

LAB 1

DUE DATE: Tuesday Oct 2 11:59pm (upload to polylearn) Individual Project

Name: _____

Write a program in C to perform Matrix Addition. The requirements for the program:

1. program is written in C executes with multiple threads using library pthreads.
Note : compile: gcc lab1.c -o mm -lpthread
run: ./mm 2

What to turn in

Upload a report in PDF with the following:

1. Your name
2. Table with execution times sequential code (use same time functions as provided for correctness and consistency)

Matrix A and B Size	Execution Time
A. 512, 512	
B. 1024*1024	
C. 8192*8192	
D. Rectangular Matrix first(900*100), second (900,100)	

3. Table with the execution time for the multithreaded matrix multiplication algorithm

Matrix A and B Size	Execution Time 2 Threads	Execution Time 4 Threads	Execution Time 8 Threads
A.			
B.			
C.			
D.			

4. Appendix with your code just the matrix addition code (I will ask for a demo of your code working on the computer labs).