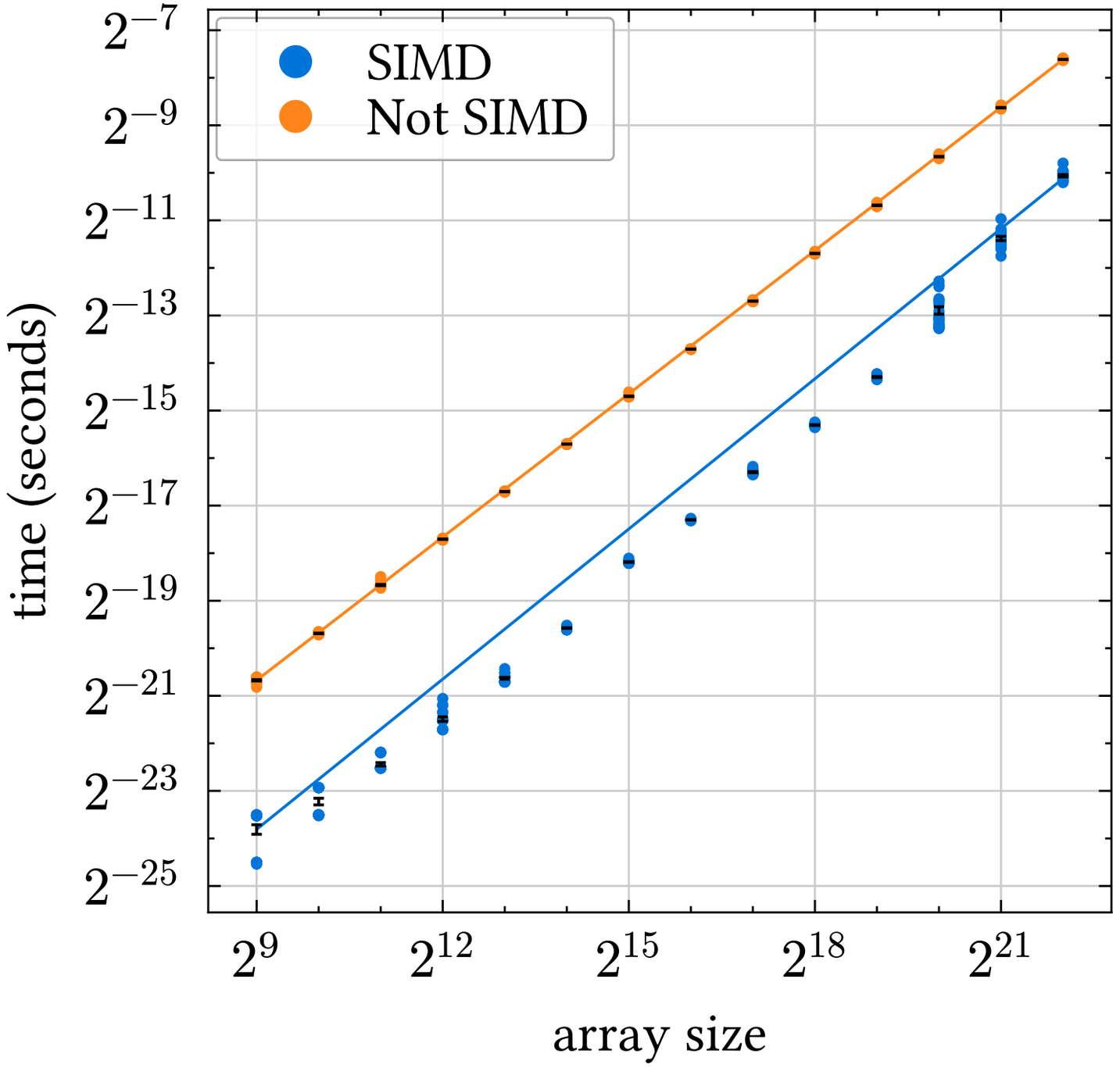
Dot Product

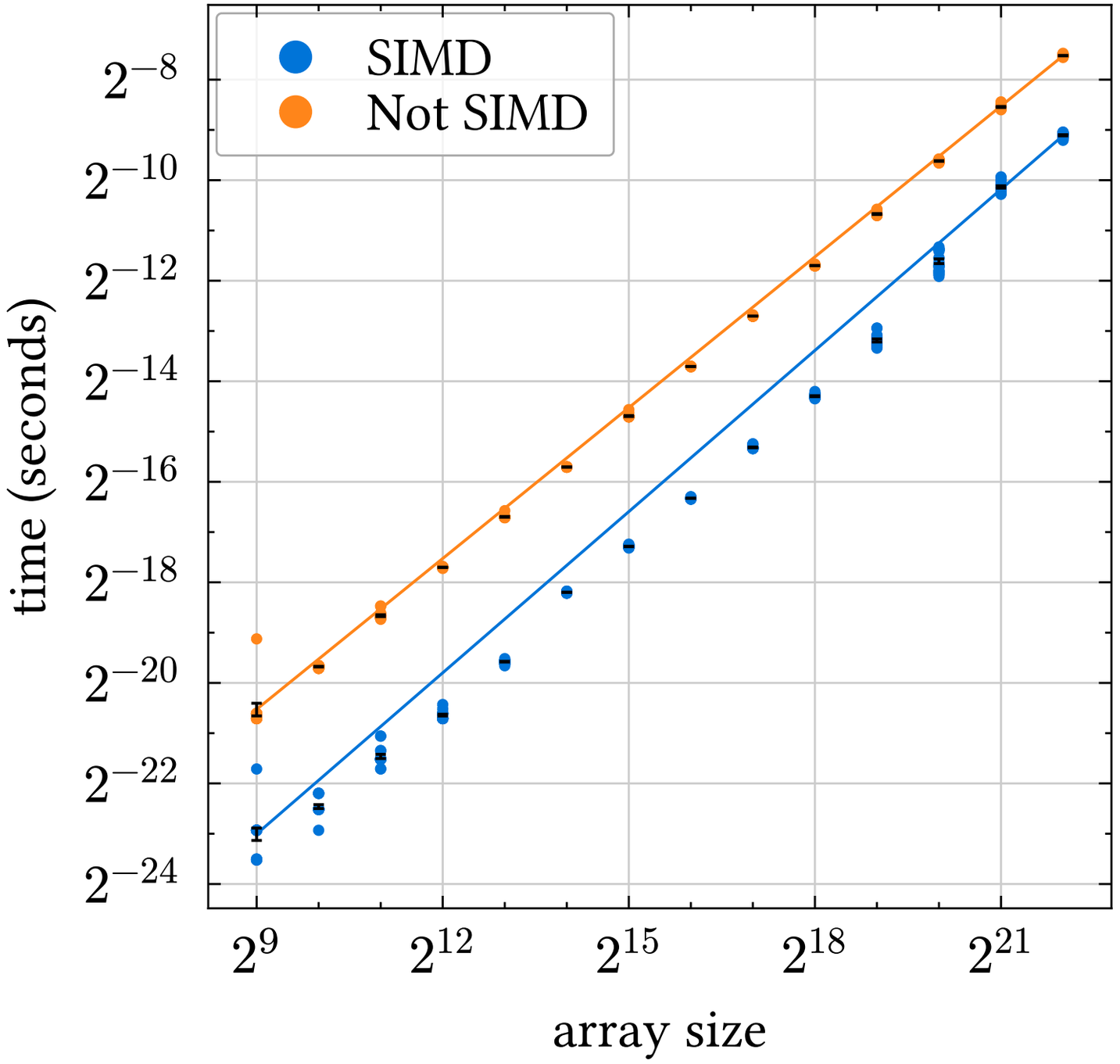


With SIMD: (arraySize) * (2.1413e-10)

Without SIMD: (arraySize) * (1.2147e-9)

