**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.