

Arrows for Parallel Computations: Supplementary Material

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Abstract

This is supplementary material to our paper ‘Arrows for parallel computations’. It shows the speedup and mean overhead plots for all benchmarks.

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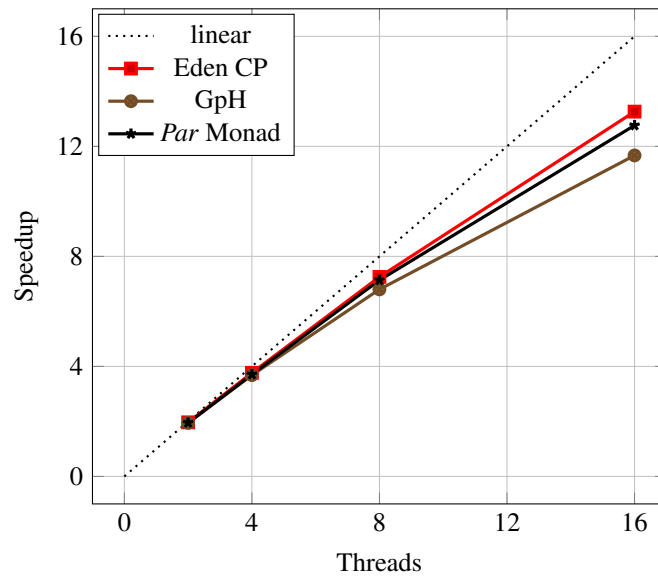
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1 Shared-Memory Plots

