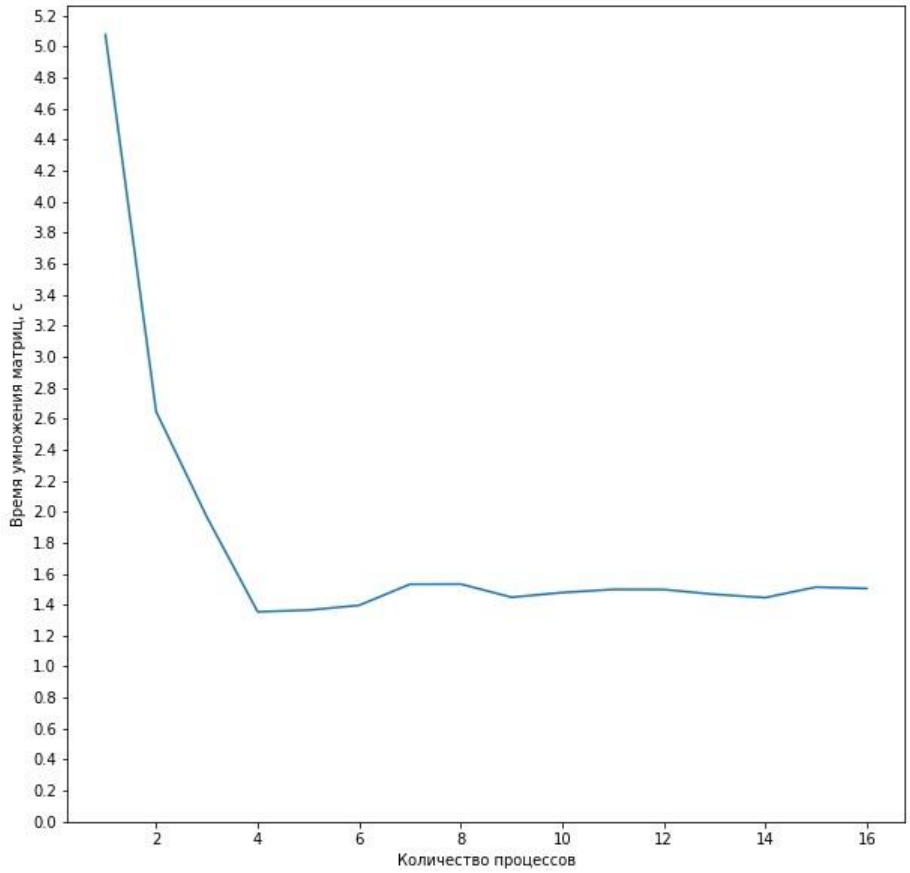
Производилось одно умножение двух квадратных матриц 1000x1000 с заранее сгенерированными случайными числами в диапазоне от 0 до 10. Время непосредственно умножения без чтения приведено в графиках для каждой программы.

1. MPI

AMD Ryzen 3 2200G with Radeon Vega Graphics 3.50 GHz, 4 ядра, 4 потока

```
PS D:\Uniyar\parallel_prog>  mpiexec -n 1 lab1.exe
Dimension of the matrices is 1000x1000
Started data reading
Time spent on reading: 8.3369
Time spent on calculation: 5.07587
PS D:\Uniyar\parallel_prog>  mpiexec -n 2 lab1.exe
Dimension of the matrices is 1000x1000
Started data reading
Time spent on reading: 8.4302
Time spent on calculation: 2.6446
PS D:\Uniyar\parallel_prog>  mpiexec -n 3 lab1.exe
Dimension of the matrices is 1000x1000
Started data reading
Time spent on reading: 8.24009
Time spent on calculation: 1.96459
PS D:\Uniyar\parallel_prog>  mpiexec -n 4 lab1.exe
Dimension of the matrices is 1000x1000
Started data reading
Time spent on reading: 8.32822
Time spent on calculation: 1.35383
PS D:\Uniyar\parallel_prog>  mpiexec -n 5 lab1.exe
Dimension of the matrices is 1000x1000
Started data reading
Time spent on reading: 8.21702
Time spent on calculation: 1.3643
PS D:\Uniyar\parallel_prog>  mpiexec -n 6 lab1.exe
Dimension of the matrices is 1000x1000
Started data reading
Time spent on reading: 8.30783
Time spent on calculation: 1.39524
PS D:\Uniyar\parallel_prog>  mpiexec -n 7 lab1.exe
Dimension of the matrices is 1000x1000
Started data reading
Time spent on reading: 8.35814
Time spent on calculation: 1.53124
PS D:\Uniyar\parallel_prog>  mpiexec -n 8 lab1.exe
Dimension of the matrices is 1000x1000
Started data reading
Time spent on reading: 8.41377
Time spent on calculation: 1.53235
PS D:\Uniyar\parallel_prog>  mpiexec -n 9 lab1.exe
Dimension of the matrices is 1000x1000
Started data reading
Time spent on reading: 8.32379
Time spent on calculation: 1.44738
PS D:\Uniyar\parallel_prog>  mpiexec -n 10 lab1.exe
Dimension of the matrices is 1000x1000
Started data reading
Time spent on reading: 8.3141
Time spent on calculation: 1.4774
PS D:\Uniyar\parallel_prog>  mpiexec -n 11 lab1.exe
Dimension of the matrices is 1000x1000
Started data reading
Time spent on reading: 8.27874
Time spent on calculation: 1.49789
```

```
PS D:\Uniyar\parallel_prog>  mpiexec -n 12 lab1.exe
Dimension of the matrices is 1000x1000
Started data reading
Time spent on reading: 8.26635
Time spent on calculation: 1.49712
PS D:\Uniyar\parallel_prog>  mpiexec -n 13 lab1.exe
Dimension of the matrices is 1000x1000
Started data reading
Time spent on reading: 8.25819
Started calculation
Time spent on calculation: 1.46617
PS D:\Uniyar\parallel_prog>  mpiexec -n 14 lab1.exe
Dimension of the matrices is 1000x1000
Started data reading
Time spent on reading: 8.26009
Started calculation
Time spent on calculation: 1.44499
PS D:\Uniyar\parallel_prog>  mpiexec -n 15 lab1.exe
Dimension of the matrices is 1000x1000
Started data reading
Time spent on reading: 8.54346
Started calculation
Time spent on calculation: 1.513
PS D:\Uniyar\parallel_prog>  mpiexec -n 16 lab1.exe
Dimension of the matrices is 1000x1000
Started data reading
Time spent on reading: 8.82191
Started calculation
Time spent on calculation: 1.50407
```



2. Open MP

AMD Ryzen 3 2200G with Radeon Vega Graphics 3.50 GHz, 4 ядра, 4 потока