

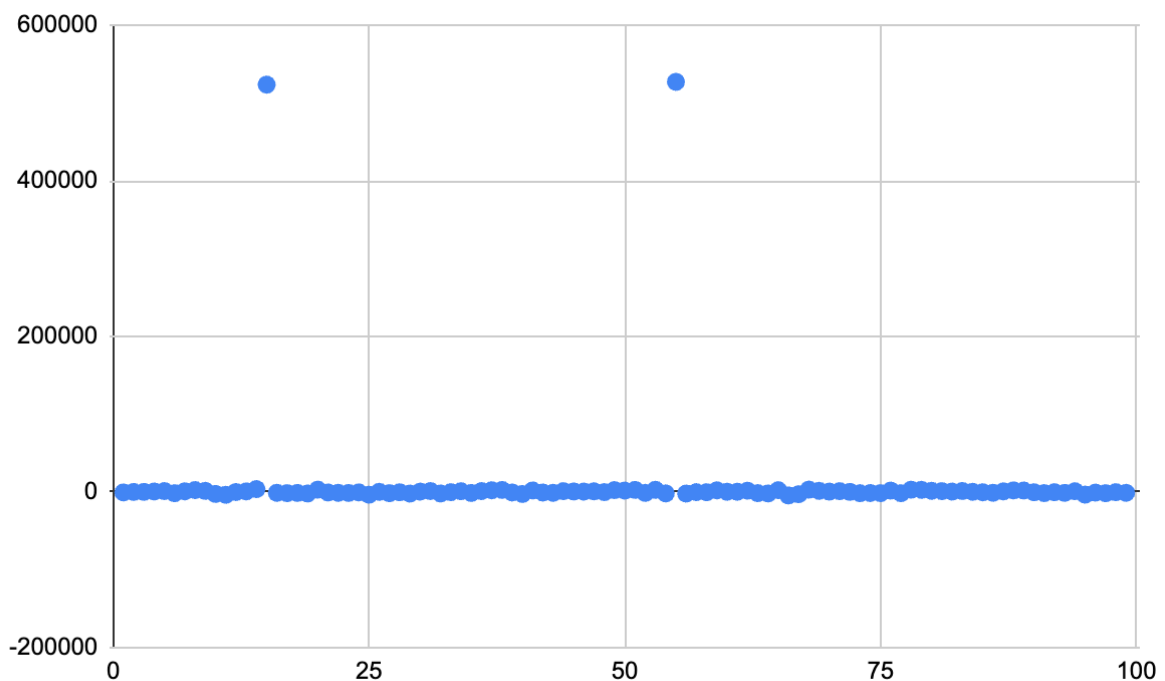
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Project #7

Fourier Analysis using MPI

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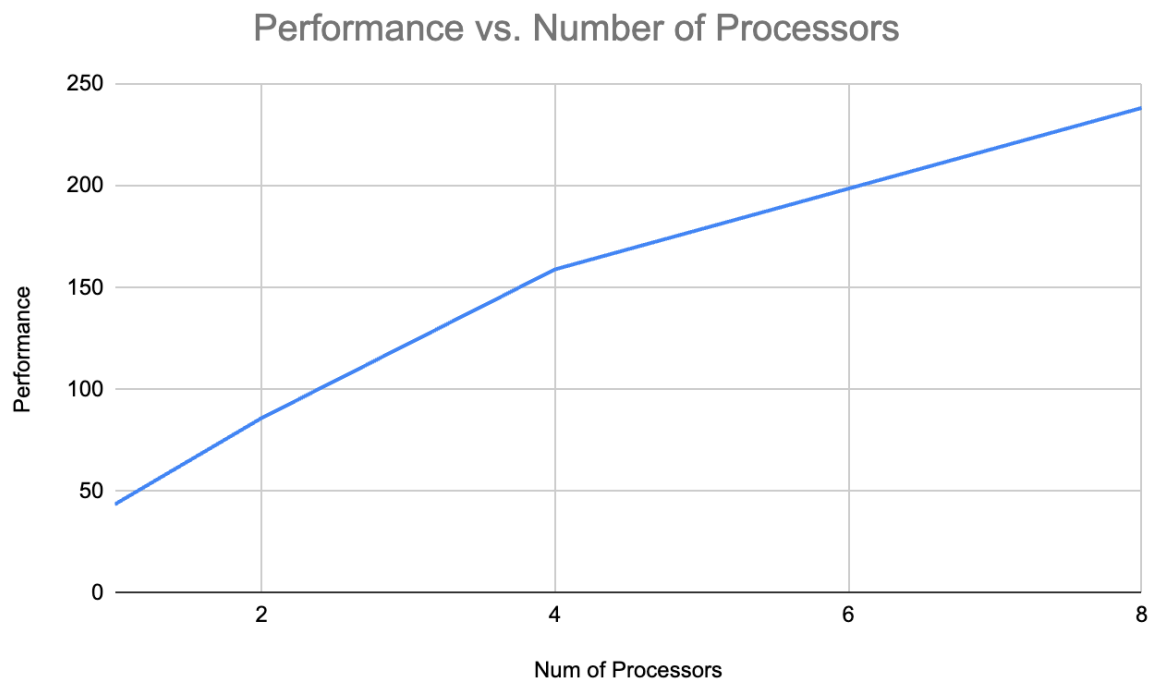
1. Show the Sums[*] scatterplot.



2. State what the secret sine-waves' periods are

Secret sine-waves' periods are at 15 and 55.

3. Show your graph of Performance vs. Number of Processors used.



4. What patterns are you seeing in the performance graph?

The performance shows an upward trend as the number of processors increases, and the trend closely resembles a linear line.

5. Why do you think the performances work this way?

As the number of processors increases, the workload is evenly distributed among them, ultimately enhancing the efficiency of processor operations. This observation is further validated by the graph, which demonstrates that a higher number of processors directly correlates with improved performance.