**Grid Statistics directly from VGRID:**

**Coarse tetrahedral node based:**

Boundary points = 193592

Boundary faces = 387180

Total number of points = 6322777

Total number of cells = 37274955

**Coarse tetrahedral cell-centered:**

Boundary points = 100624

Boundary faces = 201244

Total number of points = 2903101

Total number of cells = 17093239

**Medium tetrahedral node based:**

Boundary points = 509326

Boundary faces = 1018648

Total number of points = 18970008

Total number of cells = 111845678

**Medium tetrahedral cell-centered:**

Boundary points = 254979

Boundary faces = 509954

Total number of points = 8296758

Total number of cells = 48885854

**Fine tetrahedral node based:**

Boundary points = 1337972

Boundary faces = 2675940

Total number of points = 56103683

Total number of cells = 330845815

**Fine tetrahedral cell-centered:**

Boundary points = 668533

Boundary faces = 1337062

Total number of points = 24052524

Total number of cells = 141763003

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.