Code_Aster

Titre : SUPV003 – Test du superviseur
Responsable : COURTOIS Mathieu

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11345782dc53

SUPV003 - Test of the supervisor

Summary:

This test does not have any physical meaning, it is only one data-processing test.
It makes it possible to check to it not regression of features of low level like coatings Python with routines FORTRAN.

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1   Problem of reference

Without object.

2   Reference solution

It is about a test of operation. There is no uncertainty on the expected behavior.

3   Modeling A

3.1   Characteristics of modeling

One tests accessible basic functions in space Python:

- `aster.get_option_dependency ()` : This function provides the options which must be known first to calculate a given option (i.e. dependences of this option).
- Internationalization of the messages: It is checked that the function of translation of `gettext` (function " `_()` ") is available, and that it turns over the translation expected for a simple chain. The result depends on `LANG=' EN'` in `BEGINNING`, good installation of the file `share/local/aster/en/LC_MESSAGES/aster_messages.mo` and of the good loading of this file by the module `i18n.py`.

4   Modeling B

4.1   Characteristics of modeling

This modeling checks that the assessment of emitted alarms is correctly sent towards the processor #0.
In `END`, each processor sends to the processor #0 the number of alarms emitted during the execution. Here, the processor #1 emits 2 alarms.
One coats the end with execution to start an error if one does not find two alarms expected.

5   Modeling D

5.1   Characteristics of modeling

This modeling checks the good performance of the functions of the module Python of Code_Aster. Primarily, in fact the functions make it possible to recover a copy of the values of certain concepts (functions, lists of realities, vectors and Jeveux collections) in space Python.
Commonplace concepts are created which one recovers the values then.
It is also checked that basic Python objects are well transmitted in continuation.

6   Modeling E

6.1   Characteristics of modeling

One tests in this modeling operation coatings Python of functions MPI like the utility function to recover the number of processors and the row or the communication of oneE character string.

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7   Summary of the results

Without object for a test of operation.