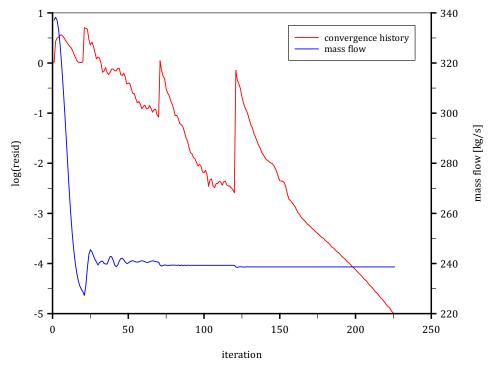
Solution of Quasi 1-D Euler Equations (Laval Nozzle)

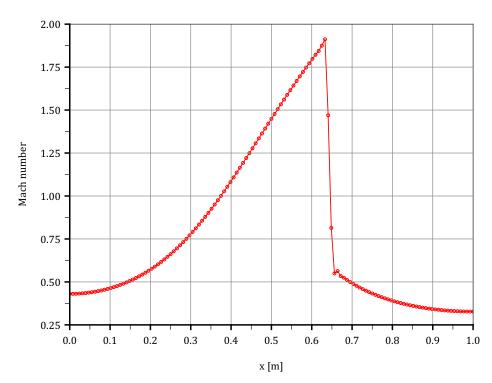
Central scheme with scalar artificial dissipation and multigrid with 5 grid levels: $\sigma=7.5$, $\varepsilon=0.8$, $k^{(2)}=0.7$, $k^{(4)}=1/64$.

Boundary conditions:

$$p_{t,in} = 1.0 \cdot 10^5 \, \mathrm{Pa}$$
, $T_{t,in} = 288.0 \, \mathrm{K}$, $p_{out} = 7.0 \cdot 10^4 \, \mathrm{Pa}$.



Convergence history.



Mach number distribution over nozzle length.