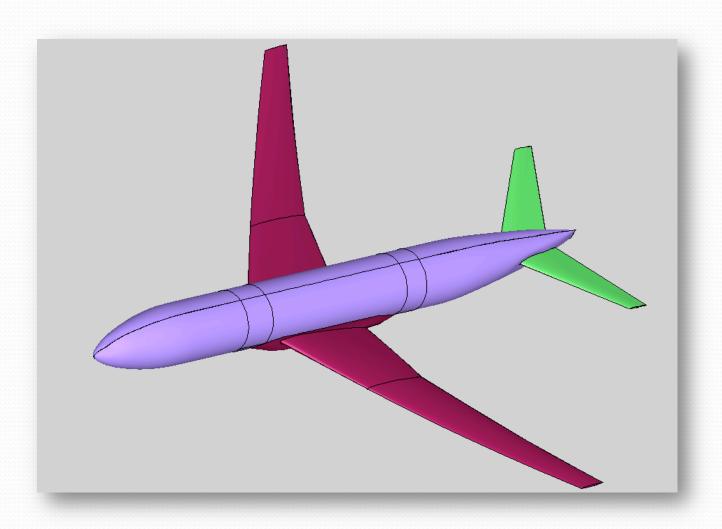
# **DPW4 Gridding Details**



### **Gridding Detail**

#### **Coarse Grid:**

Surface grid: 75,000 elements Volume grid: 3.5 M elements

Y + = 1

#### **Medium Grid 10M cells:**

Surface grid: 250,000 elements

Volume grid: 10 M elements

Y + = 2/3

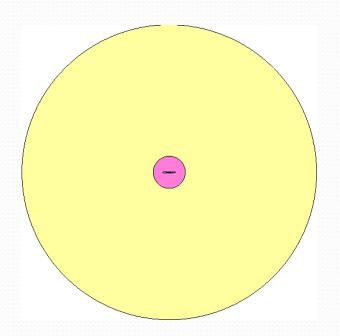
#### Fine Grid 25M cells:

