MPI Code

	5 elements	10 elements	20 elements	40 elements	80 elements
1 core	TS = 0.000321 S = 1 E = 1	TS = 0.000292 S = 1 E = 1	TS = 0.001505 S = 1 E = 1	TS = 0.000539 S = 1 E = 1	TS = 0.000440 S = 1 E = 1
2 cores	TP = 0.014670 S = 0.021881 E = 0.01094	TP = 0.032918 S = 0.00887 E = 0.00443	TP = 1.473654 S = 0.0010212 E = 0.000510	TP = 0.009859 S = 0.05467 E = 0.02733	TP = 0.022800 S = 0.01929 E = 0.00964
4 cores	TP = 0.048121 S = 0.00667 E = 0.001667	TP = 0.033702 S = 0.008664 E = 0.002166	TP = 0.072804 S = 0.020671 E = 0.0051677	TP = 0.039669 S = 0.013587 E = 0.003396	TP = 0.454041 S = 0.0009777 E = 0.0002444
8 cores	TP = 0.087477 S = 0.003669 E = 0.0004586	TP = 0.145585 S = 0.0020057 E =0.00025	TP = 0.070239 S = 0.021426 E = 0.0026783	TP = 0.107084 S = 0.005033 E = 0.000629	TP = 0.056641 S = 0.007768 E = 0.000971
16 cores	TP = 0.267129 S = 0.0012016 E = 0.0000751	TP = 0.286874 S = 0.001017 E = 0.0000635	TP = 0.189672 S = 0.007934 E = 0.0004958	TP = 0.244066 S = 0.002208 E = 0.000138	TP = 0.161703 S = 0.0027210 E = 0.00017006

OpenMP Code

p.size /cores	core = 1	core = 2	core = 4	core = 8	core = 16
p.size= 5	TS= 0.000004 S= 1.000 E= 1.000	TP= 0.000909 S= 0.00440044 E= 0.00220022	TP= 0.000246 S= 0.016260 E= 0.004065	TP= 0.000389 S= 0.0102827 E= 0.0012853375	TP= 0.000954 S= 0.004192872 E= 0.0002620545
p.size= 10	TS= 0.000006 S= 1.000 E= 1.000	TP= 0.000135 S= 0.044444 E= 0.022222	TP= 0.008202 S= 0.000731528 E= 0.000182882	TP= 0.000479 S= 0.0125260 E= 0.00156575	TP= 0.000991 S= 0.006054490 E= 0.000378405
p.size= 20	TS= 0.000004 S= 1.000 E= 1.000	TP= 0.000124 S= 0.0322580 E= 0.016129	TP= 0.001307 S= 0.00306044 E= 0.00076511	TP= 0.000824 S= 0.004854368 E= 0.000606796	TP= 0.000796 S= 0.005025125 E= 0.00031407
p.size= 40	TS= 0.000004 S= 1.000 E= 1.000	TP= 0.001319 S= 0.0030326 E= 0.0015163	TP= 0.001082 S= 0.0036968 E= 0.0009242	TP= 0.000442 S= 0.0090497 E= 0.0011312	TP= 0.001144 S= 0.0034965 E= 0.0002185
p.size= 80	TS= 0.000006 S= 1.000 E= 1.000	TP= 0.000102 S= 0.0588235 E= 0.02941175	TP= 0.000480 S= 0.0125 E= 0.003125	TP= 0.000441 S= 0.0136054 E= 0.0017006	TP= 0.001128 S= 0.0053191 E= 0.0003324