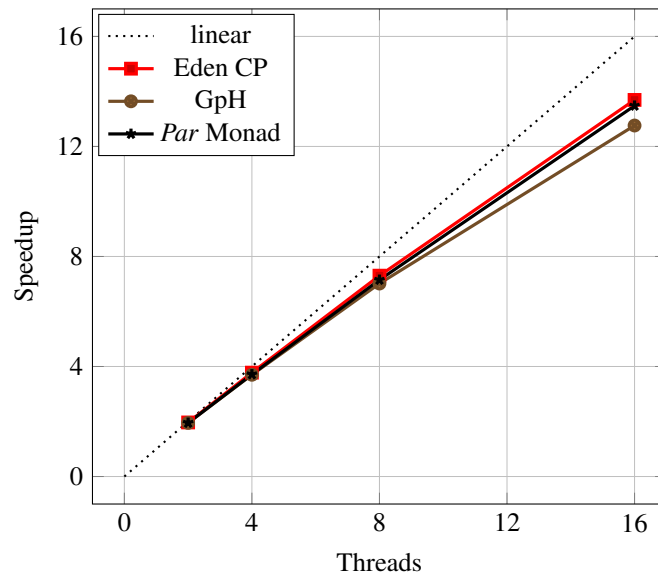
1.1 Rabin–Miller test

1.1.1 Speedup

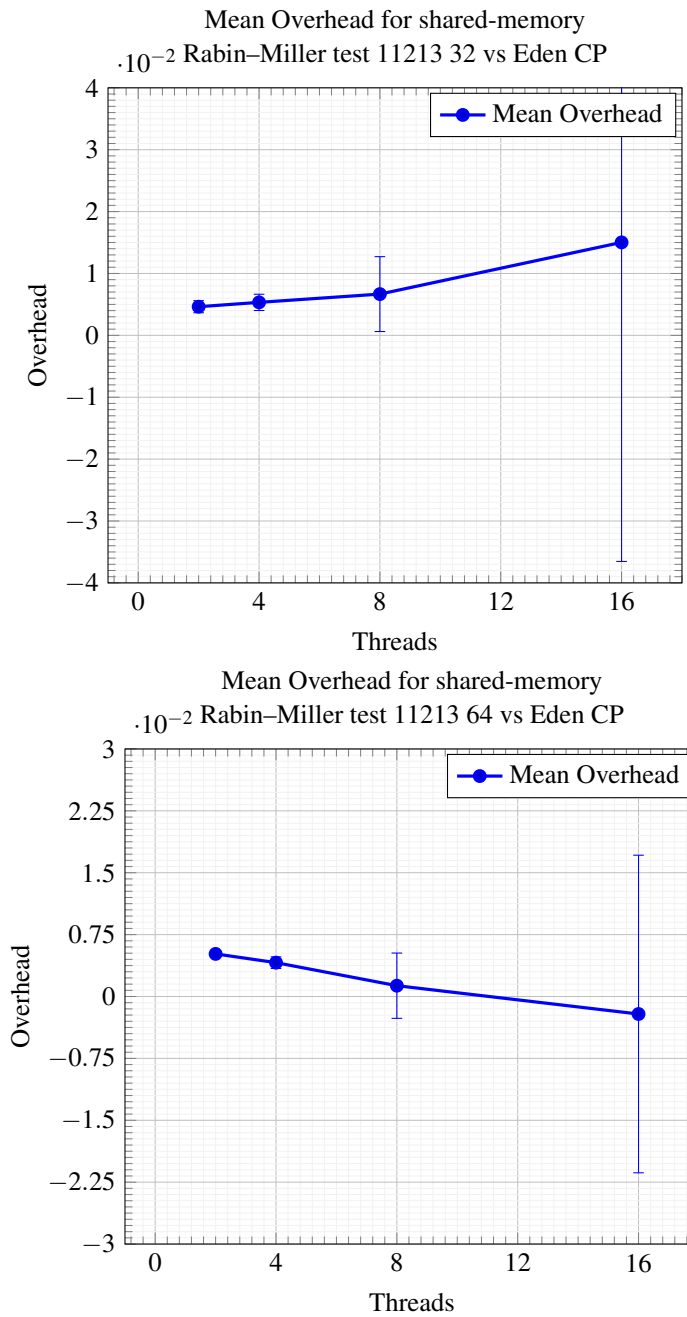