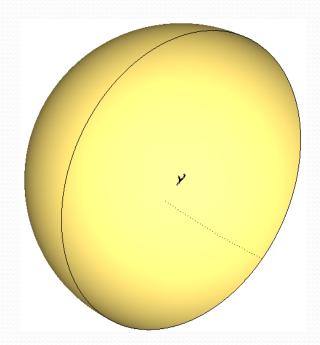
Surface grid: 1,600,000 elements

Volume grid: 25 M elements

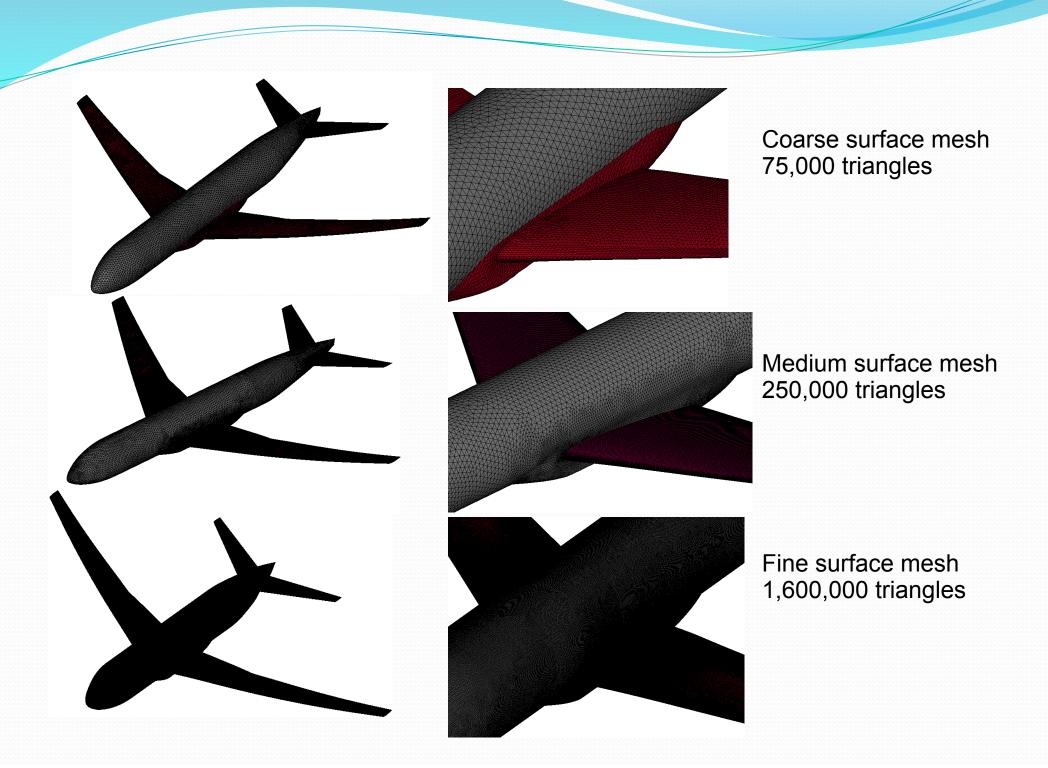
Y + = 4/9

### **Computational Domain**

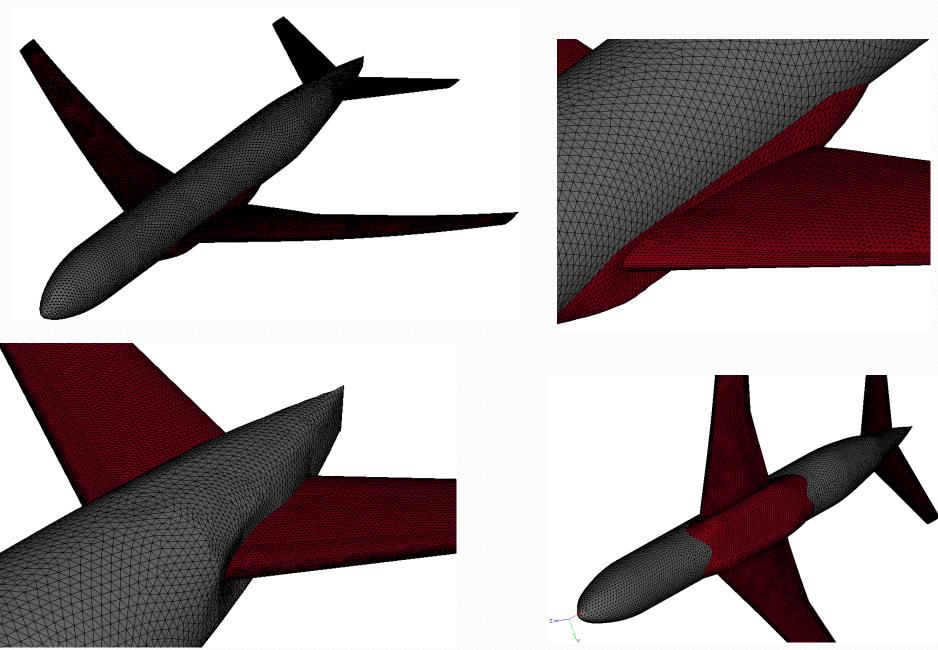




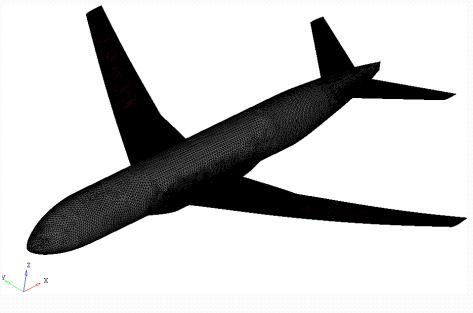
Outer hemispherical boundary is 100 times chord away form body

