire : 0

* Temps autres opérations : 0.013 s

Mémoire (Mo): 1442.93 / 1435.92 / 888.11 / 211.64 (VmPeak / VmSize / Optimum / Minimum)

Filing of the fields

Field stored DEPL at time 2.475000000000e+00 for the sequence number 2475

Field stored SIEF_ELGA at time 2.475000000000e+00 for the sequence number 2475

Field stored VARI_ELGA at time 2.475000000000e+00 for the sequence number 2475

Field stored COMPORTEMENT at time 2.475000000000e+00 for the sequence number 2475

Field stored VITE at time 2.475000000000e+00 for the sequence number 2475

Field stored ACCE at time 2.475000000000e+00 for the sequence number 2475 Adaptation of the time step. For the method of adaptation of the type FIXE, the computed time step is worth 2.000000000000e-03. On all the criteria of adaptation, the smallest time step is worth 2.00000000000e-03. After best fit on the compulsory points of transition, the smallest time step is worth 9.9999999999e-04. [98%] Instant calculé: 2.47500e+00, dernier instant archivé: 2.47500e+00, au numéro d'ordre: 2475 Time of computation: 2.476000000000e+00 INCREMENT | NEWTON | RESIDU RECH. LINE. | RECH. LINE. | OPTION NEWTON INSTANT ITERATION | RELATIF ABSOLU | COEFFICIENT | ASSEMBLAGE | TEMPS CALCUL | | RESI_GLOB_RELA | RESI_GLOB_MAXI | RHO VALEUR | 0 | 2.47600E+00 | 9.34161E-16 | 9.99201E-16 **ITANGENTE**

Criterion (S) of convergence reached (S)

The residue of the type RESI_GLOB_RELA is worth 9.341609784039e-16 with the

node and degree of

freedom N379 DX

The residue of the type RESI_GLOB_MAXI is worth 9.992007221626e-16 with the node and degree of

freedom N379 DX

Temps CPU consommé dans ce pas de temps : 0.100 s

* Nombre d'itérations de Newton : 1

* Temps total intégration comportement : 0.059 s (3 intégrations)

* Temps total factorisation matrice : 0.002 s (1 factorisations)

* Temps construction second membre : 0.016 s

* Temps total résolution K.U=F : 0.003 s (1 résolutions)

* Temps assemblage matrice : 0.007 s

* Nombre d'itérations de recherche linéaire : 0

* Temps autres opérations : 0.013 s

Mémoire (Mo): 1443.47 / 1436.50 / 888.64 / 211.64 (VmPeak / VmSize /

Optimum / Minimum)

Filing of the fields

Field stored DEPL at time 2.476000000000e+00 for the sequence number 2476

Field stored SIEF_ELGA at time 2.476000000000e+00 for the sequence number 2476

Field stored VARI_ELGA at time 2.47600000000e+00 for the sequence number 2476

Field stored COMPORTEMENT at time 2.476000000000e+00 for the sequence number 2476

Field stored VITE at time 2.476000000000e+00 for the sequence number 2476

Field stored ACCE at time 2.476000000000e+00 for the sequence number 2476

Adaptation of the time step.

For the method of adaptation of the type FIXE, the computed time step is worth

2.000000000000e-03.	

03.

On all the criteria of adaptation, the smallest time step is worth 2.000000000000e-

After best fit on the compulsory points of transition, the smallest time step is worth 9.999999999e-04.

[99%] Instant calculé : 2.47600e+00, dernier instant archivé : 2.47600e+00, au numéro d'ordre :			
2476			
Time of computation: 2.477000000000e+00			
increment newton residu residu RECH. LINE. RECH. LINE. OPTION NEWTON			
INSTANT ITERATION RELATIF ABSOLU NB. ITER COEFFICIENT ASSEMBLAGE TEMPS CALCUL			
2.47700E+00 0 9.34161E-16 9.99201E-16 			

Criterion (S) of convergence reached (S)

The residue of the type RESI_GLOB_RELA is worth 9.341609784039e-16 with the node and degree of

freedom N383 DX

The residue of the type RESI_GLOB_MAXI is worth 9.992007221626e-16 with the

node and degree of

freedom N383 DX

Temps CPU consommé dans ce pas de temps : 0.101 s

* Nombre d'itérations de Newton : 1

* Temps total intégration comportement : 0.060 s (3 intégrations)

* Temps total factorisation matrice : 0.002 s (1 factorisations)

* Temps construction second membre : 0.016 s

* Temps total résolution K.U=F : 0.003 s (1 résolutions)

* Temps assemblage matrice : 0.007 s

* Nombre d'itérations de recherche linéaire : 0

* Temps autres opérations : 0.013 s

Mémoire (Mo): 1444.01 / 1437.02 / 889.18 / 211.64 (VmPeak / VmSize /

Optimum / Minimum)

Filing of the fields

Field stored DEPL at time 2.477000000000e+00 for the sequence number 2477

Field stored SIEF_ELGA at time 2.477000000000e+00 for the sequence number 2477

Field stored VARI_ELGA at time 2.477000000000e+00 for the sequence number 2477

Field stored COMPORTEMENT at time 2.477000000000e+00 for the sequence number 2477

Field stored VITE at time 2.47700000000e+00 for the sequence number 2477

Field stored ACCE at time 2.477000000000e+00 for the sequence number 2477 Adaptation of the time step.

For the method of adaptation of the type FIXE, the computed time step is worth 2.0000000000e-03.

On all the criteria of adaptation, the smallest time step is worth 2.0000000000000 - 03.

9.999999999e-04.			
[99%] Instant calculé : 2.47700e+00, dernier instant archivé : 2.47700e+00, au numéro d'ordre :			
2477			
Time of computation: 2.47800000000e+00			
INCREMENT NEWTON RESIDU RESIDU RECH. LINE. RECH. LINE. OPTION NEWTON			
INSTANT ITERATION RELATIF ABSOLU NB. ITER COEFFICIENT ASSEMBLAGE TEMPS CALCUL			
RESI_GLOB_RELA RESI_GLOB_MAXI RHO VALEUR			
2.47800E+00 0 9.34161E-16 9.99201E-16			
Criterion (S) of convergence reached (S)			
The residue of the type RESI_GLOB_RELA is worth 9.341609784039e-16 with the node and degree of			
freedom N379 DX			
The residue of the type RESI_GLOB_MAXI is worth 9.992007221626e-16 with the node and degree of			
freedom N379 DX			
Temps CPU consommé dans ce pas de temps : 0.100 s			

After best fit on the compulsory points of transition, the smallest time step is worth

* Nombre d'itérations de Newton

* Temps total intégration comportement : 0.060 s (3 intégrations)

: 1

* Temps total factorisation matrice : 0.002 s (1 factorisations)

* Temps construction second membre : 0.015 s

* Temps total résolution K.U=F : 0.003 s (1 résolutions)

* Temps assemblage matrice : 0.007 s

* Nombre d'itérations de recherche linéaire : 0

* Temps autres opérations : 0.013 s

Mémoire (Mo): 1444.59 / 1437.64 / 889.72 / 211.64 (VmPeak / VmSize /

Optimum / Minimum)

Filing of the fields

Field stored DEPL at time 2.478000000000e+00 for the sequence number 2478

Field stored SIEF_ELGA at time 2.478000000000e+00 for the sequence number 2478

Field stored VARI_ELGA at time 2.47800000000e+00 for the sequence number 2478

Field stored COMPORTEMENT at time 2.478000000000e+00 for the sequence number 2478

Field stored VITE at time 2.47800000000e+00 for the sequence number 2478

Field stored ACCE at time 2.478000000000e+00 for the sequence number 2478

Adaptation of the time step.

For the method of adaptation of the type FIXE, the computed time step is worth 2.00000000000e-03.

On all the criteria of adaptation, the smallest time step is worth 2.0000000000000 - 03.

After best fit on the compulsory points of transition, the smallest time step is worth 9.999999999e-04.

[99%] Instant calculé: 2.47800e+00, dernier instant archivé: 2.47800e+00, au numéro

d'ordre :				
2478				
Time of computati	on: 2.479000000	000e+00		
	NEWTON RECH. LINE.	•	idu residu newton	I
•	•	•	F ABSOLU TEMPS CALCUL	
 RHO	 	RESI_GLOB_R VALEUR	ELA RESI_GLOB_MAXI 	
2.47900E+00 	0 TANGENTE	•	7.77156E-16 	
Criterian (S) of con	 ivergence reached (
	type RESI_GLOB_		7.265696498697e-16 with	the
freedom N377	DX			
The residue of the node and degree	,	MAXI is worth	7.771561172376e-16 with	the
freedom N377	DX			
Temps CPU conso	mmé dans ce pas d	le temps : 0	101 s	
* Nombre d'itération	ons de Newton		: 1	
* Temps total intég	gration comportem	ent	: 0.060 s (3 intégrations	s)
* Temps total factor	orisation matrice		: 0.002 s (1 factorisations)	

* Temps construction second membre : 0.016 s

* Temps total résolution K.U=F : 0.003 s (1 résolutions)

* Temps assemblage matrice : 0.007 s

* Nombre d'itérations de recherche linéaire : 0

* Temps autres opérations : 0.013 s

Mémoire (Mo): 1445.11 / 1438.12 / 890.26 / 211.64 (VmPeak / VmSize / Optimum / Minimum)

Filing of the fields

Field stored DEPL at time 2.479000000000e+00 for the sequence number 2479

Field stored SIEF_ELGA at time 2.479000000000e+00 for the sequence number 2479

Field stored VARI_ELGA at time 2.47900000000e+00 for the sequence number 2479

Field stored COMPORTEMENT at time 2.47900000000e+00 for the sequence number 2479

Field stored VITE at time 2.47900000000e+00 for the sequence number 2479

Field stored ACCE at time 2.47900000000e+00 for the sequence number 2479

Adaptation of the time step.

For the method of adaptation of the type FIXE, the computed time step is worth 2.0000000000e-03.

On all the criteria of adaptation, the smallest time step is worth 2.0000000000000 - 03.

After best fit on the compulsory points of transition, the smallest time step is worth 9.999999999e-04.

[99%] Instant calculé : 2.47900e+00	, dernier instant archivé : 2.47900e+00, a	u numéro
d'ordre :		

2479

.-----

Time of computation: 2.48000000000e+00			
•	NEWTON RECH. LINE. OPTION	·	
•	ITERATION EFFICIENT ASSEMBL	RELATIF ABSOLU AGE TEMPS CALCUL	I
 RHO		ilob_rela resi_glob_maxi 'aleur	
•	0 8.8226 TANGENTE	3E-16 9.43690E-16	
Critarian (C) of some			
Criterion (S) of con-	vergence reached (S)		
The residue of the node and degree		vorth 8.822631462704e-16 v	with the
freedom N449	DX		
The residue of the node and degree		worth 9.436895709314e-16	with the
freedom N449	DX		
Temps CPU consor	nmé dans ce pas de temps	: 0.101 s	
* Nombre d'itération	ons de Newton	: 1	
* Temps total intég	ration comportement	: 0.060 s (3 intégrat	tions)
* Temps total facto	risation matrice	: 0.002 s (1 factorisation	ons)
* Temps construction	on second membre	: 0.016 s	
* Temps total résol	ution K.U=F	: 0.003 s (1 résolution	ons)
* Temps assemblad	ue matrice	: 0.007 s	

* Nombre d'itérations de recherche linéaire : 0 * Temps autres opérations : 0.013 s Mémoire (Mo): 1445.68 / 1438.70 / 890.79 / 211.64 (VmPeak / VmSize / Optimum / Minimum) Filing of the fields Field stored DEPL at time 2.48000000000e+00 for the sequence number 2480 Field stored SIEF_ELGA at time 2.48000000000e+00 for the sequence number 2480 Field stored VARI_ELGA at time 2.48000000000e+00 for the sequence number 2480 Field stored COMPORTEMENT at time 2.48000000000e+00 for the sequence number 2480 Field stored VITE at time 2.48000000000e+00 for the sequence number 2480 Field stored ACCE at time 2.48000000000e+00 for the sequence number 2480 Adaptation of the time step. For the method of adaptation of the type FIXE, the computed time step is worth 2.000000000000e-03. On all the criteria of adaptation, the smallest time step is worth 2.00000000000e-03. After best fit on the compulsory points of transition, the smallest time step is worth 9.9999999999e-04. [99%] Instant calculé: 2.48000e+00, dernier instant archivé: 2.48000e+00, au numéro d'ordre: 2480

