Using	Matrix	Threads	Time / manual	Inf Norm / manual	Time / pthreads	Inf Norm / pthreads
./A2-pthreads-solo -r	50	2	0.001407	89,502.0	0.000796	85,625.0
./A2-pthreads-solo -r	50	2	0.001412	89,502.0	0.000797	85,625.0
./A2-pthreads-solo -r	50	2	0.001409	89,502.0	0.000805	85,625.0
./A2-pthreads-solo -r	50	5	0.001417	89,502.0	0.000868	86,323.0
./A2-pthreads-solo -r	50	5	0.001405	89,502.0	0.000900	85,189.0
./A2-pthreads-solo -r	50	5	0.001412	89,502.0	0.000644	85,058.0
./A2-pthreads-solo -r	100	10	0.011013	353,266.0	0.003046	328,456.0
./A2-pthreads-solo -r	100	10	0.011011	353,266.0	0.003512	328,456.0
./A2-pthreads-solo -r	100	10	0.011016	353,266.0	0.002598	328,456.0
./A2-pthreads-solo -r	100	20	0.011008	353,266.0	0.004229	328,456.0
./A2-pthreads-solo -r	100	20	0.011009	353,266.0	0.004306	330,718.0
./A2-pthreads-solo -r	100	20	0.011043	353,266.0	0.003444	322,376.0
./A2-pthreads-solo -r	50	2	0.001405	89,502.0	0.000787	85,625.0
./A2-pthreads-solo -r	50	2	0.001409	89,502.0	0.000783	89,502.0
./A2-pthreads-solo -r	50	2	0.001411	89,502.0	0.000779	85,625.0
./A2-pthreads-solo -r	50	5	0.001406	89,502.0	0.000940	85,189.0
./A2-pthreads-solo -r	50	5	0.001406	89,502.0	0.000926	85,058.0
./A2-pthreads-solo -r	50	5	0.001405	89,502.0	0.000918	85,058.0
./A2-pthreads-solo -r	100	10	0.011012	353,266.0	0.003239	324,244.0
./A2-pthreads-solo -r	100	10	0.011007	353,266.0	0.002789	328,456.0
./A2-pthreads-solo -r	100	10	0.011016	353,266.0	0.002692	331,606.0
./A2-pthreads-solo -r	100	20	0.011007	353,266.0	0.004198	330,718.0
./A2-pthreads-solo -r	100	20	0.011006	353,266.0	0.005866	330,718.0
./A2-pthreads-solo -r	100	20	0.011026	353,266.0	0.004040	326,364.0

Using	Matrix	Threads	Time / manual	Inf Norm / manual	Time / pthreads	Inf Norm / pthreads
./A2-pthreads-solo -i	50	2	0.001410	1,625,625.0	0.000794	1,625,625.0
./A2-pthreads-solo -i	50	2	0.001403	1,625,625.0	0.000768	1,625,625.0
./A2-pthreads-solo -i	50	2	0.001408	1,625,625.0	0.000615	1,625,625.0
./A2-pthreads-solo -i	50	5	0.001403	1,625,625.0	0.000956	1,625,625.0
./A2-pthreads-solo -i	50	5	0.001410	1,625,625.0	0.000710	1,625,625.0
./A2-pthreads-solo -i	50	5	0.001402	1,625,625.0	0.000883	1,625,625.0
./A2-pthreads-solo -i	100	10	0.011007	25,502,500.0	0.002675	25,502,500.0
./A2-pthreads-solo -i	100	10	0.011017	25,502,500.0	0.003503	25,502,500.0
./A2-pthreads-solo -i	100	10	0.011010	25,502,500.0	0.002168	25,502,500.0
./A2-pthreads-solo -i	100	20	0.011008	25,502,500.0	0.004088	25,502,500.0
./A2-pthreads-solo -i	100	20	0.011006	25,502,500.0	0.004361	25,502,500.0
./A2-pthreads-solo -i	100	20	0.011012	25,502,500.0	0.003443	25,502,500.0
./A2-pthreads-solo -i	50	2	0.001402	1,625,625.0	0.000780	1,625,625.0
./A2-pthreads-solo -i	50	2	0.001404	1,625,625.0	0.000777	1,625,625.0
./A2-pthreads-solo -i	50	2	0.001415	1,625,625.0	0.000775	1,625,625.0
./A2-pthreads-solo -i	50	5	0.001408	1,625,625.0	0.000938	1,625,625.0
./A2-pthreads-solo -i	50	5	0.001405	1,625,625.0	0.000895	1,625,625.0
./A2-pthreads-solo -i	50	5	0.001412	1,625,625.0	0.000936	1,625,625.0
./A2-pthreads-solo -i	100	10	0.011072	25,502,500.0	0.002305	25,502,500.0
./A2-pthreads-solo -i	100	10	0.011012	25,502,500.0	0.002738	25,502,500.0
./A2-pthreads-solo -i	100	10	0.011017	25,502,500.0	0.002255	25,502,500.0
./A2-pthreads-solo -i	100	20	0.011010	25,502,500.0	0.003405	25,502,500.0
./A2-pthreads-solo -i	100	20	0.011088	25,502,500.0	0.003177	25,502,500.0
./A2-pthreads-solo -i	100	20	0.011006	25,502,500.0	0.003435	25,502,500.0

Using	Matrix	Threads	Time / manual	Inf Norm / manual	Time / pthreads	Inf Norm / pthreads
./A2-pthreads-solo -r	50	10	0.001409	89,502.0	0.001412	83,084.0
./A2-pthreads-solo -r	50	10	0.001408	89,502.0	0.001331	83,084.0
./A2-pthreads-solo -r	50	10	0.001413	89,502.0	0.001488	83,084.0
./A2-pthreads-solo -r	100	10	0.011018	353,266.0	0.003031	324,244.0
./A2-pthreads-solo -r	100	10	0.011017	353,266.0	0.002967	328,456.0
./A2-pthreads-solo -r	100	10	0.011027	353,266.0	0.003410	328,456.0
./A2-pthreads-solo -r	500	20	2.277439	8,117,937.0	0.100086	7,887,576.0
./A2-pthreads-solo -r	500	20	2.266145	8,117,937.0	0.079707	7,958,041.0
./A2-pthreads-solo -r	500	20	2.263969	8,117,937.0	0.072114	7,969,826.0
./A2-pthreads-solo -r	500	20	2.267955	8,117,937.0	0.089036	7,941,189.0
./A2-pthreads-solo -r	1000	20	22.695424	31,896,067.0	0.657843	31,359,528.0
./A2-pthreads-solo -r	1000	20	22.644039	31,896,067.0	0.845433	31,359,528.0
./A2-pthreads-solo -r	1000	20	22.586039	31,896,067.0	0.761873	31,359,528.0
./A2-pthreads-solo -r	1000	20	22.867197	31,896,067.0	0.689865	31,359,528.0
aria puncuus cois i	.000		22.001.101	01,000,001.0	0.00000	01,000,020.0
./A2-pthreads-solo -r	50	10	0.001414	89,502.0	0.001121	83,338.0
./A2-pthreads-solo -r	50	10	0.001416	89,502.0	0.001249	82,995.0
./A2-pthreads-solo -r	50	10	0.001406	89,502.0	0.001329	83,084.0
./A2-pthreads-solo -r	100	10	0.011015	353,266.0	0.002412	328,456.0
./A2-pthreads-solo -r	100	10	0.011013	353,266.0	0.003042	328,456.0
./A2-pthreads-solo -r	100	10	0.011029	353,266.0	0.003435	328,866.0
./A2-pthreads-solo -r	500	20	2.278701	8,117,937.0	0.079072	7,958,041.0
./A2-pthreads-solo -r	500	20	2.280150	8,117,937.0	0.074330	7,941,189.0
./A2-pthreads-solo -r	500	20	2.275920	8,117,937.0	0.072233	7,958,041.0
./A2-pthreads-solo -r	500	20	2.269146	8,117,937.0	0.073958	7,914,706.0
./A2-pthreads-solo -r	1000	20	22.604045	31,896,067.0	0.805102	31,359,528.0
./A2-pthreads-solo -r	1000	20	22.588872	31,896,067.0	0.726566	31,359,528.0
./A2-pthreads-solo -r	1000	20	22.591746	31,896,067.0	0.735695	31,359,528.0
./A2-pthreads-solo -r	1000	20	22.595227	31,896,067.0	0.689487	31,359,528.0
Using	Matrix	Threads	Time / manual	Inf Norm / manual	Time / pthreads	Inf Norm / pthreads
./A2-pthreads-solo -i	50	10	0.001413	1,625,625.0	0.001308	1,625,625.0
./A2-pthreads-solo -i	50	10	0.001406	1,625,625.0	0.001294	1,625,625.0
./A2-pthreads-solo -i	50	10	0.001414	1,625,625.0	0.001214	1,625,625.0
./A2-pthreads-solo -i	100	10	0.011010	25,502,500.0	0.003006	25,502,500.0
./A2-pthreads-solo -i ./A2-pthreads-solo -i	100 100	10 10				25,502,500.0 25,502,500.0
			0.011010	25,502,500.0	0.003006	
./A2-pthreads-solo -i	100	10	0.011010 0.011010	25,502,500.0 25,502,500.0	0.003006 0.002655	25,502,500.0
./A2-pthreads-solo -i ./A2-pthreads-solo -i	100 100	10 10	0.011010 0.011010 0.011014	25,502,500.0 25,502,500.0 25,502,500.0	0.003006 0.002655 0.002412	25,502,500.0 25,502,500.0
./A2-pthreads-solo -i ./A2-pthreads-solo -i ./A2-pthreads-solo -i	100 100 500	10 10 20	0.011010 0.011010 0.011014 2.274337	25,502,500.0 25,502,500.0 25,502,500.0 15,687,562,500.0	0.003006 0.002655 0.002412 0.074011	25,502,500.0 25,502,500.0 15,687,562,500.0
./A2-pthreads-solo -i ./A2-pthreads-solo -i ./A2-pthreads-solo -i ./A2-pthreads-solo -i	100 100 500 500	10 10 20 20	0.011010 0.011010 0.011014 2.274337 2.273940	25,502,500.0 25,502,500.0 25,502,500.0 15,687,562,500.0 15,687,562,500.0	0.003006 0.002655 0.002412 0.074011 0.074282	25,502,500.0 25,502,500.0 15,687,562,500.0 15,687,562,500.0
./A2-pthreads-solo -i ./A2-pthreads-solo -i ./A2-pthreads-solo -i ./A2-pthreads-solo -i ./A2-pthreads-solo -i	100 100 500 500 500	10 10 20 20 20	0.011010 0.011010 0.011014 2.274337 2.273940 2.269123	25,502,500.0 25,502,500.0 25,502,500.0 15,687,562,500.0 15,687,562,500.0 15,687,562,500.0	0.003006 0.002655 0.002412 0.074011 0.074282 0.076757	25,502,500.0 25,502,500.0 15,687,562,500.0 15,687,562,500.0 15,687,562,500.0
./A2-pthreads-solo -i ./A2-pthreads-solo -i ./A2-pthreads-solo -i ./A2-pthreads-solo -i ./A2-pthreads-solo -i	100 100 500 500 500 500	10 10 20 20 20 20 20	0.011010 0.011010 0.011014 2.274337 2.273940 2.269123 2.268417	25,502,500.0 25,502,500.0 25,502,500.0 15,687,562,500.0 15,687,562,500.0 15,687,562,500.0	0.003006 0.002655 0.002412 0.074011 0.074282 0.076757 0.073420	25,502,500.0 25,502,500.0 15,687,562,500.0 15,687,562,500.0 15,687,562,500.0 15,687,562,500.0
/A2-pthreads-solo -i	100 100 500 500 500 500 1000	10 10 20 20 20 20 20 20	0.011010 0.011010 0.011014 2.274337 2.273940 2.269123 2.268417 22.566625	25,502,500.0 25,502,500.0 25,502,500.0 15,687,562,500.0 15,687,562,500.0 15,687,562,500.0 15,687,562,500.0 250,500,250,000.0	0.003006 0.002655 0.002412 0.074011 0.074282 0.076757 0.073420 0.658890	25,502,500.0 25,502,500.0 15,687,562,500.0 15,687,562,500.0 15,687,562,500.0 15,687,562,500.0 250,500,250,000.0
