Using	|Matrix|	Time / manual	Inf Norm / manual	Time / dgemm	Inf Norm / dgemm
./A4-mpi-manual-cblas -r	50	0.001191	89,502.0	0.000292	89,502.0
./A4-mpi-manual-cblas -r	50	0.001198	89,502.0	0.000277	89,502.0
./A4-mpi-manual-cblas -r	50	0.002133	89,502.0	0.000281	89,502.0
./A4-mpi-manual-cblas -r	50	0.001196	89,502.0	0.000276	89,502.0
./A4-mpi-manual-cblas -r	50	0.001186	89,502.0	0.000279	89,502.0
./A4-mpi-manual-cblas -r	50	0.001208	89,502.0	0.000279	89,502.0
./A4-mpi-manual-cblas -r	100	0.009325	353,266.0	0.001976	353,266.0
./A4-mpi-manual-cblas -r	100	0.009433	353,266.0	0.001986	353,266.0
./A4-mpi-manual-cblas -r	100	0.009892	353,266.0	0.002030	353,266.0
./A4-mpi-manual-cblas -r	100	0.009310	353,266.0	0.001984	353,266.0
./A4-mpi-manual-cblas -r	100	0.009311	353,266.0	0.003972	353,266.0
./A4-mpi-manual-cblas -r	100	0.009313	353,266.0	0.002515	353,266.0
./A4-mpi-manual-cblas -r	50	0.001187	89,502.0	0.000280	89,502.0
./A4-mpi-manual-cblas -r	50	0.001201	89,502.0	0.000281	89,502.0
./A4-mpi-manual-cblas -r	50	0.001240	89,502.0	0.000280	89,502.0
./A4-mpi-manual-cblas -r	50	0.001190	89,502.0	0.000279	89,502.0
./A4-mpi-manual-cblas -r	50	0.001583	89,502.0	0.000276	89,502.0
./A4-mpi-manual-cblas -r	50	0.001195	89,502.0	0.000277	89,502.0
./A4-mpi-manual-cblas -r	100	0.009364	353,266.0	0.001984	353,266.0
./A4-mpi-manual-cblas -r	100	0.009343	353,266.0	0.001987	353,266.0
./A4-mpi-manual-cblas -r	100	0.009307	353,266.0	0.001966	353,266.0
./A4-mpi-manual-cblas -r	100	0.009316	353,266.0	0.001985	353,266.0
./A4-mpi-manual-cblas -r	100	0.009366	353,266.0	0.001989	353,266.0
./A4-mpi-manual-cblas -r	100	0.009341	353,266.0	0.002004	353,266.0

Using	|Matrix|	Time / manual	Inf Norm / manual	Time / dgemm	Inf Norm / dgemm
./A4-mpi-manual-cblas -i	50	0.001189	1,625,625.0	0.000286	1,625,625.0
./A4-mpi-manual-cblas -i	50	0.001218	1,625,625.0	0.000287	1,625,625.0
./A4-mpi-manual-cblas -i	50	0.001195	1,625,625.0	0.000278	1,625,625.0
./A4-mpi-manual-cblas -i	50	0.001286	1,625,625.0	0.000298	1,625,625.0
./A4-mpi-manual-cblas -i	50	0.001201	1,625,625.0	0.000291	1,625,625.0
./A4-mpi-manual-cblas -i	50	0.001263	1,625,625.0	0.000282	1,625,625.0
./A4-mpi-manual-cblas -i	100	0.009347	25,502,500.0	0.001969	25,502,500.0
./A4-mpi-manual-cblas -i	100	0.012126	25,502,500.0	0.002094	25,502,500.0
./A4-mpi-manual-cblas -i	100	0.010703	25,502,500.0	0.002217	25,502,500.0
./A4-mpi-manual-cblas -i	100	0.010268	25,502,500.0	0.002099	25,502,500.0
./A4-mpi-manual-cblas -i	100	0.009789	25,502,500.0	0.002116	25,502,500.0
./A4-mpi-manual-cblas -i	100	0.010275	25,502,500.0	0.002292	25,502,500.0
