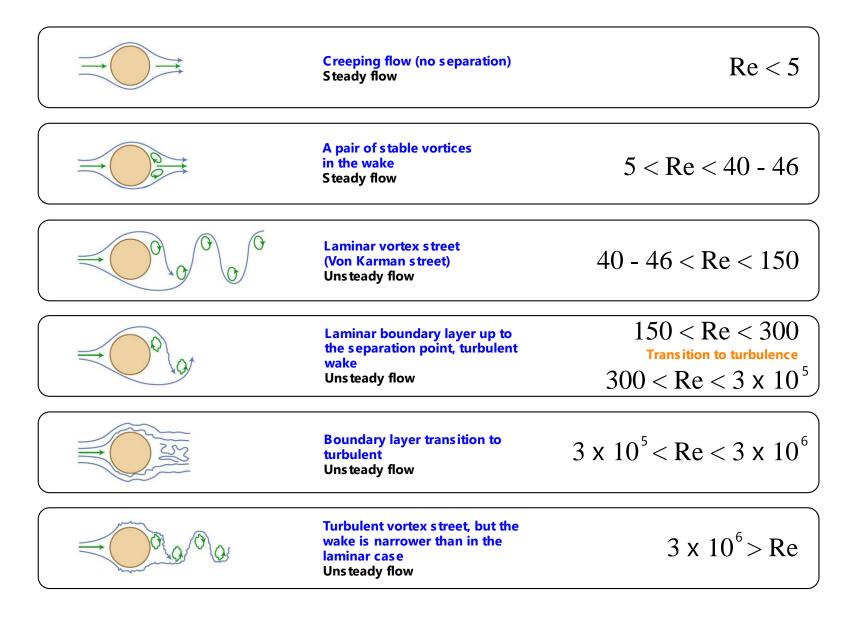
Supplement 6

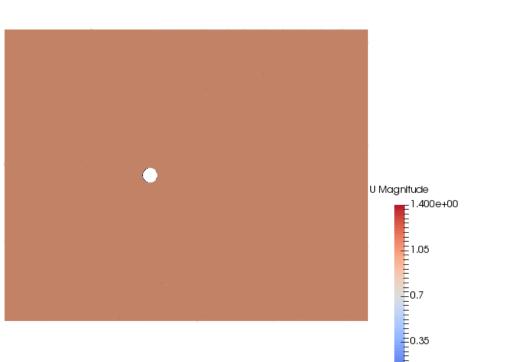
Comparison of:

Unsteady and steady solvers

Unsteady physics and steady physics

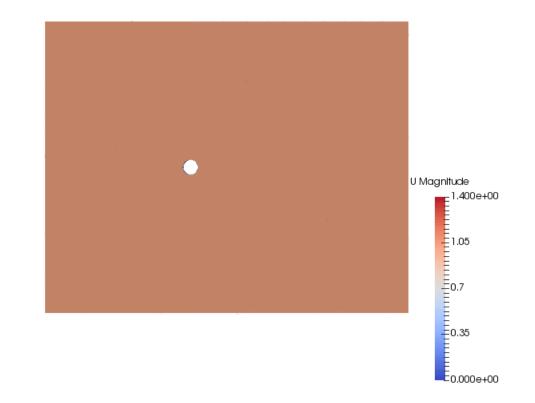
Vortex shedding behind a cylinder





E0.000e+00

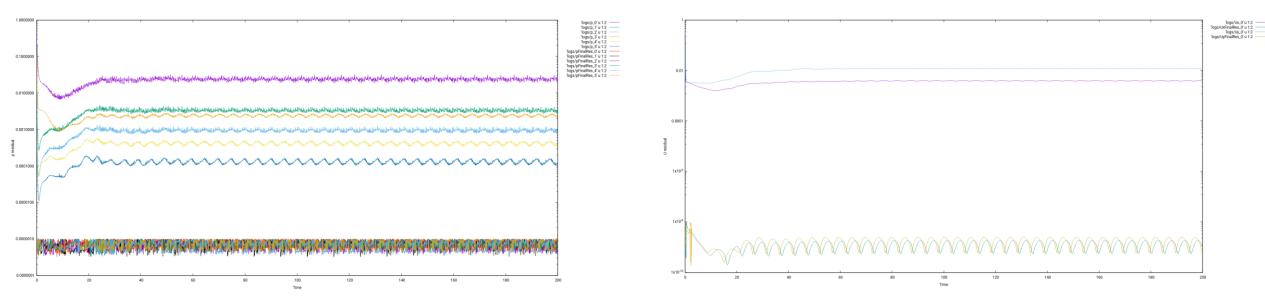
Iteration: 0.000000

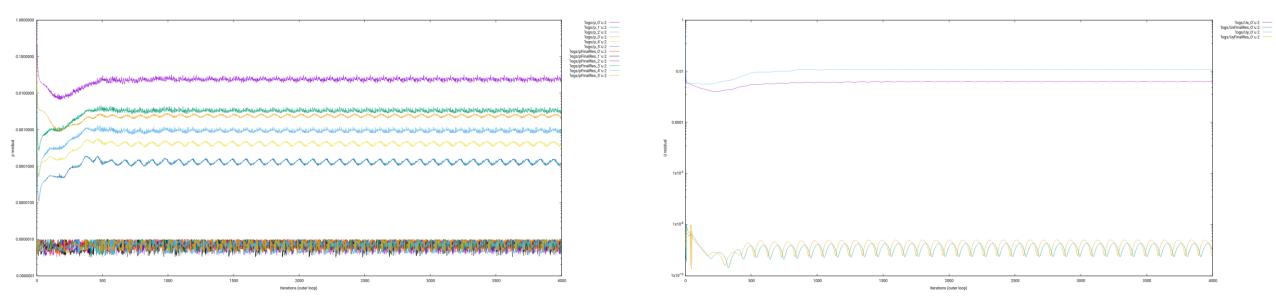


Re = 200

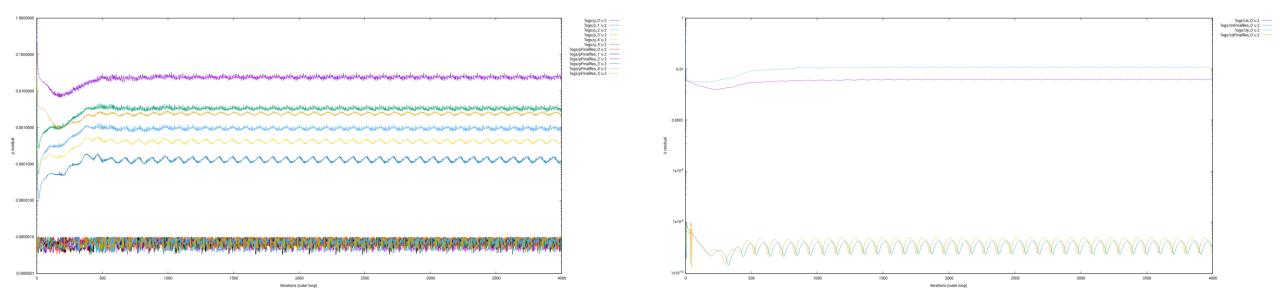
Unsteady physics with **unsteady solver** Non-uniform initialization

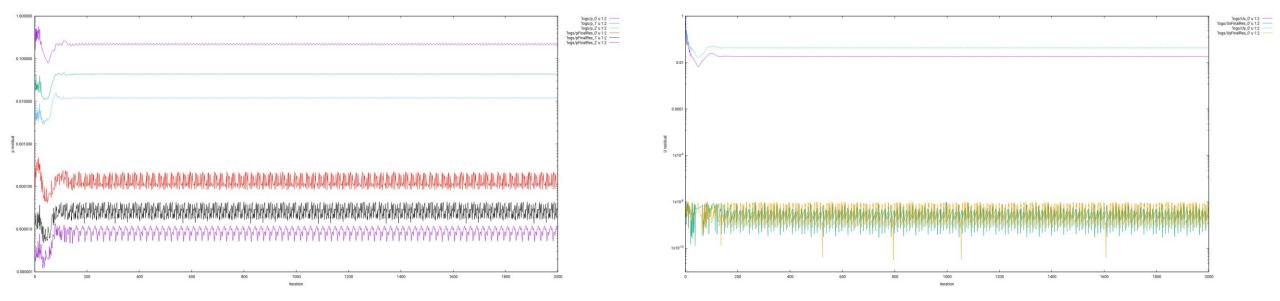
Re = 200 Unsteady physics with **steady solver** Non-uniform initialization