2.48100000000e+00

Time of computation:

INCREMENT NEWTON RES RECH. LINE. RECH. LINE. OPTION	·			
INSTANT ITERATION RELATI NB. ITER COEFFICIENT ASSEMBLAGE	•			
RESI_GLOB_R RHO VALEUR	ELA RESI_GLOB_MAXI 			
2.48100E+00 0 7.78467E-16 	8.32667E-16 			
Criterion (S) of convergence reached (S)				
The residue of the type RESI_GLOB_RELA is worth node and degree of	7.784674820033e-16 with the			
freedom N449 DX				
The residue of the type RESI_GLOB_MAXI is worth 8.326672684689e-16 with the node and degree of				
freedom N449 DX				
Temps CPU consommé dans ce pas de temps : 0.	100 s			
* Nombre d'itérations de Newton	:1			
* Temps total intégration comportement	: 0.059 s (3 intégrations)			
* Temps total factorisation matrice	: 0.002 s (1 factorisations)			
* Temps construction second membre	: 0.015 s			
* Temps total résolution K.U=F	: 0.003 s (1 résolutions)			
* Temps assemblage matrice	: 0.007 s			
* Nombre d'itérations de recherche linéaire	: 0			
* Temps autres opérations	: 0.013 s			
Mémoire (Mo): 1446.23 / 1439.28 / 891.33 /	211.64 (VmPeak / VmSize /			

Optimum / Minimum) Filing of the fields Field stored DEPL at time 2.481000000000e+00 for the sequence number 2481 Field stored SIEF_ELGA at time 2.48100000000e+00 for the sequence number 2481 Field stored VARI_ELGA at time 2.48100000000e+00 for the sequence number 2481 Field stored COMPORTEMENT at time 2.48100000000e+00 for the sequence number 2481 Field stored VITE at time 2.481000000000e+00 for the sequence number 2481 Field stored ACCE at time 2.481000000000e+00 for the sequence number 2481 Adaptation of the time step. For the method of adaptation of the type FIXE, the computed time step is worth 2.000000000000e-03. On all the criteria of adaptation, the smallest time step is worth 2.00000000000e-03. After best fit on the compulsory points of transition, the smallest time step is worth 9.9999999999e-04. [99%] Instant calculé: 2.48100e+00, dernier instant archivé: 2.48100e+00, au numéro d'ordre:

2481	
Time of computation: 2.4820000000	000e+00
INCREMENT NEWTON RECH. LINE. RECH. LINE.	residu residu Option newton
INSTANT ITERATION	RELATIF ABSOLU

NB. ITER COEFFICIENT ASSEMBLAGE TEMPS CALCUL	
RESI_GLOB_RELA RESI_GLOB_MAXI RHO VALEUR	
2.48200E+00 0 8.82263E-16 9.43690E-16	
Criterion (S) of convergence reached (S)	
The residue of the type RESI_GLOB_RELA is worth 8.822631462704e-16 with node and degree of	the
freedom N378 DX	
The residue of the type RESI_GLOB_MAXI is worth 9.436895709314e-16 with node and degree of	the
freedom N378 DX	
Temps CPU consommé dans ce pas de temps : 0.100 s	
* Nombre d'itérations de Newton : 1	
* Temps total intégration comportement : 0.059 s (3 intégrations	s)
* Temps total factorisation matrice : 0.002 s (1 factorisations)	
* Temps construction second membre : 0.015 s	
* Temps total résolution K.U=F : 0.003 s (1 résolutions)	
* Temps assemblage matrice : 0.007 s	
* Nombre d'itérations de recherche linéaire : 0	
* Temps autres opérations : 0.013 s	
Mémoire (Mo): 1446.76 / 1439.75 / 891.87 / 211.64 (VmPeak / VmSize Optimum / Minimum)	/
Filing of the fields	
Field stored DEPL at time 2.48200000000e+00 for the sequence number 2	2482

Field stored 2482	SIEF_ELGA at time 2.48200000000e+00 for the sequence number
Field stored 2482	VARI_ELGA at time 2.482000000000e+00 for the sequence number
Field stored number 248	COMPORTEMENT at time 2.48200000000e+00 for the sequence
Field stored	VITE at time 2.48200000000e+00 for the sequence number 2482
Field stored	ACCE at time 2.482000000000e+00 for the sequence number 2482
Adaptation o	f the time step.
For the meth-	od of adaptation of the type FIXE, the computed time step is worth
2.0000000000	000e-03.
On all the crit	teria of adaptation, the smallest time step is worth 2.00000000000e-
After best fit	on the compulsory points of transition, the smallest time step is worth
9.999999999	999e-04.
[99%] Instant d'ordre :	calculé : 2.48200e+00, dernier instant archivé : 2.48200e+00, au numéro
2482	
Time of comp	outation: 2.48300000000e+00
	NT NEWTON RESIDU RESIDU
•	T ITERATION RELATIF ABSOLU COEFFICIENT ASSEMBLAGE TEMPS CALCUL
 RHO	RESI_GLOB_RELA RESI_GLOB_MAXI VALEUR
·	

| 2.48300E+00 | 0 | 7.78467E-16 | 8.32667E-16

Criterion (S) of convergence reached (S)

The residue of the type RESI_GLOB_RELA is worth 7.784674820033e-16 with the node and degree of

freedom N449 DX

The residue of the type RESI_GLOB_MAXI is worth 8.326672684689e-16 with the node and degree of

freedom N449 DX

Temps CPU consommé dans ce pas de temps : 0.101 s

* Nombre d'itérations de Newton : 1

* Temps total intégration comportement : 0.059 s (3 intégrations)

* Temps total factorisation matrice : 0.002 s (1 factorisations)

* Temps construction second membre : 0.015 s

* Temps total résolution K.U=F : 0.003 s (1 résolutions)

* Temps assemblage matrice : 0.007 s

* Nombre d'itérations de recherche linéaire : 0

* Temps autres opérations : 0.013 s

Mémoire (Mo): 1447.30 / 1440.33 / 892.40 / 211.64 (VmPeak / VmSize /

Optimum / Minimum)

Filing of the fields

Field stored DEPL at time 2.483000000000e+00 for the sequence number 2483

Field stored SIEF_ELGA at time 2.48300000000e+00 for the sequence number

2483

Field stored VARI_ELGA at time 2.48300000000e+00 for the sequence number

2483

Field stored COMPORTEMENT at time 2.483000000000e+00 for the sequence number 2483
Field stored VITE at time 2.48300000000e+00 for the sequence number 2483
Field stored ACCE at time 2.48300000000e+00 for the sequence number 2483
Adaptation of the time step.
For the method of adaptation of the type FIXE, the computed time step is worth
2.0000000000e-03.
On all the criteria of adaptation, the smallest time step is worth 2.000000000000000000000000000000000000
After best fit on the compulsory points of transition, the smallest time step is worth
9.999999999e-04.
[99%] Instant calculé : 2.48300e+00, dernier instant archivé : 2.48300e+00, au numéro d'ordre :
2483
Time of computation: 2.48400000000e+00
INCREMENT NEWTON RESIDU RESIDU RECH. LINE. OPTION NEWTON
INSTANT ITERATION RELATIF ABSOLU NB. ITER COEFFICIENT ASSEMBLAGE TEMPS CALCUL
RESI_GLOB_RELA RESI_GLOB_MAXI RHO VALEUR
2.48400E+00 0 8.30365E-16 8.88178E-16

Criterion (S) of convergence reached (S)

The residue of the type RESI_GLOB_RELA is worth 8.303653141368e-16 with the node and degree of

freedom N379 DX

The residue of the type RESI_GLOB_MAXI is worth 8.881784197001e-16 with the node and degree of

freedom N379 DX

Temps CPU consommé dans ce pas de temps : 0.101 s

* Nombre d'itérations de Newton : 1

* Temps total intégration comportement : 0.060 s (3 intégrations)

* Temps total factorisation matrice : 0.002 s (1 factorisations)

* Temps construction second membre : 0.015 s

* Temps total résolution K.U=F : 0.003 s (1 résolutions)

* Temps assemblage matrice : 0.007 s

* Nombre d'itérations de recherche linéaire : 0

* Temps autres opérations : 0.013 s

Mémoire (Mo): 1447.86 / 1440.91 / 892.94 / 211.64 (VmPeak / VmSize / Optimum / Minimum)

Filing of the fields

Field stored DEPL at time 2.484000000000e+00 for the sequence number 2484

Field stored SIEF_ELGA at time 2.48400000000e+00 for the sequence number 2484

Field stored VARI_ELGA at time 2.484000000000e+00 for the sequence number 2484

Field stored COMPORTEMENT at time 2.48400000000e+00 for the sequence number 2484

Field stored VITE at time 2.484000000000e+00 for the sequence number 2484

Field stored ACCE at time 2.484000000000e+00 for the sequence number 2484 Adaptation of the time step. For the method of adaptation of the type FIXE, the computed time step is worth 2.000000000000e-03. On all the criteria of adaptation, the smallest time step is worth 2.00000000000e-03. After best fit on the compulsory points of transition, the smallest time step is worth 9.9999999999e-04. [99%] Instant calculé: 2.48400e+00, dernier instant archivé: 2.48400e+00, au numéro d'ordre: 2484 Time of computation: 2.485000000000e+00 INCREMENT | NEWTON | RESIDU OPTION RECH. LINE. | RECH. LINE. | NEWTON INSTANT ITERATION | RELATIF ABSOLU | COEFFICIENT | ASSEMBLAGE | TEMPS CALCUL | | RESI_GLOB_RELA | RESI_GLOB_MAXI | RHO VALEUR | 2.48500E+00 0 | 8.30365E-16 | 8.88178E-16 **|TANGENTE** - 1

Criterion (S) of convergence reached (S)

The residue of the type RESI_GLOB_RELA is worth 8.303653141368e-16 with the

node and degree of

freedom N550 DX

The residue of the type RESI_GLOB_MAXI is worth 8.881784197001e-16 with the node and degree of

freedom N550 DX

Temps CPU consommé dans ce pas de temps : 0.100 s

* Nombre d'itérations de Newton : 1

* Temps total intégration comportement : 0.060 s (3 intégrations)

* Temps total factorisation matrice : 0.002 s (1 factorisations)

* Temps construction second membre : 0.015 s

* Temps total résolution K.U=F : 0.003 s (1 résolutions)

* Temps assemblage matrice : 0.007 s

* Nombre d'itérations de recherche linéaire : 0

* Temps autres opérations : 0.013 s

Mémoire (Mo): 1448.39 / 1441.38 / 893.48 / 211.64 (VmPeak / VmSize /

Optimum / Minimum)

Filing of the fields

Field stored DEPL at time 2.485000000000e+00 for the sequence number 2485

Field stored SIEF_ELGA at time 2.485000000000e+00 for the sequence number 2485

Field stored VARI_ELGA at time 2.485000000000e+00 for the sequence number 2485

Field stored COMPORTEMENT at time 2.485000000000e+00 for the sequence number 2485

Field stored VITE at time 2.48500000000e+00 for the sequence number 2485

Field stored ACCE at time 2.485000000000e+00 for the sequence number 2485

Adaptation of the time step.

For the method of adaptation of the type FIXE, the computed time step is worth

2.00000000000e-03.	
On all the criteria of adaptation, the smallest time step is worth	2.000000000000e-
03.	

After best fit on the compulsory points of transition, the smallest time step is worth 9.999999999e-04.

