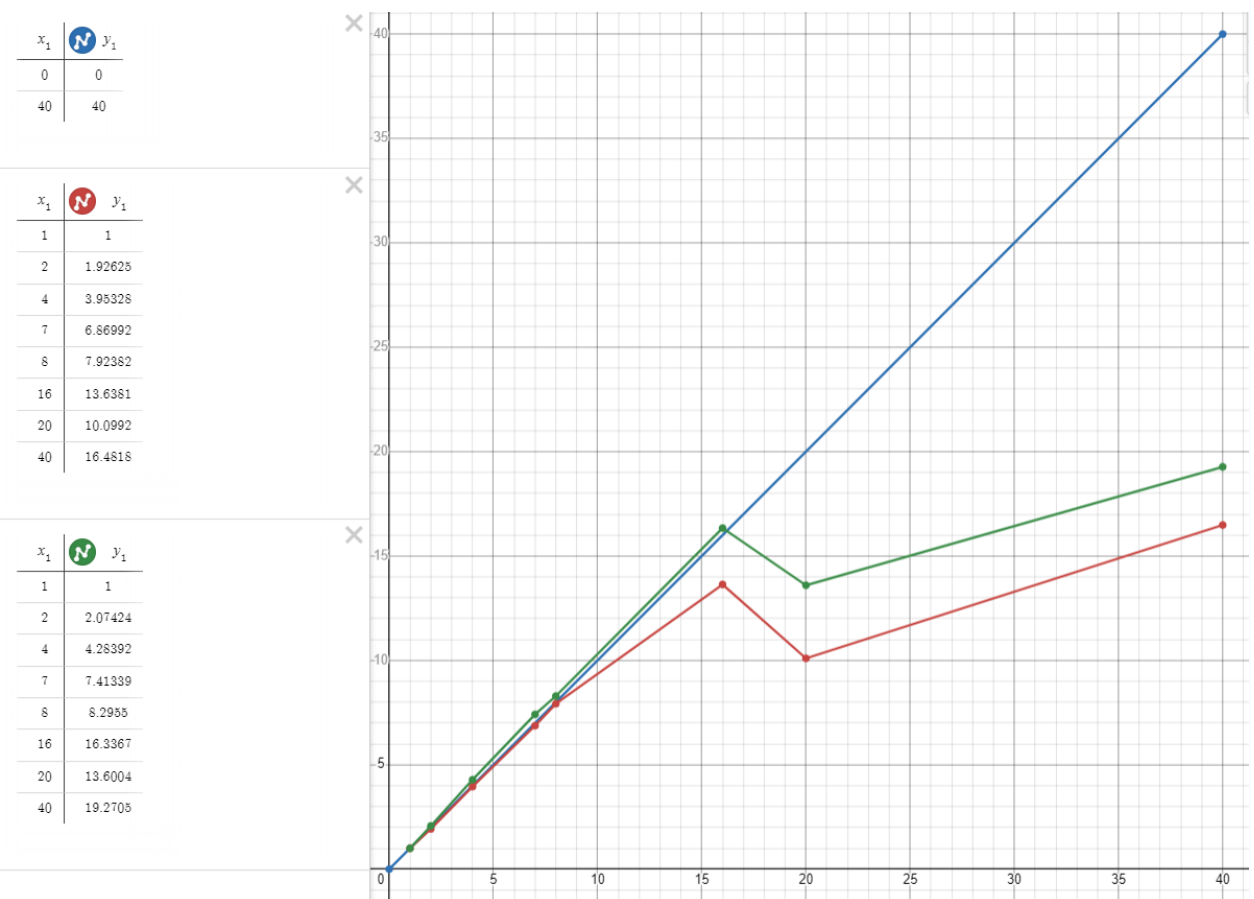Summary:
1 threads and matrix size 20000: S = 1, T = 4.75048
1 threads and matrix size 40000: S = 1, T = 20.5643
2 threads and matrix size 20000: S = 1.92625, T = 2.46618
2 threads and matrix size 40000: S = 2.07424, T = 9.91417
4 threads and matrix size 20000: S = 3.95328, T = 1.20165
4 threads and matrix size 40000: S = 4.28392, T = 4.80035
7 threads and matrix size 20000: S = 6.86992, T = 0.691489
7 threads and matrix size 40000: S = 7.41339, T = 2.77395
8 threads and matrix size 20000: S = 7.92382, T = 0.599518
8 threads and matrix size 40000: S = 8.2955, T = 2.47897
16 threads and matrix size 20000: S = 13.6381, T = 0.348325
16 threads and matrix size 40000: S = 16.3367, T = 1.25878
20 threads and matrix size 20000: S = 10.0992, T = 0.470383
20 threads and matrix size 40000: S = 13.6004, T = 1.51204
40 threads and matrix size 20000: S = 16.4818, T = 0.288226
40 threads and matrix size 40000: S = 19.2705, T = 1.06714

x_1	y_1
0	0
40	40

x_1	y_1
1	1
2	1.92625
4	3.95328
7	6.86992
8	7.92382
16	13.6381
20	10.0992
40	16.4818

x_1	y_1
1	1
2	2.07424
4	4.28392
7	7.41339
8	8.2955
16	16.3367
20	13.6004
40	19.2705

Вывод: хорошо масштабируется до 16 потоков, далее значительно отстает от линейного значения