/A2-pthreads-solo -i	100 100 500 500 500 500 1000	10 10 20 20 20 20 20 20 20	0.011010 0.011010 0.011014 2.274337 2.273940 2.269417 22.566625 22.560287	25,502,500.0 25,502,500.0 25,502,500.0 15,687,562,500.0 15,687,562,500.0 15,687,562,500.0 250,500,250,000.0 250,500,250,000.0	0.003006 0.002655 0.002412 0.0774011 0.074282 0.076757 0.073420 0.658890 0.746149	25,502,500.0 25,502,500.0 15,687,562,500.0 15,687,562,500.0 15,687,562,500.0 15,687,562,500.0 250,500,250,000.0 250,500,250,000.0
/A2-pthreads-solo -i	100 100 500 500 500 500 1000 1000 1000	10 10 20 20 20 20 20 20 20 20 20	0.011010 0.011010 0.011014 2.274337 2.273940 2.269123 2.268417 22.566625 22.560287 22.724512 22.652979	25,502,500.0 25,502,500.0 25,502,500.0 15,687,562,500.0 15,687,562,500.0 15,687,562,500.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0	0.003006 0.002655 0.002412 0.074011 0.074282 0.076757 0.073420 0.658890 0.746149 0.805147 0.750033	25,502,500.0 25,502,500.0 15,687,562,500.0 15,687,562,500.0 15,687,562,500.0 15,687,562,500.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0
/A2-pthreads-solo -i	100 100 500 500 500 1000 1000 1000 1000	10 10 20 20 20 20 20 20 20 20 20 20	0.011010 0.011010 0.011014 2.274337 2.273940 2.269417 22.566625 22.560287 22.724512 22.652979	25,502,500.0 25,502,500.0 25,502,500.0 15,687,562,500.0 15,687,562,500.0 15,687,562,500.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0	0.003006 0.002655 0.002412 0.074011 0.074282 0.076757 0.073420 0.658890 0.746149 0.805147 0.750033	25,502,500.0 25,502,500.0 15,687,562,500.0 15,687,562,500.0 15,687,562,500.0 15,687,562,500.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0
/A2-pthreads-solo -i	100 100 500 500 500 1000 1000 1000 1000	10 10 20 20 20 20 20 20 20 20 20 20 10	0.011010 0.011010 0.011014 2.274337 2.273940 2.269123 2.268417 22.566625 22.560287 22.724512 22.652979	25,502,500.0 25,502,500.0 25,502,500.0 15,687,562,500.0 15,687,562,500.0 15,687,562,500.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0	0.003006 0.002655 0.002412 0.0774011 0.074282 0.076757 0.073420 0.658890 0.746149 0.805147 0.750033	25,502,500.0 25,502,500.0 15,687,562,500.0 15,687,562,500.0 15,687,562,500.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0
/A2-pthreads-solo -i	100 100 500 500 500 500 1000 1000 1000	10 10 20 20 20 20 20 20 20 20 20 20 10 10	0.011010 0.011010 0.011014 2.274337 2.273940 2.269123 2.268417 22.566625 22.560287 22.724512 22.652979 0.001415 0.001412	25,502,500.0 25,502,500.0 25,502,500.0 15,687,562,500.0 15,687,562,500.0 15,687,562,500.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0	0.003006 0.002655 0.002412 0.074011 0.074282 0.076757 0.073420 0.658890 0.746149 0.805147 0.750033	25,502,500.0 25,502,500.0 15,687,562,500.0 15,687,562,500.0 15,687,562,500.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 1,625,625.0 1,625,625.0
/A2-pthreads-solo -i	100 100 500 500 500 1000 1000 1000 1000	10 10 20 20 20 20 20 20 20 20 20 10 10	0.011010 0.011010 0.011014 2.274337 2.273940 2.269417 22.566625 22.560287 22.724512 22.652979 0.001415 0.001406 0.011012	25,502,500.0 25,502,500.0 25,502,500.0 15,687,562,500.0 15,687,562,500.0 15,687,562,500.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 1,625,625.0 1,625,625.0 25,502,500.0	0.003006 0.002655 0.002412 0.074011 0.074282 0.076757 0.073420 0.658890 0.746149 0.805147 0.750033	25,502,500.0 25,502,500.0 15,687,562,500.0 15,687,562,500.0 15,687,562,500.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 1,625,625.0 1,625,625.0 25,502,500.0
/A2-pthreads-solo -i	100 100 500 500 500 1000 1000 1000 1000	10 10 20 20 20 20 20 20 20 20 20 20 10 10 10	0.011010 0.011010 0.011014 2.274337 2.273940 2.269417 22.566625 22.560287 22.724512 22.652979 0.001415 0.001412 0.001406 0.011012	25,502,500.0 25,502,500.0 25,502,500.0 15,687,562,500.0 15,687,562,500.0 15,687,562,500.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0	0.003006 0.002655 0.002412 0.074011 0.074282 0.076757 0.073420 0.658890 0.746149 0.805147 0.750033 0.001044 0.001168 0.001356 0.003220 0.002746	25,502,500.0 25,502,500.0 15,687,562,500.0 15,687,562,500.0 15,687,562,500.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0
/A2-pthreads-solo -i	100 100 500 500 500 1000 1000 1000 1000	10 10 20 20 20 20 20 20 20 20 20 10 10 10 10	0.011010 0.011010 0.011014 2.274337 2.273940 2.269417 22.566625 22.560287 22.724512 22.652979 0.001415 0.001406 0.011012 0.011005 0.011024	25,502,500.0 25,502,500.0 25,502,500.0 15,687,562,500.0 15,687,562,500.0 15,687,562,500.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 25,502,500.0 25,502,500.0 25,502,500.0 25,502,500.0	0.003006 0.002655 0.002412 0.0774011 0.074282 0.076757 0.073420 0.658890 0.746149 0.805147 0.750033 0.001044 0.001168 0.001356 0.003220 0.002746 0.002686	25,502,500.0 25,502,500.0 15,687,562,500.0 15,687,562,500.0 15,687,562,500.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 25,502,500.0 25,502,500.0 25,502,500.0 25,502,500.0
/A2-pthreads-solo -i	100 100 500 500 500 500 1000 1000 1000	10 10 20 20 20 20 20 20 20 20 20 10 10 10 10 10 10 20	0.011010 0.011010 0.011014 2.274337 2.273940 2.269123 2.268417 22.566625 22.560287 22.724512 22.652979 0.001415 0.001406 0.011012 0.011005 0.011024 2.279820	25,502,500.0 25,502,500.0 25,502,500.0 15,687,562,500.0 15,687,562,500.0 15,687,562,500.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,500,000.0 25,502,500.0 25,502,500.0 25,502,500.0 25,502,500.0 25,502,500.0 15,687,562,500.0	0.003006 0.002655 0.002412 0.074011 0.074282 0.076757 0.073420 0.658890 0.746149 0.805147 0.750033 0.001044 0.001168 0.003220 0.002746 0.002686 0.002686 0.002686	25,502,500.0 25,502,500.0 15,687,562,500.0 15,687,562,500.0 15,687,562,500.0 15,687,562,500.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 1,625,625.0 1,625,625.0 25,502,500.0 25,502,500.0 25,502,500.0 15,687,562,500.0
/A2-pthreads-solo -i	100 100 500 500 500 500 1000 1000 1000	10 10 20 20 20 20 20 20 20 20 20 10 10 10 10 10 20 20	0.011010 0.011010 0.011014 2.274337 2.273940 2.2694123 2.268417 22.566625 22.560287 22.724512 22.652979 0.001415 0.001406 0.011012 0.011005 0.011024 2.279820 2.276522	25,502,500.0 25,502,500.0 25,502,500.0 15,687,562,500.0 15,687,562,500.0 15,687,562,500.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 1,625,625.0 1,625,625.0 25,502,500.0 25,502,500.0 15,687,562,500.0 15,687,562,500.0	0.003006 0.002655 0.002412 0.074011 0.074282 0.076757 0.073420 0.658890 0.746149 0.805147 0.750033 0.001044 0.001168 0.001356 0.003220 0.002746 0.002746 0.002686 0.075656 0.076434	25,502,500.0 25,502,500.0 15,687,562,500.0 15,687,562,500.0 15,687,562,500.0 15,687,562,500.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 1,625,625.0 1,625,625.0 25,502,500.0 25,502,500.0 15,687,562,500.0 15,687,562,500.0
/A2-pthreads-solo -i	100 100 500 500 500 1000 1000 1000 1000	10 10 20 20 20 20 20 20 20 20 20 20 10 10 10 10 10 20 20 20 20 20 20 20 20 20 20 20 20 20	0.011010 0.011014 2.274337 2.273940 2.269417 22.566625 22.560287 22.724512 22.652979 0.001415 0.001412 0.001406 0.011012 0.011005 0.011024 2.279820 2.276522 2.246144	25,502,500.0 25,502,500.0 25,502,500.0 15,687,562,500.0 15,687,562,500.0 15,687,562,500.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 1,625,625.0 25,502,500.0 25,502,500.0 15,687,562,500.0 15,687,562,500.0 15,687,562,500.0	0.003006 0.002655 0.002412 0.074011 10.074282 0.076757 0.073420 0.658890 0.746149 0.805147 0.750033 0.001044 0.001168 0.001356 0.003220 0.002746 0.002686 0.075656 0.076656	25,502,500.0 25,502,500.0 15,687,562,500.0 15,687,562,500.0 15,687,562,500.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 1,625,625.0 1,625,625.0 25,502,500.0 25,502,500.0 15,687,562,500.0 15,687,562,500.0 15,687,562,500.0
