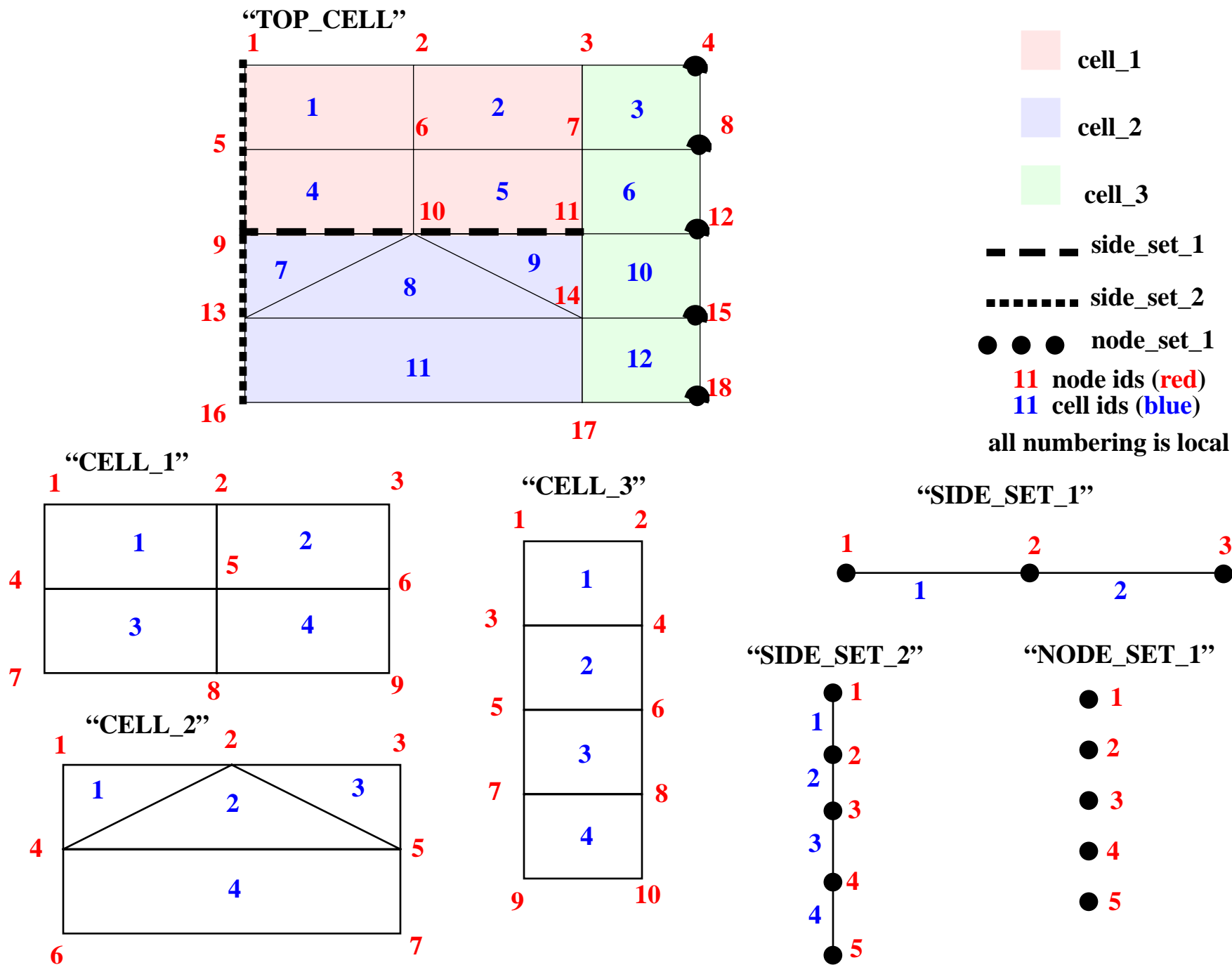


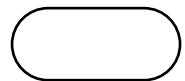
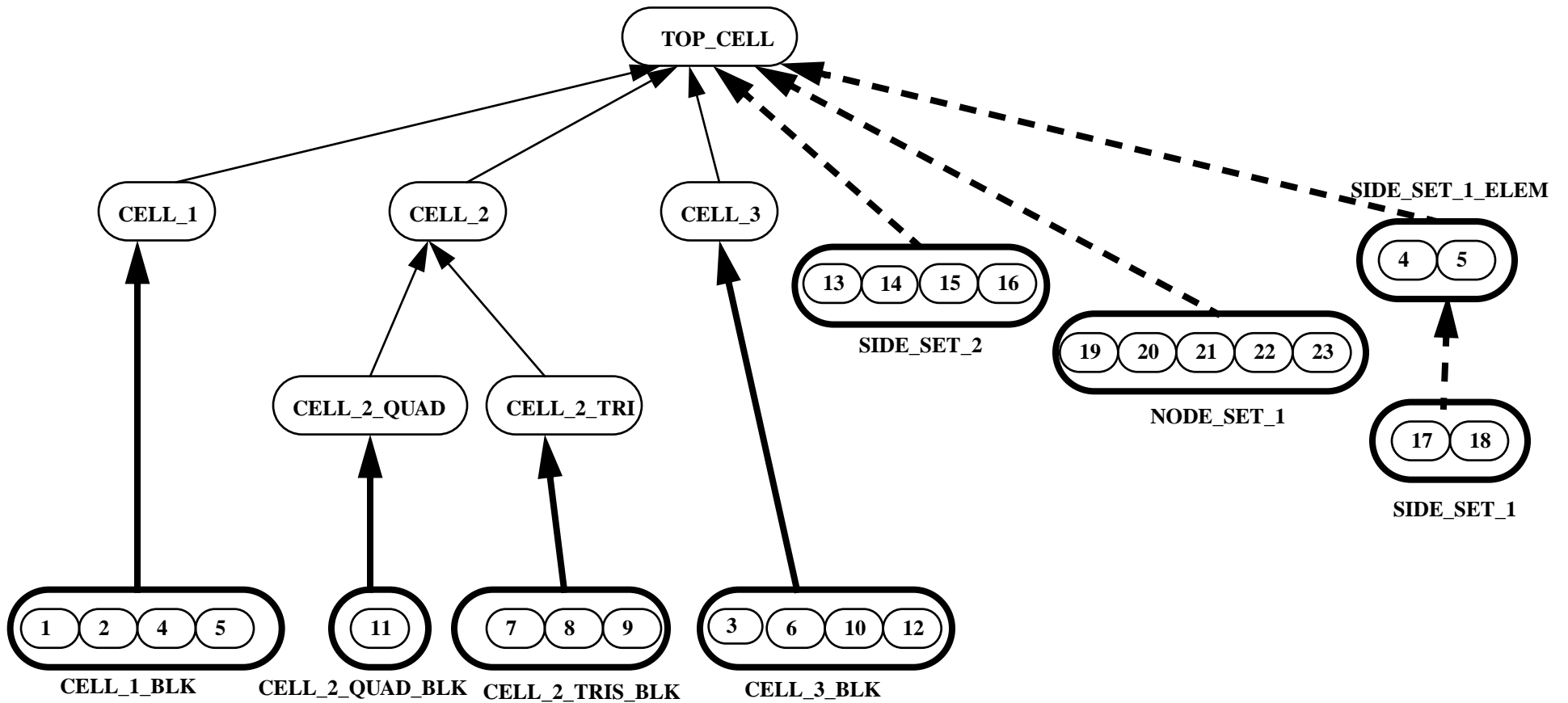
MESH:



DESIRED FIELDS:

coordinates on nodes of whole at t0
distribution factors on nodes of side_set_2 at t0
temperature on nodes of node_set_1 at t0
displacement vector on nodes of whole at t0, t1, t2
stress tensor on elements of cell_1 at t0, t1, t2
temperature on nodes of cell_2 at t0, t1, t2
pressure on elements of side_set_1 at t0, t1, t2

