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EECS 245- Parallel Computing

Lab 03

1.1 MPI ring with blocking communication

# Procs	Elapsed Time(seconds)
4	0.000216
6	0.000238
8	0.000324
10	0.000459

1.2 MPI ring with non-blocking communication

# Procs	Elapsed Time(seconds)
4	0.000139
6	0.00019
8	0.000308
10	0.000475

1.3 MPI ring with communicator splitting

# Procs	Elapsed Time(seconds)
4	0.000553
6	0.000665
8	0.000826
10	0.001097

2.1 MPI collective communication with broadcast

# Procs	Elapsed Time(seconds)
4	0.000206
6	0.000292
8	0.000602

2.2 MPI collective communication with scatter & gather

# Procs	Size of Array	Elapsed time(seconds)
4	24	0.000476
6	24	0.000404
8	24	0.0007