# CS 553 PROGRAMMING ASSIGNMENT-1

## **MANUAL**

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#### 1) CPU

The code for CPU is written in C. To run the file you need to run the script chmod 777 CPU

/CPU

# \*NOTE

This program has both the normal IOPS and FLOPS program and also the 10 min sampling. After output of FLOPS and IOPS for 1,2,4 Threads, you might have to wait for 20 mins for the program to finish. The output for the samples will be in two TXT files.

#### <u>Iteration 1</u>

#### Iteration 2

#### **Iteration 3**

```
ec2-user@ip-172-31-36-66:~
                                                                                                                                                                                                              1↓ En ≪× 1:33 PM
       [ec2-user@ip-172-31-36-66 ~]$ ls
       cc c600 cpt cpumod600.c -ct d disk.c dt
-c2 cc3 cpumod2.c cpumod.c ctt dd dn File.txt
c3 ccc cpumod3.c cpumod1.c cu -dd -dm iozone3_39
[ec2-user@ip-172-31-36-66 ~]$ ./cc3
.......FLOPS For 1 Thread......
                                                                                                                                                           memory.c prog1-v2.pdf
mm Sample FLOPS.txt
                                                                                                                 iozone.sh
                                                                                                                                                                                               stream-scaling-master
                                                                        File.txt iozone3_394.tar.1 lin_xeon64.txt iozone3_394 iozone3_394.tar.2 lshw-2.14-1.el4
                                                                                                                        xeon64.txt m10 mm
-2.14-1.el4.rf.i386.rpm m30 mm2
                                                                                                                                                                        Sample IOPS.txt
       GigFLOPS 6.985806
        -----FLOPS For 2 Thread------
       GigFLOPS 6.984988
         ------FLOPS For 4 Thread------
       GigFLOPS 6.967125
        -----IOPS For 1 Thread-----
       GigIOPS 6.995608
         -----IOPS For 2 Thread------
       GigIOPS 6.987513
        -----IOPS For 4 Thread-----
       GigIOPS 6.993852
```

To Run the LINPACK code you need to run the script chmod 777 linpack

./linpack

# 2) Memory

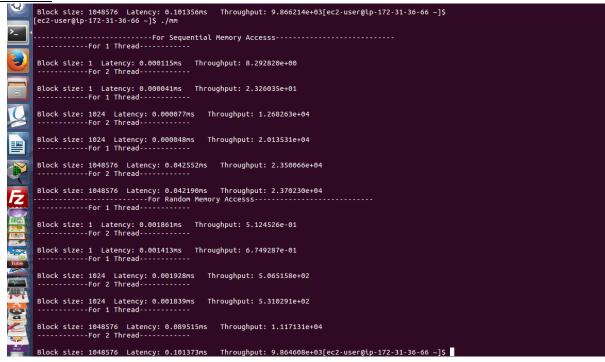
The code for CPU is written in C. To run the file you need to run the script chmod 777 memory

./memory

#### Iteration 1

## Iteration 2

<u>Iteration 3</u>



To Run the STREAM code you need to run the script

cd stream

chmod 777 stream

/stream

# 3) Disk

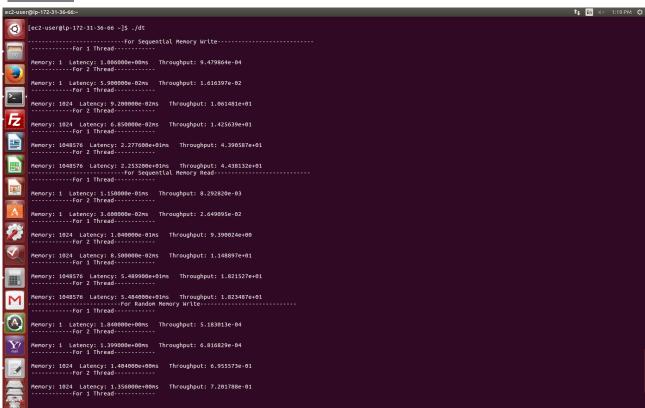
The code for CPU is written in C. To run the file you need to run the script chmod 777 disk