Speedup: 5.672705165479542

Dot Product, Double

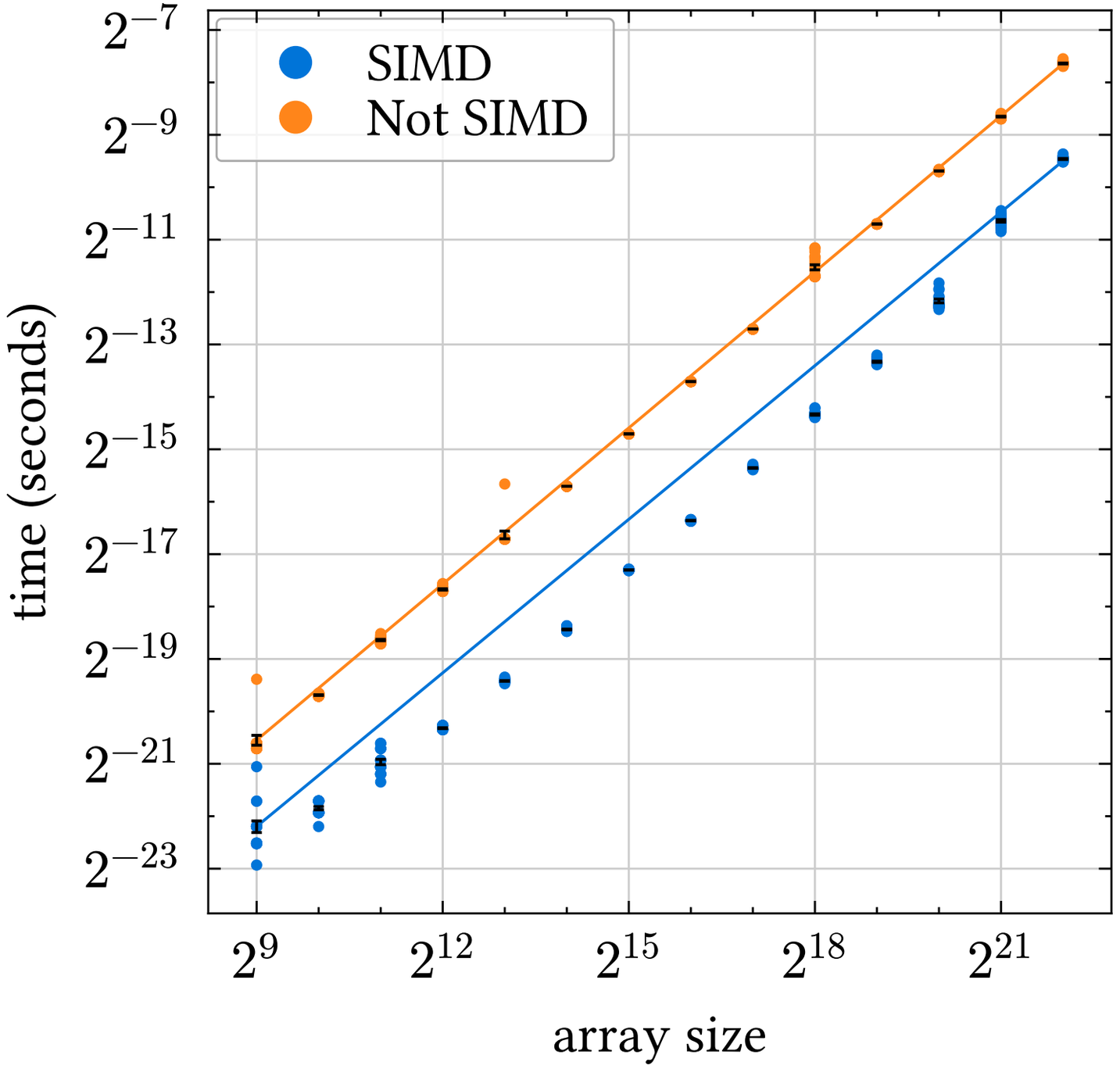


With SIMD: (arraySize) ∗ (4.3103e-10)

Without SIMD: (arraySize) ∗ (1.2945e-9)