[99%] Instant calculé : 2.48500e+00, dernier instant archivé : 2.48500e+00, au numéro d'ordre :
2485
Time of computation: 2.486000000000e+00
INCREMENT NEWTON RESIDU RESIDU RECH. LINE. RECH. LINE. OPTION NEWTON
INSTANT ITERATION RELATIF ABSOLU NB. ITER COEFFICIENT ASSEMBLAGE TEMPS CALCUL
RESI_GLOB_RELA RESI_GLOB_MAXI RHO VALEUR
2.48600E+00 0 6.74672E-16 7.21645E-16

Criterion (S) of convergence reached (S)

The residue of the type RESI_GLOB_RELA is worth 6.746718177362e-16 with the node and degree of

freedom N570 DX

The residue of the type RESI_GLOB_MAXI is worth 7.216449660064e-16 with the

node and degree of

freedom N570 DX

Temps CPU consommé dans ce pas de temps : 0.100 s

* Nombre d'itérations de Newton : 1

* Temps total intégration comportement : 0.059 s (3 intégrations)

* Temps total factorisation matrice : 0.002 s (1 factorisations)

* Temps construction second membre : 0.016 s

* Temps total résolution K.U=F : 0.003 s (1 résolutions)

* Temps assemblage matrice : 0.007 s

* Nombre d'itérations de recherche linéaire : 0

* Temps autres opérations : 0.013 s

Mémoire (Mo): 1448.94 / 1441.96 / 894.02 / 211.64 (VmPeak / VmSize /

Optimum / Minimum)

Filing of the fields

Field stored DEPL at time 2.486000000000e+00 for the sequence number 2486

Field stored SIEF_ELGA at time 2.486000000000e+00 for the sequence number 2486

Field stored VARI_ELGA at time 2.48600000000e+00 for the sequence number 2486

Field stored COMPORTEMENT at time 2.486000000000e+00 for the sequence number 2486

Field stored VITE at time 2.486000000000e+00 for the sequence number 2486

Field stored ACCE at time 2.486000000000e+00 for the sequence number 2486

Adaptation of the time step.

For the method of adaptation of the type FIXE, the computed time step is worth 2.00000000000e-03.

On all the criteria of adaptation, the smallest time step is worth 2.0000000000000 - 03.

9.99999999e-04.				
[99%] Instant calculé : 2.48600e+00, dernier instant archivé : 2.48600e+00, au numéro d'ordre :				
2486				
Time of computation: 2.48700000000e+00				
INCREMENT NEWTON RESIDU RESIDU RECH. LINE. OPTION NEWTON				
INSTANT ITERATION RELATIF ABSOLU NB. ITER COEFFICIENT ASSEMBLAGE TEMPS CALCUL				
RESI_GLOB_RELA RESI_GLOB_MAXI RHO VALEUR				
2.48700E+00 0 7.26570E-16 7.77156E-16				
Criterion (S) of convergence reached (S)				
The residue of the type RESI_GLOB_RELA is worth 7.265696498697e-16 with the node and degree of				
freedom N550 DX				
The residue of the type RESI_GLOB_MAXI is worth 7.771561172376e-16 with the node and degree of				
freedom N550 DX				
Temps CPU consommé dans ce pas de temps : 0.100 s				

After best fit on the compulsory points of transition, the smallest time step is worth

* Nombre d'itérations de Newton

* Temps total intégration comportement : 0.059 s (3 intégrations)

: 1

* Temps total factorisation matrice : 0.002 s (1 factorisations)

* Temps construction second membre : 0.016 s

* Temps total résolution K.U=F : 0.003 s (1 résolutions)

* Temps assemblage matrice : 0.007 s

* Nombre d'itérations de recherche linéaire : 0

* Temps autres opérations : 0.013 s

Mémoire (Mo): 1449.49 / 1442.54 / 894.55 / 211.64 (VmPeak / VmSize /

Optimum / Minimum)

Filing of the fields

Field stored DEPL at time 2.487000000000e+00 for the sequence number 2487

Field stored SIEF_ELGA at time 2.487000000000e+00 for the sequence number 2487

Field stored VARI_ELGA at time 2.48700000000e+00 for the sequence number 2487

Field stored COMPORTEMENT at time 2.487000000000e+00 for the sequence number 2487

Field stored VITE at time 2.48700000000e+00 for the sequence number 2487

Field stored ACCE at time 2.487000000000e+00 for the sequence number 2487

Adaptation of the time step.

For the method of adaptation of the type FIXE, the computed time step is worth 2.00000000000e-03.

On all the criteria of adaptation, the smallest time step is worth 2.0000000000000 - 03.

After best fit on the compulsory points of transition, the smallest time step is worth 9.999999999e-04.

[99%] Instant calculé: 2.48700e+00, dernier instant archivé: 2.48700e+00, au numéro

d'ordre :					
2487					
Time of computati	on: 2.488000000	000e+00			
	NEWTON RECH. LINE.	•	idu residu newton	J	
•	•	•	F ABSOLU TEMPS CALCUL	I	
 RHO	 	RESI_GLOB_R VALEUR	ELA RESI_GLOB_MAX		
2.48800E+00 	0 TANGENTE		7.21645E-16 	l	
Criterian (S) of con	 ivergence reached (
	type RESI_GLOB_		6.746718177362e-16	with the	
freedom N379	DX				
The residue of the node and degree	,	MAXI is worth	7.216449660064e-16	with the	
freedom N379	DX				
Temps CPU conso	mmé dans ce pas d	e temps : 0.	100 s		
* Nombre d'itération	ons de Newton		:1		
* Temps total intég	gration comportem	ent	: 0.059 s (3 intégra	tions)	
* Temps total factor	orisation matrice		: 0.002 s (1 factorisations)		

* Temps construction second membre : 0.015 s

* Temps total résolution K.U=F : 0.003 s (1 résolutions)

* Temps assemblage matrice : 0.007 s

* Nombre d'itérations de recherche linéaire : 0

* Temps autres opérations : 0.013 s

Mémoire (Mo): 1450.02 / 1443.02 / 895.09 / 211.64 (VmPeak / VmSize / Optimum / Minimum)

Filing of the fields

Field stored DEPL at time 2.488000000000e+00 for the sequence number 2488

Field stored SIEF_ELGA at time 2.48800000000e+00 for the sequence number 2488

Field stored VARI_ELGA at time 2.48800000000e+00 for the sequence number 2488

Field stored COMPORTEMENT at time 2.488000000000e+00 for the sequence number 2488

Field stored VITE at time 2.488000000000e+00 for the sequence number 2488

Field stored ACCE at time 2.48800000000e+00 for the sequence number 2488

Adaptation of the time step.

For the method of adaptation of the type FIXE, the computed time step is worth 2.0000000000e-03.

On all the criteria of adaptation, the smallest time step is worth 2.0000000000000 - 03.

After best fit on the compulsory points of transition, the smallest time step is worth 9.999999999e-04.

[99%]	Instant calculé	: 2.48800e+00,	dernier	instant	archivé :	2.48800e+	·00, a	au num	érc
d'ordi	e:								

2488

.-----

Time of computation: 2.48900000000e+00				
INCREMENT NEWTON RESIDU RECH. LINE. RECH. LINE. OPTION NEWTO	N			
INSTANT ITERATION RELATIF ABS NB. ITER COEFFICIENT ASSEMBLAGE TEMPS CAL	SOLU CUL			
RESI_GLOB_RELA RESI_GLOI	В_МАХІ			
2.48900E+00 0 9.86059E-16 1.05471E-1	 15			
Criterion (S) of convergence reached (S)				
The residue of the type RESI_GLOB_RELA is worth 9.86058810537 node and degree of	5e-16 with the			
freedom N379 DX				
The residue of the type RESI_GLOB_MAXI is worth 1.054711873394e-15 with the node and degree of				
freedom N379 DX				
Temps CPU consommé dans ce pas de temps : 0.099 s				
* Nombre d'itérations de Newton : 1				
* Temps total intégration comportement : 0.058 s (3 i	intégrations)			
* Temps total factorisation matrice : 0.002 s (1 fac	torisations)			
* Temps construction second membre : 0.015 s				
* Temps total résolution K.U=F : 0.003 s (1 r	ésolutions)			
* Temps assemblage matrice : 0.007 s				

* Nombre d'itérations de recherche linéaire : 0 * Temps autres opérations : 0.013 s Mémoire (Mo): 1450.57 / 1443.59 / 895.63 / 211.64 (VmPeak / VmSize / Optimum / Minimum) Filing of the fields Field stored DEPL at time 2.48900000000e+00 for the sequence number 2489 Field stored SIEF_ELGA at time 2.48900000000e+00 for the sequence number 2489 Field stored VARI_ELGA at time 2.48900000000e+00 for the sequence number 2489 Field stored COMPORTEMENT at time 2.48900000000e+00 for the sequence number 2489 Field stored VITE at time 2.48900000000e+00 for the sequence number 2489 Field stored ACCE at time 2.48900000000e+00 for the sequence number 2489 Adaptation of the time step. For the method of adaptation of the type FIXE, the computed time step is worth 2.000000000000e-03. On all the criteria of adaptation, the smallest time step is worth 2.00000000000e-03. After best fit on the compulsory points of transition, the smallest time step is worth 9.9999999999e-04. [99%] Instant calculé: 2.48900e+00, dernier instant archivé: 2.48900e+00, au numéro d'ordre: 2489

Time of computation: 2.49000000000e+00

INCREMENT NEWTON RESIDU RESIDU RECH. LINE. OPTION NEWTON
INSTANT ITERATION RELATIF ABSOLU NB. ITER COEFFICIENT ASSEMBLAGE TEMPS CALCUL
RESI_GLOB_RELA RESI_GLOB_MAXI RHO VALEUR
2.49000E+00 0 7.26570E-16 7.77156E-16
Criterion (S) of convergence reached (S)
The residue of the type RESI_GLOB_RELA is worth 7.265696498697e-16 with the node and degree of
freedom N532 DX
The residue of the type RESI_GLOB_MAXI is worth 7.771561172376e-16 with the node and degree of
freedom N532 DX
Temps CPU consommé dans ce pas de temps : 0.098 s
* Nombre d'itérations de Newton : 1
* Temps total intégration comportement : 0.058 s (3 intégrations)
* Temps total factorisation matrice : 0.002 s (1 factorisations)
* Temps construction second membre : 0.015 s
* Temps total résolution K.U=F : 0.003 s (1 résolutions)
* Temps assemblage matrice : 0.007 s
* Nombre d'itérations de recherche linéaire : 0
* Temps autres opérations : 0.013 s
Mémoire (Mo): 1451.12 / 1444.17 / 896.17 / 211.64 (VmPeak / VmSize /

Optimum / Minimum) Filing of the fields Field stored DEPL at time 2.49000000000e+00 for the sequence number 2490 Field stored SIEF_ELGA at time 2.49000000000e+00 for the sequence number 2490 Field stored VARI_ELGA at time 2.49000000000e+00 for the sequence number 2490 Field stored COMPORTEMENT at time 2.49000000000e+00 for the sequence number 2490 Field stored VITE at time 2.49000000000e+00 for the sequence number 2490 Field stored ACCE at time 2.49000000000e+00 for the sequence number 2490 Adaptation of the time step. For the method of adaptation of the type FIXE, the computed time step is worth 2.000000000000e-03. On all the criteria of adaptation, the smallest time step is worth 2.000000000000e-03. After best fit on the compulsory points of transition, the smallest time step is worth 9.9999999999e-04. [99%] Instant calculé: 2.49000e+00, dernier instant archivé: 2.49000e+00, au numéro d'ordre: 2490

Time of computation: 2.491000000000e+00

| INCREMENT | NEWTON | RESIDU | RESIDU |
RECH. LINE. | RECH. LINE. | OPTION | NEWTON |
| INSTANT | ITERATION | RELATIF | ABSOLU |

NB. ITER COEFFICIENT ASSEMBLAGE	TEMPS CALCUL		
	LA RESI_GLOB_MAXI 		
2.49100E+00 0 7.78467E-16 	8.32667E-16 		
Criterion (S) of convergence reached (S)			
The residue of the type RESI_GLOB_RELA is worth 7 node and degree of	7.784674820033e-16 with the		
freedom N449 DX			
The residue of the type RESI_GLOB_MAXI is worth a node and degree of	8.326672684689e-16 with the		
freedom N449 DX			
Temps CPU consommé dans ce pas de temps : 0.1	L00 s		
* Nombre d'itérations de Newton	:1		
* Temps total intégration comportement	: 0.059 s (3 intégrations)		
* Temps total factorisation matrice	: 0.002 s (1 factorisations)		
* Temps construction second membre	: 0.015 s		
* Temps total résolution K.U=F	: 0.003 s (1 résolutions)		
* Temps assemblage matrice	: 0.007 s		
* Nombre d'itérations de recherche linéaire :	0		
* Temps autres opérations	: 0.013 s		
Mémoire (Mo): 1451.67 / 1444.64 / 896.70 / Optimum / Minimum)	211.64 (VmPeak / VmSize /		
Filing of the fields			
Field stored DEPL at time 2.491000000000e+00 for	the sequence number 2491		

Field stored 2491	SIEF_ELGA at time 2.491000000000e+00 for the sequence number
Field stored 2491	VARI_ELGA at time 2.491000000000e+00 for the sequence number
Field stored number 249	COMPORTEMENT at time 2.49100000000e+00 for the sequence
Field stored	VITE at time 2.491000000000e+00 for the sequence number 2491
Field stored	ACCE at time 2.491000000000e+00 for the sequence number 2491
Adaptation o	f the time step.
For the meth	od of adaptation of the type FIXE, the computed time step is worth
2.0000000000	000e-03.
On all the crit	teria of adaptation, the smallest time step is worth 2.00000000000e-
After best fit	on the compulsory points of transition, the smallest time step is worth
9.9999999999	999e-04.
[99%] Instant d'ordre :	calculé : 2.49100e+00, dernier instant archivé : 2.49100e+00, au numéro
2491	
Time of comp	outation: 2.49200000000e+00
	NT NEWTON RESIDU RESIDU
•	T ITERATION RELATIF ABSOLU COEFFICIENT ASSEMBLAGE TEMPS CALCUL
 RHO	RESI_GLOB_RELA RESI_GLOB_MAXI VALEUR

.-----

| 2.49200E+00 | 0 | 7.78467E-16 | 8.32667E-16

.....

