

OpenACC Programming

Prac 3

Instructions**Marks: 20***Due date: 08:30 on 23^r April 2018*

By submitting your assignment via the RUConnected link, you declare that the assignment submitted is entirely your own work, unless noted otherwise.

Aim

Parallelizing and optimizing a sequential Matrix Multiplication

Tasks

1. Parallelize the sequential code for matrix multiplication (matrixmult_seq.c) using appropriate OpenACC pragmas.
2. Profile your parallel code from (1) to find opportunities for optimisation or to prove that there is no scope for improvement.
3. Depending on your findings in (2) either optimise your code or do nothing.

Please submit the final version of the parallel code together with an explanation of what information you obtained from the profiler either to make some improvements or to prove that there were no opportunities for optimisation.