

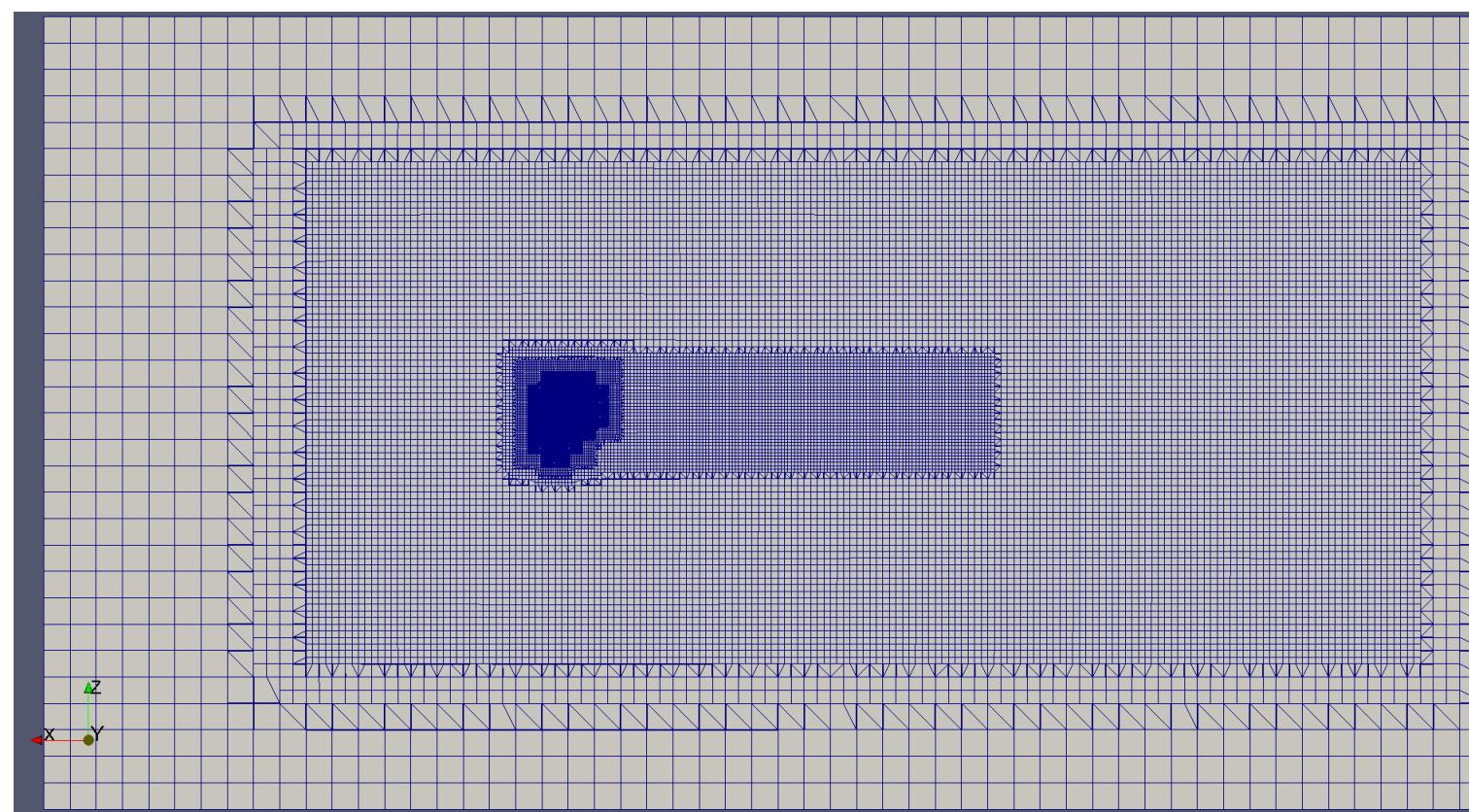
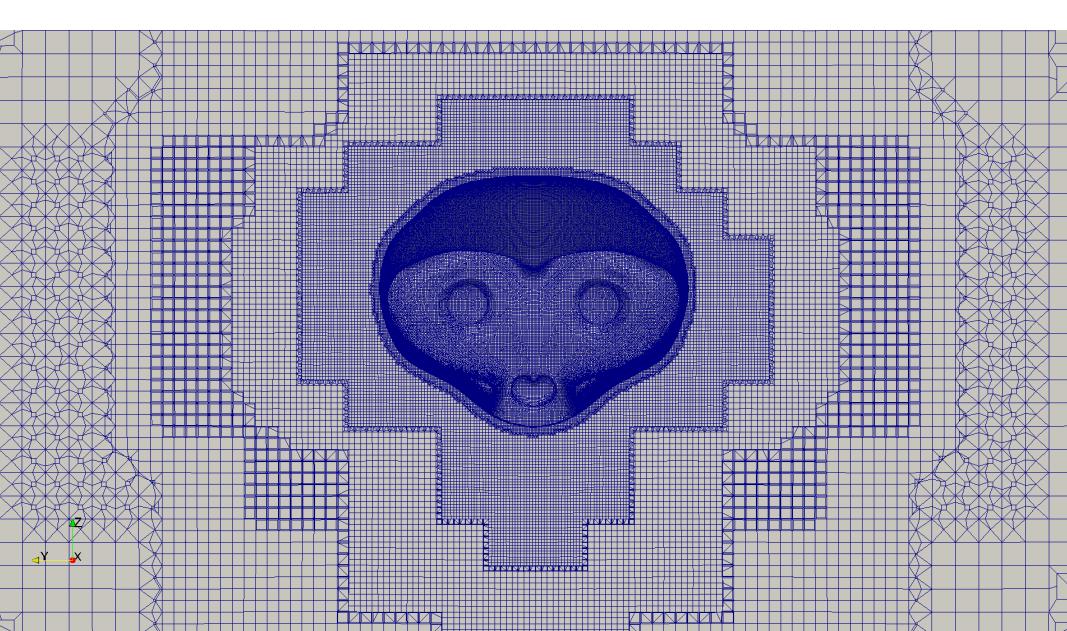