Criterion (S) of convergence reached (S)

The residue of the type RESI_GLOB_RELA is worth 7.784674820033e-16 with the node and degree of

freedom N377 DX

The residue of the type RESI_GLOB_MAXI is worth 8.326672684689e-16 with the node and degree of

freedom N377 DX

Temps CPU consommé dans ce pas de temps : 0.099 s

* Nombre d'itérations de Newton : 1

* Temps total intégration comportement : 0.058 s (3 intégrations)

* Temps total factorisation matrice : 0.002 s (1 factorisations)

* Temps construction second membre : 0.015 s

* Temps total résolution K.U=F : 0.003 s (1 résolutions)

* Temps assemblage matrice : 0.007 s

* Nombre d'itérations de recherche linéaire : 0

* Temps autres opérations : 0.013 s

Mémoire (Mo): 1452.21 / 1445.23 / 897.24 / 211.64 (VmPeak / VmSize /

Optimum / Minimum)

Filing of the fields

Field stored DEPL at time 2.492000000000e+00 for the sequence number 2492

Field stored SIEF_ELGA at time 2.49200000000e+00 for the sequence number

2492

Field stored VARI_ELGA at time 2.49200000000e+00 for the sequence number

2492

Field stored COMPORTEMENT at time 2.49200000000e+00 for the sequence number 2492
Field stored VITE at time 2.49200000000e+00 for the sequence number 2492
Field stored ACCE at time 2.492000000000e+00 for the sequence number 2492
Adaptation of the time step.
For the method of adaptation of the type FIXE, the computed time step is worth
2.0000000000e-03.
On all the criteria of adaptation, the smallest time step is worth 2.000000000000e-03.
After best fit on the compulsory points of transition, the smallest time step is worth
9.999999999e-04.
[99%] Instant calculé : 2.49200e+00, dernier instant archivé : 2.49200e+00, au numéro d'ordre :
2492
Time of computation: 2.49300000000e+00
INCREMENT NEWTON RESIDU RECH. LINE. RECH. LINE. OPTION NEWTON
INSTANT ITERATION RELATIF ABSOLU NB. ITER COEFFICIENT ASSEMBLAGE TEMPS CALCUL
RESI_GLOB_RELA RESI_GLOB_MAXI RHO VALEUR
2.49300E+00 0 8.82263E-16 9.43690E-16

.----

Criterion (S) of convergence reached (S)

The residue of the type RESI_GLOB_RELA is worth 8.822631462704e-16 with the node and degree of

freedom N378 DX

The residue of the type RESI_GLOB_MAXI is worth 9.436895709314e-16 with the node and degree of

freedom N378 DX

Temps CPU consommé dans ce pas de temps : 0.098 s

* Nombre d'itérations de Newton : 1

* Temps total intégration comportement : 0.058 s (3 intégrations)

* Temps total factorisation matrice : 0.002 s (1 factorisations)

* Temps construction second membre : 0.015 s

* Temps total résolution K.U=F : 0.003 s (1 résolutions)

* Temps assemblage matrice : 0.007 s

* Nombre d'itérations de recherche linéaire : 0

* Temps autres opérations : 0.013 s

Mémoire (Mo): 1452.75 / 1445.80 / 897.78 / 211.64 (VmPeak / VmSize / Optimum / Minimum)

Filing of the fields

Field stored DEPL at time 2.493000000000e+00 for the sequence number 2493

Field stored SIEF_ELGA at time 2.49300000000e+00 for the sequence number 2493

Field stored VARI_ELGA at time 2.49300000000e+00 for the sequence number 2493

Field stored COMPORTEMENT at time 2.49300000000e+00 for the sequence number 2493

Field stored VITE at time 2.49300000000e+00 for the sequence number 2493

Field stored ACCE at time 2.49300000000e+00 for the sequence number 2493 Adaptation of the time step. For the method of adaptation of the type FIXE, the computed time step is worth 2.000000000000e-03. On all the criteria of adaptation, the smallest time step is worth 2.00000000000e-03. After best fit on the compulsory points of transition, the smallest time step is worth 9.9999999999e-04. [99%] Instant calculé: 2.49300e+00, dernier instant archivé: 2.49300e+00, au numéro d'ordre: 2493 Time of computation: 2.494000000000e+00 INCREMENT | NEWTON | RESIDU RECH. LINE. | RECH. LINE. | OPTION NEWTON INSTANT ITERATION | RELATIF ABSOLU | COEFFICIENT | ASSEMBLAGE | TEMPS CALCUL | | RESI_GLOB_RELA | RESI_GLOB_MAXI | VALEUR RHO | 0 | 2.49400E+00 | 6.74672E-16 | 7.21645E-16 **ITANGENTE**

Criterion (S) of convergence reached (S)

The residue of the type RESI_GLOB_RELA is worth 6.746718177362e-16 with the

node and degree of

freedom N443 DX

The residue of the type RESI_GLOB_MAXI is worth 7.216449660064e-16 with the node and degree of

freedom N443 DX

Temps CPU consommé dans ce pas de temps : 0.099 s

* Nombre d'itérations de Newton : 1

* Temps total intégration comportement : 0.058 s (3 intégrations)

* Temps total factorisation matrice : 0.002 s (1 factorisations)

* Temps construction second membre : 0.015 s

* Temps total résolution K.U=F : 0.003 s (1 résolutions)

* Temps assemblage matrice : 0.007 s

* Nombre d'itérations de recherche linéaire : 0

* Temps autres opérations : 0.013 s

Mémoire (Mo): 1453.29 / 1446.28 / 898.31 / 211.64 (VmPeak / VmSize /

Optimum / Minimum)

Filing of the fields

Field stored DEPL at time 2.49400000000e+00 for the sequence number 2494

Field stored SIEF_ELGA at time 2.49400000000e+00 for the sequence number 2494

Field stored VARI_ELGA at time 2.49400000000e+00 for the sequence number 2494

Field stored COMPORTEMENT at time 2.49400000000e+00 for the sequence number 2494

Field stored VITE at time 2.49400000000e+00 for the sequence number 2494

Field stored ACCE at time 2.49400000000e+00 for the sequence number 2494

Adaptation of the time step.

For the method of adaptation of the type FIXE, the computed time step is worth

2.	000	000	000	000	0e-	03.

After best fit on the compulsory points of transition, the smallest time step is worth 9.999999999e-04.

[99%] Instant calculé : 2.49400e+00, dernier instant archivé : 2.49400e+00, au numéro d'ordre :					
2494					
Time of computation: 2.495000000000e+00					
INCREMENT NEWTON RESIDU RESIDU RECH. LINE. RECH. LINE. OPTION NEWTON					
INSTANT ITERATION RELATIF ABSOLU NB. ITER COEFFICIENT ASSEMBLAGE TEMPS CALCUL					
RESI_GLOB_RELA RESI_GLOB_MAXI RHO VALEUR					
2.49500E+00 0 8.30365E-16 8.88178E-16					

Criterion (S) of convergence reached (S)

The residue of the type RESI_GLOB_RELA is worth 8.303653141368e-16 with the node and degree of

freedom N383 DX

The residue of the type RESI_GLOB_MAXI is worth 8.881784197001e-16 with the

node and degree of

freedom N383 DX

Temps CPU consommé dans ce pas de temps : 0.100 s

* Nombre d'itérations de Newton : 1

* Temps total intégration comportement : 0.058 s (3 intégrations)

* Temps total factorisation matrice : 0.002 s (1 factorisations)

* Temps construction second membre : 0.015 s

* Temps total résolution K.U=F : 0.003 s (1 résolutions)

* Temps assemblage matrice : 0.007 s

* Nombre d'itérations de recherche linéaire : 0

* Temps autres opérations : 0.013 s

Mémoire (Mo): 1453.85 / 1446.83 / 898.85 / 211.64 (VmPeak / VmSize /

Optimum / Minimum)

Filing of the fields

Field stored DEPL at time 2.495000000000e+00 for the sequence number 2495

Field stored SIEF_ELGA at time 2.49500000000e+00 for the sequence number

2495

Field stored VARI_ELGA at time 2.495000000000e+00 for the sequence number

2495

Field stored COMPORTEMENT at time 2.49500000000e+00 for the sequence

number 2495

Field stored VITE at time 2.49500000000e+00 for the sequence number 2495

Field stored ACCE at time 2.495000000000e+00 for the sequence number 2495

Adaptation of the time step.

For the method of adaptation of the type FIXE, the computed time step is worth

2.000000000000e-03.

On all the criteria of adaptation, the smallest time step is worth 2.000000000000e-

03.

9.999999999e-04.					
[99%] Instant calculé : 2.49500e+00, dernier instant archivé : 2.49500e+00, au numéro d'ordre :					
2495					
Time of computation: 2.49600000000e+00					
INCREMENT NEWTON RESIDU RESIDU RECH. LINE. OPTION NEWTON					
INSTANT ITERATION RELATIF ABSOLU NB. ITER COEFFICIENT ASSEMBLAGE TEMPS CALCUL					
RESI_GLOB_RELA RESI_GLOB_MAXI RHO VALEUR					
2.49600E+00 0 7.78467E-16 8.32667E-16					
Criterion (S) of convergence reached (S)					
The residue of the type RESI_GLOB_RELA is worth 7.784674820033e-16 with the node and degree of					
freedom N449 DX					
The residue of the type RESI_GLOB_MAXI is worth 8.326672684689e-16 with the node and degree of					
freedom N449 DX					
Temps CPU consommé dans ce pas de temps : 0.098 s					

After best fit on the compulsory points of transition, the smallest time step is worth

* Nombre d'itérations de Newton

* Temps total intégration comportement : 0.058 s (3 intégrations)

: 1

* Temps total factorisation matrice : 0.002 s (1 factorisations)

* Temps construction second membre : 0.015 s

* Temps total résolution K.U=F : 0.003 s (1 résolutions)

* Temps assemblage matrice : 0.007 s

* Nombre d'itérations de recherche linéaire : 0

* Temps autres opérations : 0.013 s

Mémoire (Mo): 1454.39 / 1447.39 / 899.39 / 211.64 (VmPeak / VmSize /

Optimum / Minimum)

Filing of the fields

Field stored DEPL at time 2.496000000000e+00 for the sequence number 2496

Field stored SIEF_ELGA at time 2.496000000000e+00 for the sequence number 2496

Field stored VARI_ELGA at time 2.49600000000e+00 for the sequence number 2496

Field stored COMPORTEMENT at time 2.49600000000e+00 for the sequence number 2496

Field stored VITE at time 2.49600000000e+00 for the sequence number 2496

Field stored ACCE at time 2.496000000000e+00 for the sequence number 2496

Adaptation of the time step.

For the method of adaptation of the type FIXE, the computed time step is worth 2.0000000000e-03.

On all the criteria of adaptation, the smallest time step is worth 2.0000000000000 - 03.

After best fit on the compulsory points of transition, the smallest time step is worth 9.999999999e-04.

