**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.