ERREU07 - Error messages during a prohibited behavioral change

Summary:

This test validates the emission of an error message when one “continues” a non-linear calculation by changing law of behavior 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 treatment of the keyword ETAT_INIT and more particularly the routine vrcomp.F

To define the initial state of a non-linear calculation, the user has two possibilities:

- either it indicates a structure of data evol_noli and a “moment” in this evol_noli (keywords EVOL_NOLI + INST)
- either it gives 3 fields “isolated” from displacement, constraints and variables internal (keywords 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>-----------------------------------------------!
! Error of use: !
! You want “to continue” a non-linear calculation (STAT_NON_LINE or DYNA_NON_LINE). !
! For that, you specify an initial state (keyword ETAT_INIT/VARI=chvari). !
! For the calculation of the 1st step of time, the field of the internal variables used for the beginning of the step! !
! is “chvari”. !
! For the element carried by the M1 mesh, this field of internal variables does not have the same number of! !
! internal variables (7) that the number expected by the behavior chosen for calculation (2) !
! !
! There is thus a behavioral change for the M1 mesh !
! The code accepts behavioral change only in some very particular cases: !
! - LEMAITRE <-> VMIS_ISOT_XXXX !
! - ELAS <-> XXXX !
! It does not seem that you are in this case. The execution is stopped. !
! !
! Risks & advices: !
! Check the affected behavior on this mesh. !
! --<EXCEPTION> <CALCULEL3_49>-----------------------------------------------!

---

Warning: The translation process used on this website is a "Machine Translation". It may be imprecise and inaccurate in whole or in part and is provided as a convenience.
Copyright 2020 EDF R&D - Licensed under the terms of the GNU FDL (http://www.gnu.org/copyleft/fdl.html)