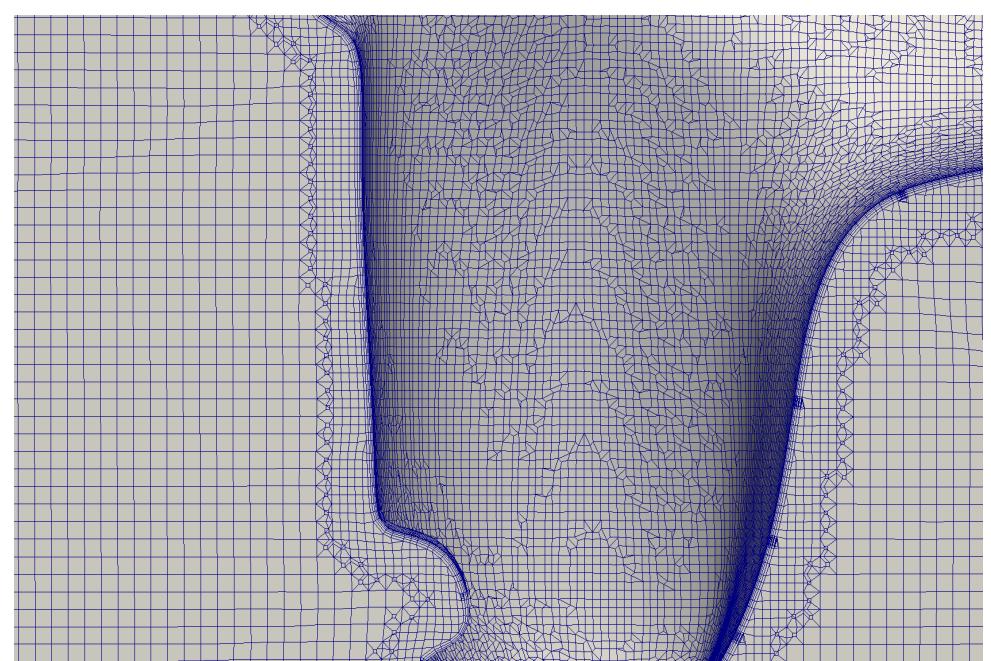
Drag prediction of monkey head «Suzanne»

Prytula A. V.
Lebedko A. V.

