

NAG Library Chapter Contents

d06 – Mesh Generation

d06 Chapter Introduction – a description of the Chapter and an overview of the algorithms available

Function Name	Mark of Introduction	Purpose
d06aac	7	nag_mesh2d_inc Generates a two-dimensional mesh using a simple incremental method
d06abc	7	nag_mesh2d_delaunay Generates a two-dimensional mesh using a Delaunay–Voronoi process
d06acc	7	nag_mesh2d_front Generates a two-dimensional mesh using an Advancing-front method
d06bac	7	nag_mesh2d_bound Generates a boundary mesh
d06cac	7	nag_mesh2d_smooth Uses a barycentering technique to smooth a given mesh
d06cbc	7	nag_mesh2d_sparse Generates a sparsity pattern of a Finite Element matrix associated with a given mesh
d06ccc	7	nag_mesh2d_renum Renumbers a given mesh using Gibbs method
d06dac	7	nag_mesh2d_trans Generates a mesh resulting from an affine transformation of a given mesh
d06dbc	7	nag_mesh2d_join Joins together two given adjacent (possibly overlapping) meshes
