

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 Renums 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 |
