Chau Ngo

CSCE 435

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Project 1

REPORT

Overall, the results for all the matrix multiplication is supposed to be the same since they are doing different methods of multiplication for the same matrix. The simple multiplication method will be the slowest one since they are doing one by one element in the row and the column of the matrices. Then the blocking multiplication matrix is faster because the iteration inside the for loop is less since we aim at every block multiplication every time. The parallel blocking multiplication matrix is the fastest method of all. In this method, the multiplication is doing parallel on top of the block multiplication method, and it doesn’t interrupt any other job, which make it faster than other methods. When doing the project, I changed the matrix to 8 instead of 16 for me to easier to check the results of the multiplication. Then I changed to 16, but then when I changed to 2048, it takes a little more time. According to the results, the peak speed up over the sequential method is around ~ 15