Theme Project

Requirement

Find a n-coloring of a graph.

Hardware platform:

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Intel(R) Core(TM) i5-10210U CPU @ 1.60GHz 2.11 GHz 8 GB DDR4 512 GB SSD
```

Algorithms:

- Regular threads
 - \circ Complexity: O(V^2 + E) in worst case
 - A proper coloring of a graph is an assignment of colors to the vertices of the graph so that no two adjacent vertices have the same color.
 - Uses Java thread Pool
- MPI

Time Statistics:

Number of vertices: 5

Number of threads: 8

Regular threads: 30 milliseconds

MPI:

Number of vertices: 10

Number of threads: 8

Regular threads: 38 milliseconds

MPI: