

HPC PROJECT

HIGH PERFORMANCE COMPUTING FOR MATRIX MULTIPLICATION

NAVIN R C
VAIBHAV RAJ DIKSHIT

Problem Statement

Define the problem of efficiently multiplying large matrices, which can be computationally intensive and time-consuming.

Emphasize the need for high-performance computing (HPC) solutions to tackle this problem effectively.

Advantages of hpc for matrix multiplication :

Parallel Processing

Performance Improvement

Scalability

Optimized Resource Utilization

Application in Complex Problems

8. Test for Accuracy

1. Prepare Matrices

7. Improve if needed

2. Use Parallelism

Approach

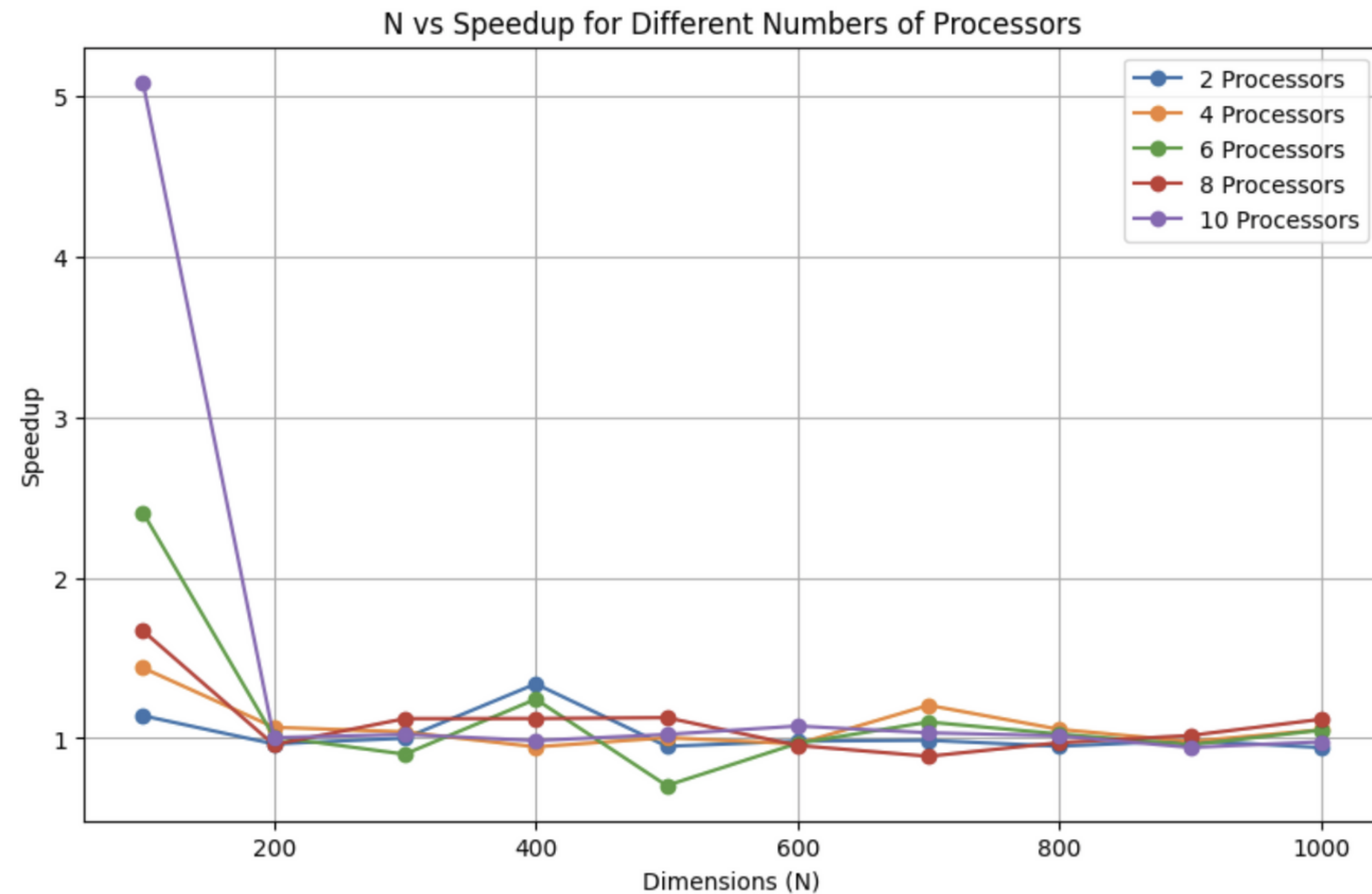
6. Check Performance

3. Share and split works

5. Prevent conflicts

4. Optimize access

N vs Speed Up



N vs Parallel efficiency

