CONCURRENCY & PARALLEL PROGRAMMING

Multithreaded Wave

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1   Table with results

Test on DAS4 are run for i = 1.000.000 and t = 1.000. The amount of threads used to generate the waves is increased to meassure the difference in speed for the program. Each amount of threads is run 12 times. The highest value and the lowest value is disregarded. The remaining data is used to plot a graph.

i = 1,000,000				t = 1,000			
1 thread	2 threads	3 threads	4 threads	5 threads	6 threads	7 threads	8 threads
~~3.61657~~	~~1.68174~~	1.67706	0.967125	~~0.955026~~	0.707557	0.907312	0.681091
3.68809	1.69923	1.62901	0.952905	1.11722	0.783331	0.888922	0.677461
3.68735	1.68316	1.71819	0.946174	1.10978	~~0.802315~~	~~0.919069~~	0.652223
3.75564	1.71218	1.66693	~~0.92198~~	1.19389	0.722481	0.87717	0.736193
3.82117	1.70358	1.69521	0.951281	1.18303	0.791841	0.895334	0.656148
3.85017	1.69776	1.74229	~~1.28526~~	1.18654	0.69405	0.900644	0.661786
3.74723	1.70488	1.73762	0.972624	~~1.21719~~	0.794964	0.91415	0.666394
3.80248	~~1.71702~~	1.6256	0.9513	1.18918	0.746098	0.888725	~~0.951125~~
3.79577	1.69529	~~1.85265~~	0.949003	1.16967	0.789424	0.894571	0.66652
3.86725	1.70905	~~1.45095~~	0.958044	1.17816	0.716474	0.899676	0.710156
~~3.91954~~	1.70727	1.81612	0.964905	1.19274	0.733274	~~0.882675~~	~~0.640491~~
3.87399	1.70378	1.82773	0.960786	1.20634	~~0.682611~~	0.8860616	0.669534
Average of the remaining 10:							
3.788914	1.701978	1.713576	0.9564147	1.173655	0.7479494	0.89525656	0.6777506
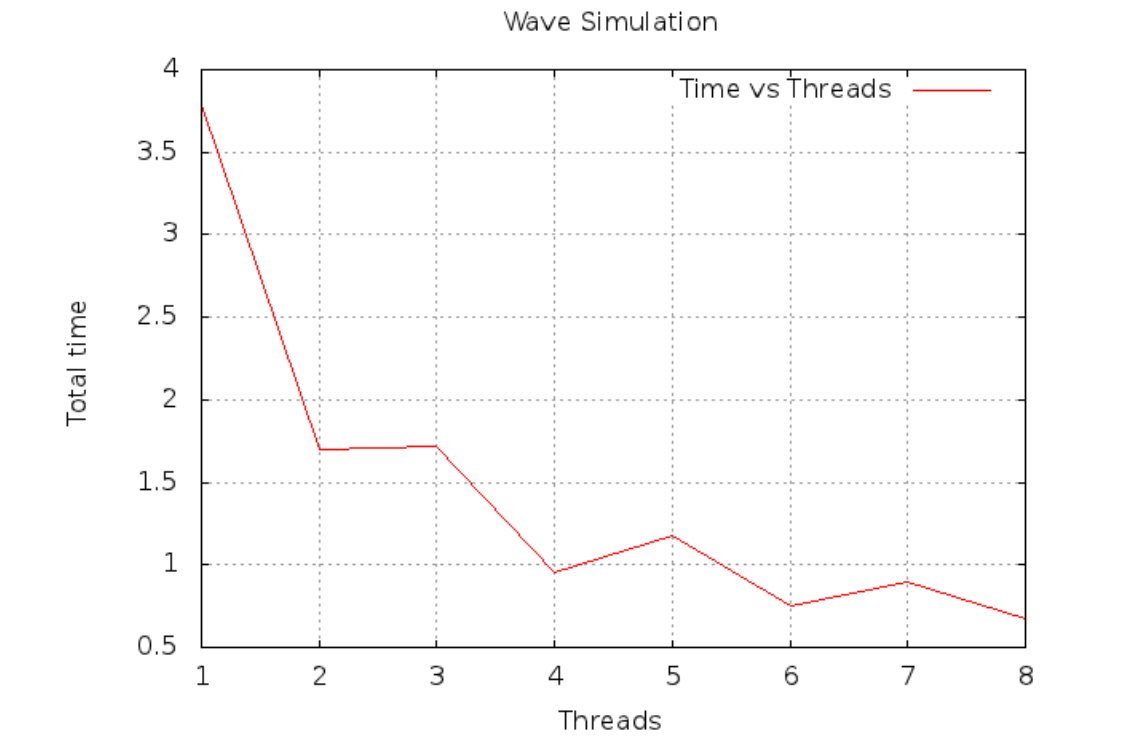
Apparantly the preformance is better if an even number of threads is used.

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