

Tutorial 9

Using your Cuda file from last week:

- Save your code from last week (tutorial_8.cu) to a new file called tutorial_9.cu
- Save this code into a folder called “Tutorial_9”.

This weeks goal is simple:

- Rewrite your Tutorial 8 code to run on GPU using 1D thread blocks.
- Save your codes in Tutorial_9 – I will log in and run your codes.
- Complete the tables below:

Solver	Number of Cells	Timestep	No. Steps	Time to run?
CPU	100x100	0.02 seconds	400,000	
CPU	200x200	0.01 seconds	800,000	
GPU	100x100	0.02 seconds	400,000	
GPU	200x200	0.01 seconds	800,000	

Finally, estimate your speedup (CPU vs GPU) for:

- 100x100 cells: _____
- 200x200 cells: _____

Save this table and your speedup in a file called “Speedup.txt” in the Tutorial_9 directory.