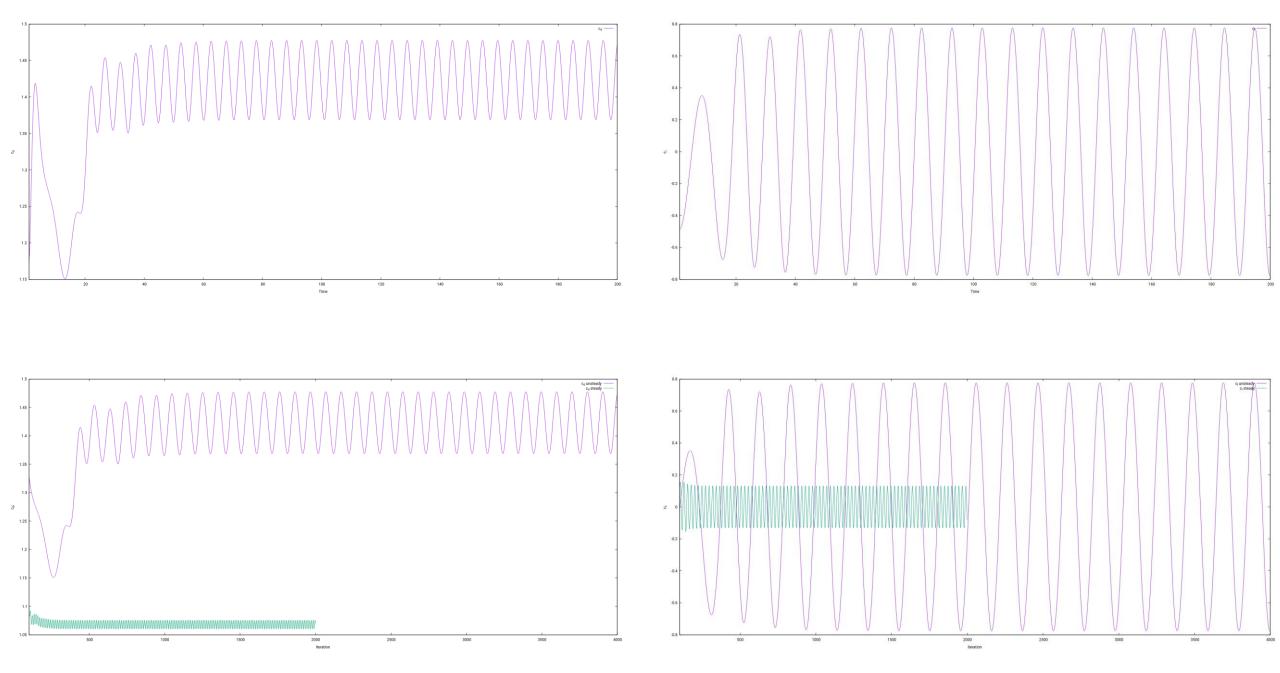


Unsteady solver residuals – Top row: residuals in function of time. Bottom row: residuals in function of iteration number.



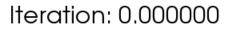


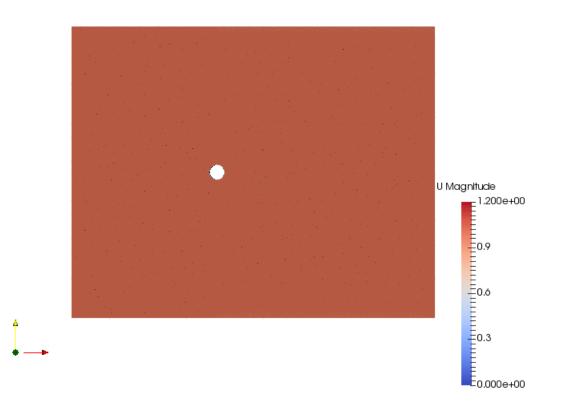
Comparison of unsteady solver residuals (top row) and steady solver residuals (bottom row)

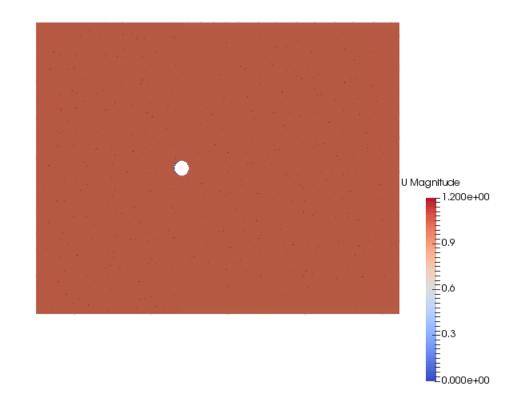


Unsteady solver Qol in function of time (top row) – Comparison of unsteady and steady solvers Qol in function of iterations (bottom row)

