

Problem size vs Computational time, speedup and efficiency (Number of threads = 20)				
Problem Size(n*n)	Non-OpenMP computational time(second)	OpenMP computational time(second)	Speedup	Efficiency
100	0.005311	0.004783	1.11039	0.0555195
200	0.053441	0.017533	3.04802	0.152401
300	0.187667	0.026872	6.98374	0.349187
400	0.36385	0.072767	5.00021	0.25001
500	0.681052	0.099087	6.87327	0.343664
600	1.09888	0.141896	7.74424	0.387212
700	1.87613	0.242258	7.74436	0.387218
800	2.64696	0.326097	8.11708	0.405854
900	3.73024	0.410809	9.08022	0.454011
1000	4.68736	0.631821	7.4188	0.37094

Weak Scaling (lxlogin5.lrz.de)					
Problem Size	Non - OpenMp Computational Time(sec)	Number of threads	OpenMp Computational Time(sec)	Speedup	Efficiency
100	0.009419	2	0.012847	0.733167	0.366584
200	0.055511	4	0.032732	1.69592	0.423981
400	0.404413	8	0.122441	3.30292	0.412865
800	3.25669	16	0.401612	8.10905	0.506815
Strong Scaling (Problem size = 800, time, efficiency, speedup) (lxlogin5.lrz.de)					
Number of threads	OpenMp Computational Time(sec)	Speedup	Efficiency	Non-OpenMp Computational Time(sec)	
4	1.19396	2.74033	0.685083	3.27184	
8	0.698676	4.59517	0.574397	3.21054	
12	0.506474	5.2844	0.440366	2.67641	
16	0.40399	7.78384	0.48649	3.14459	
20	0.326576	8.18556	0.409278	2.67321	
24	0.302498	8.9772	0.37405	2.71559	
28	0.317227	10.1717	0.363276	3.22675	
32	0.33592	8.2084	0.256512	2.75737	