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CS 599-03

Parallel Breadth-First Search

For the following graph, we used large\_graph.txt, a file containing 1,161 vertices, and chose a common source node. The “1” label on the horizontal axis represents the serial run time, while the other labels represent a different amount of threads used for the parallelized version. The parallel BFS implementation ran better than the serial version in all tests. The implementation was optimized with a two threads.