Speedup of Rabin–Miller test ‘11213 32’

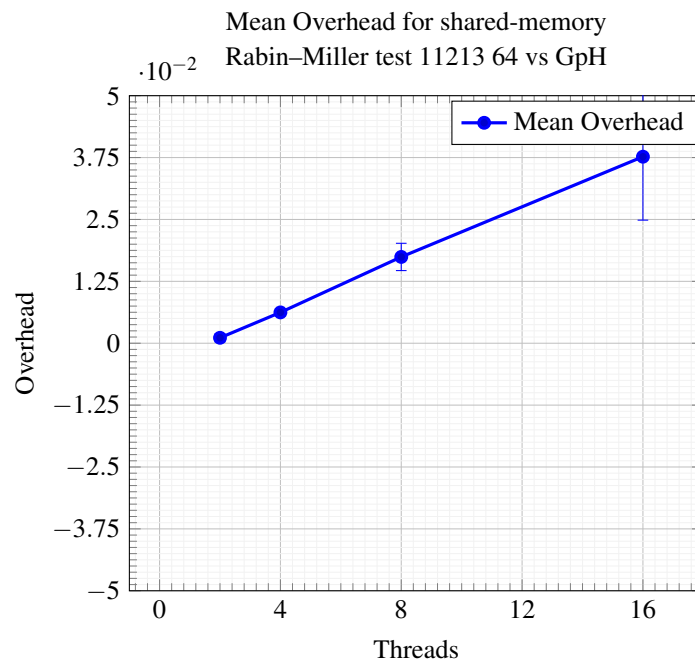
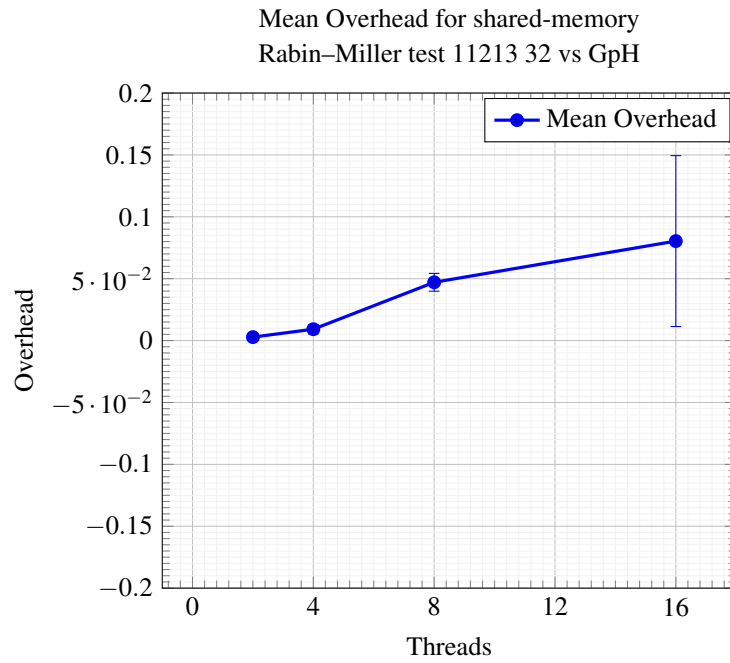


