**USER MANUAL FOR COMPILING CPU,GPU,MEMORY AND . DISK CODE**

**CPU Benchmark Test Bed Environment:**

Chameleon OpenStack KVM m.medium Instance (Image Name: CC-CentOS7)

**To Run CPU Benchmark Using Makefile :**

Go to src folder through Terminal and then type **‘make cpu’** which will make an executable name CPUBenchmark.

Run CPUBenchmark executable manually or type **./CPUBenchmark** in terminal.

**GPU Benchmark Test Bed Environment:**

Chameleon BareMetal Instance (Image Name: CC-CentOS7-CUDA8)

**To Run GPU Benchmark Using Makefile :**

Go to src folder through Terminal and then type ‘**make gpu’** which will make an executable name CudaBenchmarkingCode.

Run CudaBenchmarkingCode executable manually(In case if you have CUDA capable local machine) or type **./CudaBenchmarkingCode** in terminal.

**Memory Benchmark Test Bed Environment:**

Chameleon OpenStack KVM m.medium Instance (Image Name: CC-CentOS7)

**To Run Memory Benchmark for CPU Using Makefile :**

Go to src folder through Terminal and then type ‘**make memory’** which will make an executable name MemoryBenchmark.

Run MemoryBenchmark executable manually or type **./MemoryBenchmark** in terminal.

**Memory Benchmark for GPU**

**GPU Benchmark Test Bed Environment:**

Chameleon BareMetal Instance (Image Name: CC-CentOS7-CUDA8)

**To Run Memory Benchmark for GPU:**

Go to src folder through Terminal and then type **‘make memorygpu’** which will make an executable name GPUMemoryBandwidth.

Run GPUMemoryBandwidth executable manually or type **./GPUMemoryBandwidth** in terminal.

**Disk Benchmark Test Bed Environment:**

Chameleon BareMetal Instance (Image Name: CC-CentOS7-CUDA8)

**Reason To Use BareMetal :**

Couldn’t allocate floating point IPs on OpenStack due to shortage of IPs and had to test my code on the last day. So BareMetal was the only Instance I could run my code on.

**To Run Disk Benchmark:**

Go to src folder through Terminal and then type ‘**make disk** which will make an executable name DiskBenchmark.

Run DiskBenchmark executable manually or type **./DiskBenchmark** in terminal.