

<b> Matrix </b>	<b> Processors </b>	<b>Time / manual</b>	<b>Inf Norm / manual</b>	<b>Time / dgemm</b>	<b>Inf Norm / dgemm</b>
50		0.001339	1,625,625.0	0.000280	1,625,625.0
50		0.001196	1,625,625.0	0.000549	1,625,625.0
50		0.001221	1,625,625.0	0.000327	1,625,625.0
50		0.001198	1,625,625.0	0.000275	1,625,625.0
50		0.001192	1,625,625.0	0.000275	1,625,625.0
50		0.001198	1,625,625.0	0.000273	1,625,625.0
100		0.009352	25,502,500.0	0.001989	25,502,500.0
100		0.010935	25,502,500.0	0.002078	25,502,500.0
100		0.009532	25,502,500.0	0.002036	25,502,500.0
100		0.009452	25,502,500.0	0.003692	25,502,500.0
100		0.009453	25,502,500.0	0.002046	25,502,500.0
100		0.009330	25,502,500.0	0.002878	25,502,500.0

<b> Matrix </b>	<b> Processors </b>	<b>Time / manual</b>	<b>Inf Norm / manual</b>	<b>Time / dgemm</b>	<b>Inf Norm / dgemm</b>
50		0.001198	1,625,625.0	0.000273	1,625,625.0
50		0.001207	1,625,625.0	0.000277	1,625,625.0
50		0.001203	1,625,625.0	0.000279	1,625,625.0
100		0.009300	25,502,500.0	0.001984	25,502,500.0
100		0.011436	25,502,500.0	0.002175	25,502,500.0
100		0.009349	25,502,500.0	0.001974	25,502,500.0
500		3.036239	15,687,562,500.0	0.649100	15,687,562,500.0
500		3.046358	15,687,562,500.0	0.648188	15,687,562,500.0
500		3.079162	15,687,562,500.0	0.646728	15,687,562,500.0
500		3.144015	15,687,562,500.0	0.649152	15,687,562,500.0
1000		20.152267	250,500,250,000.0	5.141762	250,500,250,000.0
1000		19.991013	250,500,250,000.0	5.130485	250,500,250,000.0
1000		19.986013	250,500,250,000.0	5.131284	250,500,250,000.0
1000		20.326687	250,500,250,000.0	5.139508	250,500,250,000.0

<b> Matrix </b>	<b> Processors </b>	<b>Time / mpi</b>	<b>Inf Norm / mpi</b>	<b>Time / manual</b>	<b>Inf Norm / manual</b>
50	5	0.008958	75,625.0	0.001088	75,625.0
50	5	0.008924	75,625.0	0.001087	75,625.0
50	5	0.008960	75,625.0	0.001089	75,625.0
50	5	0.008933	75,625.0	0.001089	75,625.0
50	5	0.008925	75,625.0	0.001088	75,625.0
50	5	0.008914	75,625.0	0.001088	75,625.0
100	5	0.038111	1,102,500.0	0.008443	1,102,500.0
100	5	0.038198	1,102,500.0	0.008453	1,102,500.0
100	5	0.038174	1,102,500.0	0.008453	1,102,500.0
100	5	0.038084	1,102,500.0	0.008454	1,102,500.0
100	5	0.038198	1,102,500.0	0.008459	1,102,500.0
100	5	0.038247	1,102,500.0	0.008617	1,102,500.0

<b> Matrix </b>	<b> Processors </b>	<b>Time / mpi</b>	<b>Inf Norm / mpi</b>	<b>Time / manual</b>	<b>Inf Norm / manual</b>
50	5	0.009033	75,625.0	0.001095	75,625.0
50	5	0.008928	75,625.0	0.001123	75,625.0
50	5	0.008975	75,625.0	0.001087	75,625.0
100	5	0.038091	1,102,500.0	0.008466	1,102,500.0
100	5	0.038131	1,102,500.0	0.008528	1,102,500.0
100	5	0.038197	1,102,500.0	0.008449	1,102,500.0
500	5	1.358874	637,562,500.0	2.393659	637,562,500.0
500	5	1.367390	637,562,500.0	2.380557	637,562,500.0
500	5	1.362464	637,562,500.0	2.319429	637,562,500.0
500	5	1.358222	637,562,500.0	2.378163	637,562,500.0
1000	5	7.291051	10,100,250,000.0	17.179521	10,100,250,000.0
1000	5	7.340551	10,100,250,000.0	17.143703	10,100,250,000.0
1000	5	7.283727	10,100,250,000.0	17.212086	10,100,250,000.0
1000	5	7.353827	10,100,250,000.0	17.172394	10,100,250,000.0

<b> Matrix </b>	<b> Processors </b>	<b>Time / mpi</b>	<b>Inf Norm / mpi</b>	<b>Time / manual</b>	<b>Inf Norm / manual</b>
50	5	0.009035	83,811.0	0.001208	83,811.0
50	5	0.008932	83,811.0	0.001103	83,811.0
50	5	0.008888	83,811.0	0.001088	83,811.0
100	5	0.037540	338,563.0	0.008523	338,563.0
100	5	0.037636	338,563.0	0.008522	338,563.0
100	5	0.037552	338,563.0	0.008451	338,563.0
500	5	1.350460	8,078,358.0	2.395111	8,078,358.0
500	5	1.328560	8,078,358.0	2.397888	8,078,358.0
500	5	1.359001	8,078,358.0	2.391396	8,078,358.0
500	5	1.323249	8,078,358.0	2.394876	8,078,358.0
1000	5	7.143116	31,600,720.0	17.156587	31,600,720.0
1000	5	7.045932	31,600,720.0	17.116244	31,600,720.0
1000	5	7.149100	31,600,720.0	17.177210	31,600,720.0
1000	5	7.089481	31,600,720.0	17.191204	31,600,720.0

<b> Matrix </b>	<b> Processors </b>	<b>Time / manual</b>	<b>Inf Norm / manual</b>	<b>Time / dgemm</b>	<b>Inf Norm / dgemm</b>
50		0.001202	89,502.0	0.000280	89,502.0
50		0.001196	89,502.0	0.000276	89,502.0
50		0.001191	89,502.0	0.000278	89,502.0
100		0.009326	353,266.0	0.001976	353,266.0
100		0.009313	353,266.0	0.001984	353,266.0
100		0.009330	353,266.0	0.001985	353,266.0
500		3.039778	8,117,937.0	0.660509	8,117,937.0
500		3.030908	8,117,937.0	0.644442	8,117,937.0
500		3.052243	8,117,937.0	0.645495	8,117,937.0
500		3.028897	8,117,937.0	0.649714	8,117,937.0
1000		21.223333	31,896,067.0	5.537096	31,896,067.0
1000		20.835579	31,896,067.0	5.389093	31,896,067.0
1000		20.613177	31,896,067.0	5.260293	31,896,067.0
1000		20.402660	31,896,067.0	5.315662	31,896,067.0