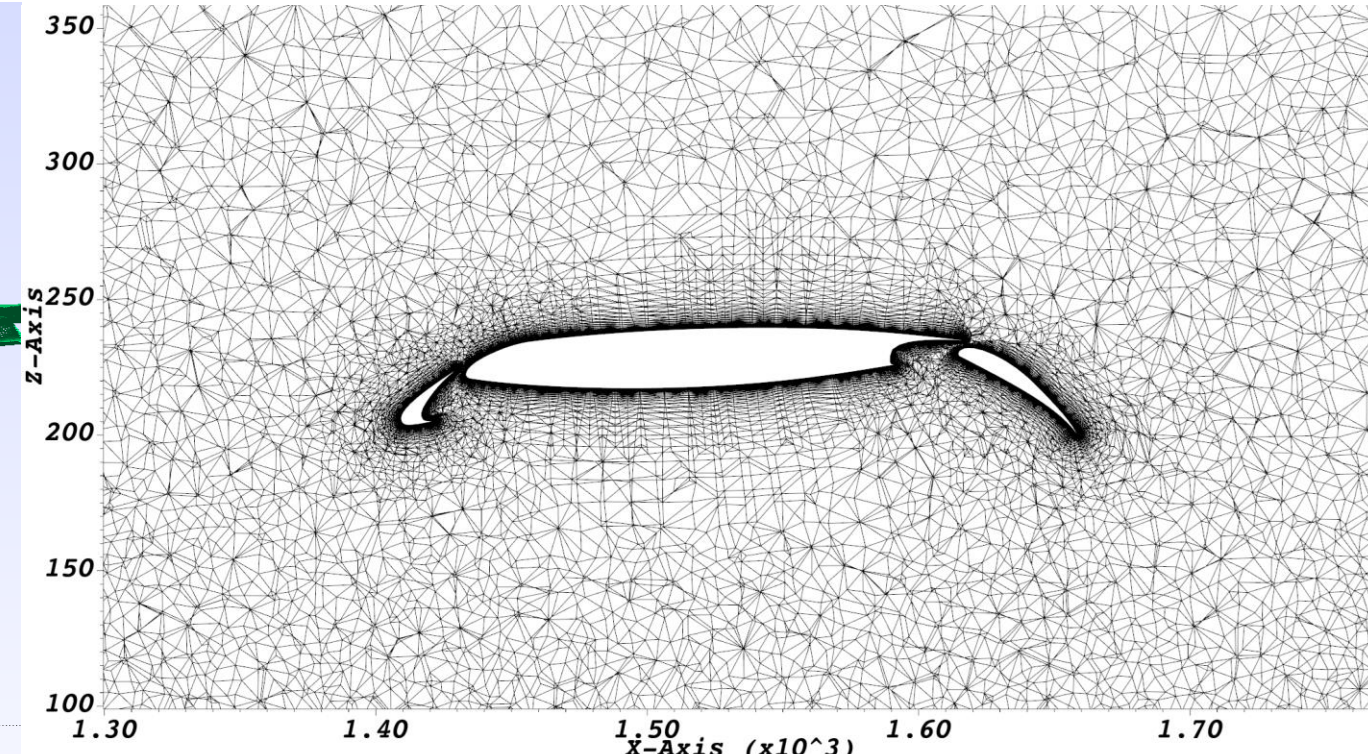
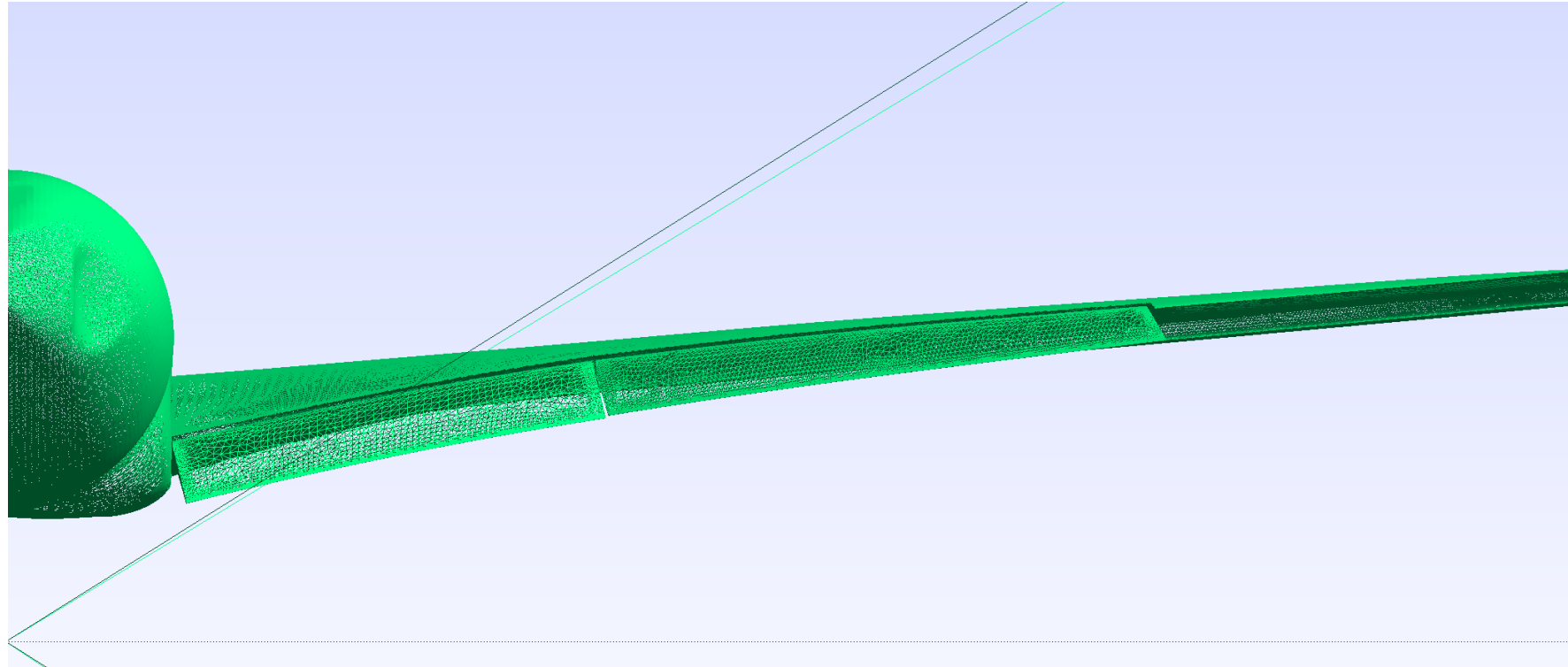


