

ASSIGNMENT-5

- 1- First we define the struct for the thread which will be of two types a single arrays(1-D) of threads and the other one 2-D arrays of threads.
- 2- In the single arrays of threads there are two fields low and high and one lambda function for the threads we have also define the worker function for the single arrays of threads.
- 3- Similarly we have define for 2-D arrays of threads and their worker function.
- 4- we have created a parallel_for implementation for the One dimensional (1-D) loop which will start the timer since the start of the thread execution and it will launch the worker threads then It will join them and returns the execution time.
- 5- Similarly we create the parallel_for method with the same Functionality into the one dimensional (1-D) parallel_for method Here 2 for loops are used for execution of threads.

CONTRIBUTION

Mrinal Sood- parallel_for method for 1d array and parallel_for method for 2d array

Akshat Raj- ThreadArgs1D, thread_worker_1d, ThreadArgs2D, thread_worker_2d.