/A2-pthreads-solo -i	100 100 500 500 500 1000 1000 1000 1000	10 10 20 20 20 20 20 20 20 20 20 10 10 10 10 10 10 20 20 20 20 20 20 20 20 20 20 20 20 20	0.011010 0.011014 2.274337 2.273940 2.269417 22.566625 22.560287 22.724512 22.652979  0.001415 0.001406 0.011012 0.011005 0.011024 2.279820 2.276522 2.246144 2.280677	25,502,500.0 25,502,500.0 25,502,500.0 15,687,562,500.0 15,687,562,500.0 15,687,562,500.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 1,625,625.0 1,625,625.0 25,502,500.0 25,502,500.0 15,687,562,500.0 15,687,562,500.0 15,687,562,500.0	0.003006 0.002655 0.002412 0.0774011 0.074282 0.076757 0.073420 0.658890 0.746149 0.805147 0.750033  0.001044 0.001168 0.001356 0.003220 0.002746 0.002686 0.075656 0.076434 0.075013 0.078744	25,502,500.0 25,502,500.0 15,687,562,500.0 15,687,562,500.0 15,687,562,500.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 1,625,625.0 1,625,625.0 25,502,500.0 25,502,500.0 15,687,562,500.0 15,687,562,500.0 15,687,562,500.0
/A2-pthreads-solo -i	100 100 500 500 500 500 1000 1000 1000	10 10 20 20 20 20 20 20 20 20 20 20 20 20 20	0.011010 0.011010 0.011014 2.274337 2.273940 2.269123 2.268417 22.566625 22.560287 22.724512 22.652979  0.001415 0.001406 0.011012 0.011005 0.011024 2.279820 2.276522 2.246144 2.280677 22.517391	25,502,500.0 25,502,500.0 25,502,500.0 15,687,562,500.0 15,687,562,500.0 15,687,562,500.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 1,625,625.0 1,625,625.0 25,502,500.0 25,502,500.0 15,687,562,500.0 15,687,562,500.0 15,687,562,500.0 15,687,562,500.0 15,687,562,500.0 250,500,250,000.0	0.003006 0.002655 0.002412 0.074011 0.074282 0.076757 0.073420 0.658890 0.746149 0.805147 0.750033  0.001044 0.001168 0.001356 0.003220 0.002746 0.002686 0.075656 0.076434 0.075013 0.078744	25,502,500.0 25,502,500.0 15,687,562,500.0 15,687,562,500.0 15,687,562,500.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 1,625,625.0 1,625,625.0 1,625,625.0 25,502,500.0 25,502,500.0 15,687,562,500.0 15,687,562,500.0 15,687,562,500.0 25,500,250,000.0
/A2-pthreads-solo -i	100 100 500 500 500 500 1000 1000 1000	10 10 20 20 20 20 20 20 20 20 20 20 20 20 20	0.011010 0.011010 0.011014 2.274337 2.273940 2.2694123 2.268417 22.566625 22.560287 22.724512 22.652979 0.001415 0.001412 0.001406 0.011012 0.011005 0.011024 2.279820 2.276522 2.246144 2.280677 22.517391 22.561444	25,502,500.0 25,502,500.0 25,502,500.0 15,687,562,500.0 15,687,562,500.0 15,687,562,500.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 1,625,625.0 1,625,625.0 25,502,500.0 25,502,500.0 15,687,562,500.0 15,687,562,500.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0	0.003006 0.002655 0.002412 0.074011 0.074282 0.076757 0.073420 0.658890 0.746149 0.805147 0.750033 0.001044 0.001168 0.001356 0.003220 0.002746 0.002686 0.075656 0.076434 0.075013 0.075013	25,502,500.0 25,502,500.0 15,687,562,500.0 15,687,562,500.0 15,687,562,500.0 15,687,562,500.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 1,625,625.0 1,625,625.0 25,502,500.0 25,502,500.0 15,687,562,500.0 15,687,562,500.0 15,687,562,500.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0
/A2-pthreads-solo -i	100 100 500 500 500 500 1000 1000 1000	10 10 20 20 20 20 20 20 20 20 20 20 20 20 20	0.011010 0.011010 0.011014 2.274337 2.273940 2.269123 2.268417 22.566625 22.560287 22.724512 22.652979  0.001415 0.001406 0.011012 0.011005 0.011024 2.279820 2.276522 2.246144 2.280677 22.517391	25,502,500.0 25,502,500.0 25,502,500.0 15,687,562,500.0 15,687,562,500.0 15,687,562,500.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 1,625,625.0 1,625,625.0 25,502,500.0 25,502,500.0 15,687,562,500.0 15,687,562,500.0 15,687,562,500.0 15,687,562,500.0 15,687,562,500.0 250,500,250,000.0	0.003006 0.002655 0.002412 0.074011 0.074282 0.076757 0.073420 0.658890 0.746149 0.805147 0.750033  0.001044 0.001168 0.001356 0.003220 0.002746 0.002686 0.075656 0.076434 0.075013 0.078744	25,502,500.0 25,502,500.0 15,687,562,500.0 15,687,562,500.0 15,687,562,500.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 1,625,625.0 1,625,625.0 1,625,625.0 25,502,500.0 25,502,500.0 15,687,562,500.0 15,687,562,500.0 15,687,562,500.0 25,500,250,000.0

Using	Matrix	Threads	Time / manual	Inf Norm / manual	Time / pThreads	Inf Norm / pThreads
A2-pthreads-solo -r	50	10	0.001412	89,502.0	0.001368	83,08
2-pthreads-solo -r	150	10	0.036468	772,112.0	0.004344	718,23
2-pthreads-solo -r	200	20	0.103250	1,322,244.0	0.009416	1,290,78
2-pthreads-solo -r	1000	100	22.577512	31,896,067.0	0.653281	31,341,88
2-pthreads-solo -r	300	30	0.398502	3,011,393.0	0.020857	2,867,74
2-pthreads-solo -r	1000	100	22.658816	31,896,067.0	0.668295	31,350,39
2-pthreads-solo -r	400	40	1.030502	5,225,598.0	0.045610	5,105,88
2-pthreads-solo -r	1000	100	22.634818	31,896,067.0	0.647604	31,350,39
2-pthreads-solo -r	500	50	2.276678	8,117,937.0	0.089903	7,957,7
2-pthreads-solo -r	550	50	3.018685	9,746,097.0	0.108451	9,519,8
2-pthreads-solo -r	600	60	3.970175	11,584,750.0	0.158750	11,512,1
,	1000	100	22.625830	31,896,067.0		31,350,3
2-pthreads-solo -r					0.627810	
2-pthreads-solo -r	700	70	7.715003	15,701,890.0	0.233204	15,534,4
2-pthreads-solo -r	1000	100	22.644341	31,896,067.0	0.631318	31,350,3
2-pthreads-solo -r	800	80	9.991302	20,461,090.0	0.322235	20,204,9
2-pthreads-solo -r	1000	100	23.727530	31,896,067.0	0.653829	31,350,3
2-pthreads-solo -r	900	90	20.144580	25,890,261.0	0.463994	25,133,0
2-pthreads-solo -r	1000	100	22.567932	31,896,067.0	0.626697	31,350,3
2-pthreads-solo -r	1000	100	22.602344	31,896,067.0	0.639306	31,350,3
2-pthreads-solo -r	50	10	0.001402	89,502.0	0.001367	83,0
2-pthreads-solo -r	150	10	0.001402	772,112.0	0.001367	718,2
2-pthreads-solo -r	200	20	0.103282	1,322,244.0	0.008834	1,290,7
2-pthreads-solo -r	1000	100	22.599911	31,896,067.0	0.618144	31,350,3
2-pthreads-solo -r	300	30	0.390335	3,011,393.0	0.021323	2,867,7
2-pthreads-solo -r	1000	100	22.589421	31,896,067.0	0.649053	31,350,3
2-pthreads-solo -r	400	40	1.033686	5,225,598.0	0.043501	5,105,8
2-pthreads-solo -r	1000	100	22.610600	31,896,067.0	0.637181	31,350,3
2-pthreads-solo -r	500	50	2.317871	8,117,937.0	0.086061	7,957,7
2-pthreads-solo -r	550	50	2.994025	9,746,097.0	0.104394	9,519,8
2-pthreads-solo -r	600	60	3.990792	11,584,750.0	0.157564	11,512,1
2-pthreads-solo -r	1000	100	22.655217	31,896,067.0	0.637070	31,350,3
2-pthreads-solo -r	700	70	7.829027		0.223619	15,534,4
				15,701,890.0		
2-pthreads-solo -r	1000	100	22.715330	31,896,067.0	0.630564	31,350,3
2-pthreads-solo -r	800	80	9.961606	20,461,090.0	0.323325	20,204,9
2-pthreads-solo -r	1000	100	22.775118	31,896,067.0	0.632430	
2-pthreads-solo -r 2-pthreads-solo -r	900	90	20.011760	25,890,261.0	0.448777	
N2-pthreads-solo -r N2-pthreads-solo -r N2-pthreads-solo -r	900 1000	90 100	20.011760 22.545957	25,890,261.0 31,896,067.0	0.448777 0.632317	25,133,0 31,350,3
12-pthreads-solo -r 12-pthreads-solo -r 12-pthreads-solo -r 12-pthreads-solo -r	900	90	20.011760	25,890,261.0	0.448777	31,350,39 25,133,0 31,350,39 31,350,39
2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -r	900 1000	90 100	20.011760 22.545957	25,890,261.0 31,896,067.0	0.448777 0.632317	25,133,0 31,350,3 31,350,3
2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -r <b>Using</b>	900 1000 1000   <b>Matrix</b>	90 100 100  Threads	20.011760 22.545957 22.624936	25,890,261.0 31,896,067.0 31,896,067.0	0.448777 0.632317 0.648349 Time / pThreads 0.001368	25,133,0 31,350,3 31,350,3 Inf Norm / pThread
2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -r Using 2-pthreads-solo -i	900 1000 1000   <b>Matrix</b>	90 100 100  Threads	20.011760 22.545957 22.624936 Time / manual	25,890,261.0 31,896,067.0 31,896,067.0 Inf Norm / manual	0.448777 0.632317 0.648349 Time / pThreads	25,133,0 31,350,3 31,350,3 Inf Norm / pThread
2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -r Using 2-pthreads-solo -i 2-pthreads-solo -i	900 1000 1000   <b>Matrix</b>	90 100 100  Threads	20.011760 22.545957 22.624936 Time / manual 0.001402	25,890,261.0 31,896,067.0 31,896,067.0 Inf Norm / manual 1,625,625.0	0.448777 0.632317 0.648349 Time / pThreads 0.001368	25,133,0 31,350,3 31,350,3 Inf Norm / pThread 1,625,6 128,255,6
2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -r  Using 2-pthreads-solo -i 2-pthreads-solo -i 2-pthreads-solo -i	900 1000 1000 	90 100 100  Threads	20.011760 22.545957 22.624936 Time / manual 0.001402 0.036497 0.103509	25,890,261.0 31,896,067.0 31,896,067.0 Inf Norm / manual 1,625,625.0 128,255,625.0 404,010,000.0	0.448777 0.632317 0.648349 Time / pThreads 0.001368 0.005516 0.010126	25,133,0 31,350,3 31,350,3 Inf Norm / pThread 1,625,6 128,255,6 404,010,0
