## CSc 8530 Parallel Algorithms

Spring 2019

April 9th, 2019

## HPC CUDA cheatsheet

 To copy from your local computer to the HPC server (using Putty on Windows)

pscp "C:\Users\UserName\Documents\file.cu" campusid@hpclogin.gsu.edu:/home/users/campusid

- In Linux (and I believe Macs) use scp instead
- To copy from the HPC server to a GPU node (CDER01 in this example):

scp "/home/users/file.cu" campusid@cder01:/home/users/campusid

- Check the list of nodes and their capabilities here: https://help.rs.gsu.edu/display/PD/CDER
- To compile the file using NVCC

nvcc file.cu -o file.exe

- You might need additional compilation flags
- The file.exe name is arbitrary; you can use whatever you want
- To run the code (assuming the file is in the current folder):



## **HPC CUDA cheatsheet**

 To log in from your local computer to the HPC server (using Putty on Windows)

putty campusid@hpclogin.gsu.edu

- In Linux (and I believe Macs) use ssh instead
- To log in from the HPC server to a GPU node (CDER01 in this example):

ssh campusid@cder01

- Remember that you have to log in to a GPU node to access nvcc and CUDA
- Also remember that you have first log in to GSU's VPN before you can access the HPC servers