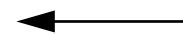
SUBSET INCLUSION LATTICE



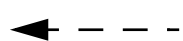
set



set array (homogeneous)



topological map



boundary map

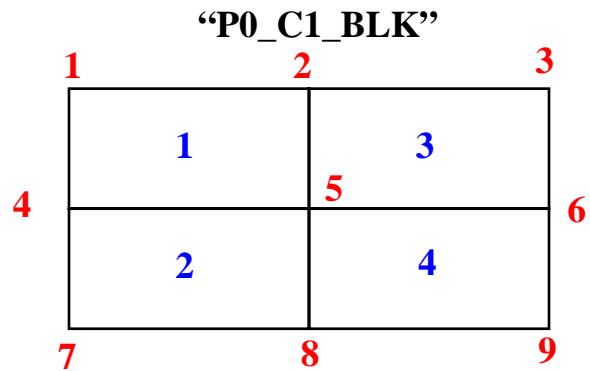
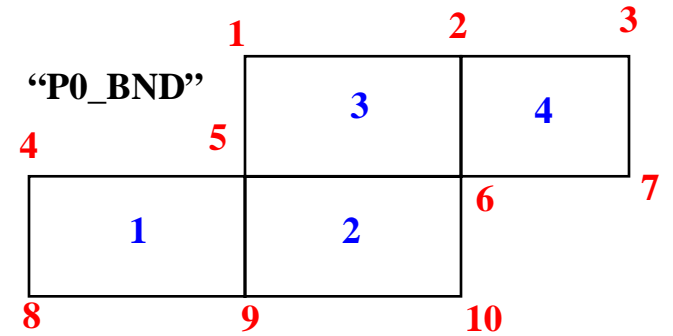
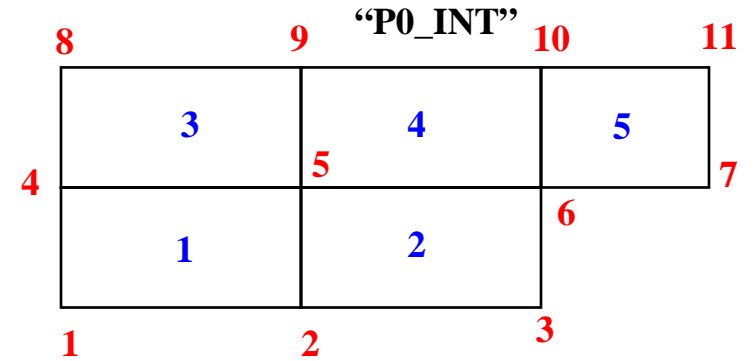
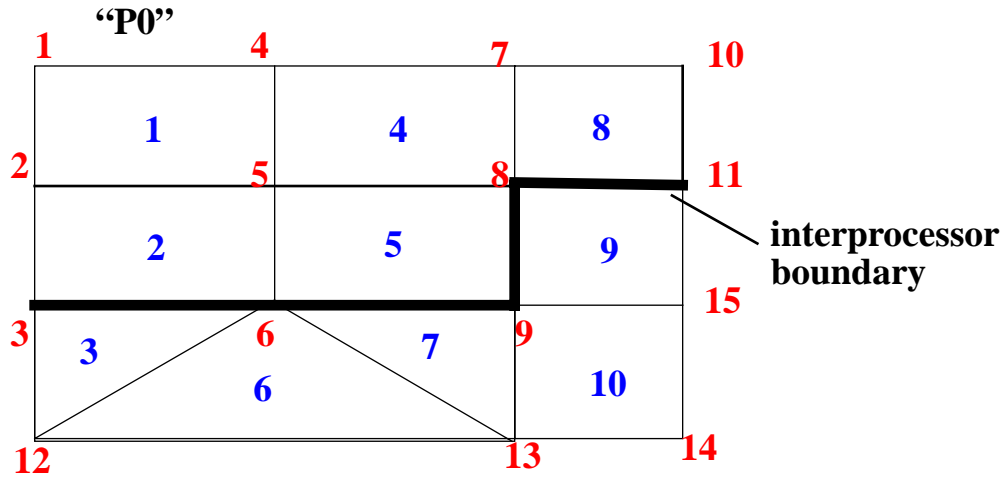


