Laboratory3

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| --- | --- | --- | --- | --- | --- | --- |
| Matrix Dimensions | Task 1 | Task 2 | Task 3 | Task 1 -thread pool | Task 2- thread pool | Task 3 – thread pool |
| 10x10 | 0.02 seconds | 0.004 seconds | 0.016 seconds | 0.004 seconds | 0.0 seconds | 0.0 seconds |
| 30x30 | 0.248 seconds | 0.224 seconds | 11.712 seconds | 0.008 seconds | 0.004 seconds | 0.016 seconds |
| 100x100 | 93.14 seconds | 104.732 seconds | 504.09 seconds | 0.116 seconds | 0.124 seconds | 54.324 seconds |

Task 1 :

Created thread for each sequence of multiplication as: thread 1 multiplies first 20 items, thread 2 multiplies the next 20 items and so on…

Task 2:

Same but the order of traversal is from the end

Task 3:

Thread 1 multiplies first round with k, second thread, the second round and so on…