Operator DEFI_PARTITION

1 Goal

This operator allows to carry out the partitioning of a model.

Product a structure of data sd_partit.
2 Syntax

sd_partit = DEFI_PARTITION {

  ◦ MODEL = model, [model]
  ◦ NBPART = nbpart, [I]
  ◦ METHOD = / 'KMETIS', / 'PMETIS', / 'SCOTCH TAPE', [DEFECT]
  ◦ NOM_GROUPE_MY = / 'SD', / ngma, [DEFECT] [TXM]
  ◦ INFORMATION = / 1 [DEFECT]
  ◦ / 2 [I]
}

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 2019 EDF R&D - Licensed under the terms of the GNU FDL (http://www.gnu.org/copyleft/fdl.html)
3 Operands

3.1 Operand MODEL

♦ MODEL  =  model

Name of the model with partitionner.

3.2 Operand METHOD

◊ METHOD  =  '/KMETIS' [DEFECT]
             'PMETIS'
             'SCOTCH TAPE'

Allows to define the partitionnor used.

Mongrel is developed per G. Karypis and V. KUMAR at the university from Minnesota, in Mineapolis:
http://www-users.cs.umn.edu/~karypis/metis
Two algorithms are available.

Scotch tape is developed at the University of Bordeaux-I by F. Pellegrini:
http://www.labri.fr/Perso/~pelegrin/scotch/scotch_fr.html

3.3 Operand NBPART

♦ NBPART  =  nbpart

Many under-fields wished by the user. The number of under-fields is an entirety equal to or higher than 2.

3.4 Operand NOM_GROUP_MA

◊ NOM_GROUP_MA  =  ngma

Allows to define the prefix of the names of the groups of meshes which will be created for each under-field by partitioning. By default, this one is 'SD'.
4 Example

```python
sd_partit = DEFI_PARTITION {
    MODEL = model
    NB_PART = 16,
    METHODE='SCOTCH',
}
```