aggregated topological map



aggregated boundary map

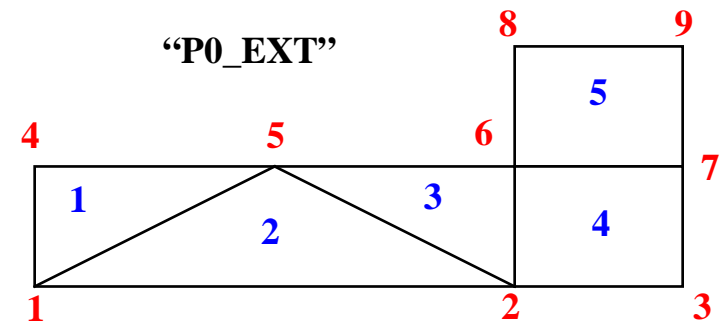
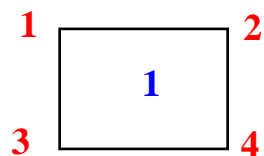
ELEMENT-BASED DOMAIN DECOMPOSITION::



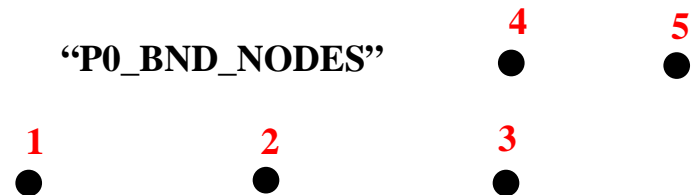
“P0_C2_QBLK”
(null)

“P0_C2_TBLK”
(null)

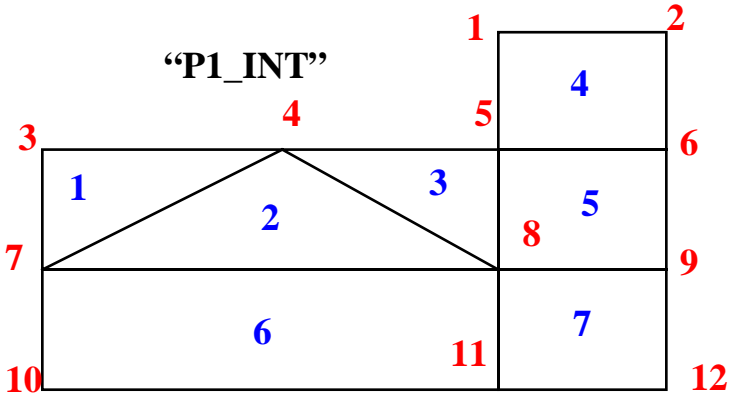
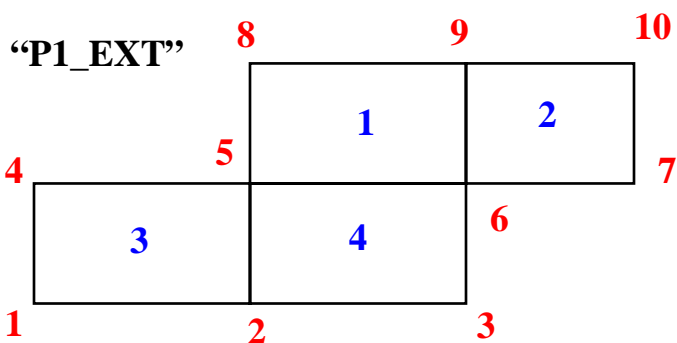
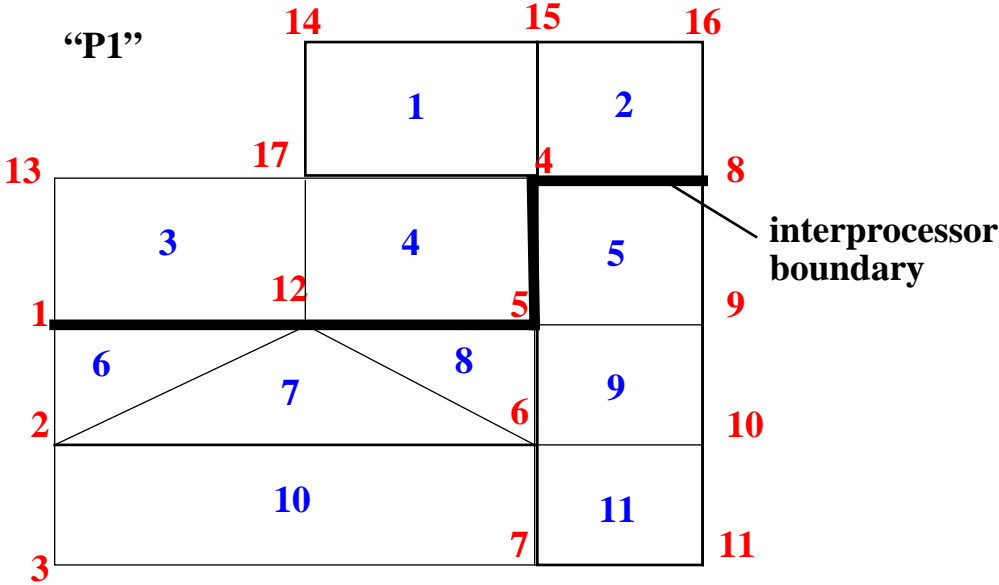
“P0_C3_BLK”



