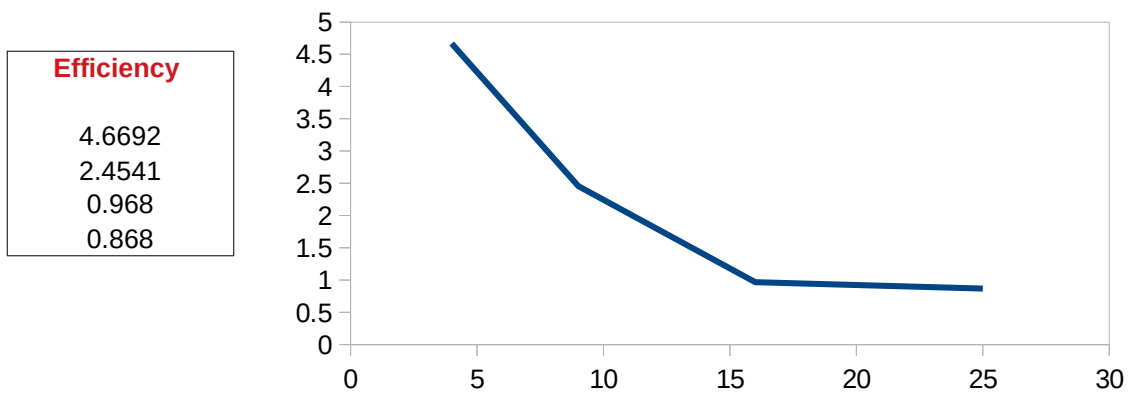


MPI - Grey

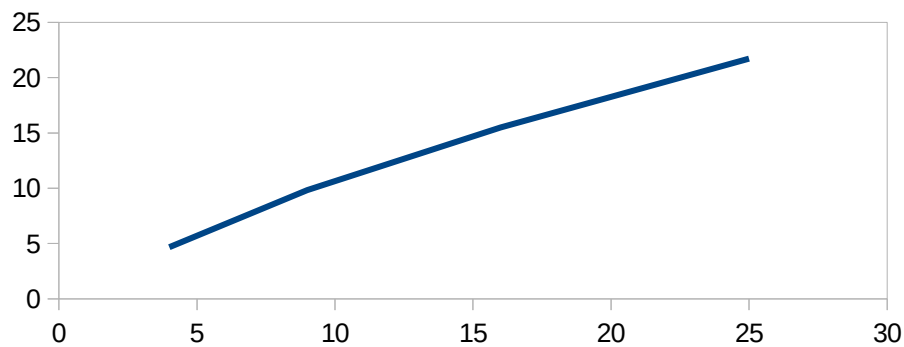
Num Processes	Size			
	x/4	x/2	x	2x
1	1.0558	1.9974	3.8736	8.565
4	0.4505	0.7455	0.8296	3.2916
9	0.2074	0.3702	0.3946	1.0829
16	0.061	0.1603	0.2501	0.4459
25	0.0485	0.1286	0.1785	0.3943

Efficiency

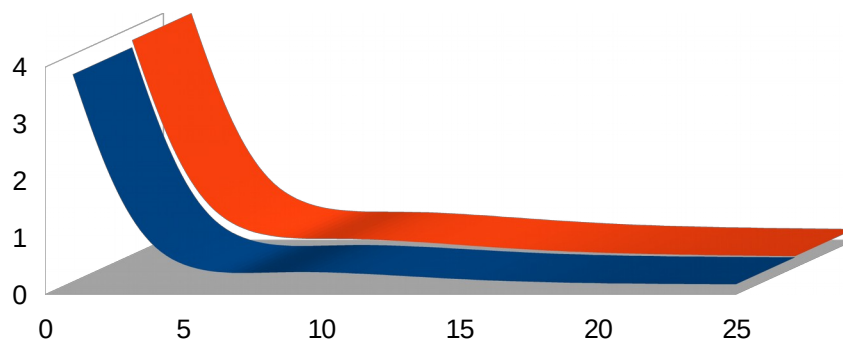


Speed Up	4.6692	9.8165	15.4882	21.7008
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Speed Up