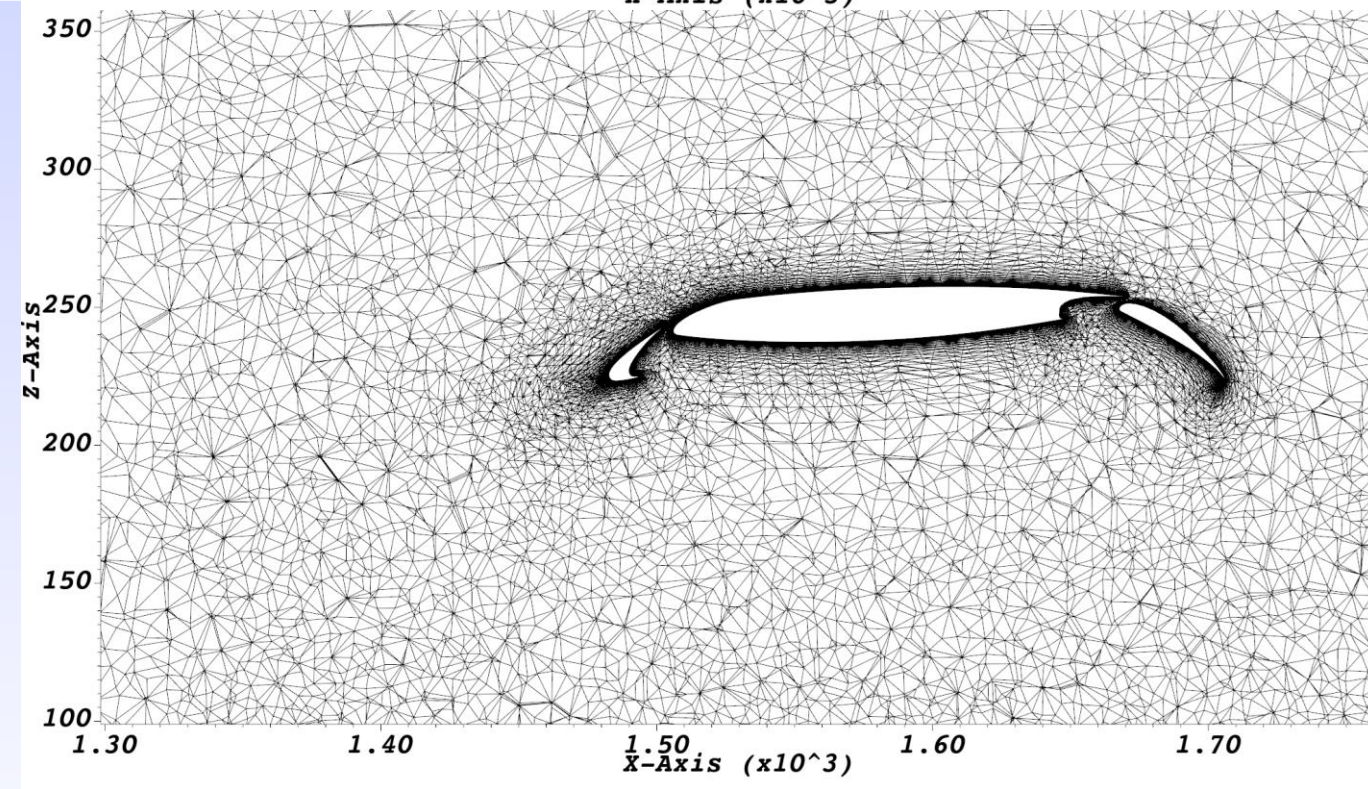
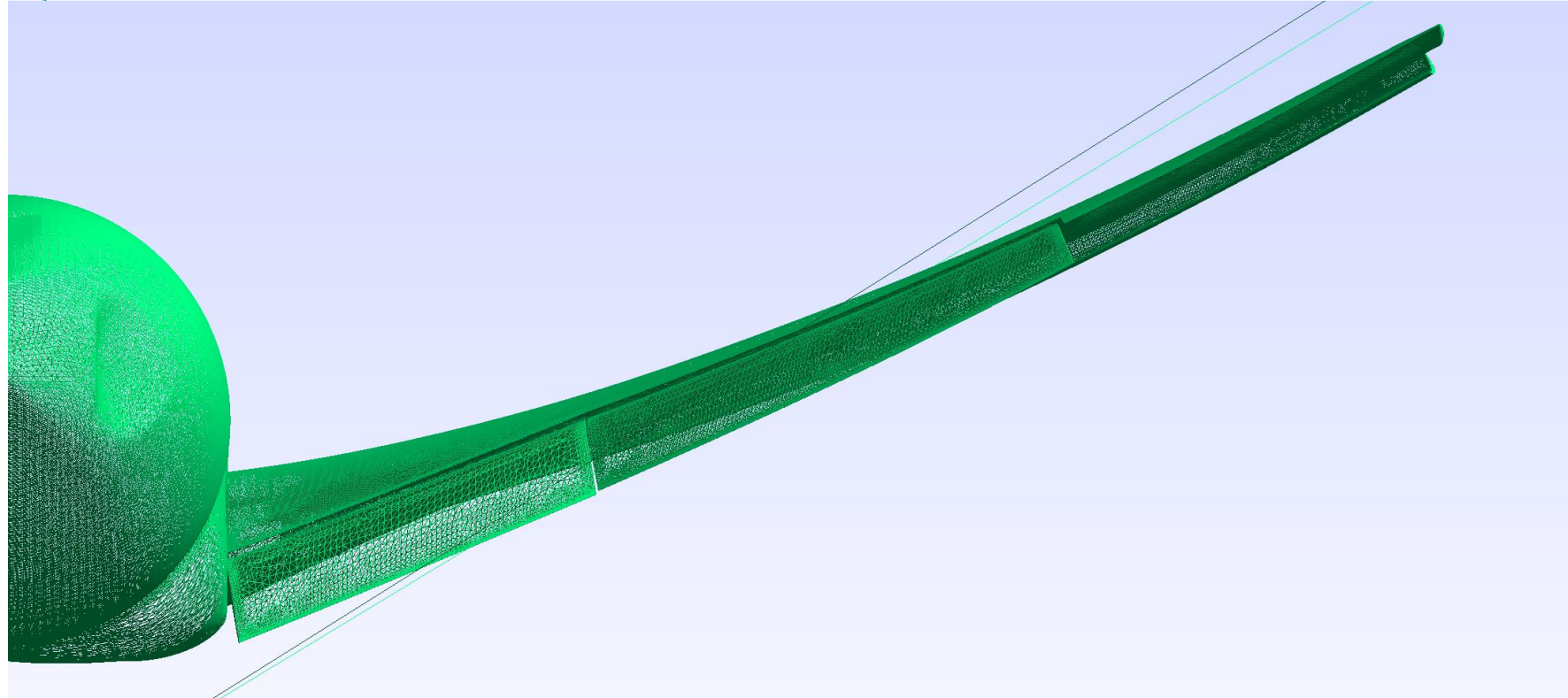
Surface Mesh

Volume Mesh Cross-section

Initial
Mesh



Deformed
Mesh
via FEMWARP



Mean Ratio Mesh Quality			
State	Maximum	Average	Minimum
Initial	0.9996000	0.2748491	0.0002246
Deformed	0.9995761	0.2710196	0.0000004

- **Average** and **maximum mean ratio** remains **nearly the same**.
 - **Original quality** is **preserved**
- Minimum mean ratio decrease noticeably, though there are reasons for this.
 - Original HL-CRM mesh is **anisotropic**.
 - **Already** had **low minimum mean ratio**.
 - We chose a **large deformation** of **original geometry**. Quality could be better preserved with **multiple smaller deformations**.
 - Point of experiment is to demonstrate ParFEMWARP can **successfully** perform **large deformations** when required.