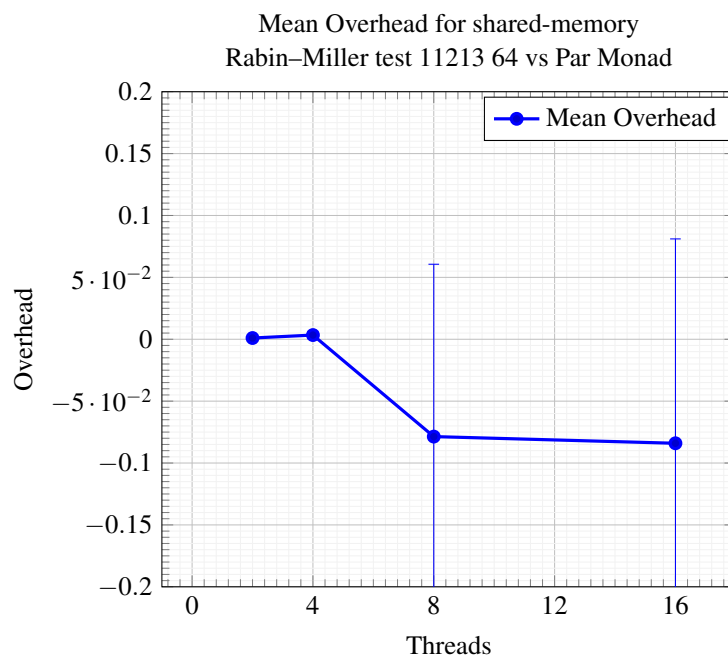
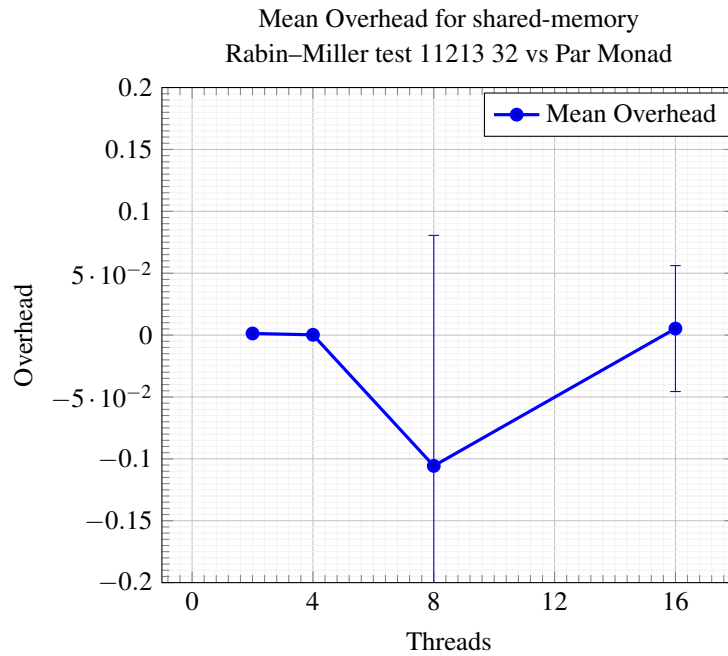
Speedup of Rabin–Miller test ‘11213 64’



