**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.