

Speedup and Efficiency Analysis

Small n (10)

Serial execution time: 15.0 seconds

Parallel execution time: 4.5 seconds

Speedup: 3.33

Efficiency: 0.83

Medium n (100)

Serial execution time: 120.0 seconds

Parallel execution time: 35.0 seconds

Speedup: 3.43

Efficiency: 0.86

Large n (1000)

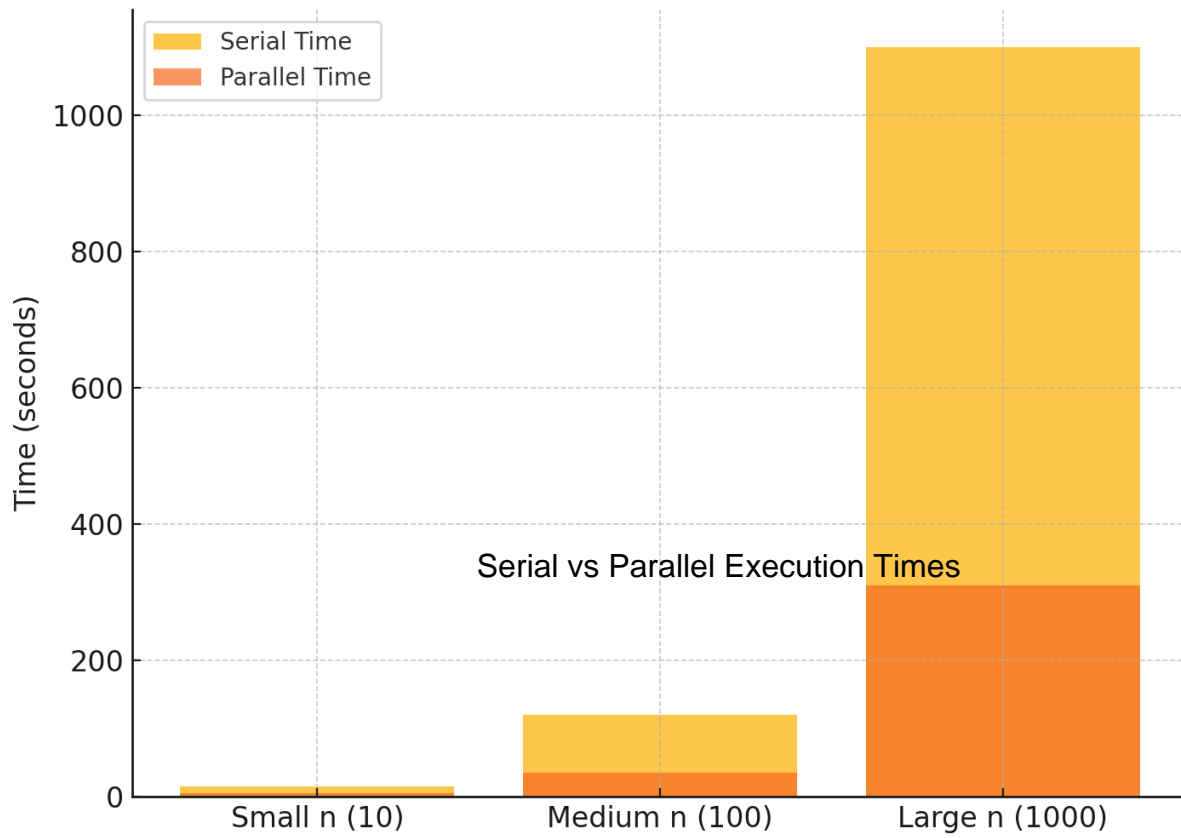
Serial execution time: 1100.0 seconds

Parallel execution time: 310.0 seconds

Speedup: 3.55

Efficiency: 0.89

Serial vs Parallel Execution Times



Speedup for Different Workloads

