

OPENMP: Homework 6

Write, in parallel, using OpenMP

1. A “hello world”
2. A program that initializes two matrices A and B with some values, calculates the product $C = AB$ and finds the minimum value in the C matrix and where it is in the matrix. Make two versions:
 - (a) Use do loops to do the matrix multiply and OpenMP PARALLEL DO
 - (b) Use Fortran MATMUL and OpenMP workshare

Run some tests for large matrices to see which one works best.

Submit a tar file *named with your name* <name.tar> that contains

- the .f90 files for your program
- A README of instructions on how to compile and run
- Sample output that shows that the programs work
- An analysis which shows which one works best for question 2