

Lab 1

Part 1

Matrix output can be seen in “partA/myoutput”.

Elapsed time of worker 0: 0.000000s

Elapsed time of worker 1: 0.000015s

Elapsed time of worker 2: 0.000016s

Elapsed time of worker 3: 0.000072s

Elapsed time of worker 4: 0.000024s

Elapsed time of worker 5: 0.000013s

Elapsed time of worker 6: 0.000013s

Max time: 0.000072s

Total time: 0.000151s

Master elapsed time: 0.086787s

Part 2

N=100k, number of ranks varied:

R (# ranks)	Estimated result	Elapsed time
4	17.831822	0.023314
8	17.978398	0.035604
16	17.772067	0.051466
32	17.791280	0.340765

R=32, iterations varied:

N (# iterations)	Estimated result	Elapsed time
100	22.195654	0.428796
1k	17.214723	0.351122
10k	17.464632	0.312833
100k	17.791280	0.340765

Part 3

N=100k, number of ranks varied:

R (# ranks)	Estimated result	Elapsed time
4		
8		
16		
32		

R=32, iterations varied:

N (# iterations)	Estimated result	Elapsed time
100		
1k		
10k		
100k		