[99%] Instant calculé: 2.49600e+00, dernier instant archivé: 2.49600e+00, au numéro

d'ordre :		
2496		
Time of computatio	on: 2.497000000000e+00	
•	NEWTON RES RECH. LINE. OPTION	·
	ITERATION RELATI EFFICIENT ASSEMBLAGE	'
 RHO	RESI_GLOB_R VALEUR	ELA RESI_GLOB_MAXI
·	0 6.74672E-16 TANGENTE	7.21645E-16
Criterion (S) of conv	vergence reached (S)	
, ,	type RESI_GLOB_RELA is worth	6.746718177362e-16 with the
freedom N416	DX	
The residue of the node and degree	type RESI_GLOB_MAXI is worth of	7.216449660064e-16 with the
freedom N416	DX	
Temps CPU conson	nmé dans ce pas de temps : 0	097 s
* Nombre d'itératio	ns de Newton	:1
* Temps total intég	ration comportement	: 0.058 s (3 intégrations)
* Temps total factor	risation matrice	: 0.002 s (1 factorisations)

* Temps construction second membre : 0.015 s

* Temps total résolution K.U=F : 0.003 s (1 résolutions)

* Temps assemblage matrice : 0.007 s

* Nombre d'itérations de recherche linéaire : 0

* Temps autres opérations : 0.013 s

Mémoire (Mo): 1454.95 / 1447.96 / 899.93 / 211.64 (VmPeak / VmSize / Optimum / Minimum)

Filing of the fields

Field stored DEPL at time 2.497000000000e+00 for the sequence number 2497

Field stored SIEF_ELGA at time 2.497000000000e+00 for the sequence number 2497

Field stored VARI_ELGA at time 2.49700000000e+00 for the sequence number 2497

Field stored COMPORTEMENT at time 2.497000000000e+00 for the sequence number 2497

Field stored VITE at time 2.49700000000e+00 for the sequence number 2497

Field stored ACCE at time 2.49700000000e+00 for the sequence number 2497

Adaptation of the time step.

For the method of adaptation of the type FIXE, the computed time step is worth 2.0000000000e-03.

On all the criteria of adaptation, the smallest time step is worth 2.0000000000000 - 03.

After best fit on the compulsory points of transition, the smallest time step is worth 9.999999999e-04.

[99%]	Instant calculé	: 2.49700e+00,	dernier	instant	archivé :	2.49700	e+00,	au n	uméro
d'ordr	re:								

2497

.-----

Time of computation: 2.49800000000e+00				
•	NEWTON RECH. LINE.		•	DU
	ITERATION EFFICIENT ASS		•	'
 RHO	R		ila Resi_glob_ma	λΧΙ
•	0 7 TANGENTE		7.77156E-16 	l
Criterion (S) of con-	vergence reached (S)			
The residue of the node and degree	type RESI_GLOB_REL	A is worth	7.265696498697e-1	6 with the
freedom N377	DX			
The residue of the node and degree	type RESI_GLOB_MA	XI is worth	7.771561172376e-1	.6 with the
freedom N377	DX			
Temps CPU consor	nmé dans ce pas de te	emps : 0.0)98 s	
* Nombre d'itération	ons de Newton		: 1	
* Temps total intég	ration comportement		: 0.057 s (3 intég	rations)
* Temps total facto	risation matrice		: 0.002 s (1 factorisa	ations)
* Temps construction	on second membre		: 0.015 s	
* Temps total résol	ution K.U=F		: 0.003 s (1 résolu	itions)
* Temps assemblad	ne matrice		: 0.007 s	

* Nombre d'itérations de recherche linéaire : 0 * Temps autres opérations : 0.013 s Mémoire (Mo): 1455.49 / 1448.54 / 900.46 / 211.64 (VmPeak / VmSize / Optimum / Minimum) Filing of the fields Field stored DEPL at time 2.498000000000e+00 for the sequence number 2498 Field stored SIEF_ELGA at time 2.49800000000e+00 for the sequence number 2498 Field stored VARI_ELGA at time 2.49800000000e+00 for the sequence number 2498 Field stored COMPORTEMENT at time 2.49800000000e+00 for the sequence number 2498 Field stored VITE at time 2.49800000000e+00 for the sequence number 2498 Field stored ACCE at time 2.49800000000e+00 for the sequence number 2498 Adaptation of the time step. For the method of adaptation of the type FIXE, the computed time step is worth 2.000000000000e-03. On all the criteria of adaptation, the smallest time step is worth 2.00000000000e-03. After best fit on the compulsory points of transition, the smallest time step is worth 9.9999999999e-04. [99%] Instant calculé: 2.49800e+00, dernier instant archivé: 2.49800e+00, au numéro d'ordre: 2498

Time of computation: 2.49900000000e+00

INCREMENT NEWTON RESIDU RESIDU RECH. LINE. OPTION NEWTON				
INSTANT ITERATION RELATIF ABSOLU NB. ITER COEFFICIENT ASSEMBLAGE TEMPS CALCUL				
RESI_GLOB_RELA RESI_GLOB_MAXI RHO VALEUR				
2.49900E+00 0 8.82263E-16 9.43690E-16				
Criterion (S) of convergence reached (S)				
The residue of the type RESI_GLOB_RELA is worth 8.822631462704e-16 with the node and degree of				
freedom N449 DX				
The residue of the type RESI_GLOB_MAXI is worth 9.436895709314e-16 with the node and degree of				
freedom N449 DX				
Temps CPU consommé dans ce pas de temps : 0.099 s				
* Nombre d'itérations de Newton : 1				
* Temps total intégration comportement : 0.059 s (3 intégrations)				
* Temps total factorisation matrice : 0.002 s (1 factorisations)				
* Temps construction second membre : 0.015 s				
* Temps total résolution K.U=F : 0.003 s (1 résolutions)				
* Temps assemblage matrice : 0.007 s				
* Nombre d'itérations de recherche linéaire : 0				
* Temps autres opérations : 0.013 s				
Mémoire (Mo): 1456.04 / 1449.03 / 901.00 / 211.64 (VmPeak / VmSize /				

Optimum / Minimum) Filing of the fields Field stored DEPL at time 2.49900000000e+00 for the sequence number 2499 Field stored SIEF_ELGA at time 2.49900000000e+00 for the sequence number 2499 Field stored VARI_ELGA at time 2.49900000000e+00 for the sequence number 2499 Field stored COMPORTEMENT at time 2.49900000000e+00 for the sequence number 2499 Field stored VITE at time 2.49900000000e+00 for the sequence number 2499 Field stored ACCE at time 2.49900000000e+00 for the sequence number 2499 Adaptation of the time step. For the method of adaptation of the type FIXE, the computed time step is worth 2.000000000000e-03. On all the criteria of adaptation, the smallest time step is worth 2.000000000000e-03. After best fit on the compulsory points of transition, the smallest time step is worth 1.00000000164e-03. [99%] Instant calculé: 2.49900e+00, dernier instant archivé: 2.49900e+00, au numéro d'ordre: 2499

Time of computation: 2.50000000000e+00

| INCREMENT | NEWTON | RESIDU | RESIDU |
RECH. LINE. | RECH. LINE. | OPTION | NEWTON |
| INSTANT | ITERATION | RELATIF | ABSOLU |

NB. ITER COEFFICIENT ASSEMBLAGE	TEMPS CALCUL
RESI_GLOB_RE	ELA RESI_GLOB_MAXI
2.50000E+00 0 6.74672E-16 	7.21645E-16
Critarian (C) of convergence reached (C)	
Criterion (S) of convergence reached (S)	0.740740477000 40 141 44
The residue of the type RESI_GLOB_RELA is worth of node and degree of	6.746718177362e-16 with the
freedom N449 DX	
The residue of the type RESI_GLOB_MAXI is worth node and degree of	7.216449660064e-16 with the
freedom N449 DX	
Temps CPU consommé dans ce pas de temps : 0.2	100 s
* Nombre d'itérations de Newton	: 1
* Temps total intégration comportement	: 0.059 s (3 intégrations)
* Temps total factorisation matrice	: 0.002 s (1 factorisations)
* Temps construction second membre	: 0.015 s
* Temps total résolution K.U=F	: 0.003 s (1 résolutions)
* Temps assemblage matrice	: 0.007 s
* Nombre d'itérations de recherche linéaire	: 0
* Temps autres opérations	: 0.013 s
Mémoire (Mo): 1456.59 / 1449.61 / 901.54 / Optimum / Minimum)	211.64 (VmPeak / VmSize /
Filing of the fields	
Field stored DEPL at time 2.500000000000e+00 for	r the sequence number 2500

Field stored SIEF_ELGA at time 2.50000000000e+00 for the sequence number 2500

Field stored VARI_ELGA at time 2.50000000000e+00 for the sequence number 2500

Field stored COMPORTEMENT at time 2.50000000000e+00 for the sequence number 2500

Field stored VITE at time 2.50000000000e+00 for the sequence number 2500

Field stored ACCE at time 2.500000000000e+00 for the sequence number 2500

[100%] Instant calculé : 2.50000e+00, dernier instant archivé : 2.50000e+00, au numéro d'ordre :

2500

Temps CPU consommé dans le calcul : 4 min 21 s

dont temps CPU "perdu" dans les découpes : 0.000 s

* Nombre de pas de temps : 2500

* Nombre d'itérations de Newton : 2515

* Temps dans l'archivage : 4.379 s

* Temps dans le post-traitement : 0.003 s

* Temps total intégration comportement : 2 min 25 s (7530 intégrations)

* Temps total factorisation matrice : 5.217 s (2515 factorisations)

* Temps construction second membre : 37.998 s

* Temps total résolution K.U=F : 8.234 s (2515 résolutions)

* Temps assemblage matrice : 17.282 s

* Nombre d'itérations de recherche linéaire : 0

#1 Resolution des systemes lineaires CPU

(USER+SYST/SYST/ELAPS): 13.15 0.01 13.41

#2 Calculs elementaires et assemblages CPU

(USER+SYST/SYST/ELAPS): 196.72 17.38 196.87

#3 Dechargement de la memoire sur disque CPU

(USER+SYST/SYST/ELAPS): 0.43 0.33 0.43

```
#4
                                                             CPU
        Communications MPI
(USER+SYST/SYST/ELAPS):
                              3.46
                                        0.34
                                                  3.57
# Résultat commande #0017 (DYNA_NON_LINE): SIM ('<0000000f>') de type
<NonLinearResult>
# Dépend de :
# - TIMELIST ('<0000000d>') de type <ListOfFloats>
# - MATS ('<00000004>') de type <MaterialField>
# - BC_0 ('<0000000a>') de type <MechanicalLoadReal>
# - BC_1 ('<000000b>') de type <MechanicalLoadFunction>
# - BC_2 ('<0000000c>') de type <MechanicalDirichletBC>
# - INSTLIST ('<0000000e>') de type <TimeStepper>
# - MODEL ('<0000003>') de type < Model>
# Mémoire (Mo): 2111.22 / 2111.22 / 1524.49 / 211.64 (VmPeak / VmSize /
Optimum / Minimum)
# Fin commande #0017 user+syst:
                                       234.70s (syst:
                                                          29.30s, elaps:
264.34s)
.. stg1 txt274
_____
# Commande #0018 de fort.1, ligne 274
FIN(INFO_RESU='NON',
    PROC0='OUI',
    RETASSAGE='NON')
Saving objects...
                         <class 'float'>
рi
                          <class 'float'>
е
```

```
tau
                             <class 'float'>
                            <class 'float'>
inf
                              <class 'float'>
nan
MAT 0
                              <class 'libaster.Material'>
MESH
                               <class 'libaster.Mesh'>
MODEL
                               <class 'libaster.Model'>
MATS
                               <class 'libaster.MaterialField'>
INIT U
                             <class 'libaster.FieldOnNodesReal'>
INIT_A
                             <class 'libaster.FieldOnNodesReal'>
F_0
                             <class 'libaster.Formula'>
F_1
                             <class 'libaster.Formula'>
F_2
                             <class 'libaster.Formula'>
BC_0
                              <class 'libaster.MechanicalLoadReal'>
BC_1
                              <class 'libaster.MechanicalLoadFunction'>
BC_2
                              <class 'libaster.MechanicalDirichletBC'>
TIMELIST
                             <class 'libaster.ListOfFloats'>
INSTLIST
                             <class 'libaster.TimeStepper'>
SIM
                              <class 'libaster.NonLinearResult'>
```

```
| <I> <CATAMESS_89>
|
|
|
|
|
|
|
| List of warnings emitted during the execution of computation.
```