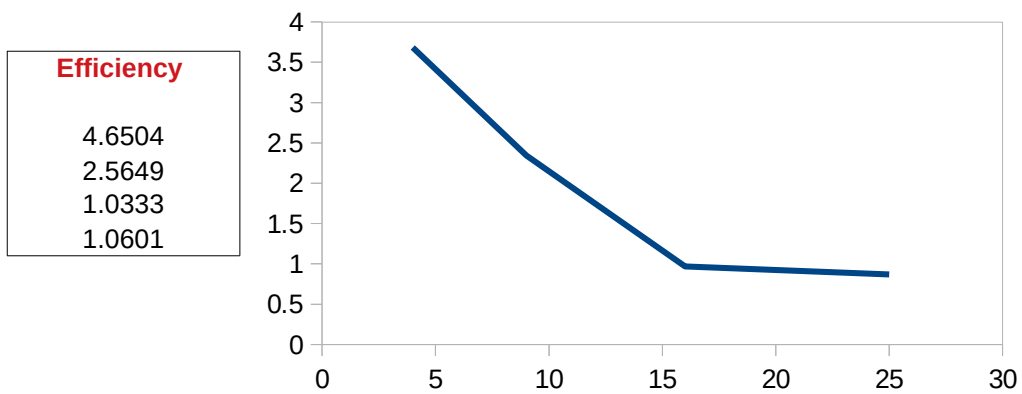
MPI (Grey) +REDUCE



MPI - RGB

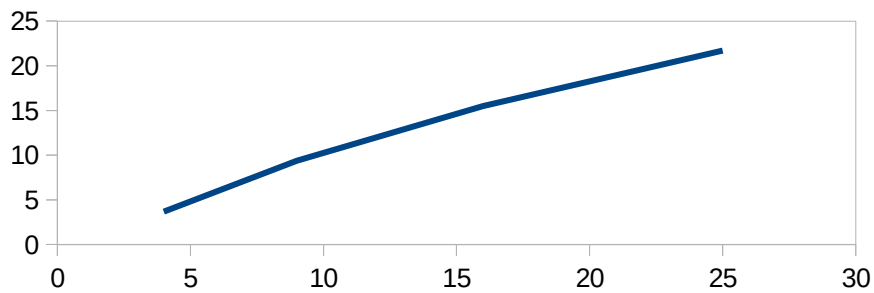
Num Processes	Size			
	x/4	x/2	x	2x
1	2.9091	5.8028	11.6107	24.5321
4	0.8065	1.2491	2.4967	4.9802
9	0.2846	0.5681	1.1317	2.3137
16	0.1778	0.3515	0.7023	1.3016
25	0.1203	0.2149	0.4381	0.8322

Efficiency

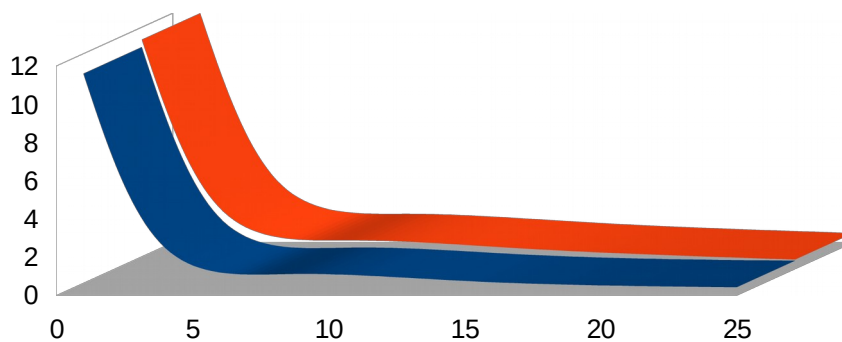


Speed Up	4.6504	10.2595	16.5324	26.5024
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Speed Up



