

Report: 2D Fluid Simulation

Build Instructions

Upgrade compiler/cmake (only needed when using ZID computers)

```
> module load gcc/7.2.0  
> module load cmake/3.9.5
```

From the root directory of the project, create the MakeFile with CMake and build using Make:

```
> cmake .  
> make
```

Run program

```
> ./FluidSim [grid resolution]
```

OR (simple but without OpenMP)

Upgrade compiler (only needed when using ZID computers)

```
> module load gcc/7.2.0
```

From the root directory of the project, build the project using Make:

```
> make
```

Run program

```
> ./FluidSim [grid resolution]
```

Overview

Example

```
/FluidSim
```

Error/time convergence:

We run the program for 20 minutes and it was stable the whole time. We did not experience a drift to either side like the other groups.