	Warnings	which you chose to igno	ore of are preceded	by (*).	
	Number o	f occurrences for each w	varning:		
		no warning			
L					
Сс	oncepts de la	base: G			
de	Nom	Туре	Taille (Mo)	Nombre	Nombre
				d'objets	segments
779	TOTAL 933		1384.04	65305	
9	00000001	MATER_SDASTER	0.00	9	
67	00000002	MAILLAGE_SDASTER	0.44	38	
	0000000	NAODELE CDACTED	0.40	2	

0000003 MODELE_SDASTER 0.19 9 14 00000004 CHAM_MATER 0.03 9 14 00000005 CHAM_NO_SDASTER 0.14 10 12 00000006 CHAM_NO_SDASTER 0.14 10 12

4	00000007	FORMULE	0.00	4	
4	8000000	FORMULE	0.00	4	
4	00000009	FORMULE	0.00	4	
37	0000000a	CHAR_MECA	0.03	32	
37	0000000b	CHAR_MECA	0.04	32	
4	0000000c	CHAR_CINE_MECA	0.03	4	
6	0000000d	LISTR8_SDASTER	0.02	6	
U	0000000e	LIST_INST	0.02	9	9
775		EVOL_NOLI	1352.96	65080	
2	&FOZERO		0.00	2	
1	&&_NUM_(0.00	1	
4	&CATA.AC		0.00	2	
3	&CATA.CL		0.62	1	
11	&CATA.GD		0.19	4	
	&CATA.ME		0.22	2	
4 19	&CATA.OP		0.32	4	

1	&CATA.PH	0.00	1	
4	&CATA.PR	0.00	2	
42	&CATA.TE	28.61	17	
4	&CATA.TH	0.01	2	
11	&CATA.TM	0.01	7	

Nom de la base : GLOBALE

Nombre d'enregistrements utilisés : 2103

Nombre d'enregistrements maximum : 2684354

Nombre d'enregistrements par fichier : 15728

Longueur d'enregistrement (octets) : 819200

Nombre total d'accès en lecture : 11713

Volume des accès en lecture : 9150.78 Mo.

Nombre total d'accès en écriture : 2420

Volume des accès en écriture : 1890.62 Mo.

Nombre d'identificateurs utilisés : 77943

Taille maximum du répertoire : 128000

Pourcentage d'utilisation du répertoire : 60 %

Nom de la base : VOLATILE

Nombre d'enregistrements utilisés : 160

Nombre d'enregistrements maximum : 2684354

Nombre d'enregistrements par fichier : 15728

Longueur d'enregistrement (octets) : 819200

Nombre total d'accès en lecture : 54592

Volume des accès en lecture : 42650.00 Mo.

Nombre total d'accès en écriture : 877

Volume des accès en écriture : 685.16 Mo.

Nombre d'identificateurs utilisés : 1100

Taille maximum du répertoire : 2000

Pourcentage d'utilisation du répertoire : 55 %

<!> <FIN> ARRET NORMAL DANS "FIN" PAR APPEL A "JEFINI".

<I> <FIN> MEMOIRE JEVEUX MINIMALE REQUISE POUR L'EXECUTION : 211.64 Mo

<|> <FIN> MEMOIRE JEVEUX OPTIMALE REQUISE POUR L'EXECUTION : 1536.94 Mo

<|> <FIN> MAXIMUM DE MEMOIRE UTILISEE PAR LE PROCESSUS LORS DE L'EXECUTION : 2123.62 Mo

<I> FERMETURE DES BASES EFFECTUEE

STATISTIQUES CONCERNANT L'ALLOCATION DYNAMIQUE :

TAILLE CUMULEE MAXIMUM : 1537 Mo.

TAILLE CUMULEE LIBEREE : 10893 Mo.

NOMBRE TOTAL D'ALLOCATIONS : 10263361

NOMBRE TOTAL DE LIBERATIONS : 10263341

APPELS AU MECANISME DE LIBERATION : 6

TAILLE MEMOIRE CUMULEE RECUPEREE : 1602 Mo.

VOLUME DES LECTURES : 36 Mo.

VOLUME DES ECRITURES : 1601 Mo.

MEMOIRE JEVEUX MINIMALE REQUISE POUR L'EXECUTION : 211.64 Mo

- IMPOSE DE NOMBREUX ACCES DISQUE
- RALENTIT LA VITESSE D'EXECUTION

MEMOIRE JEVEUX OPTIMALE REQUISE POUR L'EXECUTION: 1536.94 Mo

- LIMITE LES ACCES DISQUE
- AMELIORE LA VITESSE D'EXECUTION

MAXIMUM DE MEMOIRE UTILISEE PAR LE PROCESSUS : 2123.62 Mo

- COMPREND LA MEMOIRE CONSOMMEE PAR JEVEUX,

LE SUPERVISEUR PYTHON, LES LIBRAIRIES EXTERNES

<I> FIN D'EXECUTION LE : JE-16-JANV-2025 14:56:13

DeprecationWarning: PY_SSIZE_T_CLEAN will be required for '#' formats

libaster.jeveux_finalize(options)

Signature of pickled file :

654a92d6bc3cb74fac80ec058b9e77273302a8ad09c5903cc49e76feec1e46f7

Signature of info file :

cdd70caf7ed56c6f74c77870fc623b1b3967af91fa9558daa364aef8ee4343f0

Signature of Jeveux database:

c1ade56416f711b348cfd98cd0533125606d29c007420732872786108cf6eaad

* COMMAND : USER: SYSTEM: USER+SYS:

ELAPSED *

* DEBUT : 0.04 : 0.16 : 0.20 : 0.19 *

* DEFI_MATERIAU : 0.00 : 0.00 : 0.00 : 0.01 *

* LIRE_MAILLAGE : 0.01 : 0.00 : 0.01 : 0.01 *

* DEFI GROUP : 0.01: 0.00: 0.01: 0.00

*

* AFFE_MODELE : 0.01 : 0.00 : 0.01 : 0.02

*

* AFFE MATERIAU : 0.01 : 0.00 : 0.01 : 0.00

*

* CREA CHAMP : 0.00: 0.00: 0.00:

1	•	

* CREA_CHAMP	:	0.00 :	0.00 :	0.00 :	0.01			
* FORMULE	:	0.00 :	0.00 :	0.00 :	0.00			
* FORMULE	:	0.00 :	0.00 :	0.00 :	0.00			
* FORMULE	:	0.00 :	0.00 :	0.00 :	0.00			
* AFFE_CHAR_MECA *	:	0.01 :	0.00 :	0.01 :	0.00			
* AFFE_CHAR_MECA_F *	:	0.01 :	0.00 :	0.01 :	0.01			
* AFFE_CHAR_CINE *	:	0.00 :	0.00 :	0.00 :	0.00			
* DEFI_LIST_REEL	:	0.00:	0.00 :	0.00 :	0.00 *			
* DEFI_LIST_INST	:	0.01:	0.00 :	0.01:	0.00 *			
* DYNA_NON_LINE 264.34 *	:	234.70 :	29.30 :	264.00 :				
* FIN	:	0.30 :	0.20 :	0.50 :	0.49 *			
* . check syntax	:	0.02 :	0.00 :	0.02 :	0.02 *			
* . fortran	: 2	234.50 :	27.78 :	262.28 :	262.62 *			

* TOTAL_JOB	:	235.11 :	29.66 :	264.77 :	265.10			

# Mémoire (Mo): 2123.62 / 933.71 / 1536.94 / 211.64 (VmPeak / VmSize / Optimum / Minimum)								
# Fin commande #0018 user+syst: 0.30s (syst: 0.20s, elaps: 0.49s)								

```
# -----
End of the Code_Aster execution
Code_Aster MPI exits normally
Exited
EXECUTION_CODE_ASTER_EXIT_12=0
# import code_aster
import code_aster
from code_aster.Commands import *
# import math library for functions and formula
from math import *
# import simscale macros and utilities
import simscale_macros
# Input file start
POURSUITE(
   IGNORE_ALARM=("SUPERVIS_1", "ALGORITH11_87"),
   LANG="en",
)
try:
   # reconstructing model for single-core post-processing
   MODEL = MODI_MODELE(
       DISTRIBUTION=_F(
           METHODE="CENTRALISE",
       ),
       MODELE=MODEL,
```

```
reuse=MODEL,
)
# Derived result calculation on nodes
SIM = CALC\_CHAMP(
    CONTRAINTE=("SIGM_NOEU"),
    CRITERES=("SIEQ_NOEU"),
    DEFORMATION=("EPSG_NOEU"),
    GROUP_MA=("face1", "face2", "face3", "region1"),
    RESULTAT=SIM,
    reuse=SIM,
)
# Restricted mesh (only volume elements) for global fields printing
MESH_PP = CREA_MAILLAGE(
    MAILLAGE=MESH,
    RESTREINT=_F(
        GROUP_MA=("region1"),
    ),
)
# Restricted model definition for global fields printing
MOD_PP = AFFE_MODELE(
    AFFE=(
        _F(
            MODELISATION="3D",
            PHENOMENE="MECANIQUE",
            TOUT="OUI",
        ),
        _F(
```

```
GROUP_MA=("region1"),
                MODELISATION="3D",
                PHENOMENE="MECANIQUE",
            ),
        ),
        MAILLAGE=MESH_PP,
    )
    # Restricted result for global fields printing
    SIM_PP = EXTR_RESU(
        ARCHIVAGE=_F(
            NOM_CHAM=("ACCE", "DEPL", "EPSG_NOEU", "SIEQ_NOEU",
"SIGM_NOEU", "VITE"),
            PAS_ARCH=1,
        ),
        RESTREINT=_F(
            MODELE=MOD_PP,
        ),
        RESULTAT=SIM,
    )
    # Destroying intermediate objects for global fields result restriction
    DETRUIRE(
        INFO=1,
        NOM=(MESH, MODEL, SIM),
    )
    # Solution fields in file
    IMPR_RESU(
        FORMAT="MED",
```

```
RESU=(
   _F(
       NOM_CHAM="DEPL",
       NOM_CHAM_MED="displacement",
        NOM_CMP=("DX", "DY", "DZ"),
       RESULTAT=SIM_PP,
   ),
   _F(
       NOM_CHAM="SIGM_NOEU",
       NOM_CHAM_MED="cauchy stress",
       NOM_CMP=("SIXX", "SIYY", "SIZZ", "SIXY", "SIXZ", "SIYZ"),
        RESULTAT=SIM_PP,
   ),
   _F(
       NOM_CHAM="SIEQ_NOEU",
       NOM_CHAM_MED="von Mises stress",
        NOM_CMP=("VMIS"),
        RESULTAT=SIM_PP,
   ),
   _F(
       NOM_CHAM="EPSG_NOEU",
        NOM_CHAM_MED="total nonlinear strain",
       NOM_CMP=("EPXX", "EPYY", "EPZZ", "EPXY", "EPXZ", "EPYZ"),
        RESULTAT=SIM_PP,
   ),
   _F(
       NOM_CHAM="VITE",
```

```
NOM_CHAM_MED="velocity",
                NOM_CMP=("DX", "DY", "DZ"),
                RESULTAT=SIM_PP,
            ),
            _F(
                NOM_CHAM="ACCE",
                NOM_CHAM_MED="acceleration",
                NOM_CMP=("DX", "DY", "DZ"),
                RESULTAT=SIM_PP,
            ),
        ),
        UNITE=80,
    )
finally:
    # Input file end
    FIN(
        INFO_RESU="NON",
        PROC0="OUI",
        RETASSAGE="NON",
    )
MPI_Init...
calling MPI_Init...
Ouverture en écriture du fichier ./vola.1
<INFO> Démarrage de l'exécution.
           -- CODE_ASTER -- VERSION : CORRECTIVE AVANT STABILISATION
```

(stable-updates) --

Version 15.6.10 modifiée le 14/12/2022

révision cf12489e9fcc - branche 'v15'

Copyright EDF R&D 1991 - 2025

Exécution du : Thu Jan 16 14:56:23 2025

Type de processeur : x86_64

Langue des messages : en (UTF-8)