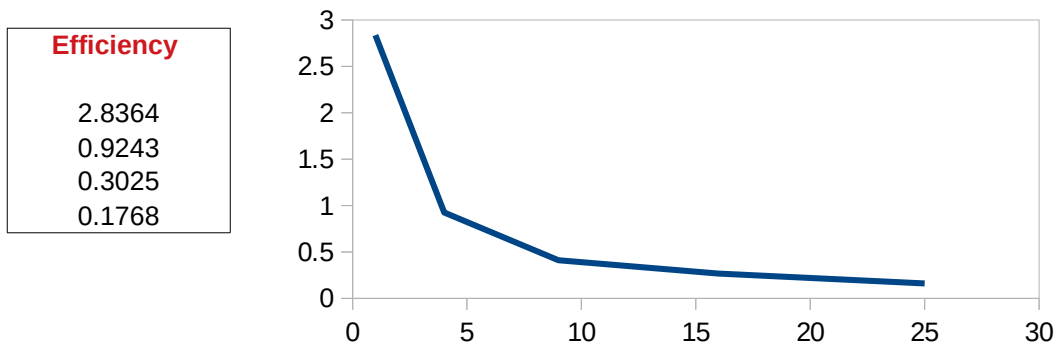
MPI (RGB) +REDUCE



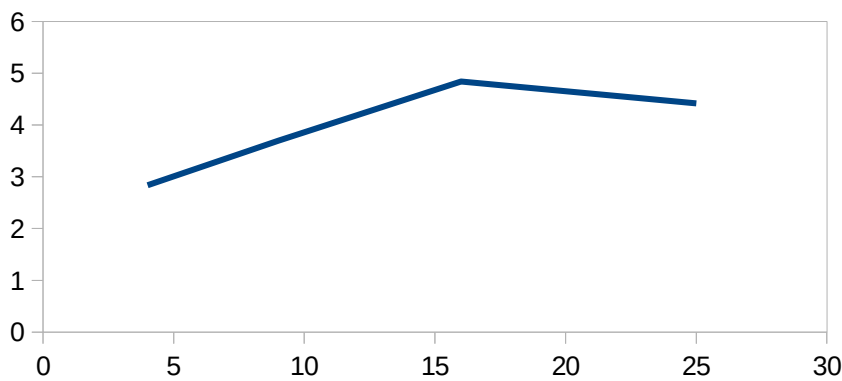
MPI & OPENMP - Grey

Num Processes	Size			
	x/4	x/2	x	2x
1	1.0073	1.9679	4.2461	7.8961
4	0.2758	0.4274	1.497	1.6927
9	0.304	0.5612	1.1485	1.8246
16	0.3866	0.4693	0.8773	1.7121
25	0.392	0.533	0.9609	1.9092

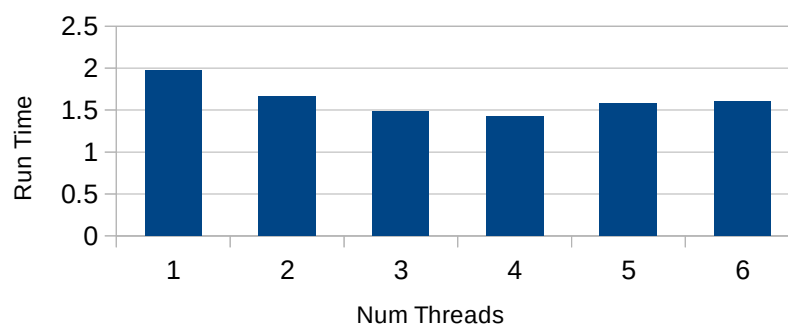
Efficiency



Speed Up	2.8364	3.6971	4.84	4.4189
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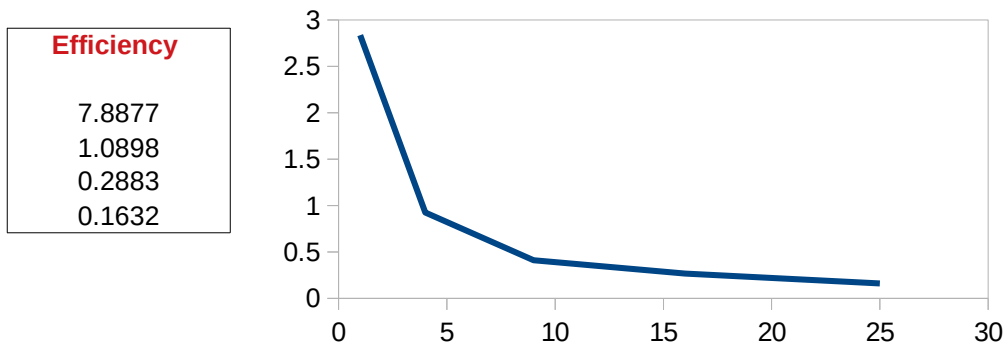
MPI & OpenMp - 1 process



MPI & OPENMP - RGB

Num Processes	Size			
	x/4	x/2	x	2x
1	2.9568	5.9053	11.8079	23.6391
4	0.8116	1.2696	1.497	5.0679
9	0.848	1.3721	2.7088	5.4694
16	0.8326	1.2891	2.56	5..8893
25	0.7463	1.4343	2.8935	5.7162

Efficiency



Speed Up	7.8877	4.3591	4.6125	4.0808
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Speed Up