1.1.2 Overhead



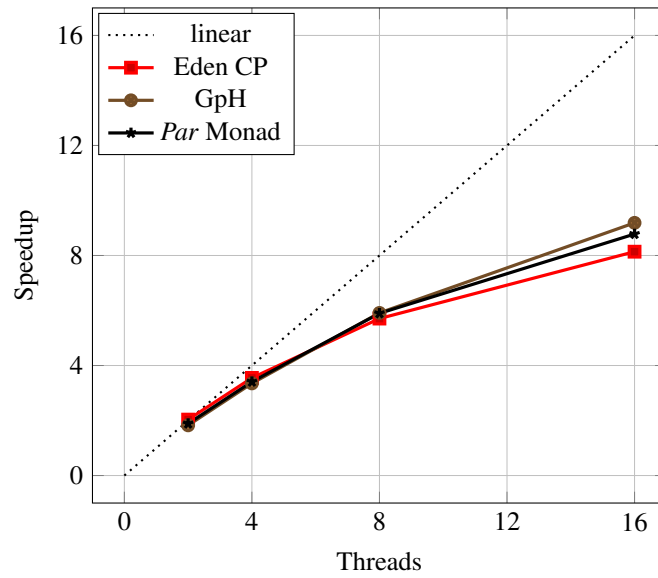




1.2 Sudoku

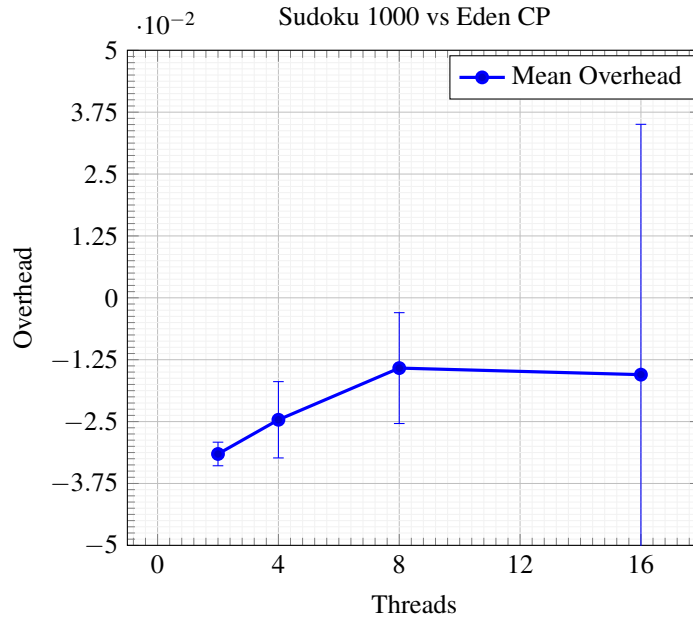
1.2.1 Speedup

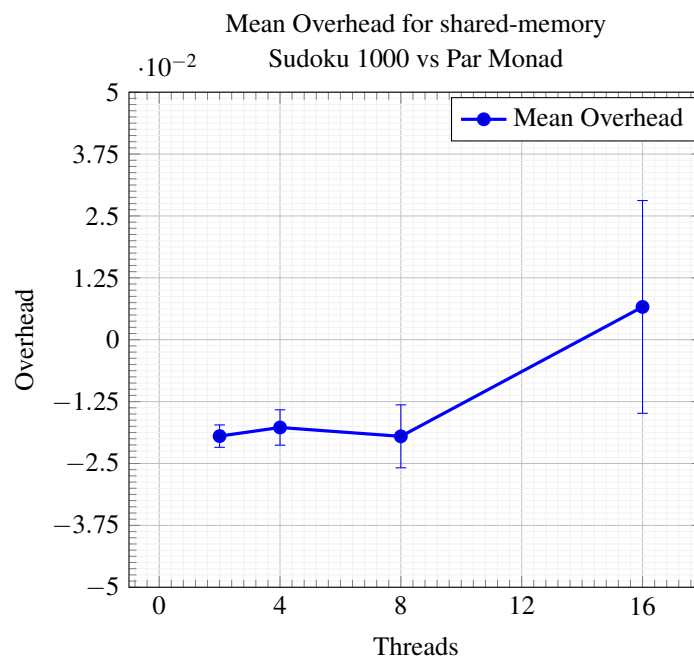
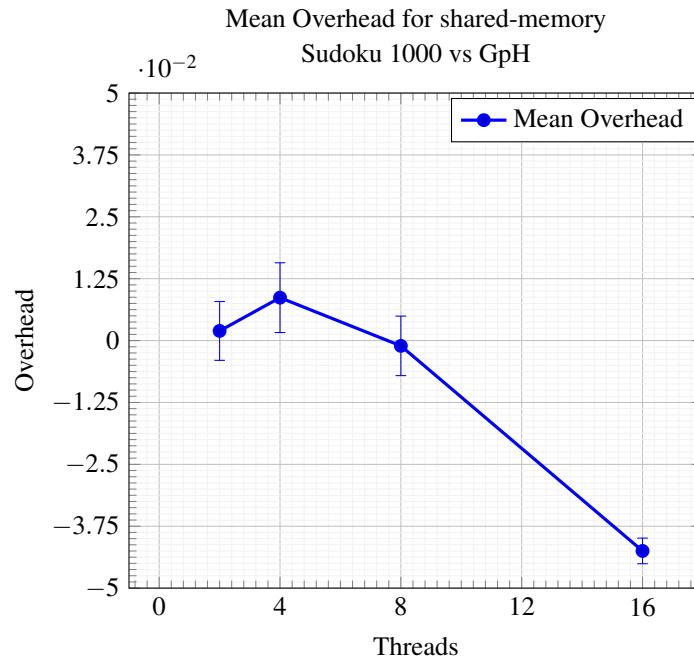
Parallel speedup of Sudoku '1000'



