**Grid Statistics directly from VGRID:**

**Coarse tetrahedral node based:**

Boundary points = 196167

Boundary faces = 392330

Total number of points = 6523763

Total number of cells = 38468129

**Coarse tetrahedral cell-centered:**

Boundary points = 96913

Boundary faces = 193822

Total number of points = 2859581

Total number of cells = 16844567

**Medium tetrahedral node based:**

Boundary points = 486876

Boundary faces = 973748

Total number of points = 18349558

Total number of cells = 108226438

**Medium tetrahedral cell-centered:**

Boundary points = 237431

Boundary faces = 474858

Total number of points = 7838972

Total number of cells = 46200302

**Fine tetrahedral node based:**

Boundary points = 1223204

Boundary faces = 2446404

Total number of points = 51127997

Total number of cells = 301558858

**Fine tetrahedral cell-centered:**

Boundary points = 597565

Boundary faces = 1195126

Total number of points = 21510659

Total number of cells = 126826161

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.