

Parallel K-means clustering with OpenMP - Times Analysis Graphs

TIME TABLE																																									
Sample Size = 1 000														Sample Size = 10 000														Sample Size = 100 000										Total Sample			
Serial	No. of Threads	Mean Time (Avg.)	Min. Value	Max. Value	Variance	Standard Deviation	Speed-Up	Efficiency	Mean Time (Avg.)	Min. Value	Max. Value	Variance	Standard Deviation	Speed-Up	Efficiency	Mean Time (Avg.)	Min. Value	Max. Value	Variance	Standard Deviation	Speed-Up	Efficiency	Mean Time (Avg.)	Min. Value	Max. Value	Variance	Standard Deviation	Speed-Up	Efficiency												
1	1	0.056 ms	0.055 ms	0.056 ms	0.000	0.001	1.000	1.000	1.213 ms	1.203 ms	1.218 ms	0.000	0.006	1.000	1.000	67.849 ms	67.637 ms	68.072 ms	0.039	0.198	1.000	1.000	211.104 ms	209.717 ms	212.875 ms	1.794	1.339	1.000	1.000												
2	2	0.040 ms	0.038 ms	0.042 ms	0.000	0.002	1.376	0.688	0.695 ms	0.694 ms	0.696 ms	0.000	0.001	1.745	0.872	34.890 ms	34.660 ms	35.409 ms	0.068	0.297	1.945	0.972	111.100 ms	109.205 ms	114.232 ms	3.703	1.924	1.900	0.950												
4	4	0.030 ms	0.029 ms	0.030 ms	0.000	0.001	1.878	0.470	0.443 ms	0.441 ms	0.444 ms	0.000	0.001	2.739	0.685	18.658 ms	18.572 ms	18.837 ms	0.011	0.106	3.636	0.909	56.878 ms	55.405 ms	58.727 ms	1.977	1.406	3.712	0.928												
8	8	0.026 ms	0.025 ms	0.027 ms	0.000	0.001	2.138	0.267	0.340 ms	0.337 ms	0.344 ms	0.000	0.003	3.568	0.446	10.788 ms	10.722 ms	10.829 ms	0.003	0.054	6.289	0.786	30.940 ms	30.184 ms	33.334 ms	1.799	1.341	6.823	0.853												
16	16	0.026 ms	0.025 ms	0.027 ms	0.000	0.001	2.172	0.136	0.289 ms	0.277 ms	0.298 ms	0.000	0.008	4.201	0.263	7.380 ms	6.919 ms	7.992 ms	0.313	0.560	9.193	0.575	19.710 ms	19.389 ms	20.178 ms	0.128	0.358	10.710	0.669												
32	32	0.026 ms	0.025 ms	0.027 ms	0.000	0.001	2.138	0.067	0.264 ms	0.260 ms	0.271 ms	0.000	0.004	4.592	0.143	5.758 ms	5.427 ms	5.974 ms	0.062	0.249	11.784	0.368	15.710 ms	15.129 ms	16.525 ms	0.301	0.548	13.438	0.420												
48	48	0.029 ms	0.027 ms	0.032 ms	0.000	0.002	1.891	0.039	0.256 ms	0.253 ms	0.261 ms	0.000	0.004	4.739	0.099	5.549 ms	5.196 ms	6.862 ms	0.540	0.735	12.228	0.255	14.328 ms	14.267 ms	14.391 ms	0.003	0.058	14.733	0.307												
64	64	0.347 ms	0.319 ms	0.364 ms	0.000	0.018	0.160	0.003	0.470 ms	0.356 ms	0.660 ms	0.014	0.119	2.580	0.040	5.080 ms	4.942 ms	5.283 ms	0.016	0.126	13.356	0.209	14.111 ms	13.340 ms	15.240 ms	0.770	0.878	14.960	0.234												

