CS133 Lab 1 Report

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Optimization Methods:

1. mmul1.c:
   1. I used loop reordering to enhance the spatial locality of the computation
   2. Use Openmp’s parallel pragma to enable parallel computing
2. mmul2.c:
   1. Use blocking to create blocks of matrix

Results:

|  |  |  |  |
| --- | --- | --- | --- |
| Matrix Size | 1024x1024x1024 | 2048x2048x2048 | 4096x4096x4096 |
| mmul1 |  |  |  |
| mmul2 |  |  |  |