Timing Report

N = 10

1 process - 0.001555246sec

2 processes - 0.014924650sec

3 processes - 0.020116502sec

4 processes - 0.017337078sec

N = 100

1 process - 0.025794369sec

2 processes - 0.036429260sec

3 processes - 0.037747434sec

4 processes - 0.053712764sec

N = 1000

1 process - 0.187331418sec

2 processes - 0.166393023sec

3 processes - 0.175555757sec

4 processes - 0.185188464sec

The speed appears to get better for the multi-thread processes when the matrix increases to much larger sizes. Likely because of the startup time for threads.

The command line input was as follows:

java Jacobi (N) (processes) (left) (top) (right) (bottom) (epsilon)

all commandline inputs have a default as follows

n: 10

numProc: 4

left, top: 10.0

right, bottom: 800.00

epsilon: 0.1