

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',     [DEFECT]
                    / 'PMETIS',
                    / 'SCOTCH TAPE',
    ◇ NOM_GROUPE_MY  = / 'SD',         [DEFECT]
                    / ngma,           [TXM]
    ◇ INFORMATION    = / 1
[DEFECT]
                    / 2               [I]
)
```

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

```
sd_partit = DEFI_PARTITION (
    MODEL = model
    NB_PART = 16,
    METHODE=' SCOTCH',
)
```