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

```plaintext
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.

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3 Operands

3.1Operand MODEL

MODEL = model

Name of the model with partitionner.

3.2Operand 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

3.3Operand NBPART

NPART = nbpart

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

3.4Operand 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',
}
```