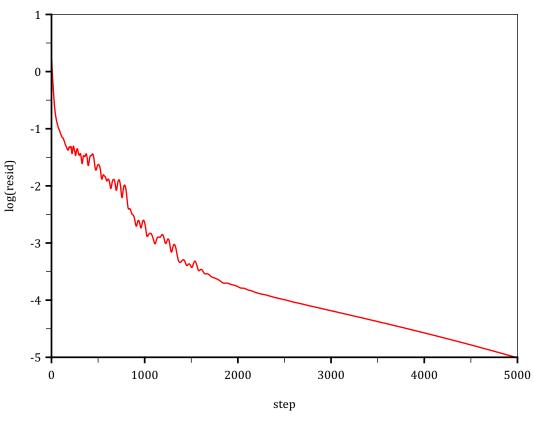
Solution of 2-D Navier-Stokes Equations: Laminar Flat Plate

Spatial discretization by Roe's upwind scheme:

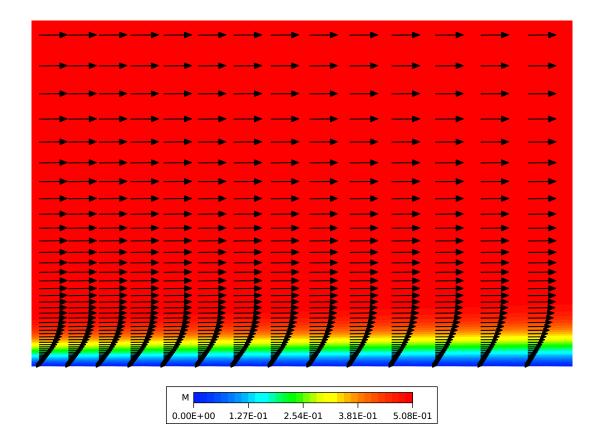
$$\sigma=5.0$$
, $arepsilon=0.6$, $\mathit{K}=10$

Boundary conditions:

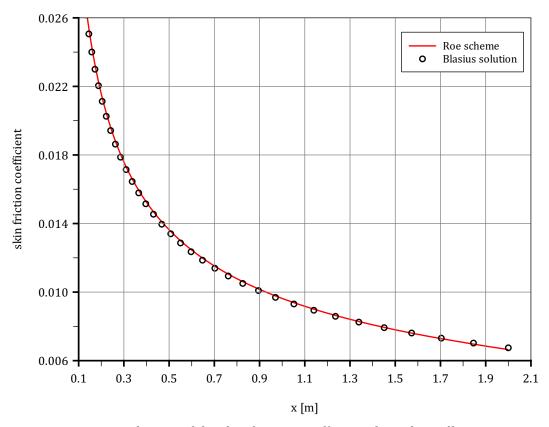
$$M_{\infty}=0.5$$
, $p_{\infty}=1.0\cdot 10^5$ Pa, $T_{\infty}=288.15$ K, $Re=5000$.



Convergence history.



Mach number distribution and velocity vectors.



Distribution of the skin friction coefficient along the wall.