

ERREU07 - Error messages during a Summarized prohibited

behavioral change:

This test validates the emission of an error message when one “continues” a nonlinear computation by changing constitutive law on certain elements.

Note: Some behavioral changes are authorized. This is checked in the test `zzzz258` (v1.01.258).

1 Principle of the test

This test is a data-processing test. It is used to validate the programming of the processing of key word ETAT_INIT and more particularly the routine vrcomp.f

to define the initial state of a nonlinear computation, the user has two possibilities: either

- it indicates a data structure evol_noli and a "time" in this evol_noli (key keys EVOL_NOLI + INST) or
- it gives 3 fields "isolated" from displacement, stresses and local variables (key keys DEPL, SIGM and VARI)

the programming is different to treat these two cases. This is why they are tested both.

The test emits the two following errors: !

```
-----
!!
<EXCEPTION> <CALCULEL5_42>!
!
! incompatible behaviors: VMIS_CINE_LINE and VMIS_ISOT_TRAC for the M1 mesh ! !
-----
!!

!!
<EXCEPTION> <CALCULEL3_49>!
!
! Error of use: !
! You want "to continue" a nonlinear computation (STAT_NON_LINE or DYNA_NON_LINE). !
! For that, you specify an initial state (key word ETAT_INIT/VARI=chvari). !
! For the computation of 1st time step, the field of the local variables used for the beginning of the step!
!
! is "chvari". !
! For the element carried by the M1 mesh, this field of local variables does not have the same number of! !
! local variables (7) that the number expected by the behavior chosen for computation (2). ! !
!
! There is thus a behavioral change for the M1 mesh!
! The code accepts behavioral change only in some very particular cases: !
! - LEMAITRE <->!
! - ELAS <- >!
! It does not seem that you are in this case. The execution is stopped. !
!
! Risks & advice: !
! Check the affected behavior on this mesh. !
-----
!
```