Speedup: 3.0033491071772263

Dot Product, Stride=2

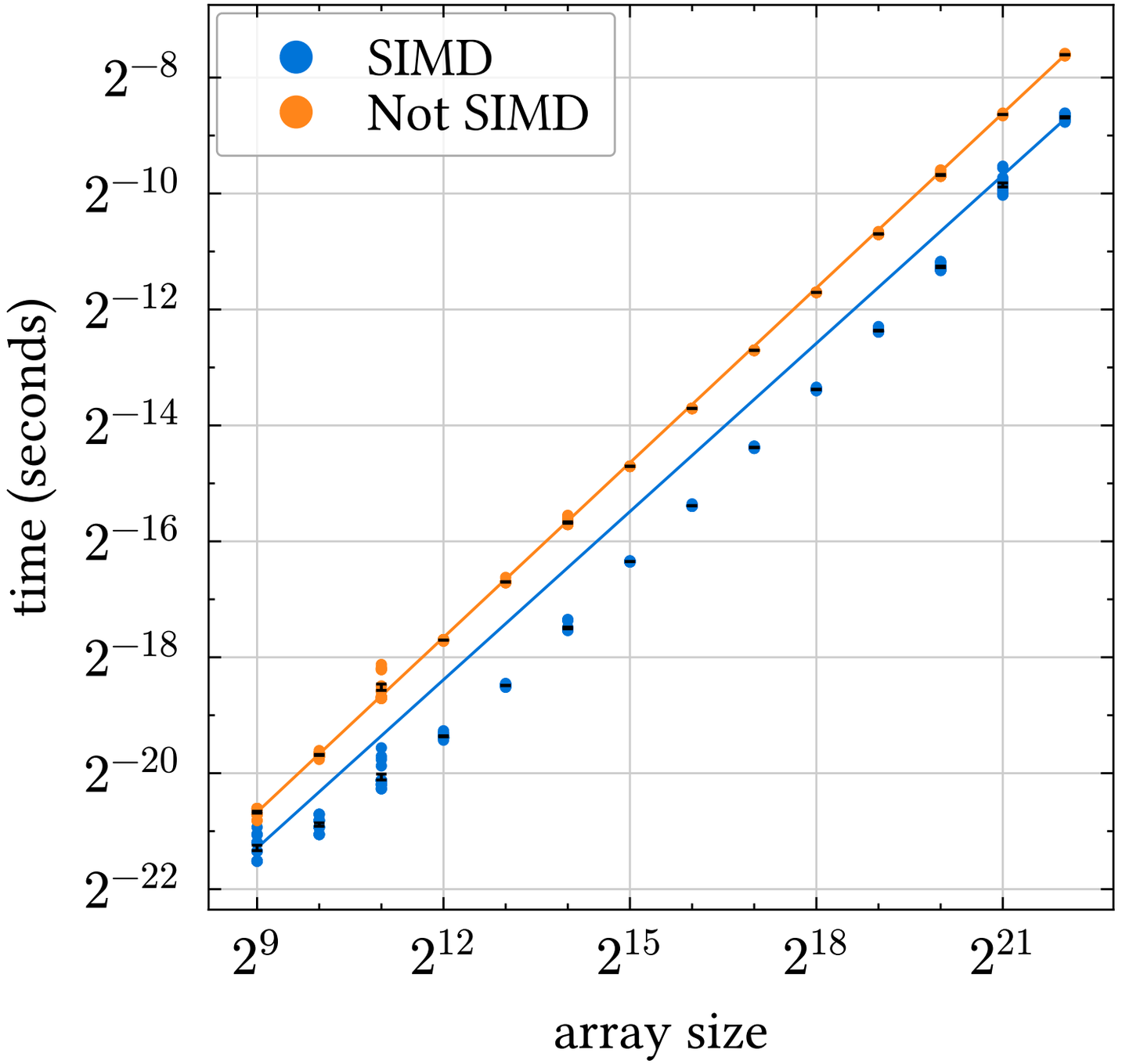


With SIMD: (arraySize) * (3.2994e-10)

