

## Operator DEFI\_PARTITION

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### 1 Goal

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

Product a structure of data `sd_partit`.

## 2 Syntax

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```
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

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### 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](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

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