# HOMEWORK 5

### Build information

### RESULTS

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Matrix size (n)** | **Number of threads(p)** | **Serial execution time** | **Parallel Execution time** | **Speedup** |
| 10 | 3 | 4 | 67 | 0.0059 |
| 30 | 3 | 157 | 144 | 1.09 |
| 50 | 4 | 567 | 404 | 1.403 |
| 75 | 4 | 2573 | 1020 | 2.522 |
| 100 | 10 | 4585 | 2237 | 2.0496 |
| 150 | 10 | 15837 | 6796 | 2.33 |
| 200 | 24 | 39572 | 16164 | 2.44 |

The results for 75 seem to be an anomaly generally speedup should increase as the size of the matrix increases. Lower speedup seems to be a result of threading overhead.