Without SIMD: (arraySize) * (1.1927e-9)

Speedup: 3.6148305430823258

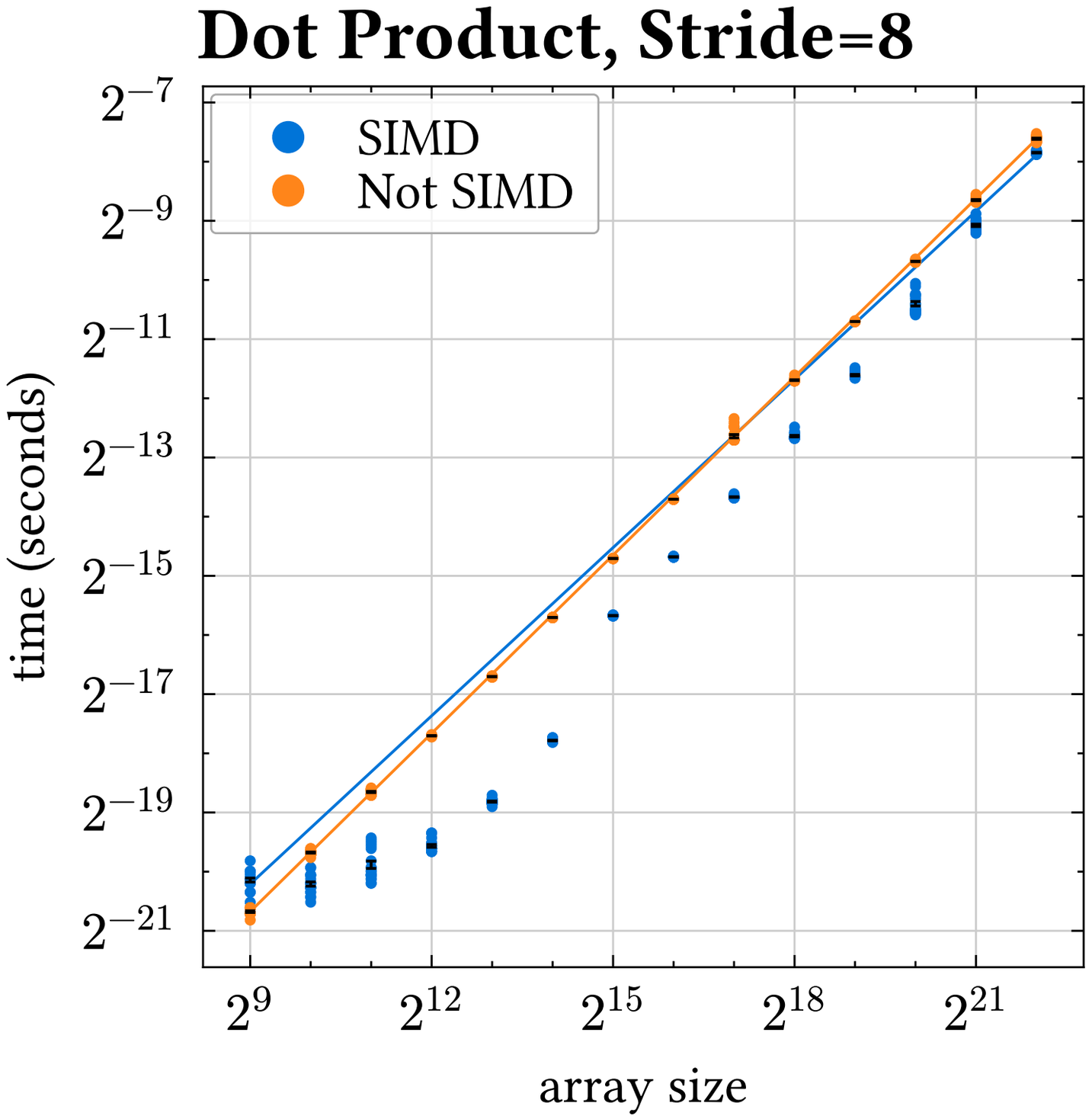
Dot Product, Stride=4



With SIMD: (arraySize) ∗ (5.6682e-10)

