

ZZZZ307 - Data-processing validation of the parallelism of elementary calculations and the assemblies

Summary:

This test validates parallelism (data-processing) elementary calculations and assemblies. The interest of this test is to turn in version **parallel MPI** (on 4 processors for example). This test validates programming MPI but does not prove anything on the performances.

1 Principle of the test

This test validates parallelism (data-processing) elementary calculations and assemblies. The interest of this test is to turn in version **parallel MPI** (on 4 processors for example). This test validates programming MPI but does not prove anything on the performances.

It tests **all** combinations of the keywords:

- AFFE_MODELE/DISTRIBUTION/METHOD =
 - / 'CENTRALIZES'
 - / 'GROUP_ELEM'
 - / 'MAIL_CONTIGU'
 - / 'MAIL_DISPERSE'
 - / 'SOUS_DOMAINE'
- MATR_DISTRIBUE = 'YES' / 'NOT'
- ELIM_LAGR2 = 'YES' / 'NOT'
- Conditions kinematics:
 - / dualized (AFFE_CHAR_MECA)
 - / eliminated (AFFE_CHAR_CINE)
 - / "with horse" on several processors

It test also possibilities of "modification" of partitioning before carrying out a postprocessing (order MODI_MODELE).

2 Modeling A

2.1 Got results

The values all tested are of the values of not-regression.