./A4-mpi-manual-cblas -i	50	0.001339	1,625,625.0	0.000280	1,625,625.0
./A4-mpi-manual-cblas -i	50	0.001196	1,625,625.0	0.000549	1,625,625.0
./A4-mpi-manual-cblas -i	50	0.001221	1,625,625.0	0.000327	1,625,625.0
./A4-mpi-manual-cblas -i	50	0.001198	1,625,625.0	0.000275	1,625,625.0
./A4-mpi-manual-cblas -i	50	0.001192	1,625,625.0	0.000275	1,625,625.0
./A4-mpi-manual-cblas -i	50	0.001198	1,625,625.0	0.000273	1,625,625.0
./A4-mpi-manual-cblas -i	100	0.009352	25,502,500.0	0.001989	25,502,500.0
./A4-mpi-manual-cblas -i	100	0.010935	25,502,500.0	0.002078	25,502,500.0
./A4-mpi-manual-cblas -i	100	0.009532	25,502,500.0	0.002036	25,502,500.0
./A4-mpi-manual-cblas -i	100	0.009452	25,502,500.0	0.003692	25,502,500.0
./A4-mpi-manual-cblas -i	100	0.009453	25,502,500.0	0.002046	25,502,500.0
./A4-mpi-manual-cblas -i	100	0.009330	25,502,500.0	0.002878	25,502,500.0

Using	|Matrix|	Time / manual	Inf Norm / manual	Time / dgemm	Inf Norm / dgemm
./A4-mpi-manual-cblas -r	50	0.001199	89,502.0	0.000278	89,502.0
./A4-mpi-manual-cblas -r	50	0.001195	89,502.0	0.000272	89,502.0
./A4-mpi-manual-cblas -r	50	0.001199	89,502.0	0.000278	89,502.0
./A4-mpi-manual-cblas -r	100	0.009332	353,266.0	0.001993	353,266.0
./A4-mpi-manual-cblas -r	100	0.009302	353,266.0	0.001988	353,266.0
./A4-mpi-manual-cblas -r	100	0.009300	353,266.0	0.001981	353,266.0
./A4-mpi-manual-cblas -r	500	3.138155	8,117,937.0	0.648311	8,117,937.0
./A4-mpi-manual-cblas -r	500	3.045648	8,117,937.0	0.647758	8,117,937.0
./A4-mpi-manual-cblas -r	500	3.071243	8,117,937.0	0.646475	8,117,937.0
./A4-mpi-manual-cblas -r	500	3.048155	8,117,937.0	0.648246	8,117,937.0
./A4-mpi-manual-cblas -r	1000	20.729409	31,896,067.0	5.203027	31,896,067.0
./A4-mpi-manual-cblas -r	1000	20.675408	31,896,067.0	5.172767	31,896,067.0
./A4-mpi-manual-cblas -r	1000	20.361931	31,896,067.0	5.146678	31,896,067.0
./A4-mpi-manual-cblas -r	1000	20.082578	31,896,067.0	5.180091	31,896,067.0
./A4-mpi-manual-cblas -r	50	0.001202	89,502.0	0.000280	89,502.0
./A4-mpi-manual-cblas -r	50	0.001196	89,502.0	0.000276	89,502.0
./A4-mpi-manual-cblas -r	50	0.001191	89,502.0	0.000278	89,502.0
./A4-mpi-manual-cblas -r	100	0.009326	353,266.0	0.001976	353,266.0
./A4-mpi-manual-cblas -r	100	0.009313	353,266.0	0.001984	353,266.0
./A4-mpi-manual-cblas -r	100	0.009330	353,266.0	0.001985	353,266.0
./A4-mpi-manual-cblas -r	500	3.039778	8,117,937.0	0.660509	8,117,937.0
./A4-mpi-manual-cblas -r	500	3.030908	8,117,937.0	0.644442	8,117,937.0
./A4-mpi-manual-cblas -r	500	3.052243	8,117,937.0	0.645495	8,117,937.0
./A4-mpi-manual-cblas -r	500	3.028897	8,117,937.0	0.649714	8,117,937.0
