

LU Decomposition using Pthreads and OpenMP

February 2024

1 Code overview

1.1 Pthreads

1.2 OpenMP

2 Design decisions

2.1 Pthreads

2.2 OpenMP

3 Runtime Analysis

Following are the obtained plots for Parallel efficiency vs number of threads

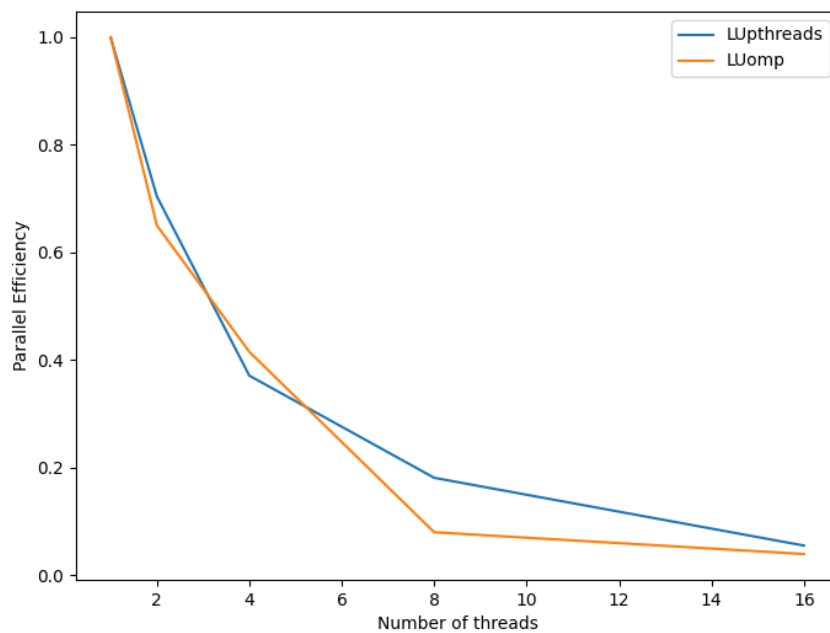


Figure 1: Both OpenMP and Pthreads