High-Performance Computing Lab for CSE   **2024**

Student: Yannick Ramic   Discussed with: FULL NAME

Solution for Project 2   Due date: 25 March 2024, 23:59

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1. Computing π with `OpenMP` [20 points]
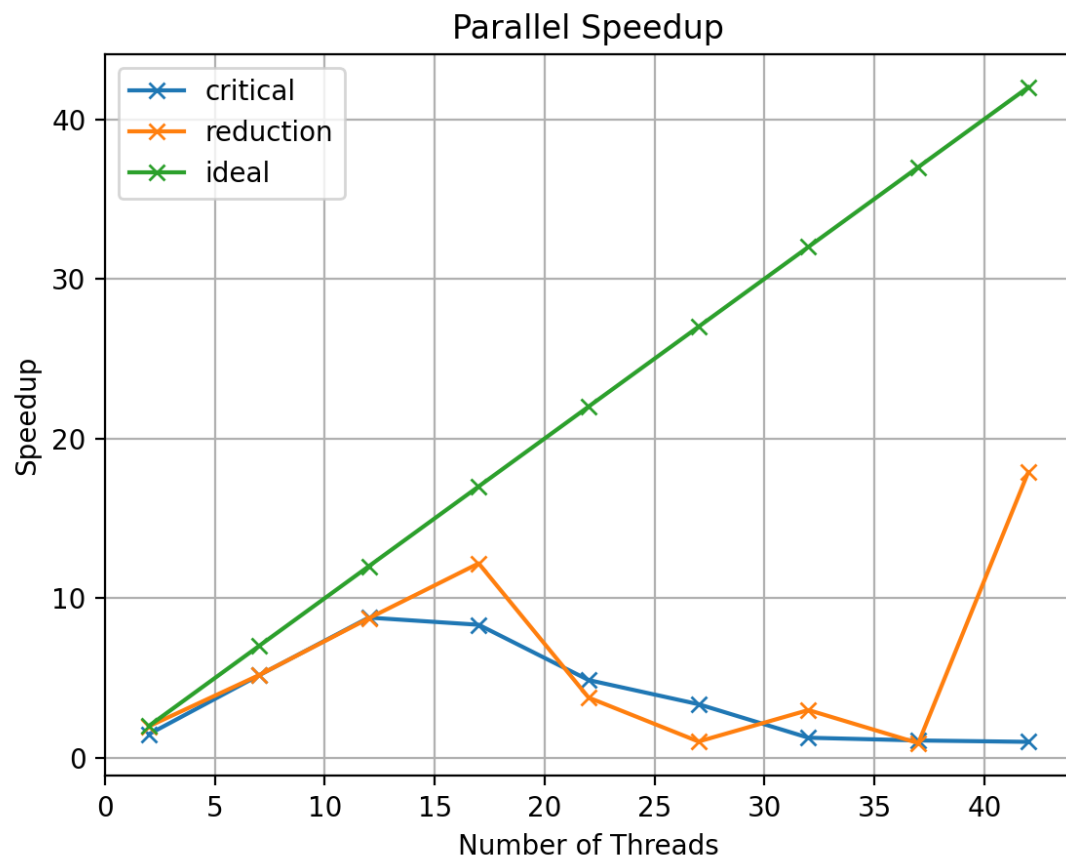
Strong Scaling Analysis:
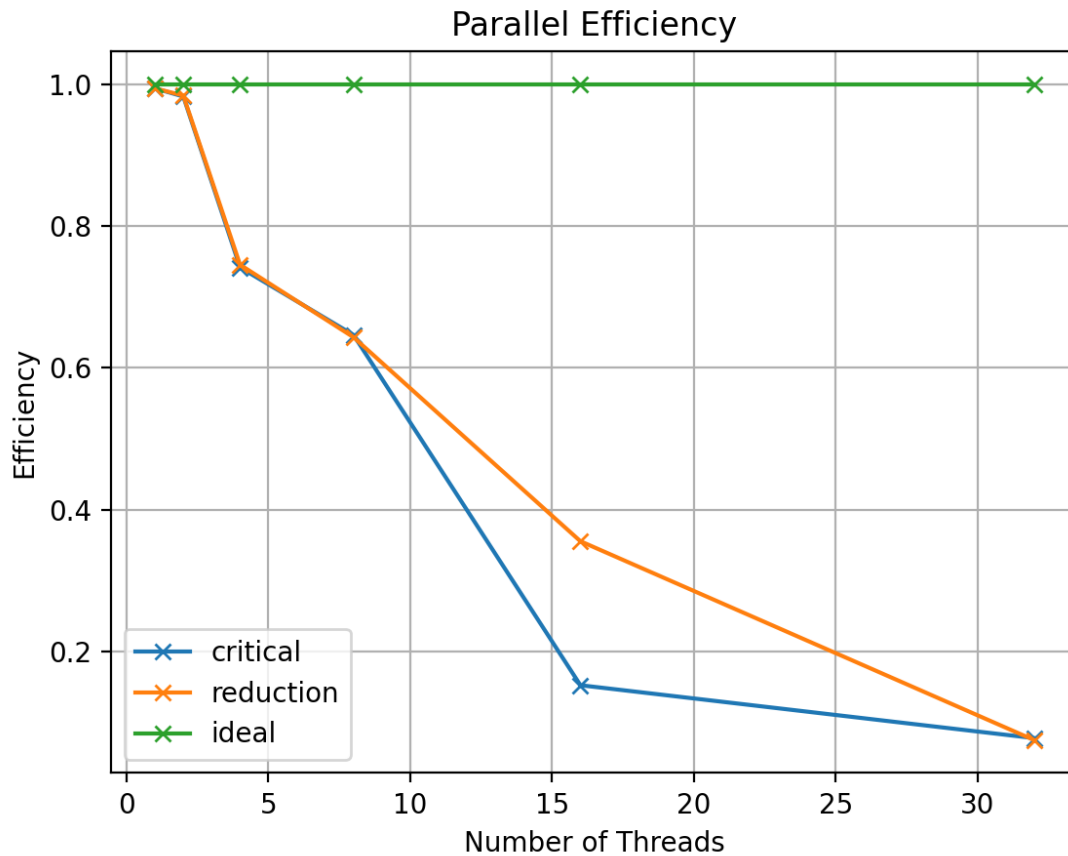
Figure 1: Parallel Speedup

Weak Scaling Analysis:

Figure 2: Parallel Efficiency

2. The Mandelbrot set using `OpenMP` [20 points]

3. Bug hunt [10 points]

4. Parallel histogram calculation using `OpenMP` [15 points]

5. Parallel loop dependencies with `OpenMP` [15 points]

6. Quicksort using `OpenMP` tasks [20 points]