Table 1 - Small Problem

50 Parameters	Runtime (ms)						Speedup S	Efficiency E
Thread Count	Run 1	Run 2	Run 3	Run 4	Run 5	Average	50 Parameters	50 Parameters
1	0.87	0.38	0.87	0.89	0.40	0.68		
2	0.32	0.69	0.87	0.69	0.67	0.65	1.0540	0.5270
3	0.62	0.58	0.27	0.63	0.28	0.48	1.4364	0.4788
4	0.40	0.26	0.30	0.61	0.27	0.37	1.8610	0.4652
5	0.42	0.40	0.69	0.69	0.40	0.52	1.3117	0.2623
6	0.32	0.33	0.69	0.41	0.31	0.41	1.6608	0.2768
7	0.67	0.33	0.32	0.42	0.44	0.44	1.5599	0.2228
8	0.44	0.33	0.34	0.63	0.37	0.42	1.6252	0.2032
9	2.12	3.41	2.07	1.87	2.59	2.41	0.2831	0.0315
10	3.86	5.14	3.44	1.92	2.00	3.27	0.2085	0.0209
11	4.57	5.10	4.04	5.28	5.17	4.83	0.1413	0.0128
12	4.83	4.74	7.35	6.30	3.51	5.35	0.1277	0.01064
13	5.30	6.56	5.51	5.54	7.98	6.18	0.1105	0.00850
14	7.53	5.75	3.81	6.74	6.26	6.02	0.1134	0.00810
15	8.24	5.75	7.61	8.54	6.37	7.30	0.0935	0.00623
16	7.50	3.31	7.17	6.58	7.65	6.44	0.1060	0.00662
17	6.88	9.01	8.81	9.38	8.15	8.44	0.0808	0.00475
18	8.16	8.59	9.62	9.22	8.43	8.81	0.0775	0.00431
19	8.99	10.96	8.92	10.03	6.98	9.18	0.0744	0.00392
20	10.40	10.77	10.80	9.89	11.19	10.61	0.0643	0.00322
21	8.89	10.62	10.97	10.69	9.94	10.22	0.0668	0.00318
22	11.51	10.73	12.90	10.22	11.27	11.32	0.0603	0.00274
23	11.04	10.62	11.88	11.23	10.77	11.11	0.0614	0.00267
24	10.69	11.82	11.54	12.19	13.88	12.02	0.0568	0.00237
25	13.41	12.40	12.51	10.57	12.50	12.28	0.0556	0.00222
26	11.81	14.47	12.81	13.25	6.08	11.68	0.0584	0.00225
27	12.61	8.41	14.40	7.10	14.54	11.41	0.0598	0.00222
28	15.60	7.27	14.41	13.36	14.56	13.04	0.0524	0.00187
29	14.71	13.14	14.16	15.41	13.84	14.25	0.0479	0.00165

	30	16.51	15.79	15.54	15.46	15.93	15.85	0.0431	0.00144
	31	16.05	16.60	14.24	15.96	13.86	15.34	0.0445	0.00144
	32	16.98	18.12	18.03	14.36	13.19	16.14	0.0423	0.00132
	33	17.47	16.17	17.65	15.22	16.88	16.68	0.0409	0.00124
	34	17.32	16.45	13.83	16.06	17.45	16.22	0.0421	0.00124
	35	15.12	16.21	16.71	18.32	19.40	17.15	0.0398	0.00114
	36	17.90	18.90	17.03	16.41	16.50	17.35	0.0393	0.00109
	37	19.59	17.72	18.29	16.55	20.05	18.44	0.0370	0.00100
	38	18.52	15.03	18.19	14.91	18.56	17.04	0.0401	0.00105
	39	19.05	9.88	15.33	20.36	17.62	16.45	0.0415	0.00106
	40	20.45	15.56	18.02	15.88	16.92	17.36	0.0393	0.00098
	41	19.91	20.18	16.36	16.93	19.21	18.52	0.0369	0.00090
	42	20.35	15.33	19.45	21.94	17.92	19.00	0.0359	0.000855
	43	20.20	16.69	19.56	16.32	21.02	18.76	0.0364	0.000846
	44	14.70	18.71	22.45	19.42	20.18	19.09	0.0358	0.000813
	45	18.12	15.56	22.60	19.73	12.16	17.63	0.0387	0.000860
	46	19.19	21.95	18.99	20.32	20.58	20.21	0.0338	0.000734
	47	16.07	20.89	22.51	21.77	18.48	19.94	0.0342	0.000728
	48	24.03	21.23	25.64	21.00	22.13	22.81	0.0299	0.000624
	49	17.78	17.94	19.27	19.44	22.64	19.41	0.0352	0.000718
	50	21.18	23.23	17.04	21.30	21.80	20.91	0.0326	0.000653