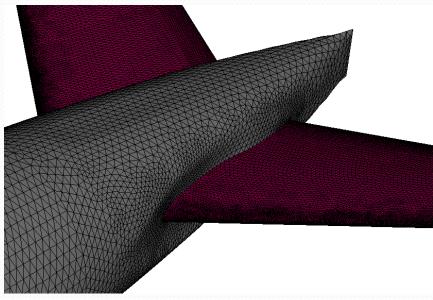


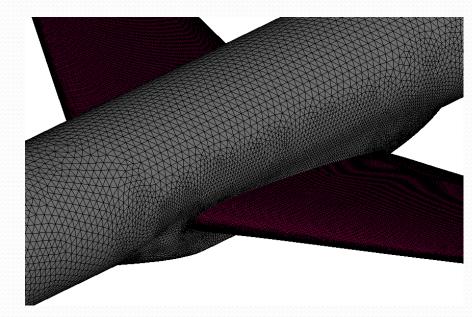
## Coarse surface grid

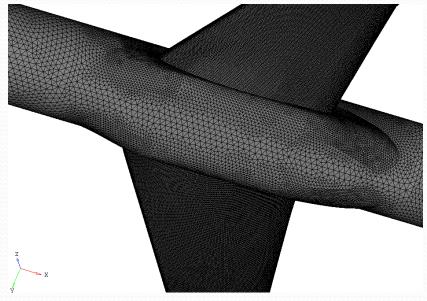


## Medium surface grid



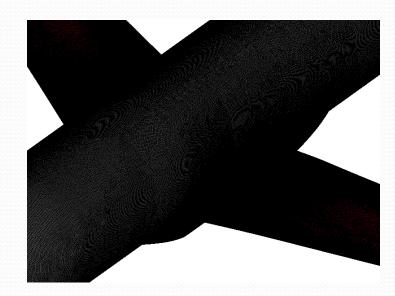






Fine surface grid

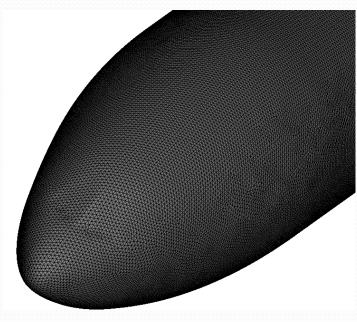


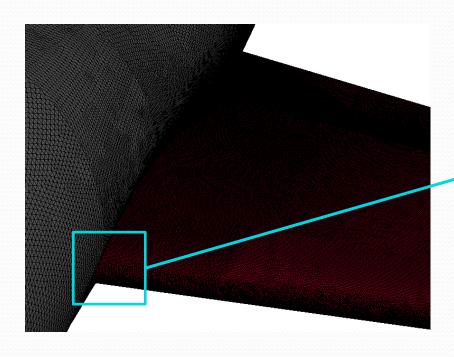


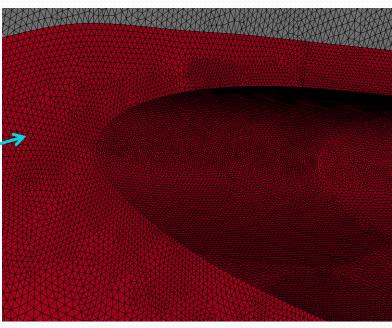




Surface grid for the fine case near the wing body junction and on the nose

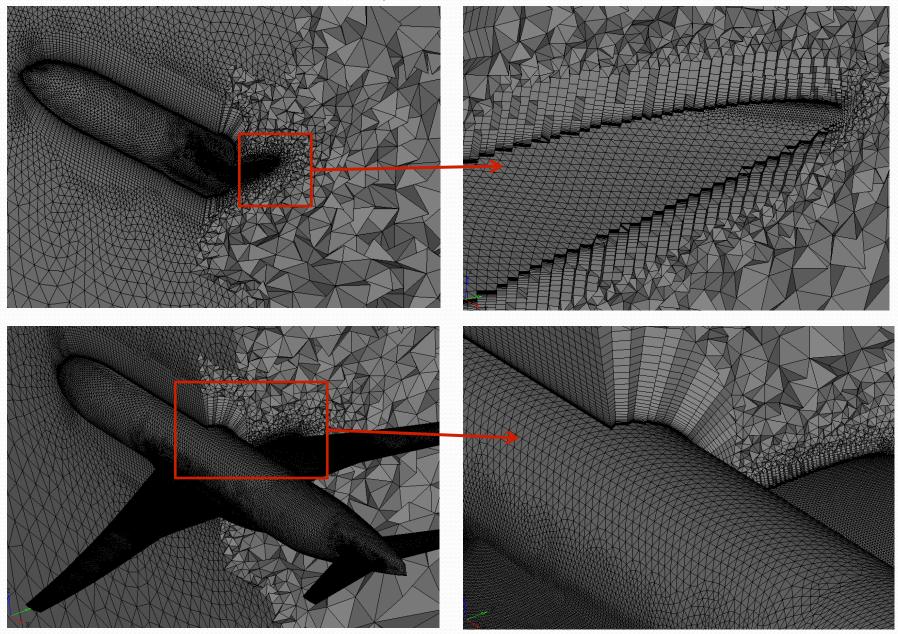






Fine volume grid with computational domain

Fine volume Grid with 25 M cells (Triangular prism near the wall and tetras away the wall)



### Boundary layer grid for fine case