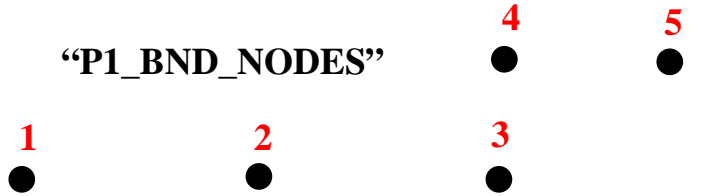
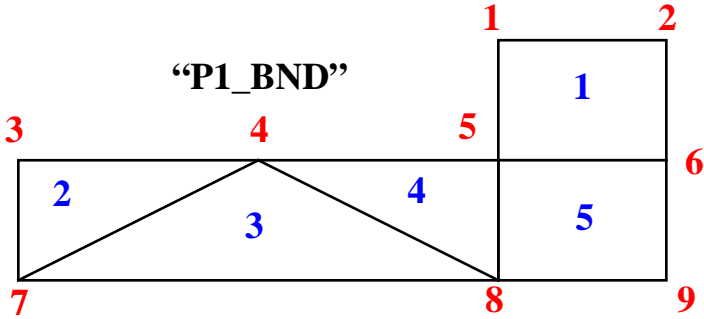
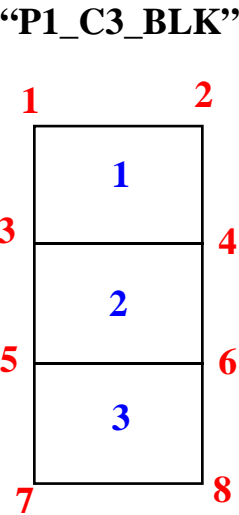
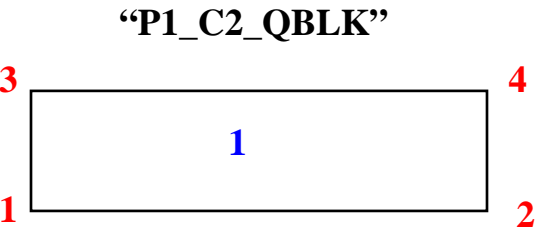
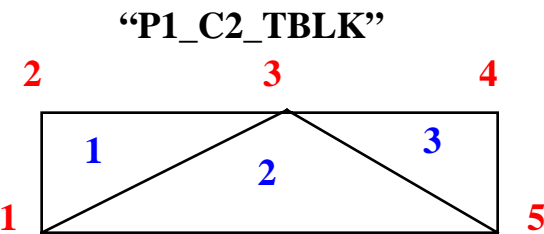
“P0_BND_NODES”



ELEMENT-BASED DOMAIN DECOMPOSITION (cont.)::



“P1_C1_BLK”
(null)



DESIRED DESCRIPTION:

element local-to-global map
node local-to-global map
element-based decomposition info
communication maps

SUBSET INCLUSION LATTICE (cont.)

