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 meshs 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',
                          )
```