Without SIMD: (arraySize) ∗ (1.2194e-9)

Speedup: 2.1513538931398184

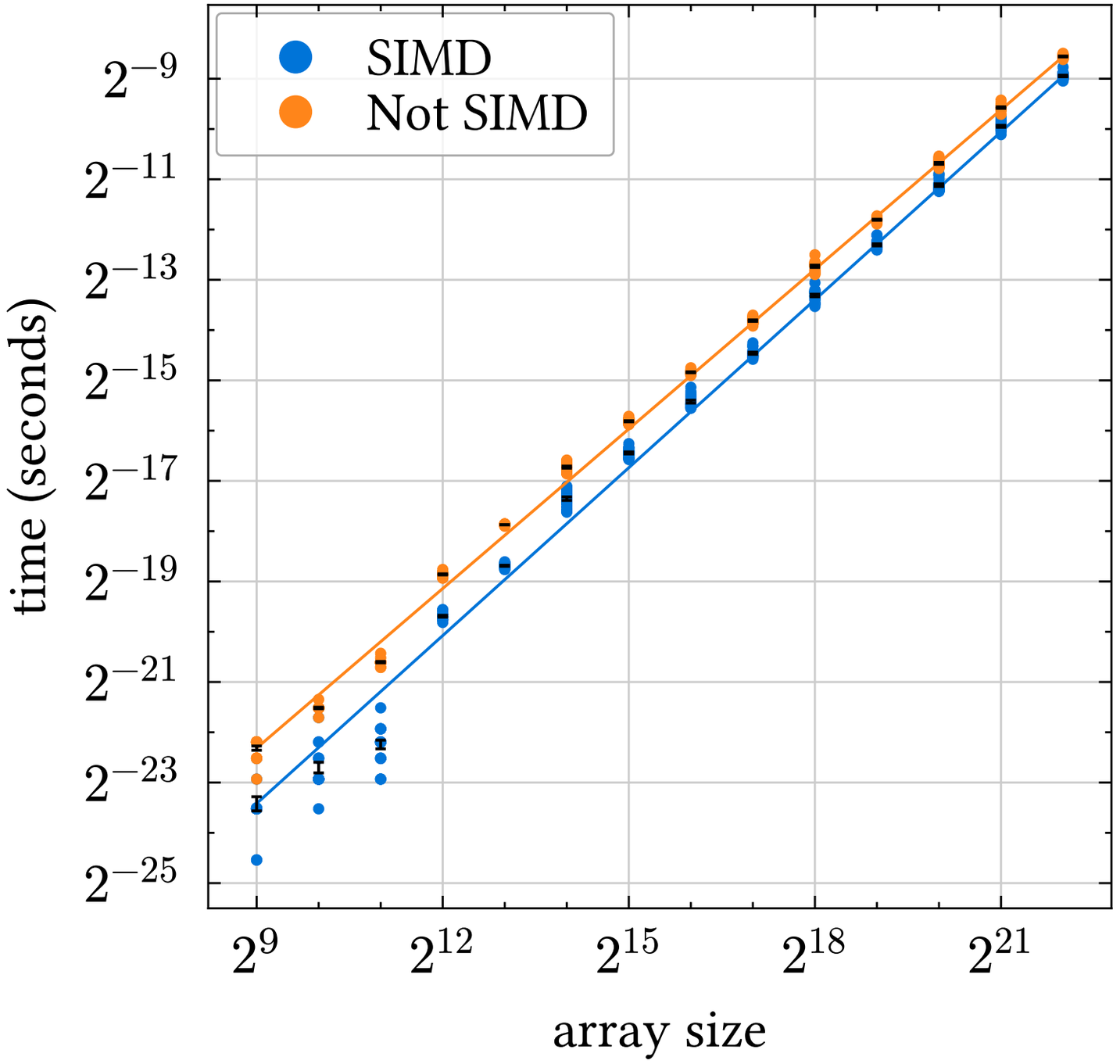


With SIMD: (arraySize) ∗ (1.0057e-9)

Without SIMD: (arraySize) ∗ (1.2127e-9)

