

Procedure PRE_GMSH

1 Goal

To see a file of grid to format GMSH then to write it with the format *Aster*.

GMSH is a tool of modelling, grid and post treatment diffused under licence GNU LPG with the <http://www.geuz.org/gmsh/> address.

2 Syntax

```
PRE_GMSH      (
                ◇ UNITE_GMSH =          / 19,          [DEFECT]
                / unilec,                [I]
                ◇ UNITE_MAILLAGE =      / 20,          [DEFECT]
                / uniecr,                [I]
                )
```

3 Operands

3.1 Operand UNITE_GMSH

◇ UNITE_GMSH = unilec
Logical number of the file of result of GMSH (reading).

3.2 Operand UNITE_MAILLAGE

◇ UNITE_MAILLAGE = uniecr
Logical number of the file grid *Aster* (writing).

4 Use

PRE_GMSH can read files GMSH with the ASCII formats 1.0 and 2.0.

Notice

GMSH can read and write the grids with format MED. Format MED is thus to privilege.

In GMSH, the entities are numbered and sometimes named. During the second reading by PRE_GMSH, only the numbers are preserved.

All the groups of elements of numbers 1,2,... created in GMSH ("physical") are transformed into groups of meshes (GROUP_MA) bearing name GM1, GM2,...

On the level of the interface astk, the file of grid produced by GMSH (which gives him the extension .msh) is read again by PRE_GMSH on the logical unit 19 by default.

The generic type for the data of geometry is .datg (logical unit 16 by default).