Report: 2D Fluid Simulation

Build Instructions

Upgrade compiler/cmake (only needed when using ZID computers)
> module load gcc/7.2.0
> mopule load cmake/3.9.5

Build project using Make
> cmake CMakeLists.txt
> make

Run program
> /FluidSim [grid resolution]

OR (simple but without opemp)

Upgrade compiler (only needed when using ZID computers)
> module load gcc/7.2.0

Build project using Make
> make

Run program
> /FluidSim [grid resolution]

Overview

Example

/FluidSim

Error/time convergence:

We run the programm for 20 minutes and it was stable the whole time.