Speedup: 1.205906603476466

Elementwise Multiply

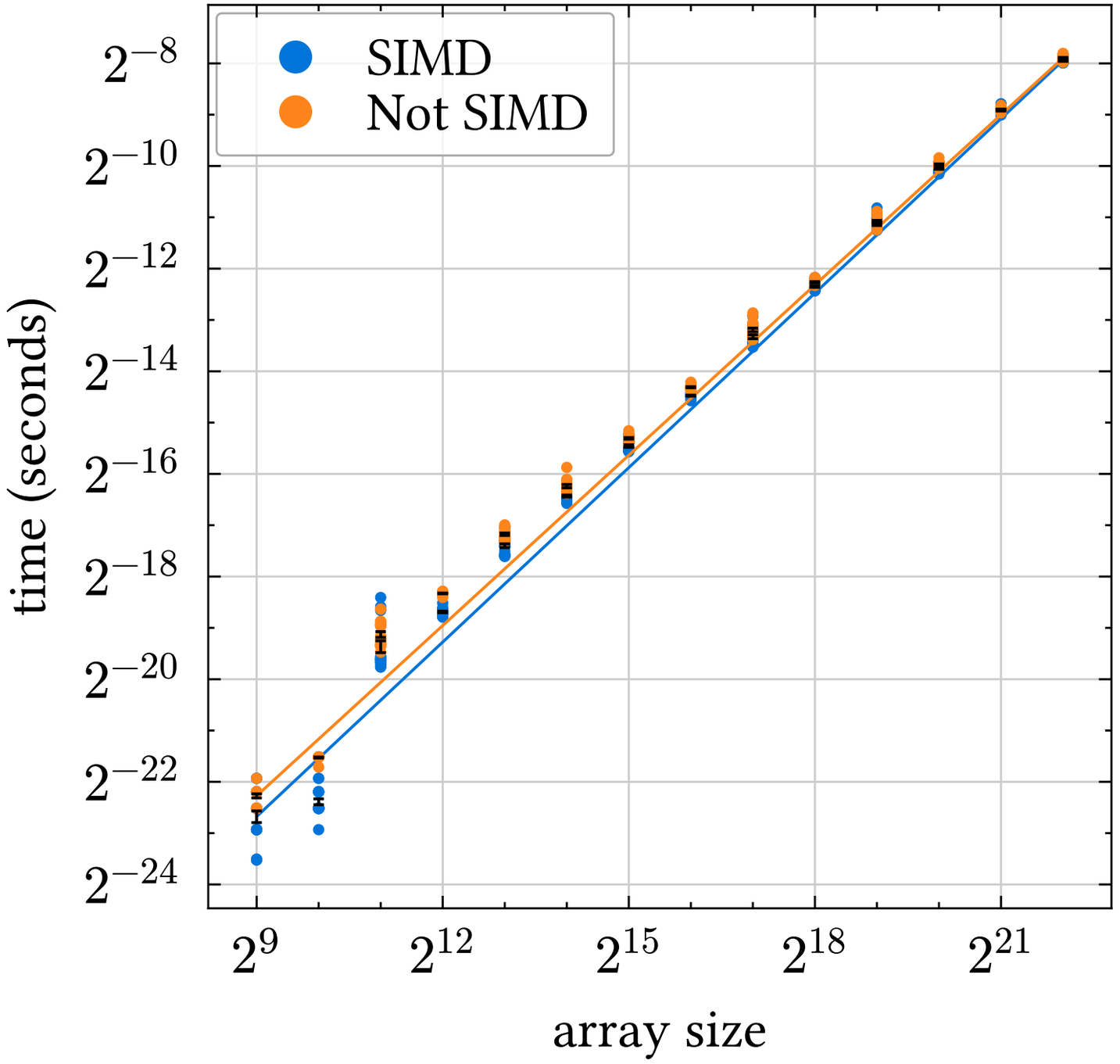


With SIMD: (arraySize) ∗ (4.8395e-10)

Without SIMD: (arraySize) ∗ (6.3147e-10)

