

Time of MPI

Comm_sz	Number of elements				
	16	256	1024	2048	4096
1	0.0158	0.0958	0.0025	0.0019	0.0026
2	0.007	0.003	0.003	0.003	0.010
4	0.0009	0.0011	0.0012	0.0010	0.0014
8	0.0018	0.0007	0.0013	0.0049	0.0022
12	0.0027	0.0012	0.0026	0.0029	0.0030

Speed of MPI

Comm_sz	Number of elements				
	16	256	1024	2048	4096
1	0.0158	0.0958	0.0025	0.0019	0.0026
2	0.4430	0.0313	1.2	1.578	3.846
4	0.0569	0.0114	0.48	0.5263	0.5384
8	0.0113	0.0073	0.52	2.578	0.8461
12	0.1708	0.0125	1.04	1.526	1.153

Efficiency of MPI

Comm_sz	Number of elements				
	16	256	1024	2048	4096
1	0.0158	0.0958	0.0025	0.0019	0.0026
2	0.2215	0.01565	0.6	0.789	1.923
4	0.014225	0.00285	0.48	0.12	0.1346
8	0.0014125	0.0073	0.0009125	0.32225	0.1057625
12	0.010675	0.00078125	0.065	0.095375	0.0720625

Time of OpenMp

Comm_sz	Number of elements				
	16	256	1024	2048	4096
1	0.004507	0.004235	0.002639	0.002924	0.002499
2	0.002632	0.003894	0.001432	0.002948	0.001908
4	0.001764	0.002189	0.002550	0.002840	0.004487
8	0.014187	0.001304	0.001570	0.002625	0.001339
12	0.001479	0.002889	0.002448	0.004265	0.003665

Speed of OpenMp

Comm_sz	Number of elements				
	16	256	1024	2048	4096
1	0.004507	0.004235	0.002639	0.002924	0.002499
2	0.58398	0.919481	0.54263	0.00821	0.763505
4	0.391391	0.516883	0.966275	0.971272	0.79552
8	3.14777	0.30791	0.594922	0.897743	0.535814
12	0.328156	0.682172	0.927624	0.45862	0.46659

Efficiency of OpenMp

Comm_sz	Number of elements				
	16	256	1024	2048	4096
1	0.004507	0.004235	0.002639	0.002924	0.002499
2	0.856193	0.543785	0.921439	0.495929	0.654874
4	0.638747	0.483668	0.258725	0.257394	0.139236
8	0.0397107	0.405962	0.210111	0.139238	0.23329
12	0.253944	0.122159	0.0898352	0.0571317	0.0568213