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Problem definition:

Inviscid flow: Computing density based on free-stream
temperature and pressure using the ideal gas law.
Force coefficients computed using free-stream values.
-- Input conditions:
Fluid Model: STANDARD_AIR
Specific gas constant: 287.058 N.m/kg.K.
Specific gas constant (non-dim): 287.058
Specific Heat Ratio: 1.4000
Free-stream static pressure: 101325 Pa.
Free-stream total pressure: 154454 Pa.
Free-stream temperature: 273.15 K.
Free-stream total temperature: 308.113 K.
Free-stream density: 1.29225 kg/m^3.
Free-stream velocity: (264.994, 5.78219) m/s. Magnitude: 265.057 m/s.
Free-stream total energy per unit mass: 231152 m^2/s^2.
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