2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -r  Using 2-pthreads-solo -i 2-pthreads-solo -i 2-pthreads-solo -i 2-pthreads-solo -i	900 1000 1000   <b>Matrix</b>   50 150 200 1000	90 100 100 100   <b>Threads</b>   10 10 20 100	20.011760 22.545957 22.624936 Time / manual 0.001402 0.036497 0.103509 22.578228	25,890,261.0 31,896,067.0 31,896,067.0 Inf Norm / manual 1,625,625.0 128,255,625.0 404,010,000.0 250,500,250,000.0	0.448777 0.632317 0.648349 Time / pThreads 0.001568 0.005516 0.010126 0.629005	25,133,0 31,350,3 31,350,3 Inf Norm / pThread 1,625,6 128,255,6 404,010,0 250,500,250,0
2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -r  Using 2-pthreads-solo -i 2-pthreads-solo -i 2-pthreads-solo -i 2-pthreads-solo -i 2-pthreads-solo -i	900 1000 1000   <b>Matrix</b>   50 150 200 1000 300	90 100 100 100   <b>Threads</b>   10 10 20 100 30	20.011760 22.545957 22.624936 Time / manual 0.001402 0.036497 0.103509 22.578228 0.394802	25,890,261.0 31,896,067.0 31,896,067.0 Inf Norm / manual 1,625,625.0 128,255,625.0 404,010,000.0 250,500,250,000.0 2,038,522,500.0	0.448777 0.632317 0.648349 Time / pThreads 0.001368 0.005516 0.010126 0.629005 0.019049	25,133,0 31,350,3 31,350,3 Inf Norm / pThread: 1,625,6 128,255,6 404,010,0 250,500,250,0 2,038,522,5
2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -r  Using 2-pthreads-solo -i	900 1000 1000  Matrix  50 150 200 1000 300 1000	90 100 100 100  Threads  10 10 20 100 30 100	20.011760 22.545957 22.624936 Time / manual 0.001402 0.036497 0.103509 22.578228 0.394802 22.531387	25,890,261.0 31,896,067.0 31,896,067.0 Inf Norm / manual 1,625,625.0 128,255,625.0 404,010,000.0 250,500,250,000.0 2,038,522,500.0 250,500,250,000.0	0.448777 0.632317 0.648349 Time / pThreads 0.001368 0.005516 0.010126 0.629005 0.019049 0.623278	25,133,0 31,350,3 31,350,3 Inf Norm / pThread 1,625,6 128,255,6 404,010,0 250,500,250,0 2,038,522,5 250,500,250,0
2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -r  Using 2-pthreads-solo -i	900 1000 1000  Matrix  50 150 200 1000 300 1000 400	90 100 100 100 10 10 20 100 30 100 40	20.011760 22.545957 22.624936 Time / manual 0.001402 0.036497 0.103509 22.578228 0.394802 22.531387 1.014198	25,890,261.0 31,896,067.0 31,896,067.0 Inf Norm / manual 1,625,625.0 128,255,625.0 404,010,000.0 250,500,250,000.0 2,038,522,500.0 250,500,250,000.0 6,432,040,000.0	0.448777 0.632317 0.648349 Time / pThreads 0.0015616 0.010126 0.629005 0.019049 0.623278 0.045393	25,133,0 31,350,3 31,350,3 31,350,3 Inf Norm / pThread 1,625,6 404,010,0 250,500,250,0 2,038,522,5 250,500,250,0 6,432,040,0
2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -r	900 1000 1000  Matrix  50 150 200 1000 300 1000 400 1000	90 100 100 100 10 10 20 100 30 100 40 100	20.011760 22.545957 22.624936 Time / manual 0.001402 0.036497 0.103509 22.578228 0.394802 22.531387 1.014198 22.699620	25,890,261.0 31,896,067.0 31,896,067.0 Inf Norm / manual 1,625,625.0 128,255,625.0 404,010,000.0 250,500,250,000.0 2,038,522,500.0 250,500,250,000.0 6,432,040,000.0 250,500,250,000.0	0.448777 0.632317 0.648349 Time / pThreads 0.001568 0.005516 0.010126 0.629005 0.019049 0.623278 0.045393 0.637117	25,133,0 31,350,3 31,350,3 31,350,3 Inf Norm / pThread 1,625,6 128,255,6 404,010,0 250,500,250,0 2,038,522,5 250,500,250,0 6,432,040,0 250,500,250,0
2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -i	900 1000 1000  Matrix  50 150 200 1000 300 1000 400 1000 500	90 100 100 100   <b>Threads</b>   10 10 20 100 30 100 40 40 50	20.011760 22.545957 22.624936 Time / manual 0.001402 0.036497 0.103509 22.578228 0.394802 22.531387 1.014198 22.699620 2.278428	25,890,261.0 31,896,067.0 31,896,067.0 Inf Norm / manual 1,625,625.0 404,010,000.0 250,500,250,000.0 2,038,522,500.0 250,500,250,000.0 6,432,040,000.0 250,500,250,000.0 15,687,562,500.0	0.448777 0.632317 0.648349 Time / pThreads 0.001368 0.005516 0.010126 0.629005 0.019049 0.623278 0.045393 0.637117 0.081549	25,133,0 31,350,3 31,350,3 31,350,3 Inf Norm / pThread 1,625,6 404,010,0 250,500,250,0 2,038,522,5 250,500,250,0 6,432,040,0 250,500,250,0 15,687,562,5
2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -i	900 1000 1000  Matrix  50 150 200 1000 300 1000 400 1000 500 550	90 100 100 100 10 10 10 20 100 30 100 40 100 50 50	20.011760 22.545957 22.624936 Time / manual 0.001402 0.036497 0.103509 22.578228 0.394802 22.531387 1.014198 22.699620 2.278428 3.056677	25,890,261.0 31,896,067.0 31,896,067.0 Inf Norm / manual 1,625,625.0 128,255,625.0 404,010,000.0 250,500,250,000.0 2,038,522,500.0 250,500,250,000.0 6,432,040,000.0 250,500,250,000.0 15,687,562,500.0 22,959,825,625.0	0.448777 0.632317 0.648349 Time / pThreads 0.001368 0.005516 0.010126 0.629005 0.019049 0.623278 0.045393 0.637117 0.081549 0.100339	25,133,0 31,350,3 31,350,3 Inf Norm / pThread: 1,625,6 128,255,6 404,010,0 250,500,250,0 2,038,522,5 250,500,250,0 6,432,040,0 250,500,250,0 15,687,562,5 22,959,825,6
2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -i	900 1000 1000 1000  Matrix  50 150 200 1000 300 1000 400 1000 500 550 600	90 100 100 100 10 10 20 100 30 100 40 100 50 60	20.011760 22.545957 22.624936 Time / manual 0.001402 0.036497 0.103509 22.578228 0.394802 22.531387 1.014198 22.699620 2.278428 3.056677 4.072283	25,890,261.0 31,896,067.0 31,896,067.0  Inf Norm / manual	0.448777 0.632317 0.648349 Time / pThreads 0.001368 0.005516 0.010126 0.629005 0.019049 0.623278 0.045393 0.637117 0.081549 0.100339 0.149209	25,133,0 31,350,3 31,350,3 31,350,3 Inf Norm / pThread 1,625,6 404,010,0 250,500,250,0 2,038,522,5 250,500,250,0 6,432,040,0 250,500,250,0 15,687,562,5 22,959,825,6 32,508,090,0
2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -i	900 1000 1000  Matrix  50 150 200 1000 300 1000 400 1000 500 550	90 100 100 100 10 10 10 20 100 30 100 40 100 50 50	20.011760 22.545957 22.624936 Time / manual 0.001402 0.036497 0.103509 22.578228 0.394802 22.531387 1.014198 22.699620 2.278428 3.056677	25,890,261.0 31,896,067.0 31,896,067.0 Inf Norm / manual 1,625,625.0 128,255,625.0 404,010,000.0 250,500,250,000.0 2,038,522,500.0 250,500,250,000.0 6,432,040,000.0 250,500,250,000.0 15,687,562,500.0 22,959,825,625.0	0.448777 0.632317 0.648349 Time / pThreads 0.001368 0.005516 0.010126 0.629005 0.019049 0.623278 0.045393 0.637117 0.081549 0.100339	25,133,0 31,350,3 31,350,3 31,350,3 Inf Norm / pThread 1,625,6 404,010,0 250,500,250,0 2,038,522,5 250,500,250,0 6,432,040,0 250,500,250,0 15,687,562,5 22,959,825,6 32,508,090,0
2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -i	900 1000 1000 1000  Matrix  50 150 200 1000 300 1000 400 1000 500 550 600	90 100 100 100 10 10 20 100 30 100 40 100 50 60	20.011760 22.545957 22.624936 Time / manual 0.001402 0.036497 0.103509 22.578228 0.394802 22.531387 1.014198 22.699620 2.278428 3.056677 4.072283	25,890,261.0 31,896,067.0 31,896,067.0  Inf Norm / manual	0.448777 0.632317 0.648349 Time / pThreads 0.001368 0.005516 0.010126 0.629005 0.019049 0.623278 0.045393 0.637117 0.081549 0.100339 0.149209	25,133,0 31,350,3 31,350,3 31,350,3 Inf Norm / pThread 1,625,6 404,010,0 250,500,250,0 2,038,522,5 250,500,250,0 6,432,040,0 250,500,250,0 15,687,562,5 22,959,825,6 32,508,090,0 250,500,250,0
2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -i	900 1000 1000   Matrix  50 150 200 1000 300 1000 400 1000 500 550 600 1000	90 100 100 100 100 10 10 20 100 30 100 40 100 50 60 100	20.011760 22.545957 22.624936 Time / manual 0.001402 0.036497 0.103509 22.578228 0.394802 22.531387 1.014198 22.699620 2.278428 3.056677 4.072283 22.626312	25,890,261.0 31,896,067.0 31,896,067.0  Inf Norm / manual	0.448777 0.632317 0.648349 Time / pThreads 0.001568 0.005516 0.010126 0.629005 0.019049 0.623278 0.045393 0.637117 0.081549 0.100339 0.149209 0.625287	25,133,0 31,350,3 31,350,3 31,350,3 Inf Norm / pThread 1,625,6 404,011,0 250,500,250,0 6,432,040,0 250,500,250,0 15,687,562,5 22,959,825,6 32,508,090,0 250,500,250,0 60,196,622,5
