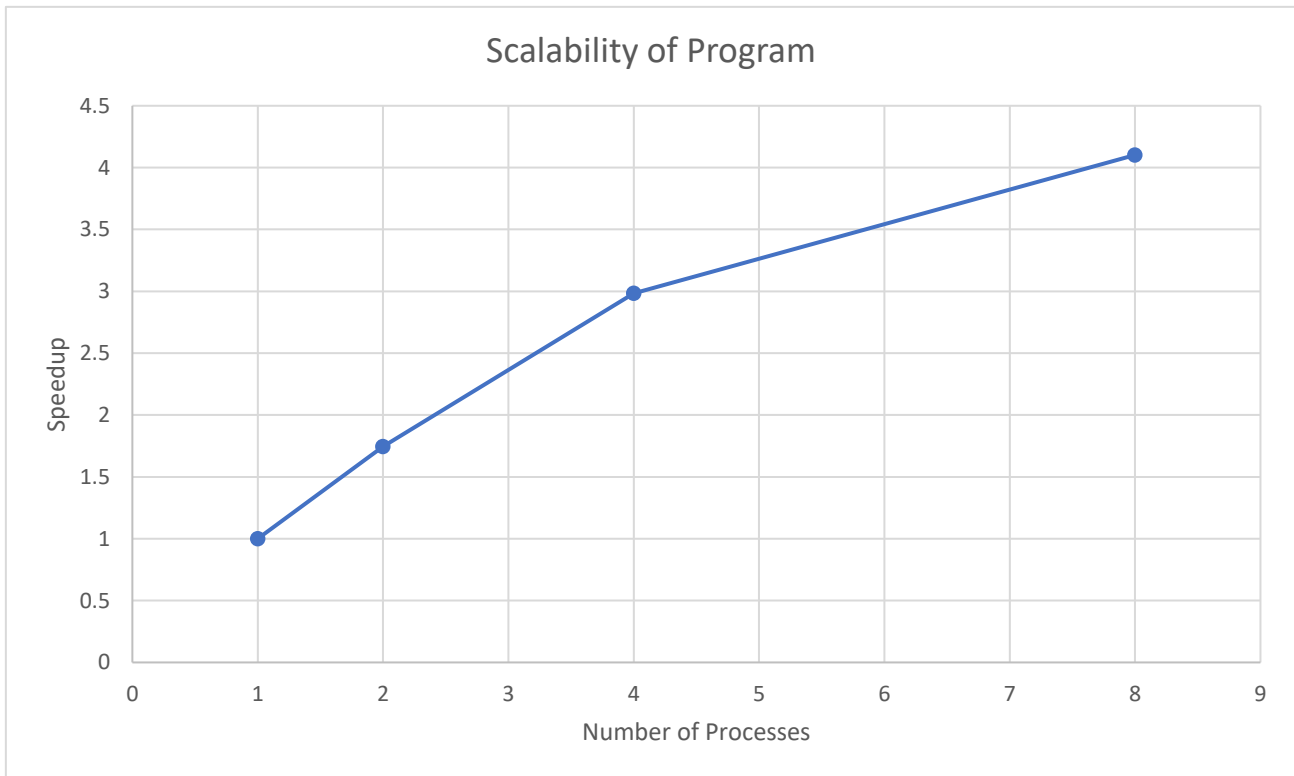


Homework 6 – MPI Color2Gray

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1. Object of the project:
 - a. Redo previous Color2Gray assignment using MPI instead of OpenMP
2. Details:
 - a. We now had to implement the color to gray code using MPI functions, specifically MPI_Scatter and MPI_Gather, to parallelize instead of OpenMP as used previously.
3. Results:
 - a. Number of Processes: [1, 2, 4, 8]
 - b. Time Elapsed (s): [0.0361, 0.0207, 0.0121, 0.0088]
 - c. Speedup: [1, 1.744, 2.983, 4.102]



4. Performance Improvements:
 - a. I am unsure about what speedup techniques are possible, but there was a speedup as the number of processes was increased as expected.