Supported Versions	1
Subtype of	Serializable
Fields	The class is defined by the following fields:

ENTITY/OBJECT	VARIABLE	DESCRIPTION
integer		Version
integer	d	Space dimension (if equal to 0 no more fields)
integer	np	Number of mesh points
integer		Lowest mesh point index
double[d][np]	p	Mesh points
integer	nt	Number of element types (fives the number of repeats of the following fields)
string		Element type
integer	nep	Number of nodes per element
integer	ne	Number of elements
integer[ne][nep]	elem	Matrix of point indices for each element.
integer	ner	Number of parameter values per element
integer	nr	Number of parameter sets
double[nr][ner]	par	Matrix of parameter values
integer	ndom	Number of domain values
integer[ndom]	dom	Vector of domain labels for each element.
integer	nud	Number of up/down boundary relations
integer[nud]	ud	Matrix of integers stating domain numbers on upside and downside of the boundary

Description

The domain numbering for points, edges, and boundaries must start from 0 when defining a mesh through a COMSOL Multiphysics mesh file.

Example

The following displays a mesh with triangular elements on a unit square. Neither point or edge elements are present.

```
4 Mesh # class
2 # sdim
5 # number of mesh points
0 # lowest mesh point index
# Mesh point coordinates on unit square
0 0
1 0
1 1
```