2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -i	900 1000 1000   Matrix  50 150 200 1000 300 1000 400 1000 550 600 1000 700 1000	90 100 100 100  Threads  10 10 20 100 30 100 40 40 50 50 60 100 70	20.011760 22.545957 22.624936 Time / manual 0.001402 0.036497 0.103509 22.578228 0.394802 22.531387 1.014198 22.699620 2.278428 3.056677 4.072283 22.626312 7.611243 22.560374	25,890,261.0 31,896,067.0 31,896,067.0 31,896,067.0  Inf Norm / manual  1,625,625.0 404,010,000.0 250,500,250,000.0 250,500,250,000.0 6,332,040,000.0 250,500,250,000.0 15,687,562,500.0 22,959,825,625.0 32,508,090,000.0 60,196,622,500.0 250,500,250,000.0 60,196,622,500.0	0.448777 0.632317 0.648349 Time / pThreads 0.001368 0.005516 0.010126 0.629005 0.019049 0.623278 0.045393 0.637117 0.081549 0.100339 0.149209 0.625287 0.220870 0.630177	25,133,0 31,350,3 31,350,3 31,350,3 Inf Norm / pThread 1,625,6 404,010,0 250,500,250,0 2,038,522,5 250,500,250,0 15,687,562,5 22,959,825,6 32,508,090,0 250,500,250,0 60,196,622,5 250,500,250,0
2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -i	900 1000 1000 1000  Matrix  50 150 200 1000 300 1000 400 1000 500 550 600 1000 700 1000 800	90 100 100 100 100 10 20 100 30 100 40 100 50 60 100 70 100 80	20.011760 22.545957 22.624936 Time / manual 0.001402 0.036497 0.103509 22.578228 0.394802 22.531387 1.014198 22.699620 2.278428 3.056677 4.072283 22.626312 7.611243 22.560374 10.029581	25,890,261.0 31,896,067.0 31,896,067.0 31,896,067.0  Inf Norm / manual	0.448777 0.632317 0.648349  Time / pThreads 0.001368 0.005516 0.010126 0.629005 0.019049 0.623278 0.045393 0.637117 0.081549 0.100339 0.149209 0.625287 0.220870 0.630177 0.327374	25,133,0 31,350,3 31,350,3 31,350,3 31,350,3 Inf Norm / pThread 1,625,6 404,010,0 250,500,250,0 6,432,040,0 250,500,250,0 15,687,562,5 22,959,825,6 32,508,090,0 250,500,250,0 60,196,622,5 250,500,250,0 102,656,160,0
2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -i	900 1000 1000   Matrix  50 150 200 1000 300 1000 400 1000 500 550 600 1000 700 1000 800 1000	90 100 100 100 100 10 10 20 100 30 100 40 100 50 60 100 70 100 80 100	20.011760 22.545957 22.624936 Time / manual 0.001402 0.036497 0.103509 22.578228 0.394802 22.531387 1.014198 22.699620 2.278428 3.056677 4.072283 22.626312 7.611243 22.560374 10.029581 22.596446	25,890,261.0 31,896,067.0 31,896,067.0 31,896,067.0  Inf Norm / manual	0.448777 0.632317 0.648349  Time / pThreads 0.001368 0.005516 0.010126 0.629005 0.019049 0.623278 0.045393 0.637117 0.081549 0.109339 0.149209 0.625287 0.220870 0.630177 0.327374 0.638827	25,133,0 31,350,3 31,350,3 31,350,3 Inf Norm / pThread 1,625,6 404,010,0 250,500,250,0 2,038,522,5 250,500,250,0 6,432,040,0 250,500,250,0 15,687,562,5 22,959,825,6 32,508,090,0 250,500,250,0 60,196,622,5 250,500,250,0 102,656,160,0 250,500,250,0
2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -i	900 1000 1000   Matrix  50 150 200 1000 300 1000 400 1000 500 550 600 1000 700 1000 800 1000 900	90 100 100 100 100 10 20 100 30 100 40 40 1100 50 50 60 1100 70 1100 80 90	20.011760 22.545957 22.624936 Time / manual 0.001402 0.036497 0.103509 22.578228 0.394802 22.531387 1.014198 22.699620 2.278428 3.056677 4.072283 22.626312 7.611243 22.560374 10.029581 22.596446 20.174155	25,890,261.0 31,896,067.0 31,896,067.0 31,896,067.0  Inf Norm / manual	0.448777 0.632317 0.648349  Time / pThreads 0.001368 0.005516 0.010126 0.629005 0.019049 0.623278 0.045393 0.637117 0.081549 0.100339 0.149209 0.625287 0.220870 0.630177 0.327374 0.638827 0.450073	25,133,0 31,350,3 31,350,3 31,350,3 Inf Norm / pThread 1,625,6 404,011,0 250,500,250,0 6,432,040,0 250,500,250,0 15,687,562,5 22,959,825,6 32,508,090,0 250,500,250,0 60,196,622,5 250,500,250,0 102,656,160,0 250,500,250,0
2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -i	900 1000 1000 1000   Matrix  50 150 200 1000 300 1000 400 1000 550 600 1000 700 1000 800 1000 900 1000	90 100 100 100 100 10 10 20 100 30 100 40 40 100 50 50 60 100 70 100 80 100 90 100	20.011760 22.545957 22.624936 Time / manual 0.001402 0.036497 0.103509 22.578228 0.394802 22.531387 1.014198 22.699620 2.278428 3.056677 4.072283 22.626312 7.611243 22.560374 10.029581 22.596446 20.174155 22.571971	25,890,261.0 31,896,067.0 31,896,067.0 31,896,067.0  Inf Norm / manual	0.448777 0.632317 0.648349  Time / pThreads 0.001368 0.005516 0.010126 0.629005 0.019049 0.623278 0.045393 0.637117 0.081549 0.100339 0.149209 0.625287 0.220870 0.630177 0.327374 0.638827 0.450073 0.635937	25,133,0 31,350,3 31,350,3 31,350,3 Inf Norm / pThread 1,625,6 404,010,0 250,500,250,0 6,432,040,0 250,500,250,0 15,687,562,5 22,959,825,6 32,508,090,0 250,500,250,0 60,196,622,5 250,500,250,0 102,656,160,0 250,500,250,0 102,656,160,0 250,500,250,0
2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -i	900 1000 1000   Matrix  50 150 200 1000 300 1000 400 1000 500 550 600 1000 700 1000 800 1000 900	90 100 100 100 100 10 20 100 30 100 40 40 1100 50 50 60 1100 70 1100 80 90	20.011760 22.545957 22.624936 Time / manual 0.001402 0.036497 0.103509 22.578228 0.394802 22.531387 1.014198 22.699620 2.278428 3.056677 4.072283 22.626312 7.611243 22.560374 10.029581 22.596446 20.174155	25,890,261.0 31,896,067.0 31,896,067.0 31,896,067.0  Inf Norm / manual	0.448777 0.632317 0.648349  Time / pThreads 0.001368 0.005516 0.010126 0.629005 0.019049 0.623278 0.045393 0.637117 0.081549 0.100339 0.149209 0.625287 0.220870 0.630177 0.327374 0.638827 0.450073	25,133,0 31,350,3 31,350,3 31,350,3 Inf Norm / pThread 1,625,6 404,010,0 250,500,250,0 6,432,040,0 250,500,250,0 15,687,562,5 22,959,825,6 32,508,090,0 250,500,250,0 60,196,622,5 250,500,250,0 102,656,160,0 250,500,250,0 102,656,160,0 250,500,250,0
2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -i	900 1000 1000   Matrix  50 150 200 1000 300 1000 400 1000 550 600 1000 700 1000 800 1000 900 1000 1000	90 100 100 100 100 10 10 20 100 30 100 40 100 50 50 60 100 70 100 80 100 90 100	20.011760 22.545957 22.624936 Time / manual 0.001402 0.036497 0.103509 22.578228 0.394802 22.531387 1.014198 22.699620 2.278428 3.056677 4.072283 22.626312 7.611243 22.560374 10.029581 22.596446 20.174155 22.571971 22.702559	25,890,261.0 31,896,067.0 31,896,067.0 31,896,067.0  Inf Norm / manual	0.448777 0.632317 0.648349  Time / pThreads 0.001368 0.005516 0.010126 0.629005 0.019049 0.623278 0.045393 0.637117 0.081549 0.100339 0.149209 0.625287 0.220870 0.630177 0.327374 0.638827 0.450073 0.635937	25,133,0 31,350,3 31,350,3 31,350,3 Inf Norm / pThread 1,625,6 128,255,6 404,011,0 250,500,250,0 6,432,040,0 250,500,250,0 15,687,562,5 22,959,825,6 32,508,090,0 250,500,250,0 60,196,622,5 250,500,250,0 102,656,160,0 250,500,250,0 164,389,702,5 250,500,250,0 164,389,702,5 250,500,250,0
2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -i	900 1000 1000   Matrix  50 150 200 1000 300 1000 400 1000 500 550 600 1000 700 1000 800 1000 900 1000 1000	90 100 100 100 100 10 10 20 100 30 100 40 100 50 60 100 70 100 80 100 90 100	20.011760 22.545957 22.624936 Time / manual 0.001402 0.036497 0.103509 22.578228 0.394802 22.531387 1.014198 22.699620 2.278428 3.056677 4.072283 22.626312 7.611243 22.560374 10.029581 22.596446 20.1774155 22.571971 22.702559	25,890,261.0 31,896,067.0 31,896,067.0 31,896,067.0  Inf Norm / manual	0.448777 0.632317 0.648349  Time / pThreads 0.001368 0.005516 0.010126 0.629005 0.019049 0.623278 0.045393 0.637117 0.081549 0.100339 0.149209 0.625287 0.220870 0.630177 0.327374 0.638827 0.450073 0.635937 0.647013	25,133,0 31,350,3 31,350,3 31,350,3 Inf Norm / pThread 1,625,6 128,255,6 404,010,0 250,500,250,0 6,432,040,0 250,500,250,0 15,687,562,5 22,959,825,6 32,508,090,0 250,500,250,0 60,196,622,5 250,500,250,0 102,656,160,0 250,500,250,0 164,389,702,5 250,500,250,0 164,389,702,5 250,500,250,0
2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -i	900 1000 1000   Matrix  50 150 200 1000 300 1000 400 1000 550 600 1000 700 1000 800 1000 900 1000 1000	90 100 100 100 100 10 20 100 30 100 40 100 50 50 60 100 70 100 80 100 90 100	20.011760 22.545957 22.624936 Time / manual 0.001402 0.036497 0.103509 22.578228 0.394802 22.531387 1.014198 22.699620 2.278428 3.056677 4.072283 22.626312 7.611243 22.560374 10.029581 22.596446 20.174155 22.571971 22.702559	25,890,261.0 31,896,067.0 31,896,067.0 31,896,067.0  Inf Norm / manual	0.448777 0.632317 0.648349  Time / pThreads 0.001368 0.005516 0.010126 0.629005 0.019049 0.623278 0.045393 0.637117 0.081549 0.100339 0.149209 0.625287 0.220870 0.630177 0.327374 0.638827 0.450073 0.635937 0.647013	25,133,0 31,350,3 31,350,3 31,350,3 31,350,3 Inf Norm / pThreads 1,625,6 404,010,0 250,500,250,0 6,432,040,0 250,500,250,0 15,687,562,5 22,959,825,6 32,508,090,0 250,500,250,0 102,656,160,0 250,500,250,0 102,656,160,0 250,500,250,0 164,389,702,5 250,500,250,0 164,389,702,5 250,500,250,0 164,389,702,5 250,500,250,0 164,389,702,5 250,500,250,0
