Table1. Vary the number of mpi processes

N	Number of processes	Serial	Parallel	SpeedUp
200	2	64502	1288976	0.050041273
200	3	64502	1200045	0.053749651
200	4	64502	1200336	0.053736620
200	5	64502	1189277	0.054236313

Table2. Increase N (generate a bigger matrix) and if required vary the number of mpi processes

N	Number of processes	Serial	Parallel	SpeedUp
100	2	11571	1142976	0.010123572
200	5	64502	1189277	0.054236313
500	8	782635	1466340	0.533733649
1000	10	5578784	2646917	2.107653545
2000	8	44534642	16044958	2.775615991
5000	9	707748835	209470709	3.37874845785