EXPERIMENTAL DESIGN OFFICE
«MOTOR SICH»

Ukraine, Zaporozhye
November, 2017

bronenosecponosec@gmail.com



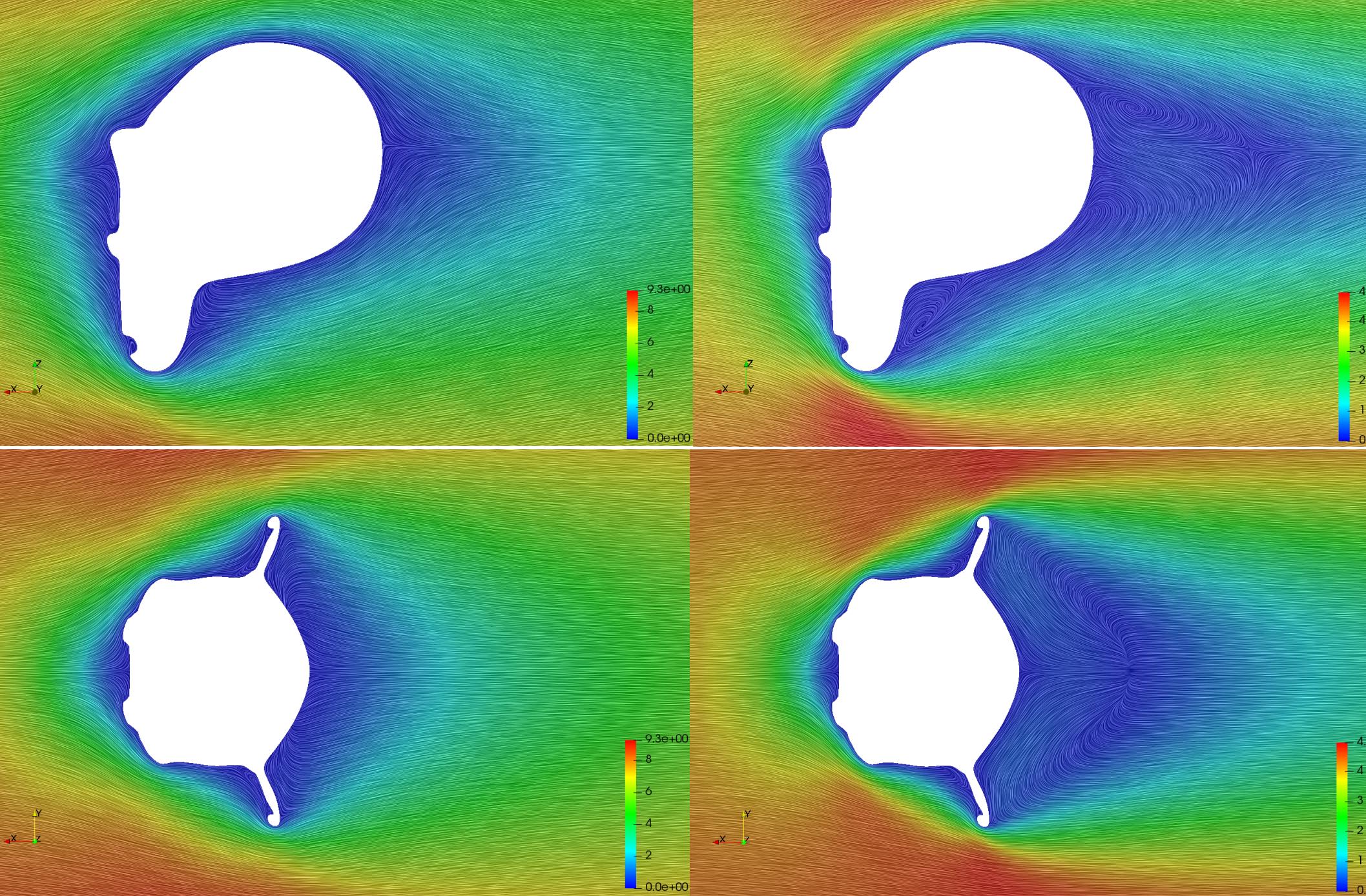
Mesh generated with
snappyHexMesh:

