sftp ….@hpc-transfer.edu

cd work596

put pdf0.c

put pdf1.cu

(compare the time)

put pos.d

ssh …@hpc-login3.usc.edu

cd work596

ls -lt

gcc -O -o pdf0.c -lm

cd

vi .cshrc //(to use nvcc)

cd work596

which nvcc

nvcc -O -o pdf1 pdf1.cu -lm

rm pdf.sl

vi pdf.sl

#!/bin/bash

#SBATCH --nodes=1

#SBATCH --ntasks-per-node=1

#SBATCH --gres=gpu:1

#SBATCH --time=00:00:59

#SBATCH --output=pdf.out

#SBATCH -A lc\_an2

source /usr/usc/cuda/default/setup.sh

cd /home/rcf-proj/an2/Your\_folder <-change this

echo '##### CPU: gcc -O -o pdf0 pdf0.c -lm #####'

./pdf0

echo '##### GPU: nvcc -O -o pdf1 pdf1.cu #####'

srun -n 1 ./pdf1

sbatch pdf.sl

squeue -u name

more pdf.out

2.6s vs 0.2s

get pdf.d

part 2:

upload pi3.cu (hpc-transfer)

cd work596

put pi3.cu

login in hpc-login3

cd work596

nvcc -Xcompiler -fopenmp pi3.cu -o pi3

-I/usr/usc/openmpi/default/include

-L/usr/usc/openmpi/default/lib -lmpi -lgomp (in one line)

salloc –nodes=2 ---ntasks-per-node=1 –cpus-per-task=2 –gres=gpu:2 -t 29

srun -n 2./pi3