Speedup: 1.3048239004183397

Elementwise Multiply, Double

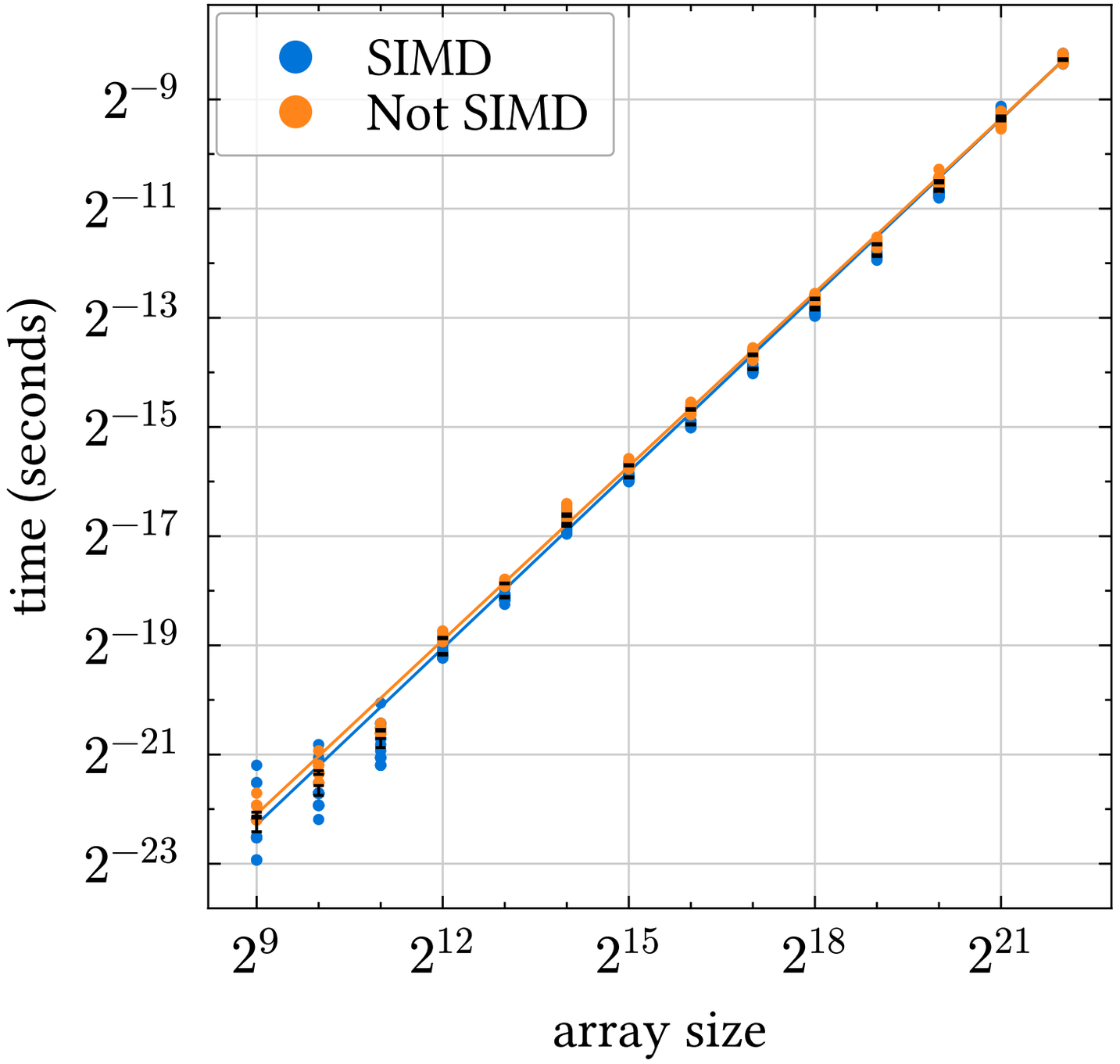


With SIMD: (arraySize) ∗ (9.6858e-10)

Without SIMD: (arraySize) ∗ (1.0027e-9)