- blockMesh 60x30x30 m³
- 2 refinement regions
- 8 levels of refinement
- 3 boundary layers
- 98% layers coverage
- max cell skewness 2.2
- 4 599 272 cells

Solver: simpleFoam

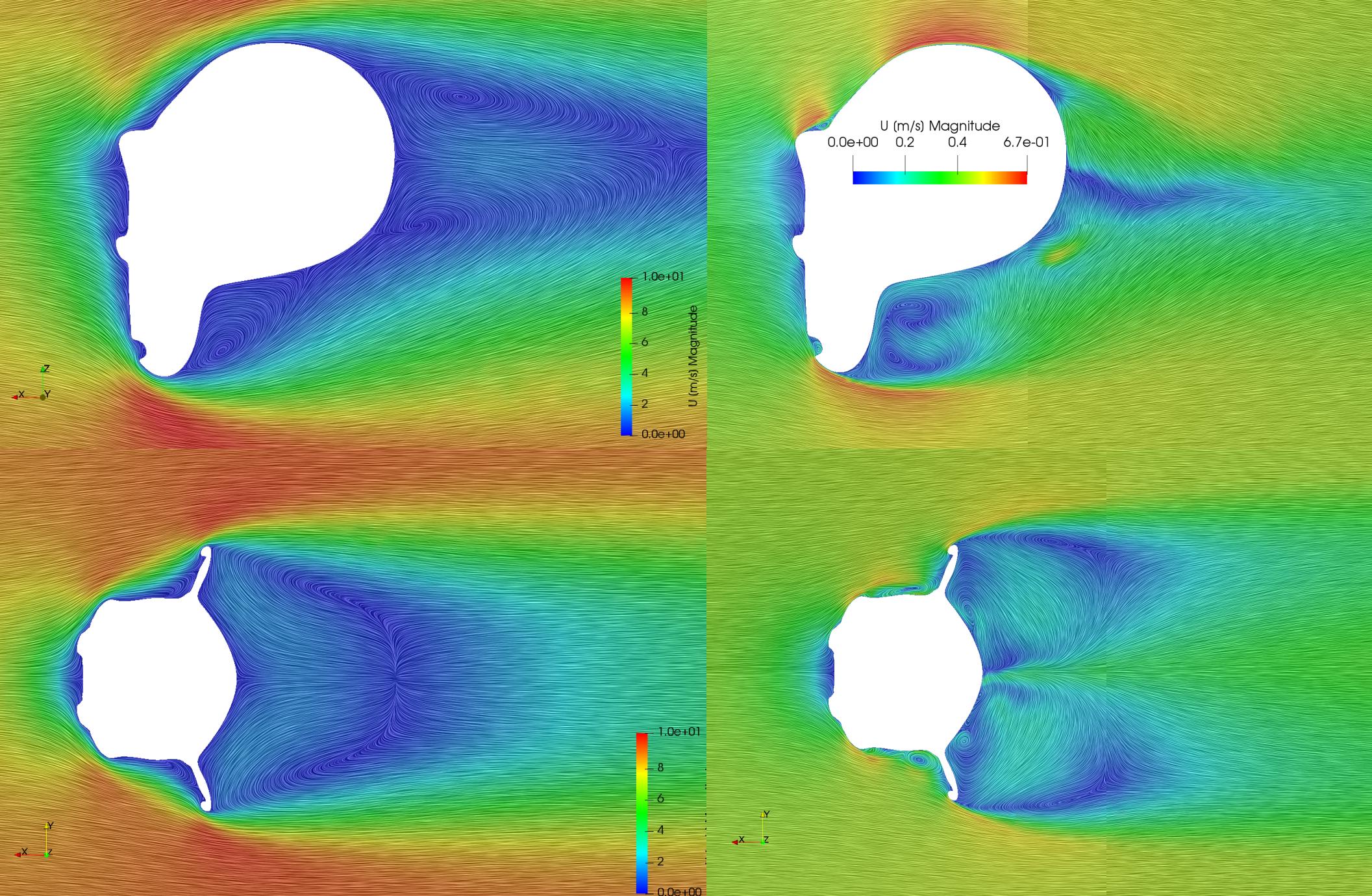
simulationType RAS
RASModel kOmegaSST

Processor: Intel Xeon W3550
RAM: 12 GB



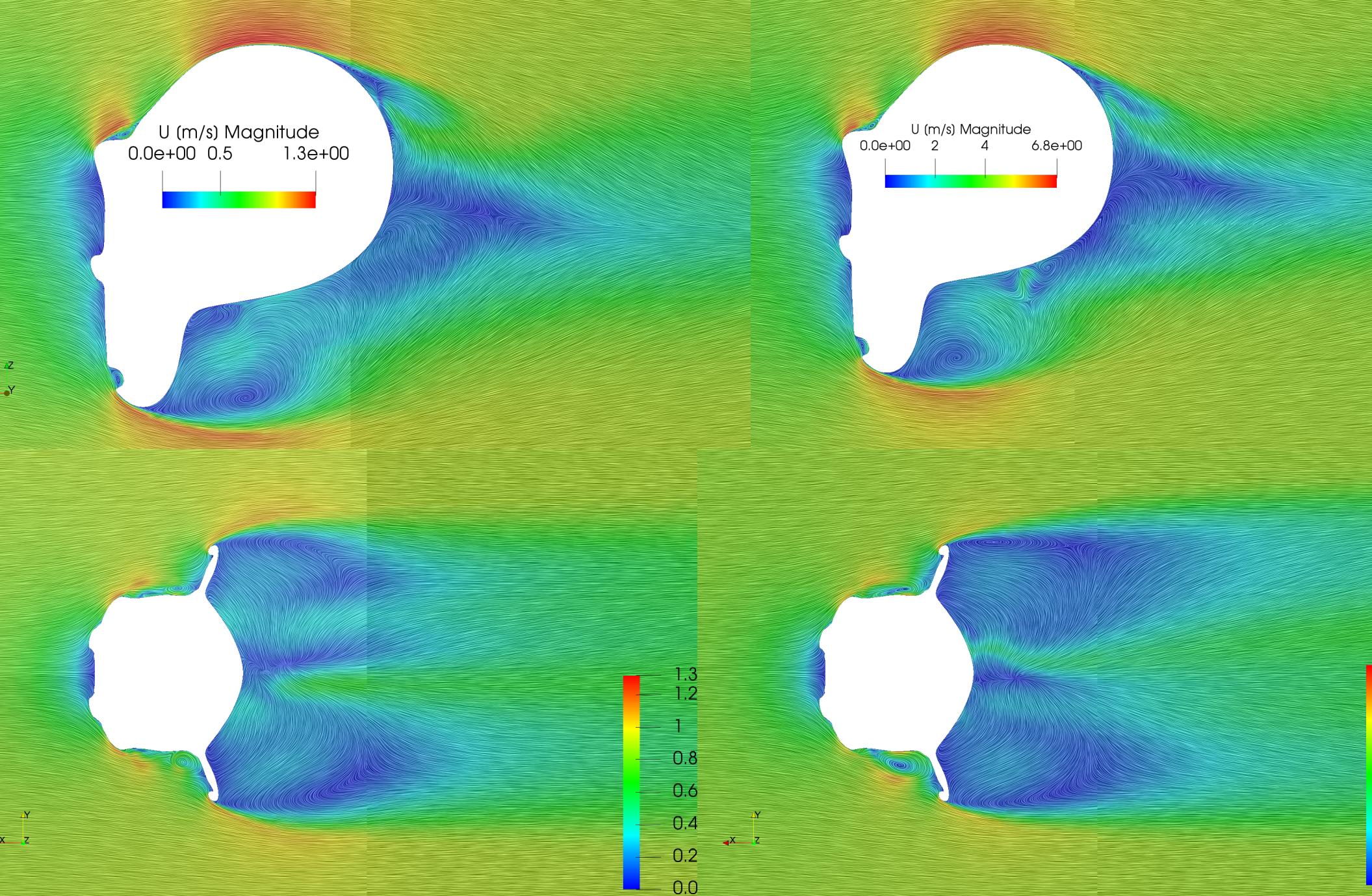
$Re = 10$
 $Cd = 4.35$