Time: 0.000000



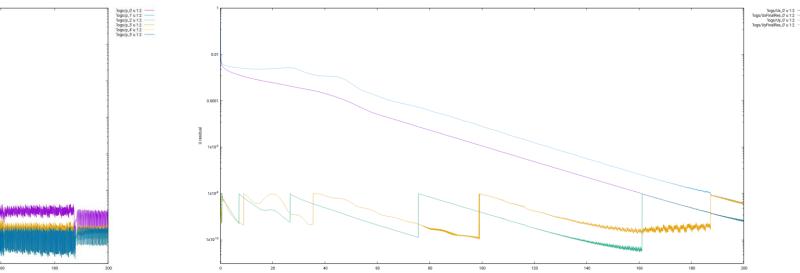


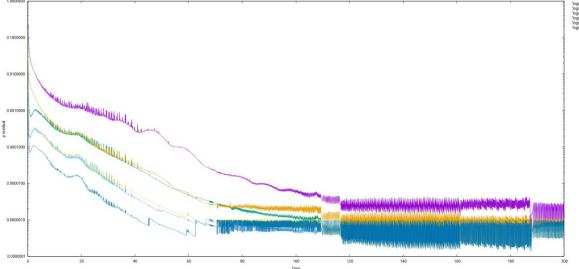


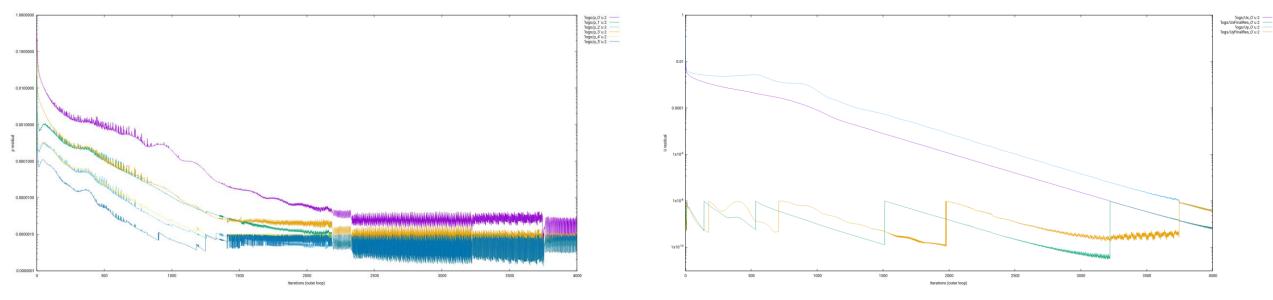
Re = 20

Steady physics with **unsteady solver** Non-uniform initialization Re = 20 Steady physics with **s**t

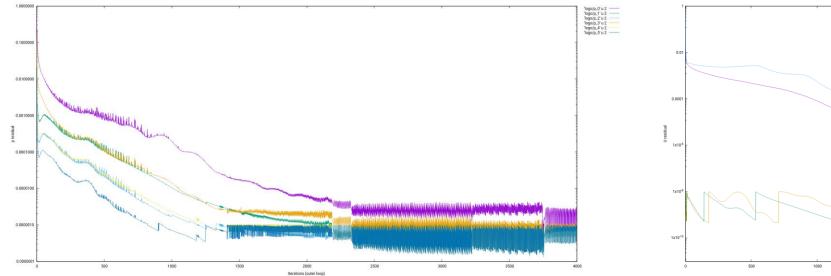
Steady physics with **steady solver** Non-uniform initialization

