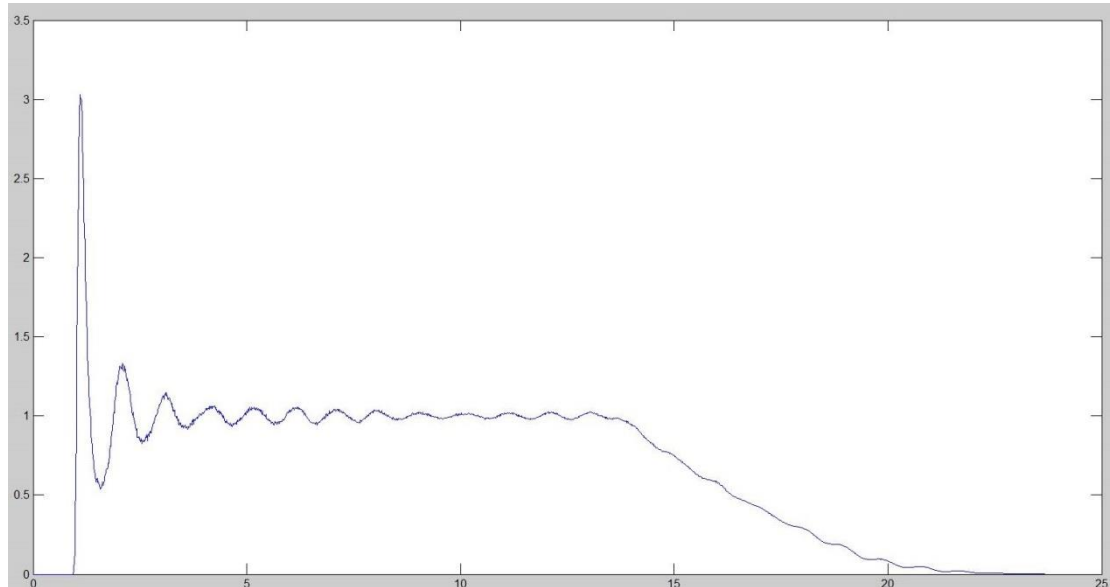


CS596 HW6

Chieh Wen Chang 4155100480

Discussion:

GPU version is about 10 times faster than CPU version.



```
chiehwen@hpc-login3:~/work596
[chiehwen@hpc-login3 work596]$ ls
pdf0 pdf0.c pdf2 pdf2.cu pdf2.out pdf2.pbs pdf.d pos.d
[chiehwen@hpc-login3 work596]$ cat pdf2.out
-----
Begin PBS Prologue Sat Nov 15 14:05:40 PST 2014
Job ID:          10039133.hpc-pbs.hpcc.usc.edu
Username:        chiehwen
Group:           csci-ar
Name:            pdf2
Queue:           quick
Shared Access:   no
All Cores:       no
Nodes:           hpc3025
TMPDIR:          /tmp/10039133.hpc-pbs.hpcc.usc.edu
End PBS Prologue Sat Nov 15 14:05:40 PST 2014
-----
#### CPU: gcc -O -o pdf0 pdf0.c -lm ####
Execution time (s) = 3.830000e+00
#### GPU: nvcc -O -o pdf2 pdf2.cu ####
Execution time (s) = 2.000000e-01
-----
Begin PBS Epilogue Sat Nov 15 14:05:45 PST 2014
Job ID:          10039133.hpc-pbs.hpcc.usc.edu
Username:        chiehwen
Group:           csci-ar
Job Name:        pdf2
Session:         63879
Limits:          gres=gpus:1,neednodes=1:ppn=1,nodes=1:ppn=1,walltime=00:00:59
Resources:       cput=00:00:00,mem=0kb,vmem=0kb,walltime=00:00:05
Queue:           quick
Shared Access:   no
Account:         lc_an2
End PBS Epilogue Sat Nov 15 14:05:45 PST 2014
-----
[chiehwen@hpc-login3 work596]$
```