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 = npart, [I] \\
  ◊ METHOD = / ‘KMETIS’, [DEFECT] \\
             / ‘PMETIS’, \\
             / ‘SCOTCH TAPE’, \\
  ◊ NOM_GROUPE_MY = / ‘SD’, [DEFECT] \\
                    / ngma, [TXM] \\
  ◊ INFORMATION = / 1 [DEFECT] \\
                   / 2 [I] \\
)

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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 partitionner used.

Mongrel is developed per G. Karypis and V. KUMAR at the university from Minnesota, in Minneapolis:
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’.

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4 Example

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