Version de Python: 3.8.10

Version de NumPy: 1.17.4

Parallélisme MPI: actif

Rang du processeur courant : 0

Nombre de processeurs utilisés : 1

Parallélisme OpenMP: actif

Nombre de processus utilisés : 1

Version de la librairie HDF5 : 1.10.3

Version de la librairie MED: 4.1.1

Version de la librairie MFront : 3.4.0

Version de la librairie MUMPS: 5.2.1

Version de la librairie PETSc : 3.12.3p0

Version de la librairie SCOTCH: 6.0.4

Mémoire limite pour l'exécution : 120000.00 Mo

consommée par l'initialisation : 484.88

Мо

reste pour l'allocation dynamique :

119515.12 Mo

Taille limite des fichiers d'échange : 2048.00 Go

<frozen importlib._bootstrap>:219: ImportWarning: can't resolve package from

__spec__ or __package__, falling back on __name__ and __path__

```
DeprecationWarning: PY_SSIZE_T_CLEAN will be required for '#' formats
  libaster.jeveux_init()
Found the comm-file: post.comm
Original directory for logging was found:
.. _stg1_txt125
# Commande #0001 de ligne 125
POURSUITE(CODE='NON',
          DEBUG=_F(JEVEUX='NON',
                   JXVERI='NON',
                   SDVERI='NON',
                    VERI_BASE_NB=125),
          IGNORE_ALARM=('SUPERVIS_1', 'ALGORITH11_87'),
          IMPR_MACRO='NON',
          INFO=1,
          LANG='en',
          MEMOIRE=_F(TAILLE_BLOC=800.0,
                      TAILLE_GROUP_ELEM=1000),
          MESURE_TEMPS=_F(MOYENNE='NON',
                           NIVE_DETAIL=1),
          RESERVE_CPU=_F(BORNE=900))
restarting from a previous execution...
Initial value of maximum time CPU = 35996400 second
 Valeur of the maximum time CPU placed to the orders = 35995500 second
 Réserve CPU envisaged = 900 seconds
```

Ouverture en lecture du fichier ./glob.1

Ajustement de la taille maximale des bases à 2048.00 Go.

Nom de la base : GLOBALE

Créée avec la version : 15.06.10

Nombre d'enregistrements utilisés : 2103

Nombre d'enregistrements maximum : 2684354

Nombre d'enregistrements par fichier : 15728

Longueur d'enregistrement (octets) : 819200

Nombre d'identificateurs utilisés : 77943

Taille maximum du répertoire : 128000

Pourcentage d'utilisation du répertoire : 60 %

Ouverture en lecture du fichier ./glob.1

Ouverture en écriture du fichier ./vola.1

End of reading (lasted 0.000002 S.)

DeprecationWarning: PY_SSIZE_T_CLEAN will be required for '#' formats

libaster.call_poursuite(syntax)

Restored objects:

pi <class 'float'>

e <class 'float'>

tau <class 'float'>

inf <class 'float'>

nan <class 'float'>

MAT_0 <class 'libaster.Material'>

MESH <class 'libaster.Mesh'>

MODEL <class 'libaster.Model'>

MATS <class 'libaster.MaterialField'>

INIT_U <class 'libaster.FieldOnNodesReal'>

INIT_A <class 'libaster.FieldOnNodesReal'>

```
F_0
                      <class 'libaster.Formula'>
F_1
                      <class 'libaster.Formula'>
F_2
                      <class 'libaster.Formula'>
BC 0
                       <class 'libaster.MechanicalLoadReal'>
BC 1
                       <class 'libaster.MechanicalLoadFunction'>
BC<sub>2</sub>
                       <class 'libaster.MechanicalDirichletBC'>
TIMELIST
                      <class 'libaster.ListOfFloats'>
INSTLIST
                      <class 'libaster.TimeStepper'>
SIM
                       <class 'libaster.NonLinearResult'>
# Mémoire (Mo): 2075.48 / 2075.48 / 1542.24 / 199.03 (VmPeak / VmSize /
Optimum / Minimum)
# Fin commande #0001 user+syst:
                                    0.48s (syst:
                                                    1.80s, elaps:
2.27s)
# -----
.. _stg1_txt19
______
# Commande #0002 de fort.1, ligne 19
MODEL = MODI_MODELE(DISTRIBUTION=_F(METHODE='CENTRALISE'),
                  MODELE=MODEL,
                  reuse=MODEL)
# Résultat commande #0002 (MODI_MODELE): MODEL ('<00000003>') de type
<Model>
# Dépend de :
# - MESH ('<00000002>') de type <Mesh>
# Mémoire (Mo): 2075.48 / 2075.46 / 1542.24 / 199.03 (VmPeak / VmSize /
Optimum / Minimum)
```

```
# Fin commande #0002
                      user+syst:
                                      0.00s (syst:
                                                       0.00s, elaps:
0.00s)
# -----
.. _stg1_txt28
# Commande #0003 de fort.1, ligne 28
SIM = CALC_CHAMP(CONTRAINTE='SIGM_NOEU',
                CRITERE='RELATIF',
                CRITERES='SIEQ_NOEU',
                DEFORMATION='EPSG_NOEU',
                GROUP_MA=('face1', 'face2', 'face3', 'region1'),
                INFO=1,
                PARALLELISME_TEMPS='NON',
                PRECISION=1e-06,
                RESULTAT=SIM,
                reuse=SIM)
#2
        Calculs elementaires et assemblages
                                                     CPU
(USER+SYST/SYST/ELAPS):
                           71.84
                                    12.22
                                             71.29
#3
        Dechargement de la memoire sur disque
                                                       CPU
                                              4.70
(USER+SYST/SYST/ELAPS):
                            4.66
                                     3.74
# Résultat commande #0003 (CALC_CHAMP): SIM ('<0000000f>') de type
<NonLinearResult>
# Dépend de :
# - TIMELIST ('<0000000d>') de type <ListOfFloats>
# - MATS ('<00000004>') de type <MaterialField>
# - BC_0 ('<0000000a>') de type <MechanicalLoadReal>
```

```
# - BC_1 ('<000000b>') de type <MechanicalLoadFunction>
# - BC_2 ('<0000000c>') de type <MechanicalDirichletBC>
# - INSTLIST ('<0000000e>') de type <TimeStepper>
# - MODEL ('<0000003>') de type < Model>
# Mémoire (Mo): 8225.65 / 2037.60 / 7484.29 / 231.07 (VmPeak / VmSize /
Optimum / Minimum)
# Fin commande #0003 user+syst:
                                   135.72s (syst:
                                                   29.77s, elaps:
165.57s)
.. _stg1_txt38
# -----
# Commande #0004 de fort.1, ligne 38
MESH_PP = CREA_MAILLAGE(INFO=1,
                      MAILLAGE=MESH,
                      RESTREINT=_F(GROUP_MA='region1',
                                  TOUT_GROUP_MA='NON',
                                  TOUT_GROUP_NO='NON'))
Vérification du maillage.
----- MAILLAGE 00000010 - IMPRESSIONS NIVEAU 1 ------
ASTER 15.06.10 CONCEPT 00000010 CALCULE LE 16/01/2025 A 14:59:11 DE TYPE
MAILLAGE_SDASTER
NOMBRE DE NOEUDS
                                        848
NOMBRE DE MAILLES
                                      3884
                           TETRA4
                                               3884
NOMBRE DE GROUPES DE MAILLES
                                          1
```

region1

3884

```
DeprecationWarning: PY_SSIZE_T_CLEAN will be required for '#' formats
 return libaster.call_oper(syntax, 0)
# Résultat commande #0004 (CREA_MAILLAGE): MESH_PP ('<00000010>') de type
<Mesh>
# Dépend de :
# - MESH ('<00000002>') de type <Mesh>
# Mémoire (Mo): 8225.65 / 2038.04 / 7484.29 / 231.07 (VmPeak / VmSize /
Optimum / Minimum)
# Fin commande #0004 user+syst:
                                    0.01s (syst:
                                                    0.00s, elaps:
0.01s)
# -----
.. _stg1_txt46
_____
# Commande #0005 de fort.1, ligne 46
MOD_PP = AFFE_MODELE(AFFE=(_F(MODELISATION='3D',
                           PHENOMENE='MECANIQUE',
                           TOUT='OUI'),
                        _F(GROUP_MA='region1',
                           MODELISATION='3D',
                           PHENOMENE='MECANIQUE')),
                   DISTRIBUTION=_F(METHODE='SOUS_DOMAINE',
                                 PARTITIONNEUR='METIS'),
                   INFO=1,
                   MAILLAGE=MESH_PP,
```

VERI_JACOBIEN='OUI',

VERI_NORM_IFS='OUI')

Sur les 3884 mailles du maillage 00000010, on a demandé l'affectation de 3884, on a pu en affecter

3884.

Modélisation	Formulation	Туре	maille	Élément	fini	Nombre	
3D	_	TE	TRA4	MEC	CA_TETRA	.4	3884
#2 Calculs (USER+SYST/SYS	elementaires et ST/ELAPS):	assembla 0.00	ges 0.00	0.00	CPU		
# Résultat commande #0005 (AFFE_MODELE): MOD_PP ('<00000011>') de type <model></model>							эe
# Dépend de :							
# - MESH_PP ('<	:00000010>') de	type <me< td=""><td>esh></td><td></td><td></td><td></td><td></td></me<>	esh>				
# Mémoire (Mo) : 8225.65 / 2039.95 / 7484.29 / 231.07 (VmPeak / VmSize / Optimum / Minimum)							
# Fin commande 0.02s)	e #0005 user+	⊦syst:	0.02	?s (syst:	0.0	00s, elaps	S:
#							
stg1_txt63							
#							
# Commande #0006 de fort.1, ligne 63							
SIM_PP = EXTR_RESU(ARCHIVAGE=_F(CRITERE='RELATIF',							
'SIEQ_NOEU', 'SI	gm_noeu', 'vit		1_CHAM	=('ACCE',	'DEPL', 'E	EPSG_NO	EU',
		PAS_	ARCH=1	_ ,			
		PREC	CISION=	1e-06),			

INFO=1,

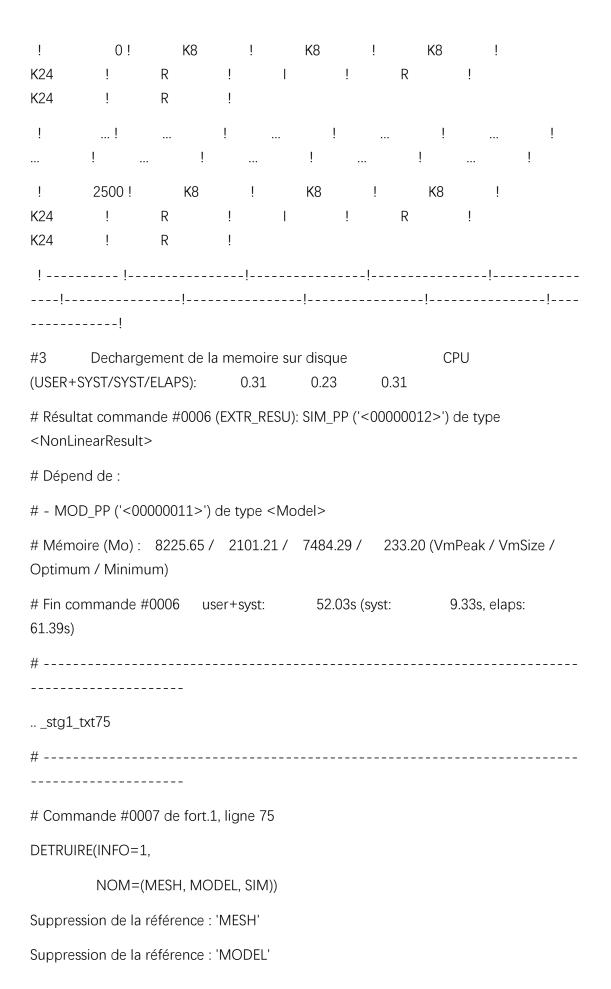
RESTREINT=_F(MODELE=MOD_PP),

RESULTAT=SIM)

STRUCTURE D	U CONC	EPT 00000	012 CAL	CULE POUF	?	2501 NUM	MEROS	
LISTE DES NO	ms syme	BOLIQUES:						
!!				!	!		!	
!		!		!		·!		

