

## Hints on how to get convergence from scratch (In order of importance)

- Use a good grid.
- Set appropriate boundary conditions.
- Initialize turbulent quantities to their inlet average value.
- Run `potentialFoam` to get a good starting value for  $U$  and  $\phi$ .
- Set low order discretization.
- Use hard under-relaxation (don't forget under-relaxation when running `transientSimpleFoam`!).
- Use short time steps, particularly when using PISO which has no under-relaxation.
- Reduce the Reynolds number temporarily by increasing the viscosity. Don't forget to change it back!