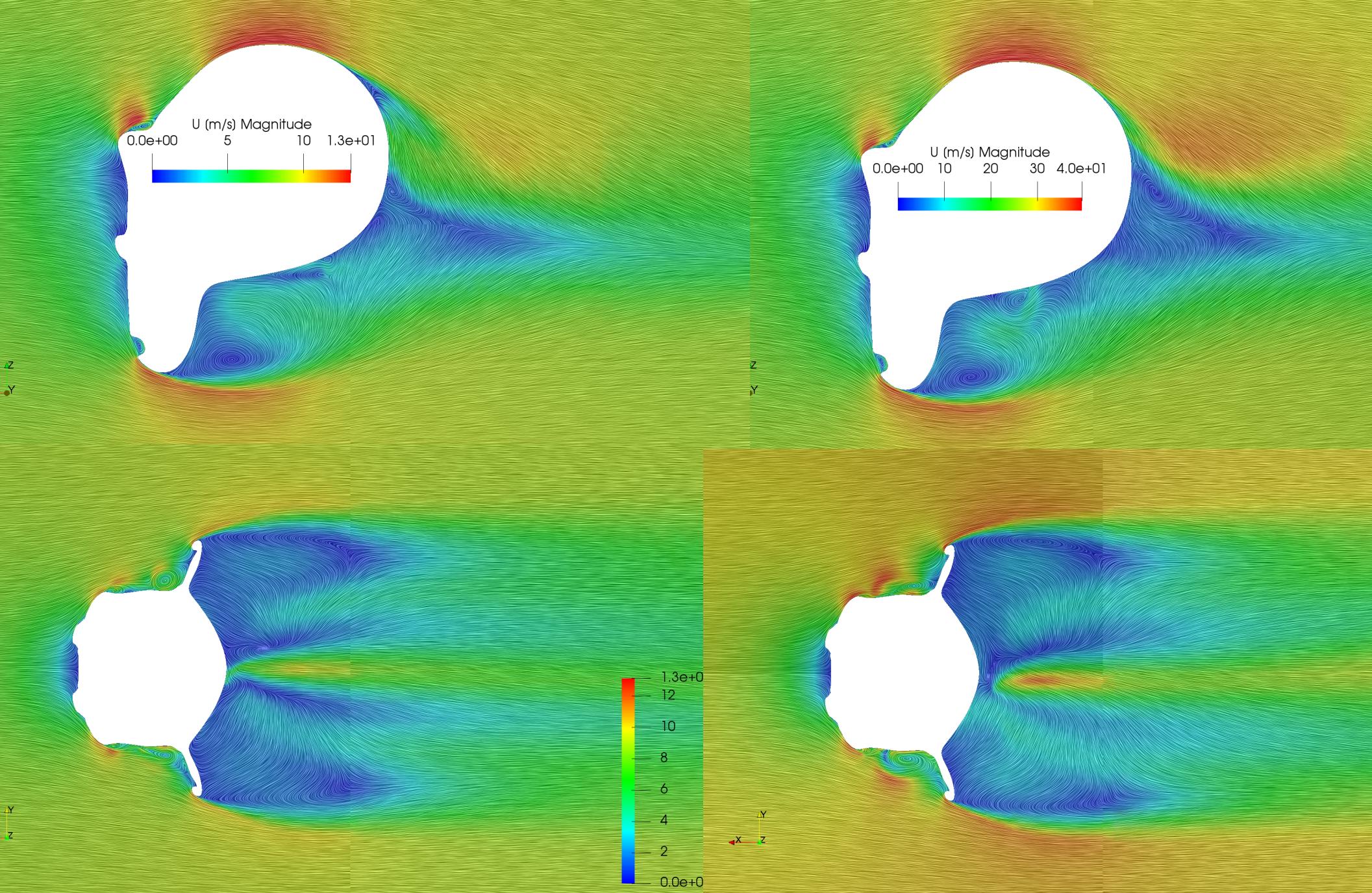
$Re = 50$
 $Cd = 1.68$



$Re = 100$
 $C_d = 1.22$

$Re = 50\,000$
 $C_d = 0.73$





Re = 1 000 000
Cd = 0.67

Re = 3 000 000
Cd = 0.66