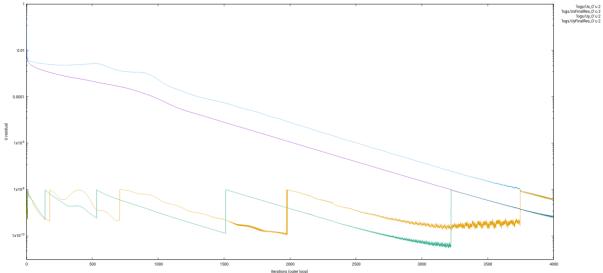


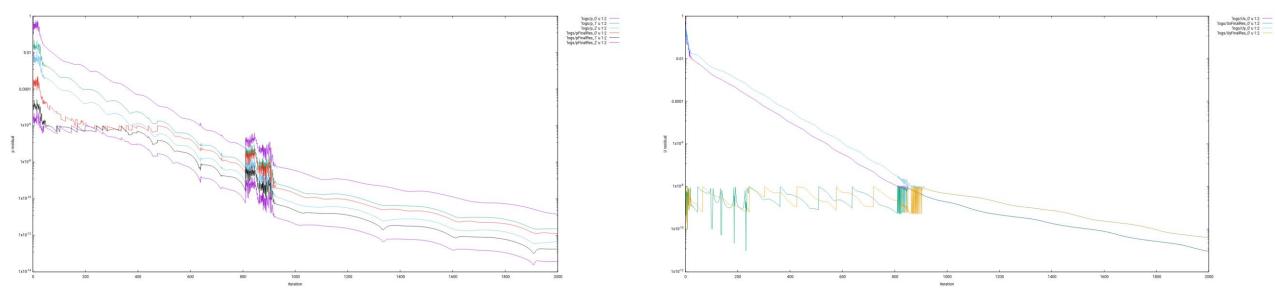




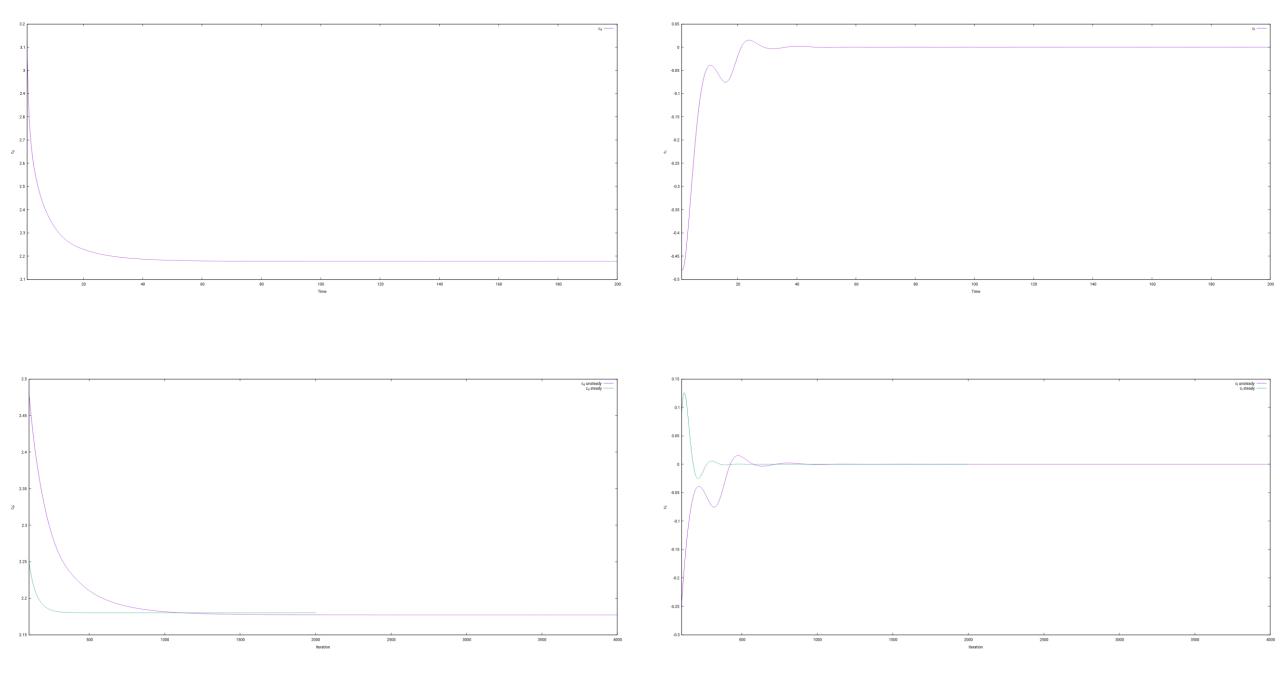
Unsteady solver residuals – Top row: residuals in function of time. Bottom row: residuals in function of iteration number.







Comparison of unsteady solver residuals (top row) and steady solver residuals (bottom row)



Unsteady solver QoI in function of time (top row) – Comparison of unsteady and steady solvers QoI in function of iterations (bottom row)