The Typ2 mesh format

April 5, 2019

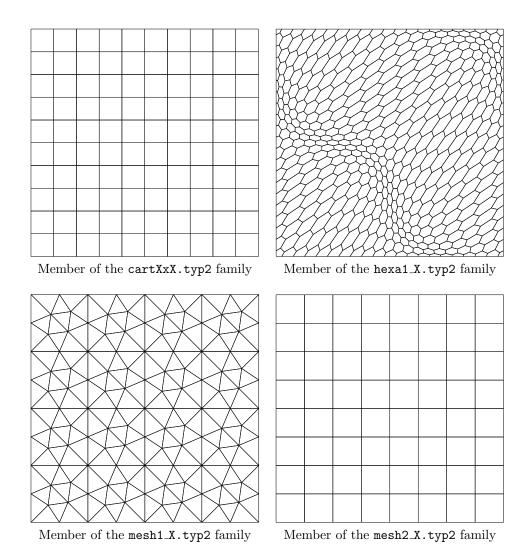
1 Description of typ2 format

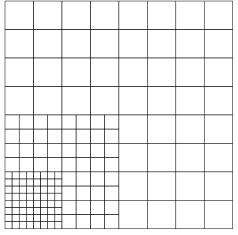
The typ2 mesh format was designed for the FVCA5 benchmark [1]. It describes a 2D mesh with generic polygonal cells in a txt file through the following elements:

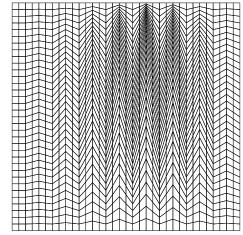
Note: for each cell, the vertices must be listed in counter-clockwise order.

2 Examples

Here are some examples of meshes in the directory.

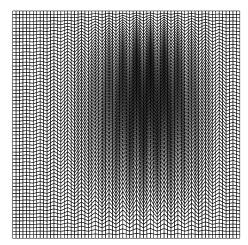




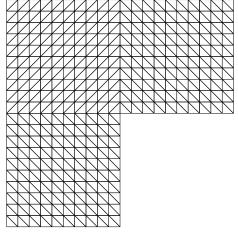


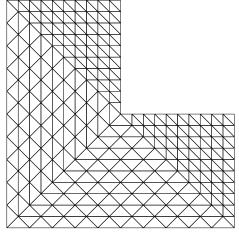
Member of the mesh3_X.typ2 family

Member of the ${\tt mesh4_1_X.typ2}$ family



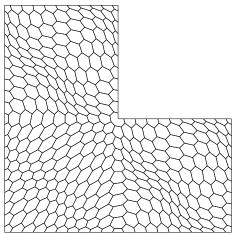
Member of the mesh4_2_X.typ2 family





Member of the Lshape_tri1_X.typ2 family

Member of the Lshape_triX.typ2 family



Member of the Lshape_hexaX.typ2 family

References

[1] R. Herbin, F. Hubert, Benchmark on discretization schemes for anisotropic diffusion problems on general grids, in Finite Volumes for Complex Applications V (ISTE, London, 2008), pp. 659–692. URL: http://www.i2m.univamu.fr/fvca5/benchmark/Meshes/index.html