1.2.2 Overhead

Mean Overhead for shared-memory
Sudoku 1000 vs Eden CP

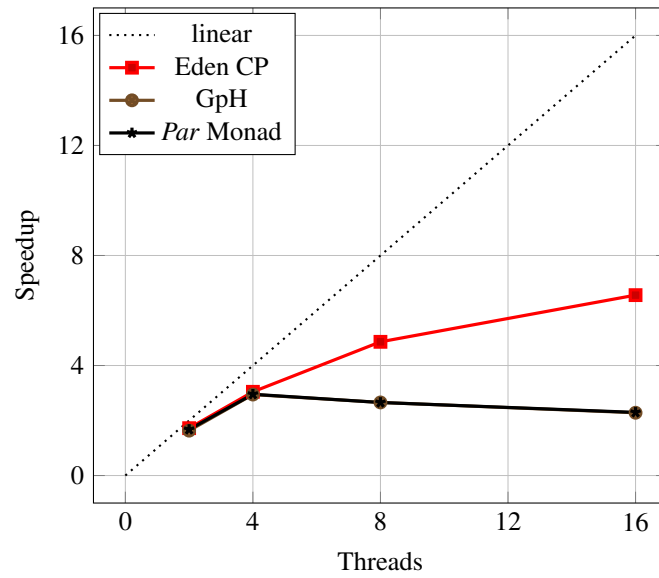




1.3 Gentleman

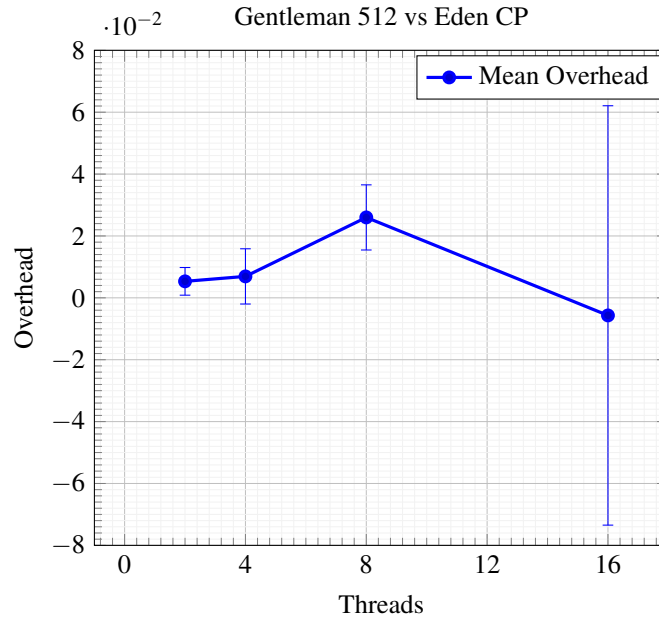
1.3.1 Speedup

Parallel speedup of Sudoku '512'



1.3.2 Overhead

Mean Overhead for shared-memory
Gentleman 512 vs Eden CP

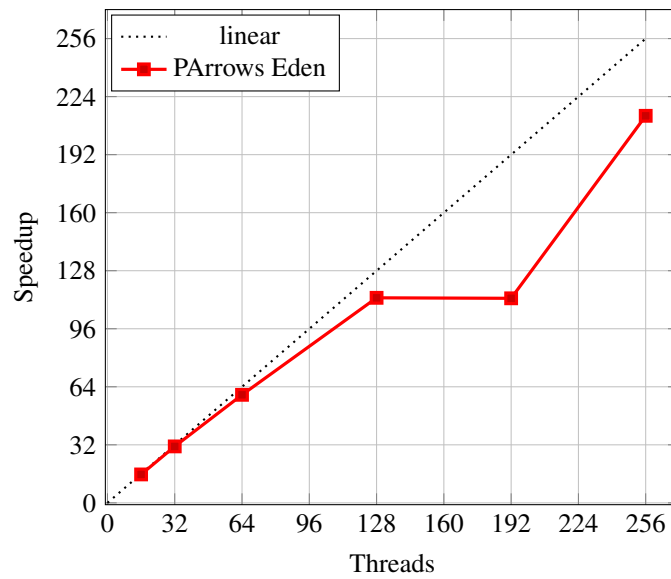


2 Distributed Plots

2.1 Rabin–Miller test

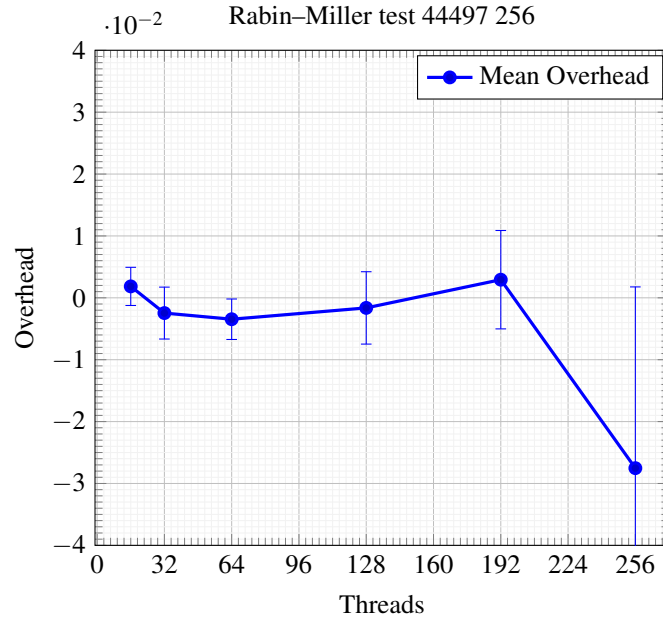
2.1.1 Speedup

Speedup of distributed Rabin–Miller test ‘44497 256’



