

mainELASTOSTATIC.m

Mesh Generation
Using *Gid*.

Legend

Already Done

To Do

Preporcessing

Prepare Input Data

ReadInputDataFile.m

Finite Element Mesh (COOR,
CN, TypeElement, etc.)
Conductivity Matrices
Dirichlet Boundary Conditions
(Temperature)
Neumann Boundary Conditions
Body forces vector

Solver

SolveElastFE.m

Assembly of global K

Assembly of global Fs

Assembly of global Fbnd

Solving for Disp. and Force

ComputeKeMatrix.m

ComputeFseVector.m

ComputeFbndVector.m

SolveELAS.m

Compute
ElemShap
eFun.m

Postprocessing

GidPostProcess.m

Obtain Graphical
Results

This part is also
done using *Gid*.