**Grid Statistics directly from VGRID:**

**Coarse tetrahedral node based:**

Boundary points = 86833

 Boundary faces = 173662

 Total number of points = 3062010

 Total number of cells = 18037370

**Coarse tetrahedral cell-centered:**

Boundary points = 44071

 Boundary faces = 88138

 Total number of points = 1330779

 Total number of cells = 7832027

**Medium tetrahedral node based:**

Boundary points = 222941

 Boundary faces = 445878

 Total number of points = 9039647

 Total number of cells = 53256796

**Medium tetrahedral cell-centered:**

Boundary points = 110781

 Boundary faces = 221558

 Total number of points = 3828661

 Total number of cells = 22548643

**Fine tetrahedral node based:**

Boundary points = 567756

 Boundary faces = 1135508

 Total number of points = 27132368

 Total number of cells = 159871864

**Fine tetrahedral cell-centered:**

Boundary points = 283343

 Boundary faces = 566682

 Total number of points = 11196146

 Total number of cells = 65927616

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.