2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -i	900 1000 1000 1000   Matrix  50 150 200 1000 300 1000 400 1000 500 550 600 1000 700 1000 800 1000 900 1000 1000 500 550 50 600 1000 500 550 600 1000 550 600 1000 550 600 1000 550 600 1000 550 600 1000 550 600 1000 550 600 1000 550 600 1000 550 600 1000 550 600 1000	90 100 100 100 100 10 20 100 30 40 100 50 60 100 70 100 80 100 90 100 100 100	20.011760 22.545957 22.624936 Time / manual 0.001402 0.036497 0.103509 22.578228 0.394802 22.531387 1.014198 22.699620 2.278428 3.056677 4.072283 22.626312 7.611243 22.560374 10.029581 22.596446 20.174155 22.571971 22.702559	25,890,261.0 31,896,067.0 31,896,067.0 31,896,067.0  Inf Norm / manual	0.448777 0.632317 0.632317 0.648349  Time / pThreads 0.001368 0.005516 0.010126 0.629005 0.019049 0.623278 0.045393 0.637117 0.081549 0.100339 0.149209 0.625287 0.220870 0.630177 0.327374 0.638827 0.450073 0.635937 0.647013	25,133,0 31,350,3 31,350,3 31,350,3 31,350,3 31,350,3 31,350,3 31,350,3 31,350,3 1,625,6 404,010,0 250,500,250,0 6,432,040,0 250,500,250,0 15,687,562,5 22,959,825,6 32,508,090,0 250,500,250,0 102,656,160,0 250,500,250,0 112,656,160,0 250,500,250,0 164,389,702,5 250,500,250,0 250,500,250,0 164,389,702,5 250,500,250,0 164,389,702,5 250,500,250,0 164,389,702,5 250,500,250,0 164,389,702,5 250,500,250,0 164,389,702,5 250,500,250,0 164,389,702,5 250,500,250,0 164,389,702,5 250,500,250,0 164,389,702,5 250,500,250,0 164,389,702,5 250,500,250,0 250,500,250,0 164,389,702,5 250,500,250,0 250,500,250,0 250,500,250,0 250,500,250,0 250,500,250,0
2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -i	900 1000 1000 1000   Matrix  50 150 200 1000 300 1000 400 1000 500 550 600 1000 700 1000 800 1000 900 1000 1000 500 150 50 150 200 1000	90 100 100 100 100 10 20 100 30 100 40 100 50 60 100 70 100 80 100 90 100 100	20.011760 22.545957 22.624936 Time / manual 0.001402 0.036497 0.103509 22.578228 0.394802 22.531387 1.014198 22.699620 2.278428 3.056677 4.072283 22.626312 7.611243 22.560374 10.029581 22.596446 20.1774155 22.571971 22.702559 0.001406 0.036443 0.102373 22.590978	25,890,261.0 31,896,067.0 31,896,067.0 31,896,067.0  Inf Norm / manual	0.448777 0.632317 0.632317 0.648349  Time / pThreads 0.001368 0.005516 0.010126 0.629005 0.019049 0.623278 0.045393 0.637117 0.081549 0.100339 0.149209 0.625287 0.220870 0.630177 0.327374 0.638827 0.450073 0.635937 0.647013 0.001293 0.001293 0.0012016 0.632697	25,133,0 31,350,3 31,350,3 31,350,3 31,350,3 Inf Norm / pThread: 1,625,6 404,010,0 250,500,250,0 6,432,040,0 250,500,250,0 15,687,562,5 22,959,825,6 32,508,090,0 250,500,250,0 60,196,622,5 250,500,250,0 102,656,160,0 250,500,250,0 164,389,702,5 250,500,250,0 164,389,702,5 250,500,250,0 164,389,702,5 250,500,250,0 250,500,250,0 250,500,250,0 250,500,250,0 250,500,250,0
2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -i	900 1000 1000 1000   Matrix  50 150 200 1000 300 1000 400 1000 550 600 1000 700 1000 800 1000 900 1000 1000 550 150 200 1000 300	90 100 100 100 100 10 20 100 30 100 50 50 50 60 100 70 100 90 100 100 100 100 20 100 30	20.011760 22.545957 22.624936 Time / manual 0.001402 0.036497 0.103509 22.578228 0.394802 22.531387 1.014198 22.699620 2.278428 3.056677 4.072283 22.626312 7.611243 22.560374 10.029581 22.571971 22.702559 0.001406 0.036443 0.102373 22.590978 0.385407	25,890,261.0 31,896,067.0 31,896,067.0 31,896,067.0  Inf Norm / manual	0.448777 0.632317 0.648349  Time / pThreads 0.001368 0.005516 0.010126 0.629005 0.019049 0.623278 0.045393 0.637117 0.081549 0.10939 0.149209 0.625287 0.220870 0.630177 0.327374 0.638827 0.450073 0.635937 0.647013	25,133,0 31,350,3 31,350,3 31,350,3 1,625,6 128,255,6 404,010,0 250,500,250,0 2,038,522,5 250,500,250,0 15,687,562,5 22,959,825,6 32,508,090,0 250,500,250,0 60,196,622,5 250,500,250,0 102,656,160,0 250,500,250,0 164,389,702,5 250,500,250,0 164,389,702,5 250,500,250,0 250,500,250,0 250,500,250,0 250,500,250,0 250,500,250,0 250,500,250,0 250,500,250,0 250,500,250,0 250,500,250,0
2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -i	900 1000 1000 1000   Matrix  50 150 200 1000 300 1000 400 1000 550 600 1000 700 1000 800 1000 900 1000 1000 500 550 600 1000 900 1000 900 1000 1000 1000 1	90 100 100 100 100 10 10 20 100 30 100 40 40 100 50 50 60 100 70 100 80 100 90 100 100 100 20 100 30 100 30 100 30 40 40 40 40 40 100 30 50 50 50 50 60 100 30 100 30 100 30 100 30 40 40 40 40 40 40 40 40 40 40 40 40 40	20.011760 22.545957 22.624936 Time / manual 0.001402 0.036497 0.103509 22.578228 0.394802 22.531387 1.014198 22.699620 2.278428 3.056677 4.072283 22.626312 7.611243 22.560374 10.029581 22.596446 20.174155 22.571971 22.702559 0.001406 0.036443 0.102373 22.590978 0.385407 22.6936475	25,890,261.0 31,896,067.0 31,896,067.0 31,896,067.0  Inf Norm / manual	0.448777 0.632317 0.632317 0.648349  Time / pThreads 0.001368 0.005516 0.010126 0.629005 0.019049 0.623278 0.045393 0.637117 0.081549 0.100339 0.149209 0.625287 0.220870 0.630177 0.327374 0.638827 0.450073 0.635937 0.647013	25,133,0 31,350,3 31,350,3 31,350,3 31,350,3 31,350,3 31,350,3 1,625,6 128,255,6 404,010,0 250,500,250,0 6,432,040,0 250,500,250,0 15,687,562,5 22,959,825,6 32,508,090,0 250,500,250,0 102,656,160,0 250,500,250,0 104,389,702,5 250,500,250,0 164,389,702,5 250,500,250,0 164,389,702,5 250,500,250,0 250,500,250,0 250,500,250,0 250,500,250,0 250,500,250,0 250,500,250,0 250,500,250,0 250,500,250,0 250,500,250,0 250,500,250,0 250,500,250,0
2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -i	900 1000 1000 1000   Matrix  50 150 200 1000 300 1000 400 1000 550 600 1000 700 1000 800 1000 900 1000 1000 550 550 600 1000 300 1000 1000 1000 1000 1000	90 100 100 100 100 10 20 100 30 40 100 50 60 100 70 100 80 100 100 100 100 100 100 100 100	20.011760 22.545957 22.624936 Time / manual 0.001402 0.036497 0.103509 22.578228 0.394802 22.531387 1.014198 22.699620 2.278428 3.056677 4.072283 22.626312 7.611243 22.560374 10.029581 22.596446 20.174155 22.571971 22.702559 0.001406 0.036443 0.102373 22.590978 0.385407 22.636475 1.028510	25,890,261.0 31,896,067.0 31,896,067.0 31,896,067.0  Inf Norm / manual	0.448777 0.632317 0.648349  Time / pThreads 0.001368 0.005516 0.010126 0.629005 0.019049 0.623278 0.045393 0.637117 0.081549 0.100339 0.149209 0.625287 0.220870 0.630177 0.327374 0.638827 0.450073 0.635937 0.647013	25,133,0 31,350,3 31,350,3 31,350,3 31,350,3 31,350,3 31,350,3 31,350,3 31,350,3 31,350,3 1,625,6 404,010,0 250,500,250,0 6,432,040,0 250,500,250,0 15,687,562,5 22,959,825,6 32,508,090,0 250,500,250,0 102,656,160,0 250,500,250,0 1102,656,160,0 250,500,250,0 164,389,702,5 250,500,250,0 250,500,250,0 250,500,250,0 250,500,250,0 250,500,250,0 250,500,250,0 250,500,250,0 250,500,250,0 250,500,250,0 250,500,250,0 250,500,250,0 250,500,250,0 250,500,250,0 250,500,250,0 250,500,250,0 250,500,250,0 250,500,250,0 250,500,250,0 2,500,500,250,0 2,500,500,250,0 2,500,500,250,0 2,500,500,250,0 2,500,500,250,0 2,500,500,250,0 2,500,500,250,0 2,500,500,250,0 2,500,500,250,0 6,432,040,0
2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -i	900 1000 1000 1000   Matrix  50 150 200 1000 300 1000 400 1000 500 550 600 1000 700 1000 800 1000 900 1000 1000 500 150 200 1000 1000 1000	90 100 100 100 100 10 20 100 30 100 40 100 50 60 100 70 100 80 100 90 100 100 100 20 100 30 40 40 100 40 40 100 50 60 100 40 100 40 40 40 40 40 40 40 40 40 40 40 40 4	20.011760 22.545957 22.624936 Time / manual 0.001402 0.036497 0.103509 22.578228 0.394802 22.531387 1.014198 22.699620 2.278428 3.056677 4.072283 22.626312 7.611243 22.560374 10.029581 22.571971 22.702559 0.001406 0.036443 0.102373 22.590978 0.385407 22.636475 1.028510 22.667234	25,890,261.0 31,896,067.0 31,896,067.0 31,896,067.0  Inf Norm / manual	0.448777 0.632317 0.632317 0.648349  Time / pThreads 0.001368 0.005516 0.010126 0.629005 0.019049 0.623278 0.045393 0.637117 0.081549 0.100339 0.149209 0.625287 0.220870 0.630177 0.327374 0.638827 0.450073 0.635937 0.647013 0.001293 0.001293 0.0012916 0.632697 0.021244 0.635413 0.049324 0.629788	25,133,0 31,350,3 31,350,3 31,350,3 31,350,3 Inf Norm / pThread: 1,625,6 404,010,0 250,500,250,0 2,038,522,5 250,500,250,0 15,687,562,5 22,959,825,6 32,508,090,0 250,500,250,0 60,196,622,5 250,500,250,0 102,656,160,0 250,500,250,0 164,389,702,5 250,500,250,0 164,389,702,5 250,500,250,0 250,500,250,0 250,500,250,0 250,500,250,0 250,500,250,0 250,500,250,0 250,500,250,0 250,500,250,0 250,500,250,0 250,500,250,0 250,500,250,0 250,500,250,0 250,500,250,0 250,500,250,0 250,500,250,0
