ZZZZ258 - Validation of key word ETAT_INIT of STAT_NON_LINE

Summarized:

This test validates the behavior of the code when one “continues” a nonlinear computation by imposing an initial state to him (key word ETAT_INIT).
In particular, it is checked that certain alarms are emitted when one changes behavior on certain elements.

Note: The code must also emit a fatal error when the behavioral change is prohibited. This is checked in the test erreur07 (v1.01.260).

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 difficulty which one seeks to test here is that of a poursuite for which, one or more elements of the model “changes” behavior.

More precisely, the following situations are tested:
- the addition of new elements in the model
- the removal of elements in the model
- the following possibilities of changing behavior: “vmis
  - _cine_line” - > “vmis _cine_line” “vmis
  - _cine_line” - > “nothing ” (removal of elements) “vmis
  - _cine_line” - > “vmis _cine_line” “vmis
  - _isot_trac” - > “vmis _isot_line” “vmis
  - _isot_trac” - > “elas ” “vmis
  - _isot_line” - > “vmis _isot_trac” “elas
  - ” - > “vmis _cine_line” “nothing
  - ” - > “vmis _cine_line” (addition of elements) “nothing
  - ” - > “vmis _cine_line” (addition of elements)