Experiments and Simulations

Balogh Miklós
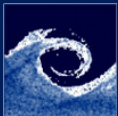
1. Perform flow simulation between two plates, using experimental data
   - Download and unpack LabCase11.tar.gz
   - Derive the required profiles (U, k, ϵ), using Gnumeric
   - Study the simpleFoam/pitzDailyExp case for the better understanding
   - Save the results in the appropriate format (points.csv, U.csv, k.csv, e.csv)
   - Create the required profiles (in constant/boundaryData)
   - Execute the simulation
2. Create a convergence plot in png format (using the macro)
3. Post-process the case, using
   - Sample utility
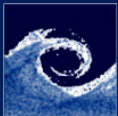   - Gnuplot
4. Add the experimental profiles to the plots

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1. Show the plots to the lecturers (quickest students earn bonus point).
2. Convert the plots to pdf format (quickest students earn bonus point).

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1 Improve your individual project if you want...