2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -i	900 1000 1000 1000   Matrix  50 150 200 1000 300 1000 400 1000 550 600 1000 700 1000 800 1000 900 1000 1000 50 150 200 1000 300 1000 400 1000 400 1000 500	90 100 100 100 100 10 10 20 100 30 100 40 100 50 50 60 100 70 100 80 100 90 100 100 100 20 100 30 100 40 100 50 50 50 50 50 50 50 50 50 50 50 50 5	20.011760 22.545957 22.624936 Time / manual 0.001402 0.036497 0.103509 22.578228 0.394802 22.531387 1.014198 22.699620 2.278428 3.056677 4.072283 22.626312 7.611243 22.560374 10.029581 22.596446 20.174155 22.571971 22.702559 0.001406 0.036443 0.102373 22.590978 0.385407 22.636475 1.028510	25,890,261.0 31,896,067.0 31,896,067.0 31,896,067.0  Inf Norm / manual	0.448777 0.632317 0.648349  Time / pThreads 0.001368 0.005516 0.010126 0.629005 0.019049 0.623278 0.045393 0.637117 0.081549 0.100339 0.149209 0.625287 0.220870 0.630177 0.327374 0.638827 0.450073 0.635937 0.647013	25,133,0 31,350,3 31,350,3 31,350,3 31,350,3 Inf Norm / pThread: 1,625,6 404,010,0 250,500,250,0 2,038,522,5 250,500,250,0 15,687,562,5 22,959,825,6 32,508,090,0 250,500,250,0 60,196,622,5 250,500,250,0 102,656,160,0 250,500,250,0 164,389,702,5 250,500,250,0 164,389,702,5 250,500,250,0 250,500,250,0 250,500,250,0 250,500,250,0 250,500,250,0 250,500,250,0 250,500,250,0 250,500,250,0 250,500,250,0 250,500,250,0 250,500,250,0 250,500,250,0 250,500,250,0 250,500,250,0 250,500,250,0
2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -i	900 1000 1000 1000   Matrix  50 150 200 1000 300 1000 400 1000 500 550 600 1000 700 1000 800 1000 900 1000 1000 500 150 200 1000 1000 1000	90 100 100 100 100 10 20 100 30 100 40 100 50 60 100 70 100 80 100 90 100 100 100 20 100 30 40 40 100 40 40 100 50 60 100 40 100 40 40 40 40 40 40 40 40 40 40 40 40 4	20.011760 22.545957 22.624936 Time / manual 0.001402 0.036497 0.103509 22.578228 0.394802 22.531387 1.014198 22.699620 2.278428 3.056677 4.072283 22.626312 7.611243 22.560374 10.029581 22.571971 22.702559 0.001406 0.036443 0.102373 22.590978 0.385407 22.636475 1.028510 22.667234	25,890,261.0 31,896,067.0 31,896,067.0 31,896,067.0  Inf Norm / manual	0.448777 0.632317 0.632317 0.648349  Time / pThreads 0.001368 0.005516 0.010126 0.629005 0.019049 0.623278 0.045393 0.637117 0.081549 0.100339 0.149209 0.625287 0.220870 0.630177 0.327374 0.638827 0.450073 0.635937 0.647013 0.001293 0.001293 0.0012916 0.632697 0.021244 0.635413 0.049324 0.629788	25,133,0 31,350,3 31,350,3 31,350,3 31,350,3 1,625,6 128,255,6 404,010,0 250,500,250,0 6,432,040,0 250,500,250,0 15,687,562,5 22,959,825,6 32,508,090,0 250,500,250,0 60,196,622,5 250,500,250,0 102,656,160,0 250,500,250,0 164,389,702,5 250,500,250,0 164,389,702,5 250,500,250,0 250,500,250,0 250,500,250,0 250,500,250,0 250,500,250,0 250,500,250,0 250,500,250,0 250,500,250,0 250,500,250,0 250,500,250,0 250,500,250,0 250,500,250,0 250,500,250,0 250,500,250,0 250,500,250,0 250,500,250,0 250,500,250,0 250,500,250,0 15,687,562,5
2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -i	900 1000 1000 1000   Matrix  50 150 200 1000 300 1000 400 1000 500 550 600 1000 700 1000 800 1000 900 1000 1000 50 150 200 1000 300 1000 300 1000 500 550	90 100 100 100 100 10 20 100 30 100 40 100 50 60 100 70 100 80 100 100 100 100 20 100 100 30 100 40 100 50 50 50 50 50 50 50 50 50 50 50 50 5	20.011760 22.545957 22.624936 Time / manual 0.001402 0.036497 0.103509 22.578228 0.394802 22.531387 1.014198 22.699620 2.278428 3.056677 4.072283 22.626312 7.611243 22.560374 10.029581 22.596446 20.174155 22.571971 22.702559 0.001406 0.036443 0.102373 22.590978 0.385407 22.636475 1.028510 22.667234 2.267032 3.048547	25,890,261.0 31,896,067.0 31,896,067.0 31,896,067.0 31,896,067.0  Inf Norm / manual	0.448777 0.632317 0.6348349  Time / pThreads 0.001368 0.005516 0.010126 0.629005 0.019049 0.623278 0.045393 0.637117 0.081549 0.100339 0.149209 0.625287 0.220870 0.630177 0.327374 0.638827 0.450073 0.635937 0.647013	25,133.0 31,350.3 31,350.3 31,350.3 31,350.3 31,350.3 31,350.3 31,350.3 31,350.3 31,350.3 31,350.3 31,350.3 31,350.3 1,625,6 404,010.0 250,500,250.0 6,432,040.0 250,500,250.0 15,687,562,5 22,959,825,6 32,508,090.0 250,500,250.0 102,656,160.0 250,500,250.0 112,656,160.0 250,500,250.0 164,389,702.5 250,500,250.0 250,500,250.0 250,500,250.0 250,500,250.0 250,500,250.0 250,500,250.0 1,625,6 404,010.0 250,500,250.0 2,038,522,5 250,500,250.0 6,432,040.0 250,500,250.0 15,687,562,5 22,959,825,6
2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -i	900 1000 1000 1000   Matrix  50 150 200 1000 300 1000 400 1000 500 550 600 1000 800 1000 900 1000 1000 50 150 200 1000 300 1000 1000 50 55 600 1000 55 600 1000 55 600 1000 55 600	90 100 100 100 100 10 20 100 30 40 100 50 60 100 70 100 80 100 100 100 100 100 100 100 100	20.011760 22.545957 22.624936 Time / manual 0.001402 0.036497 0.103509 22.578228 0.394802 22.531387 1.014198 22.699620 2.278428 3.056677 4.072283 22.626312 7.611243 22.560374 10.029581 22.596446 20.174155 22.571971 22.702559 0.001406 0.036443 0.102373 22.590978 0.385407 22.636475 1.028510 22.667032 3.048547 3.844227	25,890,261.0 31,896,067.0 31,896,067.0 31,896,067.0  Inf Norm / manual	0.448777 0.632317 0.632317 0.648349  Time / pThreads 0.001368 0.005516 0.010126 0.629005 0.019049 0.623278 0.045393 0.637117 0.081549 0.100339 0.149209 0.625287 0.220870 0.630177 0.327374 0.638827 0.450073 0.637937 0.647013	25,133,0 31,350,3 31,350,3 31,350,3 31,350,3 11,625,6 128,255,6 404,010,0 250,500,250,0 6,432,040,0 250,500,250,0 15,687,562,5 22,959,825,6 32,508,090,0 250,500,250,0 102,656,160,0 250,500,250,0 164,389,702,5 250,500,250,0 164,389,702,5 250,500,250,0 250,500,250,0 164,389,702,5 250,500,250,0 250,500,250,0 250,500,250,0 164,389,702,5 250,500,250,0 250,500,250,0 1,625,6 404,010,0 250,500,250,0 6,432,040,0 250,500,250,0 15,687,562,5 22,959,825,6 32,508,090,0
2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -i	900 1000 1000 1000   Matrix  50 150 200 1000 300 1000 400 1000 500 550 600 1000 900 1000 1000 500 150 200 1000 1000 1000	90 100 100 100 100 100 10 10 20 100 30 100 40 100 50 60 100 100 100 100 20 100 30 100 50 60 1100 50 60 100 50 60 1100 50 60 1100 50 60 1100	20.011760 22.545957 22.624936 Time / manual 0.001402 0.036497 0.103509 22.578228 0.394802 22.531387 1.014198 22.699620 2.278428 3.056677 4.072283 22.626312 7.611243 22.560374 10.029581 22.571971 22.702559 0.001406 0.036443 0.102373 22.590978 0.385407 22.636475 1.028510 22.667234 2.267032 3.048547 3.844227 22.577241	25,890,261.0 31,896,067.0 31,896,067.0 31,896,067.0  Inf Norm / manual	0.448777 0.632317 0.648349  Time / pThreads 0.001368 0.005516 0.010126 0.629005 0.019049 0.623278 0.045393 0.637117 0.081549 0.100339 0.149209 0.625287 0.220870 0.630177 0.327374 0.638827 0.450073 0.635937 0.647013 0.001293 0.001293 0.004162 0.012016 0.632697 0.021244 0.635413 0.049324 0.629788 0.082868 0.104482 0.144682 0.144682	25,133,0 31,350,3 31,350,3 31,350,3 31,350,3 11,625,6 128,255,6 404,010,0 250,500,250,0 2,038,522,5 250,500,250,0 15,687,562,5 22,959,825,6 32,508,090,0 250,500,250,0 60,196,622,5 250,500,250,0 102,656,160,0 250,500,250,0 164,389,702,5 250,500,250,0 164,389,702,5 250,500,250,0 250,500,250,0 1,625,6 128,255,6 404,010,0 250,500,250,0 6,432,040,0 250,500,250,0 15,687,562,5 22,959,825,6 32,508,090,0 250,500,250,0 15,687,562,5 22,959,825,6 32,508,090,0 250,500,250,0
