

Harjot Mangat

EECS 245 – Parallel Computing

Lab 05

1.

Type	Numbers	Power	Run1 (sec)	Run2 (sec)	Run3 (sec)	Average Time(sec)
Base (No parallel_for)	2	3	0.003729	0.0041171	0.0041539	0.003999867
Base (No parallel_for)	20	3	0.037785	0.0433163	0.0335644	0.038221867
Base (No parallel_for)	20	10	0.040322	0.034408	0.032699	0.035809667
Parallel_for	2	3	0.012043	0.0135125	0.0125488	0.012701567
Parallel_for	20	3	0.065475	0.0444193	0.0408632	0.0502526
Parallel_for	20	10	0.049765	0.044906	0.0473518	0.047340933
Parallel_for	2000	50	4.99071	5.24127	5.03948	5.090486667
Base (No parallel_for)	2000	50	5.78165	5.35283	5.03864	5.39104

Added a parallel_for in the compute_powers function and to the loop for initializing the r[i] array with dcmplx values.