2.1.2 Overhead

Mean Overhead for distributed
Rabin–Miller test 44497 256



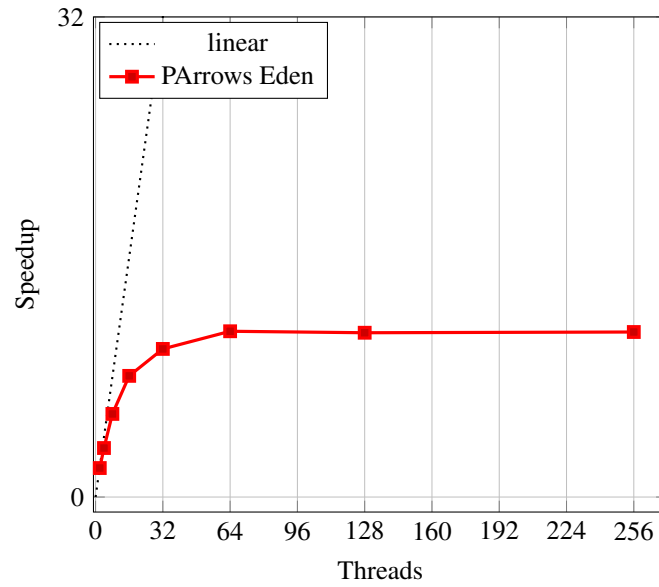
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2.2 Jacobi sum test

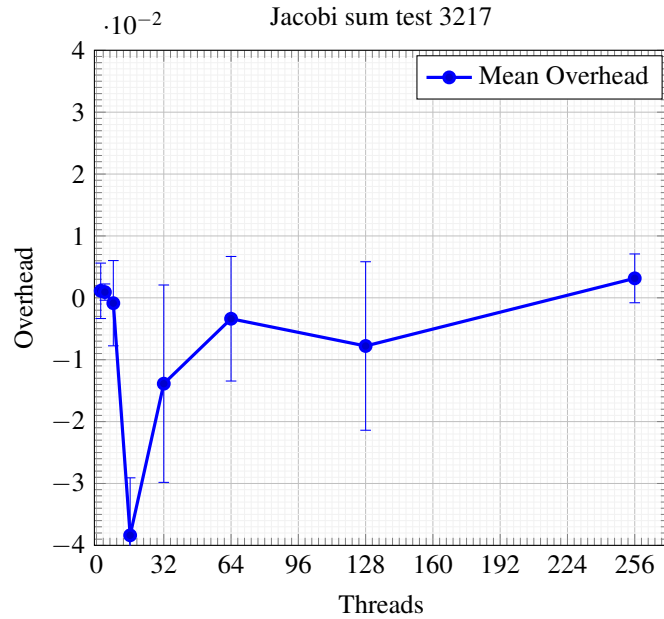
2.2.1 Speedup

Speedup of distributed Jacobi sum test '3217'

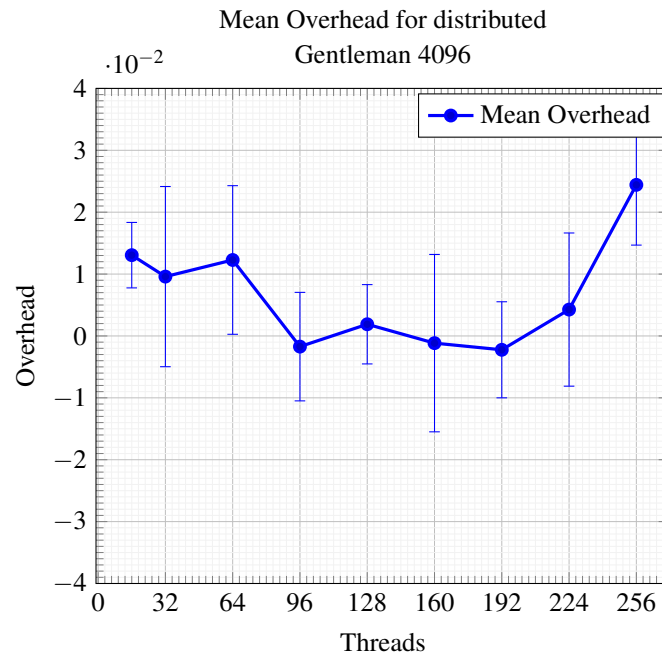


2.2.2 Overhead

Mean Overhead for distributed
Jacobi sum test 3217



2.3 Gentleman



2.3.1 Speedup

