Brandon Walker

CS4370

Parallel Programming Many-Core GPUs

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Histogram

In order to compile the code you need to request a node, I use a p100 here as its what was available when I ran it.

Srun -p p100 –gres=gpu: -pty bash

Then the command to compile it is  
  
Nvcc Walker\_Hist.cu -o hist -std=c++11 -arch=sm\_30

./hist

The program will start and allow you to run for each array size and block size, it will run both task 1 and 2, showing “GPU (device memory)” and “GPU (shared memory)” with and without the transfer time.