

Bei 10x10 Matrizen ist die nicht threaded multiplizierung bei mir noch deutlich schneller, vermutlich durch den Overhead für die Threaderstellung. Das locken der neuen Thread Erstellung, macht keinen Signifikanten Geschwindigkeitsunterschied:

Geschwindigkeit, nicht threaded:

The non threaded computation for a 10 x 10 Matrix Multiplication, took: 0.000002 Nanoseconds

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The non threaded computation for a 10 x 10 Matrix Multiplication, took: 0.000004 Nanoseconds

Geschwindigkeit, threaded:

The threaded computation for a 10 x 10 Matrix Multiplication, took: 0.000352 Nanoseconds

The threaded computation for a 10 x 10 Matrix Multiplication, took: 0.000412 Nanoseconds

The threaded computation for a 10 x 10 Matrix Multiplication, took: 0.000299 Nanoseconds

The threaded computation for a 10 x 10 Matrix Multiplication, took: 0.000291 Nanoseconds

The threaded computation for a 10 x 10 Matrix Multiplication, took: 0.000335 Nanoseconds

Aber für größere Matrizen, wie z.B. 1000x1000 (die Ergebnisse der Berechnung sind dann wegen Overflow Quatsch), ist die threaded Implementierung deutlich schneller:

Geschwindigkeit, nicht threaded:

The non threaded computation for a 1000 x 1000 Matrix Multiplication, took: 2.226359 Nanoseconds

The non threaded computation for a 1000 x 1000 Matrix Multiplication, took: 2.191889 Nanoseconds

The non threaded computation for a 1000 x 1000 Matrix Multiplication, took: 2.227617 Nanoseconds

The non threaded computation for a 1000 x 1000 Matrix Multiplication, took: 2.176978 Nanoseconds

The non threaded computation for a 1000 x 1000 Matrix Multiplication, took: 2.226618 Nanoseconds

Geschwindigkeit, threaded:

The threaded computation for a 1000 x 1000 Matrix Multiplication, took: 0.452742 Nanoseconds

The threaded computation for a 1000 x 1000 Matrix Multiplication, took: 0.439374 Nanoseconds

The threaded computation for a 1000 x 1000 Matrix Multiplication, took: 0.449055 Nanoseconds

The threaded computation for a 1000 x 1000 Matrix Multiplication, took: 0.440257 Nanoseconds

The threaded computation for a 1000 x 1000 Matrix Multiplication, took: 0.468276 Nanoseconds