./A4-mpi-manual-cblas -r	1000	21.223333	31,896,067.0	5.537096	31,896,067.0
./A4-mpi-manual-cblas -r	1000	20.835579	31,896,067.0	5.389093	31,896,067.0
./A4-mpi-manual-cblas -r	1000	20.613177	31,896,067.0	5.260293	31,896,067.0
./A4-mpi-manual-cblas -r	1000	20.402660	31,896,067.0	5.315662	31,896,067.0

Using	|Matrix|	Time / manual	Inf Norm / manual	Time / dgemm	Inf Norm / dgemm
./A4-mpi-manual-cblas -i	50	0.001198	1,625,625.0	0.000273	1,625,625.0
./A4-mpi-manual-cblas -i	50	0.001207	1,625,625.0	0.000277	1,625,625.0
./A4-mpi-manual-cblas -i	50	0.001203	1,625,625.0	0.000279	1,625,625.0
./A4-mpi-manual-cblas -i	100	0.009300	25,502,500.0	0.001984	25,502,500.0
./A4-mpi-manual-cblas -i	100	0.011436	25,502,500.0	0.002175	25,502,500.0
./A4-mpi-manual-cblas -i	100	0.009349	25,502,500.0	0.001974	25,502,500.0
./A4-mpi-manual-cblas -i	500	3.036239	15,687,562,500.0	0.649100	15,687,562,500.0
./A4-mpi-manual-cblas -i	500	3.046358	15,687,562,500.0	0.648188	15,687,562,500.0
./A4-mpi-manual-cblas -i	500	3.079162	15,687,562,500.0	0.646728	15,687,562,500.0
./A4-mpi-manual-cblas -i	500	3.144015	15,687,562,500.0	0.649152	15,687,562,500.0
./A4-mpi-manual-cblas -i	1000	20.152267	250,500,250,000.0	5.141762	250,500,250,000.0
./A4-mpi-manual-cblas -i	1000	19.991013	250,500,250,000.0	5.130485	250,500,250,000.0
./A4-mpi-manual-cblas -i	1000	19.986013	250,500,250,000.0	5.131284	250,500,250,000.0
./A4-mpi-manual-cblas -i	1000	20.326687	250,500,250,000.0	5.139508	250,500,250,000.0
./A4-mpi-manual-cblas -i	50	0.001201	1,625,625.0	0.000279	1,625,625.0
./A4-mpi-manual-cblas -i	50	0.001210	1,625,625.0	0.000283	1,625,625.0
./A4-mpi-manual-cblas -i	50	0.001365	1,625,625.0	0.000385	1,625,625.0
./A4-mpi-manual-cblas -i	100	0.009341	25,502,500.0	0.001990	25,502,500.0
./A4-mpi-manual-cblas -i	100	0.009300	25,502,500.0	0.001986	25,502,500.0
./A4-mpi-manual-cblas -i	100	0.009390	25,502,500.0	0.002001	25,502,500.0
./A4-mpi-manual-cblas -i	500	3.195391	15,687,562,500.0	0.851524	15,687,562,500.0
./A4-mpi-manual-cblas -i	500	3.117510	15,687,562,500.0	0.697793	15,687,562,500.0
./A4-mpi-manual-cblas -i	500	3.156754	15,687,562,500.0	0.648264	15,687,562,500.0
./A4-mpi-manual-cblas -i	500	3.033477	15,687,562,500.0	0.645297	15,687,562,500.0
./A4-mpi-manual-cblas -i	1000	19.872238	250,500,250,000.0	5.189895	250,500,250,000.0
./A4-mpi-manual-cblas -i	1000	20.226634	250,500,250,000.0	5.143354	250,500,250,000.0
./A4-mpi-manual-cblas -i	1000	20.099041	250,500,250,000.0	5.143986	250,500,250,000.0
./A4-mpi-manual-cblas -i	1000	20.223449	250,500,250,000.0	5.154370	250,500,250,000.0