Table 2 - Synchronous, Large Problem

500 Cities	Runtime (ms)						Speedup S	Efficiency E
Thread Count	Run 1	Run 2	Run 3	Run 4	Run 5	Average	500 Cities	500 Cities
1	2300	2309	2315	2305	2307	2307		
2	1197	1186	1202	1195	1196	1195	1.931	0.9653
3	816	826	827	823	826	824	2.800	0.9334
4	692	632	634	632	632	644	3.581	0.8952
5	945	957	956	951	960	954	2.419	0.4838
6	800	793	802	792	804	798	2.890	0.4817
7	683	694	692	689	684	688	3.351	0.4788
8	673	727	636	605	607	649	3.552	0.4440

	9	956	985	949	1025	988	981	2.353	0.2614
	10	886	908	879	873	868	883	2.613	0.2613
	11	920	918	947	922	921	926	2.493	0.2266
	12	938	901	917	933	908	919	2.510	0.2091
	13	949	955	952	924	934	943	2.447	0.1882
	14	977	914	897	944	927	932	2.476	0.1769
	15	932	963	953	912	966	945	2.441	0.1627
	16	941	966	950	929	930	943	2.446	0.1529
	17	966	953	968	953	945	957	2.410	0.1418
	18	929	963	937	939	967	947	2.436	0.1353
	19	941	940	934	938	944	940	2.455	0.1292
	20	952	952	940	933	946	944	2.443	0.1221
	21	945	959	991	955	968	963	2.395	0.1140
	22	966	970	932	957	940	953	2.421	0.1100
	23	961	963	946	937	942	950	2.429	0.1056
	24	942	998	943	963	963	962	2.398	0.0999
	25	976	989	968	970	969	974	2.368	0.0947
	26	988	1007	981	969	986	986	2.339	0.0900
	27	962	962	973	983	989	974	2.369	0.0877
	28	979	1003	1001	981	989	991	2.329	0.0832
	29	996	971	990	997	971	985	2.342	0.0808
	30	974	995	974	994	1002	988	2.336	0.0779
	31	986	980	986	989	990	986	2.340	0.0755
	32	1003	980	1002	992	1023	1000	2.307	0.0721
	33	1001	1015	1016	1027	1041	1020	2.262	0.0686
	34	1047	1049	1001	1041	996	1027	2.246	0.0661
	35	1030	1017	1037	1046	1041	1034	2.231	0.0637
	36	1026	984	1029	1040	1027	1021	2.259	0.0628
	37	1042	1037	1046	1015	1033	1035	2.230	0.0603
	38	1009	1039	1026	1052	1045	1034	2.231	0.05872
	39	1028	1009	1029	1054	1037	1031	2.237	0.05735
	40	1038	1066	1035	1036	1053	1046	2.206	0.05516
	41	1038	1037	1035	1025	1061	1039	2.220	0.05414

	42	1070	1049	1054	1078	1060	1062	2.172	0.05172
	43	1074	1057	1067	1077	1041	1063	2.170	0.05047
	44	1074	1089	1063	1052	1075	1071	2.155	0.04897
	45	1049	1073	1066	1044	1068	1060	2.176	0.04836
	46	1070	1058	1054	1071	1058	1062	2.172	0.04722
	47	1072	1070	1072	1089	1104	1082	2.133	0.04538
	48	1077	1077	1095	1077	1092	1084	2.129	0.04435
	49	1077	1080	1085	1067	1068	1075	2.145	0.04378
	50	1085	1068	1099	1096	1090	1088	2.121	0.04243