2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -i	900 1000 1000 1000   Matrix  50 150 200 1000 300 1000 400 1000 550 600 1000 800 1000 900 1000 1000 50 150 200 1000 300 1000 400 1000 500 550 600 1000 500 550 600 1000 700	90 100 100 100 100   Threads  10 10 20 100 30 100 40 100 50 50 60 100 100 100 20 110 10 20 110 30 1100 50 50 50 60 60 1100 70	20.011760 22.545957 22.624936 Time / manual 0.001402 0.036497 0.103509 22.578228 0.394802 22.531387 1.014198 22.699620 2.278428 3.056677 4.072283 22.626312 7.611243 22.560374 10.029581 22.571971 22.702559 0.001406 0.036443 0.102373 22.590978 0.385407 22.636475 1.028510 22.667234 2.267032 3.048547 3.844227 22.577241 8.153411	25,890,261.0 31,896,067.0 31,896,067.0 31,896,067.0  Inf Norm / manual	0.448777 0.632317 0.648349  Time / pThreads 0.001368 0.005516 0.010126 0.629005 0.019049 0.623278 0.045393 0.637117 0.081549 0.100339 0.149209 0.625287 0.220870 0.630177 0.327374 0.638827 0.450073 0.635937 0.647013 0.001293 0.004162 0.012016 0.632697 0.021244 0.635413 0.049324 0.629788 0.082868 0.104482 0.144682 0.634571 0.218322	25,133,0 31,350,3 31,350,3 31,350,3 31,350,3 1,625,6 128,255,6 404,010,0 250,500,250,0 6,432,040,0 250,500,250,0 15,687,562,5 22,959,825,6 32,508,090,0 250,500,250,0 102,656,160,0 250,500,250,0 164,389,702,5 250,500,250,0 164,389,702,5 250,500,250,0 250,500,250,0 250,500,250,0 164,389,702,5 250,500,250,0 250,500,250,0 250,500,250,0 1,625,6 404,010,0 250,500,250,0 6,432,040,0 250,500,250,0 15,687,562,5 22,959,825,6 32,508,090,0 250,500,250,0 250,500,250,0 250,500,250,0 250,500,250,0
2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -i	900 1000 1000 1000   Matrix  50 150 200 1000 300 1000 400 1000 550 600 1000 900 1000 1000 500 150 200 1000 300 1000 500 550 600 1000 500 550 600 1000 700 1000 300 1000 1000 1000 1000	90 100 100 100 100 100 10 10 20 100 30 100 40 100 50 60 100 80 100 100 100 100 100 100 50 50 60 100 100 100 100 100 100 100 100 100	20.011760 22.545957 22.624936 Time / manual 0.001402 0.036497 0.103509 22.578228 0.394802 22.531387 1.014198 22.699620 2.278428 3.056677 4.072283 22.626312 7.611243 22.560374 10.029581 22.596446 20.174155 22.571971 22.702559 0.001406 0.036443 0.102373 22.590978 0.385407 22.636475 1.028510 22.667234 2.267032 3.048547 3.844227 22.577241 8.153411 22.671438	25,890,261.0 31,896,067.0 31,896,067.0 31,896,067.0 31,896,067.0  Inf Norm / manual	0.448777 0.632317 0.6348349  Time / pThreads 0.001368 0.005516 0.010126 0.629005 0.019049 0.623278 0.045393 0.637117 0.081549 0.100339 0.149209 0.625287 0.220870 0.630177 0.327374 0.638827 0.450073 0.635937 0.647013	25,133,0 31,350,3 31,350,3 31,350,3 31,350,3 31,350,3 31,350,3 31,350,3  Inf Norm / pThread:
2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -i	900 1000 1000 1000   Matrix  50 150 200 1000 300 1000 400 1000 500 550 600 1000 800 1000 900 1000 1000 50 150 200 1000 300 1000 500 550 600 1000 500 550 600 1000 500 550 600 1000 500 550 600 1000 500 550 600 1000 500 550 600 1000 800	90 100 100 100 100 100 10 20 100 30 100 40 100 50 60 100 80 100 100 100 100 100 100 100 50 60 100 50 60 100 70 100 80 100 80 80 80 80 80 80 80 80 80 80 80	20.011760 22.545957 22.624936 Time / manual 0.001402 0.036497 0.103509 22.578228 0.394802 22.531387 1.014198 22.699620 2.278428 3.056677 4.072283 22.626312 7.611243 22.560374 10.029581 22.596446 20.174155 22.571971 22.702559 0.001406 0.036443 0.102373 22.590978 0.385407 22.636475 1.028510 22.667032 3.048547 3.844227 22.5777241 8.153411 22.671438 10.527717	25,890,261.0 31,896,067.0 31,896,067.0 31,896,067.0 18,965,067.0 18,625,625.0 128,255,625.0 404,010,000.0 250,500,250,000.0 6,432,040,000.0 250,500,250,000.0 15,687,562,500.0 250,500,250,000.0 60,196,622,500.0 250,500,250,000.0 102,656,160,000.0 250,500,250,000.0 164,389,702,500.0 250,500,250,000.0 164,389,702,500.0 250,500,250,000.0	0.448777 0.632317 0.632317 0.648349  Time / pThreads 0.001368 0.005516 0.010126 0.629005 0.019049 0.623278 0.045393 0.637117 0.081549 0.100339 0.149209 0.625287 0.220870 0.630177 0.327374 0.638827 0.450073 0.637937 0.647013	25,133,0 31,350,3 31,350,3 31,350,3 31,350,3 31,350,3 31,350,3 31,350,3  Inf Norm / pThread:
2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -i	900 1000 1000 1000   Matrix  50 150 200 1000 300 1000 400 1000 550 600 1000 900 1000 1000 500 150 200 1000 300 1000 500 550 600 1000 500 550 600 1000 700 1000 300 1000 1000 1000 1000	90 100 100 100 100 100 10 10 20 100 30 100 40 100 50 60 100 80 100 100 100 100 100 100 50 50 60 100 100 100 100 100 100 100 100 100	20.011760 22.545957 22.624936 Time / manual 0.001402 0.036497 0.103509 22.578228 0.394802 22.531387 1.014198 22.699620 2.278428 3.056677 4.072283 22.626312 7.611243 22.560374 10.029581 22.596446 20.174155 22.571971 22.702559 0.001406 0.036443 0.102373 22.590978 0.385407 22.636475 1.028510 22.667234 2.267032 3.048547 3.844227 22.577241 8.153411 22.671438	25,890,261.0 31,896,067.0 31,896,067.0 31,896,067.0 31,896,067.0  Inf Norm / manual	0.448777 0.632317 0.6348349  Time / pThreads 0.001368 0.005516 0.010126 0.629005 0.019049 0.623278 0.045393 0.637117 0.081549 0.100339 0.149209 0.625287 0.220870 0.630177 0.327374 0.638827 0.450073 0.635937 0.647013	25,133,0 31,350,3 31,350,3 31,350,3 31,350,3 31,350,3 31,350,3 31,350,3  Inf Norm / pThread:
2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -i	900 1000 1000 1000   Matrix  50 150 200 1000 300 1000 400 1000 500 550 600 1000 800 1000 900 1000 1000 50 150 200 1000 300 1000 500 550 600 1000 500 550 600 1000 500 550 600 1000 500 550 600 1000 500 550 600 1000 500 550 600 1000 800	90 100 100 100 100 100 10 20 100 30 100 40 100 50 60 100 80 100 100 100 100 100 100 100 50 60 100 50 60 100 70 100 80 100 80 80 80 80 80 80 80 80 80 80 80	20.011760 22.545957 22.624936 Time / manual 0.001402 0.036497 0.103509 22.578228 0.394802 22.531387 1.014198 22.699620 2.278428 3.056677 4.072283 22.626312 7.611243 22.560374 10.029581 22.596446 20.174155 22.571971 22.702559 0.001406 0.036443 0.102373 22.590978 0.385407 22.636475 1.028510 22.667032 3.048547 3.844227 22.5777241 8.153411 22.671438 10.527717	25,890,261.0 31,896,067.0 31,896,067.0 31,896,067.0 18,965,067.0 18,625,625.0 128,255,625.0 404,010,000.0 250,500,250,000.0 6,432,040,000.0 250,500,250,000.0 15,687,562,500.0 250,500,250,000.0 60,196,622,500.0 250,500,250,000.0 102,656,160,000.0 250,500,250,000.0 164,389,702,500.0 250,500,250,000.0 164,389,702,500.0 250,500,250,000.0	0.448777 0.632317 0.632317 0.648349  Time / pThreads 0.001368 0.005516 0.010126 0.629005 0.019049 0.623278 0.045393 0.637117 0.081549 0.100339 0.149209 0.625287 0.220870 0.630177 0.327374 0.638827 0.450073 0.637937 0.647013	25,133,0 31,350,3 31,350,3 31,350,3 31,350,3 31,350,3 31,350,3 128,255,6 404,010,0 250,500,250,0 6,432,040,0 250,500,250,0 64,32,040,0 250,500,250,0 60,196,622,5 250,500,250,0 102,656,160,0 250,500,250,0 164,389,702,5 250,500,250,0 164,389,702,5 250,500,250,0 250,500,250,0 1,625,6 128,255,6 404,010,0 250,500,250,0 6,432,040,0 250,500,250,0 6,432,040,0 250,500,250,0 60,196,622,5 22,959,825,6 32,508,090,0 250,500,250,0 0,196,622,5 250,500,250,0 15,687,562,5 22,959,825,6 32,508,090,0 250,500,250,0 60,196,622,5 250,500,250,0 102,656,160,0 250,500,250,0 102,656,160,0 250,500,250,0 102,656,160,0 250,500,250,0
2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -r 2-pthreads-solo -i	900 1000 1000 1000   Matrix  50 150 200 1000 300 1000 400 1000 500 550 600 1000 1000 900 1000 1000 50 150 200 1000 1000 50 150 200 1000 300 1000 550 660 1000 550 6600 1000 550 6600 1000 550 600 1000 550 600 1000 500 550 600 1000 500 550 600 1000 700 1000 800	90 100 100 100 100 100 10 10 20 100 30 100 40 100 50 60 100 70 100 100 100 100 100 100 100 100	20.011760 22.545957 22.624936 Time / manual 0.001402 0.036497 0.103509 22.578228 0.394802 22.531387 1.014198 22.699620 2.278428 3.056677 4.072283 22.626312 7.611243 22.560374 10.029581 22.571971 22.702559 0.001406 0.036443 0.102373 22.560374 10.29581 22.571971 22.702559 10.001406 10.036443 0.102373 22.590978 0.385407 22.636475 1.028510 22.667234 2.267032 3.048547 3.844227 22.577241 8.153411 22.671438 10.527717 22.648630	25,890,261.0 31,896,067.0 31,896,067.0 31,896,067.0 1,896,067.0 128,255,625.0 128,255,625.0 404,010,000.0 250,500,250,000.0 250,500,250,000.0 15,687,562,500.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 102,656,160,000.0 250,500,250,000.0 164,389,702,500.0 250,500,250,000.0	0.448777 0.632317 0.648349  Time / pThreads 0.001368 0.005516 0.010126 0.629005 0.019049 0.623278 0.045393 0.637117 0.081549 0.100339 0.149209 0.625287 0.220870 0.630177 0.327374 0.638827 0.450073 0.635937 0.647013 0.001293 0.001293 0.004162 0.012016 0.632697 0.021244 0.635413 0.049324 0.629788 0.082868 0.104482 0.144682 0.634571 0.218322 0.635316 0.342593 0.642568	25,133,0 31,350,3