

CSC 6220: Parallel Computing I: Programming
ECE 5610: Introduction to Parallel and Distributed
Systems
Homework 4
Fall 2016

Assigned on: Wednesday October 5, 2016

Due on: Wednesday October 12, 2016, 5:00pm

Description: Write a multithreaded program to add two 128x128 matrices. The program should use 8 threads, and 1-D data partitioning. Thread i is responsible for adding 1-D blocks composed of rows $16 * i$ to $16 * i + 15$. Each thread should print the statement "*Thread i: Done*" when it completes the local summation (i is the thread id). These statements must be printed in decreasing order of i . The input matrices should have on each row integers from 1 to 128 in increasing order. The main thread is responsible for generating the initial matrices and printing the final result.
The program should terminate normally after all the threads finished printing their statements.

Submission: Use the Blackboard drop box. You should submit a zip file containing the source of the program, the output, and a short readme file.
The program should be compiled and executed on tomis.cs.wayne.edu.