Project Guideline

EE7218/ EC7207: High Performance Computing

Technology Usage: OpenMP,POSIX Threads, MPI and CUDA

Deliverables:

1. Serial Code
2. Shared Memory Programming Code
3. Distributed Memory Programming Code
4. Hybrid Programming Code
5. Analysis Report

In the Analysis Report you should include the following

1. Include a diagram and a description on how you applied the parallel programming concepts to your proposed topic.
2. Accuracy of your parallel coding compared to the serial code. (Eg: RMSE)
3. You should measure the timing of the serial and the parallel coding by changing the number of threads and other parameters.