!!					
! NUME_ORDRE! DEPL ! VITE ! ACCE ! SIGM_NOEU ! SIEQ_NOEU ! EPSG_NOEU ! COMPORTEMENT !					
!!!!					
!!					
! O! DEPL_R ! DEPL_R ! DEPL_R !					
SIEF_R ! SIEF_R ! COMPOR !					
!! ! ! !					
! !					
! 2500! DEPL_R ! DEPL_R ! DEPL_R !					
SIEF_R ! SIEF_R ! EPSI_R ! COMPOR !					
!!!!					
!!					
LISTE DES NOMS DE VARIABLES D'ACCES:					
INST DE TYPE R					
LISTE DES NOMS DE PARAMETRES:					
!!!					
!!!!!!					
!					
! NUME_ORDRE! CARAELEM ! CHAMPMAT ! MODELE !					
EXCIT ! ETA_PILOTAGE ! ITER_GLOB ! CHAR_MINI ! TRAN_GENE_NOLI! INST_PREC !					
·					

-----!



```
Suppression de la référence : 'SIM'
# Mémoire (Mo): 8225.65 / 2101.21 / 7484.29 / 233.20 (VmPeak / VmSize /
Optimum / Minimum)
# Fin commande #0007 user+syst:
                                  0.03s (syst:
                                                0.00s, elaps:
0.03s)
# -----
.. _stg1_txt81
# -----
# Commande #0008 de fort.1, ligne 81
IMPR_RESU(FORMAT='MED',
        INFO=1,
        RESU=(_F(IMPR_NOM_VARI='OUI',
                INFO_MAILLAGE='NON',
                NOM_CHAM='DEPL',
                NOM_CHAM_MED='displacement',
                NOM_CMP=('DX', 'DY', 'DZ'),
                RESULTAT=SIM_PP),
             _F(IMPR_NOM_VARI='OUI',
                INFO_MAILLAGE='NON',
                NOM_CHAM='SIGM_NOEU',
                NOM_CHAM_MED='cauchy stress',
                NOM_CMP=('SIXX', 'SIYY', 'SIZZ', 'SIXY', 'SIXZ', 'SIYZ'),
                RESULTAT=SIM_PP),
             _F(IMPR_NOM_VARI='OUI',
                INFO_MAILLAGE='NON',
                NOM_CHAM='SIEQ_NOEU',
```

```
NOM_CMP='VMIS',
                   RESULTAT=SIM_PP),
                F(IMPR_NOM_VARI='OUI',
                   INFO_MAILLAGE='NON',
                   NOM_CHAM='EPSG_NOEU',
                   NOM_CHAM_MED='total nonlinear strain',
                   NOM_CMP=('EPXX', 'EPYY', 'EPZZ', 'EPXY', 'EPXZ', 'EPYZ'),
                   RESULTAT=SIM_PP),
                _F(IMPR_NOM_VARI='OUI',
                   INFO_MAILLAGE='NON',
                   NOM_CHAM='VITE',
                   NOM_CHAM_MED='velocity',
                   NOM_CMP=('DX', 'DY', 'DZ'),
                   RESULTAT=SIM_PP),
                _F(IMPR_NOM_VARI='OUI',
                   INFO_MAILLAGE='NON',
                   NOM_CHAM='ACCE',
                   NOM_CHAM_MED='acceleration',
                   NOM_CMP=('DX', 'DY', 'DZ'),
                   RESULTAT=SIM_PP)),
          UNITE=80,
          VERSION_MED='3.3.1')
Création du fichier au format MED 3.3.1.
# Mémoire (Mo): 8225.65 / 1627.03 / 7484.29 / 233.20 (VmPeak / VmSize /
Optimum / Minimum)
# Fin commande #0008
                                       16.44s (syst:
                                                          1.72s, elaps:
                       user+syst:
```

NOM_CHAM_MED='von Mises stress',

```
18.21s)
.. _stg1_txt126
_____
# Commande #0009 de fort.1, ligne 126
FIN(INFO_RESU='NON',
    PROC0='OUI',
    RETASSAGE='NON')
Saving objects...
                            <class 'float'>
рi
                             <class 'float'>
е
                            <class 'float'>
tau
                           <class 'float'>
inf
                             <class 'float'>
nan
MAT_0
                             <class 'libaster.Material'>
MATS
                              <class 'libaster.MaterialField'>
INIT_U
                            <class 'libaster.FieldOnNodesReal'>
                            <class 'libaster.FieldOnNodesReal'>
INIT_A
F 0
                            <class 'libaster.Formula'>
F_1
                            <class 'libaster.Formula'>
F_2
                            <class 'libaster.Formula'>
BC 0
                             <class 'libaster.MechanicalLoadReal'>
BC_1
                             <class 'libaster.MechanicalLoadFunction'>
BC 2
                             <class 'libaster.MechanicalDirichletBC'>
TIMELIST
                            <class 'libaster.ListOfFloats'>
```

```
INSTLIST
                          <class 'libaster.TimeStepper'>
                            <class 'libaster.Mesh'>
MESH_PP
MOD_PP
                             <class 'libaster.Model'>
SIM PP
                           <class 'libaster.NonLinearResult'>
  | <|> <CATAMESS_89>
  List of warnings emitted during the execution of computation.
     Warnings which you chose to ignore of are preceded by (*).
     Number of occurrences for each warning:
                no warning
 Concepts de la base: G
    Nom
                Type
                                       Taille (Mo)
                                                          Nombre
                                                                         Nombre
de
```

				d'objets	segments
070	TOTAL		735.18	75336	
879	00000001	MATER_SDASTER	0.00	9	
9	0000001	WATER_SDASTER	0.00	J	
67	00000002	MAILLAGE_SDASTER	0.44	38	
67	00000003	MODELE_SDASTER	0.19	9	
14		We 2 =====027.0	0.20	Ū	
14	00000004	CHAM_MATER	0.03	9	
	00000005	CHAM_NO_SDASTER	0.14	10	
12					
12	00000006	CHAM_NO_SDASTER	0.14	10	
	00000007	FORMULE	0.00	4	
4					
4	80000000	FORMULE	0.00	4	
	00000009	FORMULE	0.00	4	
4	0000000a	CHAR_MECA	0.03	32	
37	000000a	CHAILIVILCA	0.03	32	
27	0000000b	CHAR_MECA	0.04	32	
37	0000000c	CHAR_CINE_MECA	0.03	4	
4					
6	000000d	LISTR8_SDASTER	0.02	6	
J	0000000e	LIST_INST	0.02	9	9
	00000010	MAILLAGE_SDASTER	0.41	38	

14	00000011	MODELE_SDASTER	0.17	9
875		evol_noli	703.52	75061
0/3	&FOZERO		0.00	2
2	&I OZLKO		0.00	2
1	&&_NUM_C		0.00	1
4	&CATA.AC		0.00	2
3	&CATA.CL		0.62	1
11	&CATA.GD		0.19	4
4	&CATA.ME		0.22	2
19	&CATA.OP		0.32	4
1	&CATA.PH		0.00	1
4	&CATA.PR		0.00	2
42	&CATA.TE		28.61	17
4	&CATA.TH		0.01	2
11	&CATA.TM		0.01	7
3	0000000f		0.00	3

_

Nom de la base : GLOBALE

Nombre d'enregistrements utilisés : 2920

Nombre d'enregistrements maximum : 2684354

Nombre d'enregistrements par fichier : 15728

Longueur d'enregistrement (octets) : 819200

Nombre total d'accès en lecture : 94748

Volume des accès en lecture : 74021.88 Mo.

Nombre total d'accès en écriture : 48191

Volume des accès en écriture : 37649.22 Mo.

Nombre d'identificateurs utilisés : 195627

Taille maximum du répertoire : 256000

Pourcentage d'utilisation du répertoire : 76 %

Nom de la base : VOLATILE

Nombre d'enregistrements utilisés : 13836

Nombre d'enregistrements maximum : 2684354

Nombre d'enregistrements par fichier : 15728

Longueur d'enregistrement (octets) : 819200

Nombre total d'accès en lecture : 20325

Volume des accès en lecture : 15878.91 Mo.

Nombre total d'accès en écriture : 26167

Volume des accès en écriture : 20442.97 Mo.

Nombre d'identificateurs utilisés : 49892

Taille maximum du répertoire : 64000

Pourcentage d'utilisation du répertoire : 77 %

<!> <FIN> ARRET NORMAL DANS "FIN" PAR APPEL A "JEFINI".

<I> <FIN> MEMOIRE JEVEUX MINIMALE REQUISE POUR L'EXECUTION : 233.20 Mo

<I> <FIN> MEMOIRE JEVEUX OPTIMALE REQUISE POUR L'EXECUTION : 7484.29 Mo

<I> <FIN> MAXIMUM DE MEMOIRE UTILISEE PAR LE PROCESSUS LORS DE L'EXECUTION : 8225.65 Mo

<I> FERMETURE DES BASES EFFECTUEE

STATISTIQUES CONCERNANT L'ALLOCATION DYNAMIQUE :

TAILLE CUMULEE MAXIMUM : 7484 Mo.

TAILLE CUMULEE LIBEREE : 14754 Mo.

NOMBRE TOTAL D'ALLOCATIONS : 10827334

NOMBRE TOTAL DE LIBERATIONS : 10827334

APPELS AU MECANISME DE LIBERATION : 6

TAILLE MEMOIRE CUMULEE RECUPEREE : 11733 Mo.

VOLUME DES LECTURES : 4 Mo.

VOLUME DES ECRITURES : 11363 Mo.

MEMOIRE JEVEUX MINIMALE REQUISE POUR L'EXECUTION : 233.20 Mo

- IMPOSE DE NOMBREUX ACCES DISQUE
- RALENTIT LA VITESSE D'EXECUTION

MEMOIRE JEVEUX OPTIMALE REQUISE POUR L'EXECUTION: 7484.29 Mo

- LIMITE LES ACCES DISQUE
- AMELIORE LA VITESSE D'EXECUTION

MAXIMUM DE MEMOIRE UTILISEE PAR LE PROCESSUS : 8225.65 Mo

- COMPREND LA MEMOIRE CONSOMMEE PAR JEVEUX,

LE SUPERVISEUR PYTHON. LES LIBRAIRIES EXTERNES

<|> FIN D'EXECUTION LE : JE-16-JANV-2025 15:00:37

DeprecationWarning: PY_SSIZE_T_CLEAN will be required for '#' formats

libaster.jeveux_finalize(options)

Signature of pickled file :

94b4a1eb510aa327d4e43729b8e1bcaaf6e575af02303c6e714b7db09110ab0d

Signature of info file :

cba846e47273652f0060dd7152a279cf112e55d8d1b86bd1253142eb6da760f4

Signature of Jeveux database:

9fa451bdad7f86df7b04753208e6f72eda7ea3b72f4e0df5a9abaf809052edf0

* COMMAND : USER: SYSTEM: USER+SYS:

ELAPSED *

* POURSUITE : 0.48 : 1.80 : 2.28 : 2.27

*

* MODI_MODELE : 0.00 : 0.00 : 0.00 :

0.00 *

* CALC_CHAMP : 135.72 : 29.77 : 165.49 :

165.57 *

* CREA_MAILLAGE : 0.01 : 0.00 : 0.01 : 0.01

*

* AFFE_MODELE : 0.02 : 0.00 : 0.02 : 0.02

*

* EXTR RESU : 52.03 : 9.33 : 61.36 : 61.39 *

* DETRUIRE : 0.03 : 0.00 : 0.03 : 0.03 *

* IMPR_RESU : 16.44 : 1.72 : 18.16 : 18.21

*

* FIN : 0.27 : 0.29 : 0.56 : 0.59 *

* . check syntax : 0.02 : 0.00 : 0.02 : 0.01 *

* . fortran : 204.45 : 41.38 : 245.83 : 246.01 *

* TOTAL JOB : 205.41 : 48.80 : 254.21 : 254.42

*

Mémoire (Mo): 8225.65 / 926.28 / 7484.29 / 233.20 (VmPeak / VmSize /

Optimum / Minimum)

Fin commande #0009 user+syst: 0.27s (syst: 0.29s, elaps:

0.59s)

End of the Code_Aster execution

Code_Aster MPI exits normally

Exited

EXECUTION_CODE_ASTER_EXIT_12=0