/disk

#### NOTE:

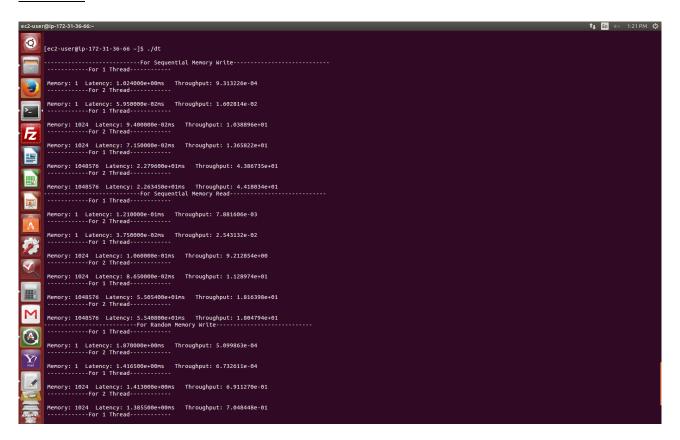
You need to do cd .. to get out of the stream folder, if you have executed the stream benchmark

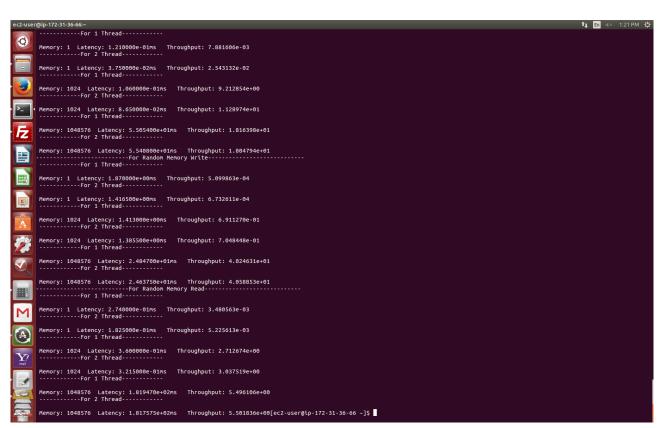
## <u>Iteration</u> 1



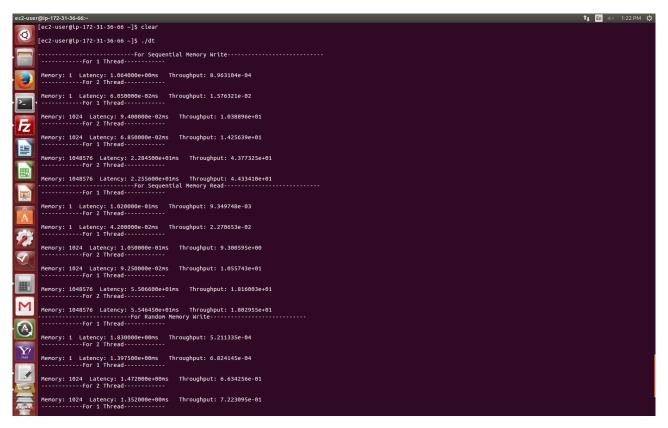


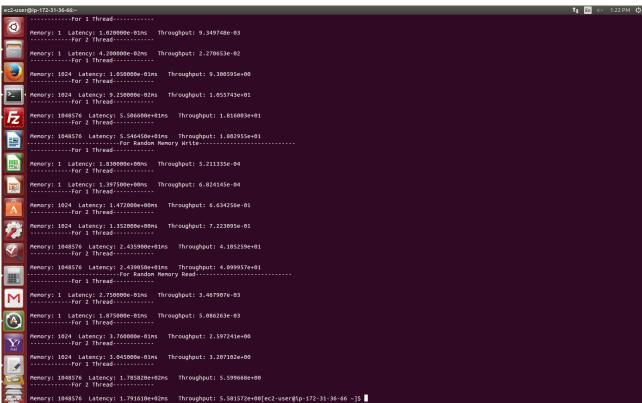
#### Iteration 2





#### Iteration 3





To Run the IOZONE code you need to run the script sh iozone.sh