## Flat Plate Boundary Layer - Numerical Results

Author: Rajesh Bhaskaran, Cornell University
Problem Specification  1. Pre-Analysis & Start-Up  2. Geometry  3. Mesh
4. Model Setup 5. Numerical Solution 6. Post Processing 7. Verification & Validation 8. Part II: Flat Plate Convection
Frequently Asked Questions
Exercises
Comments
Post Processing
Plot Velocity Vectors and Contours
Note: In the below video (Plot Pressure Contours), please note that the cursor disappears accidentally at the 44 second mark and returns at the 3 minute mark. At 1 minute 17 seconds, "here" refers to the bottom-middle of the region near the plate. It is later drawn at the 1 minute 28 second mark. At 2 minute 40 seconds, "here" refers to the left most face, known as the inlet face, of the region.
Plot Pressure Contours
Plot Velocity Profiles
Explanation for Velocity Profile Overshoot
Check Similarity Principle

**Plot Velocity Derivatives** 

**Calculate Drag Coefficient** 

Go to Step 7: Verification & Validation

Go to all FLUENT Learning Modules