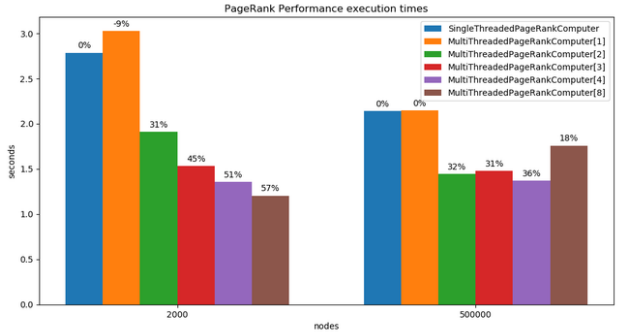
Page 2

Execution times

The following graphs show the execution times of tests on both machines. The percentages above bars show differences in execution times compared to **SingleThreadedPageRankComputer**.

PageRankPerformance is presented for **2000** and **50000** nodes.

Huawei Matebook 13



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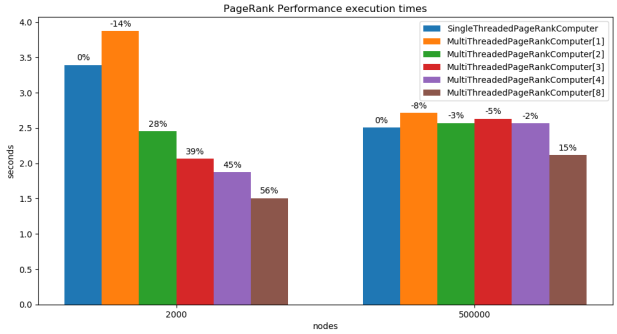

As I noted before, in the case of the **sparse graph** with **50K** nodes, waiting on mutexes and other losses associated with multithreading start to outweigh the gains.

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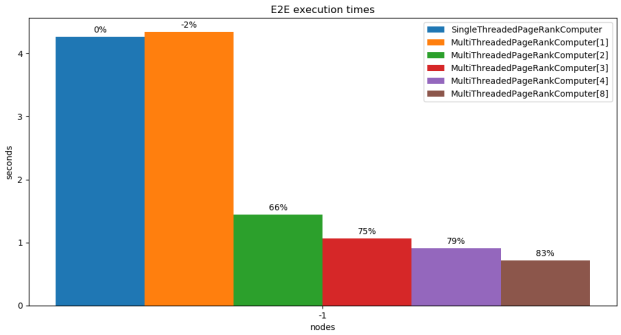

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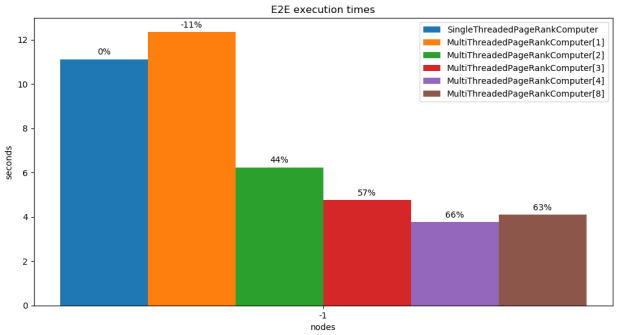

E2e consists of only one test, so the number of nodes is not needed to distinguish it, hence the value of -1 on the graph.

I believe that the dramatic improvement in speed of the **E2e** test on my laptop is caused by **Hyper-Threading Technology**, which allows for more efficient utilization of a single physical core by executing some instructions simultaneously.

students.mimuw.edu.pl machine does not poses this capability and execution times are within the reasonable range.