**Grid Statistics directly from VGRID:**

**Coarse tetrahedral node based:**

Boundary points = 95981

 Boundary faces = 191958

 Total number of points = 2964728

 Total number of cells = 17463974

**Coarse tetrahedral cell-centered:**

Boundary points = 48326

 Boundary faces = 96648

 Total number of points = 1344606

 Total number of cells = 7911804

**Medium tetrahedral node based:**

Boundary points = 270162

 Boundary faces = 540320

 Total number of points = 8996942

 Total number of cells = 53005018

**Medium tetrahedral cell-centered:**

Boundary points = 135057

 Boundary faces = 270110

 Total number of points = 4035870

 Total number of cells = 23750699

**Fine tetrahedral node based:**

Boundary points = 714239

 Boundary faces = 1428474

 Total number of points = 26772405

 Total number of cells = 157789810

**Fine tetrahedral cell-centered:**

Boundary points = 358071

 Boundary faces = 716138

 Total number of points = 11693608

 Total number of cells = 68850459

Mixed element grids were constructed by merging tetrahedral elements in the boundary layer into prisms. The merging reduces number of elements in the boundary layer by approximately factor of three.