Speedup: 1.035187846739241

Elementwise Multiply, Stride=2

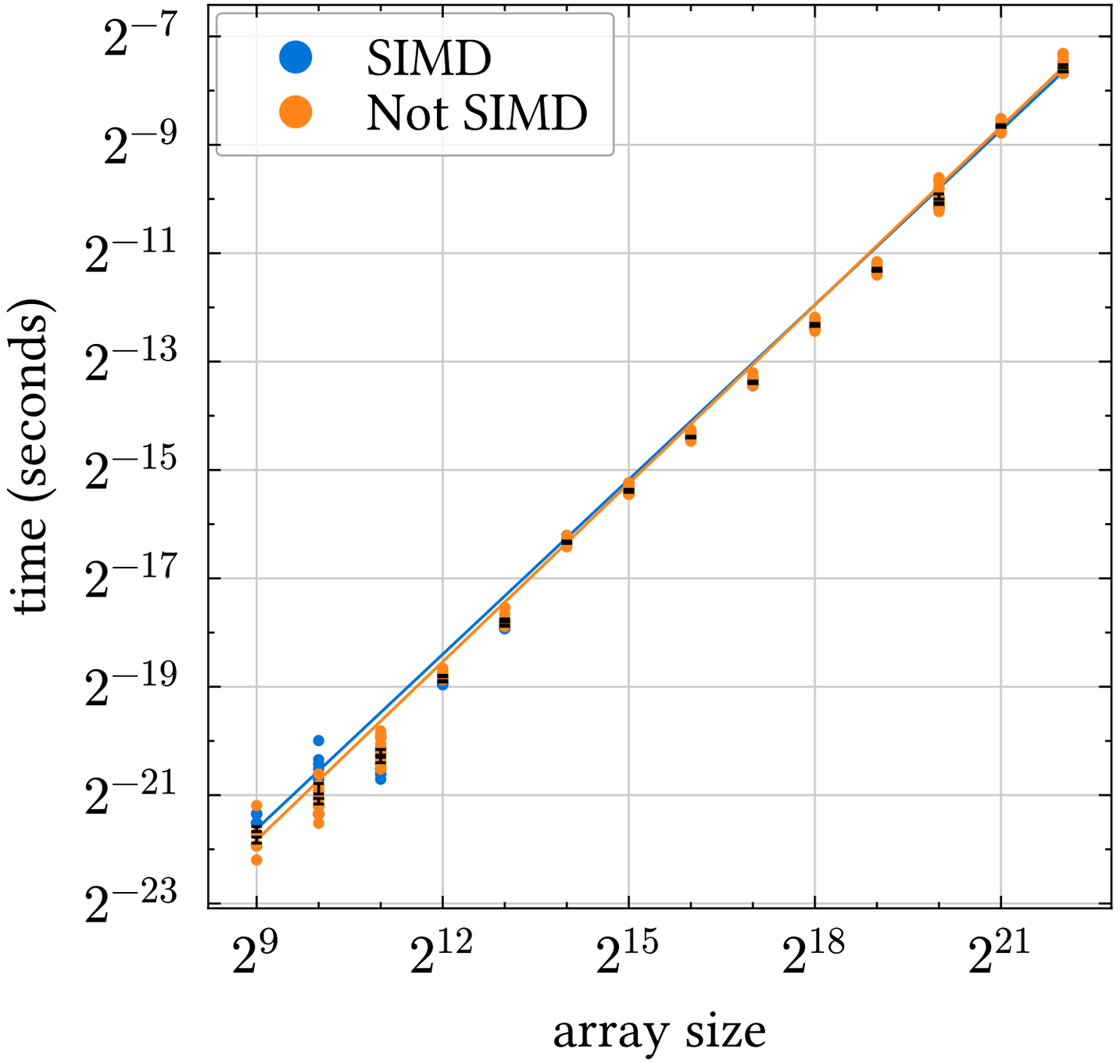


With SIMD: (arraySize) ∗ (7.6530e-10)

Without SIMD: (arraySize) ∗ (7.6314e-10)

Speedup: 0.9971701062713831

Elementwise Multiply, Stride=4

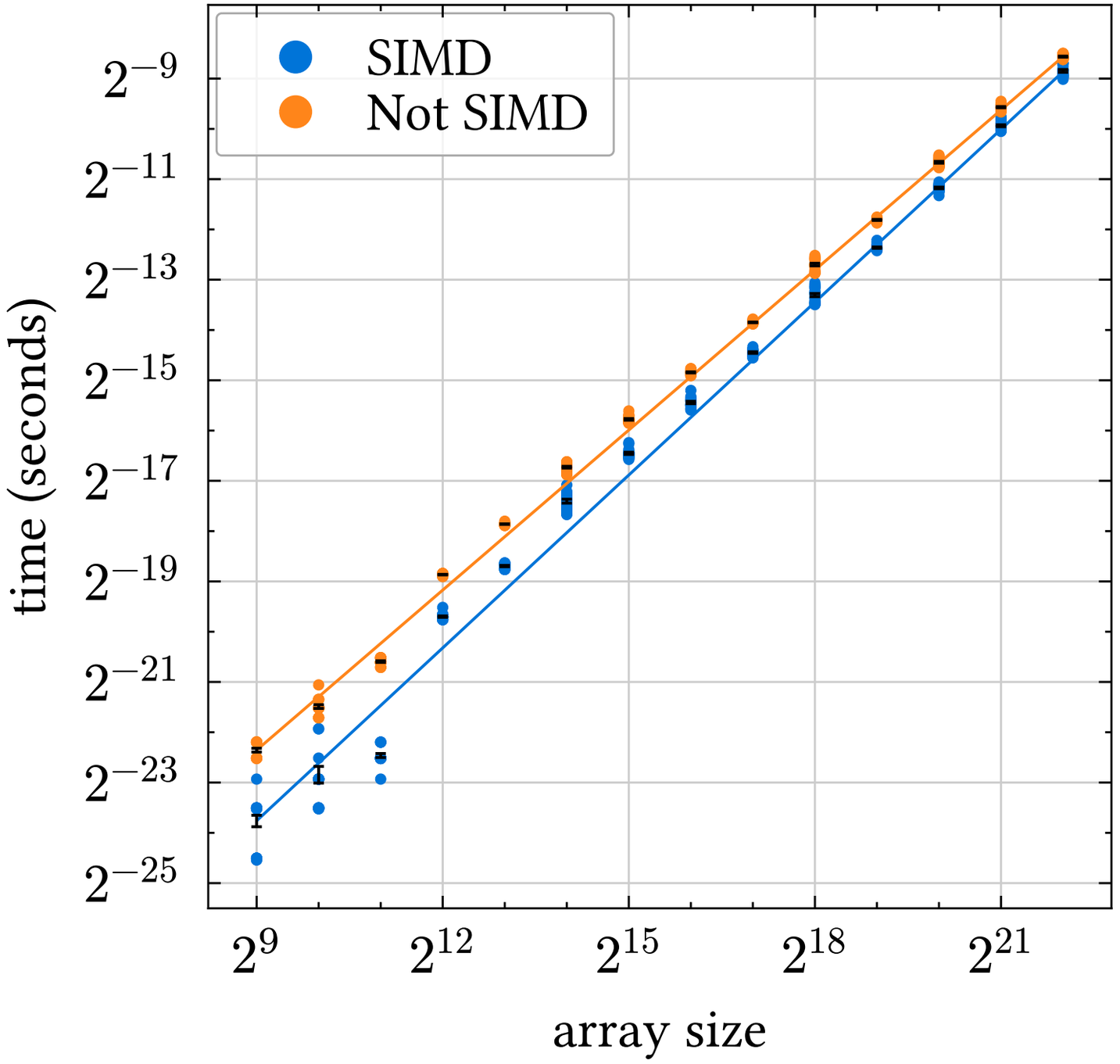


With SIMD: (arraySize) ∗ (1.1843e-9)

Without SIMD: (arraySize) ∗ (1.2555e-9)

Speedup: 1.0601473974884057

Saxpy

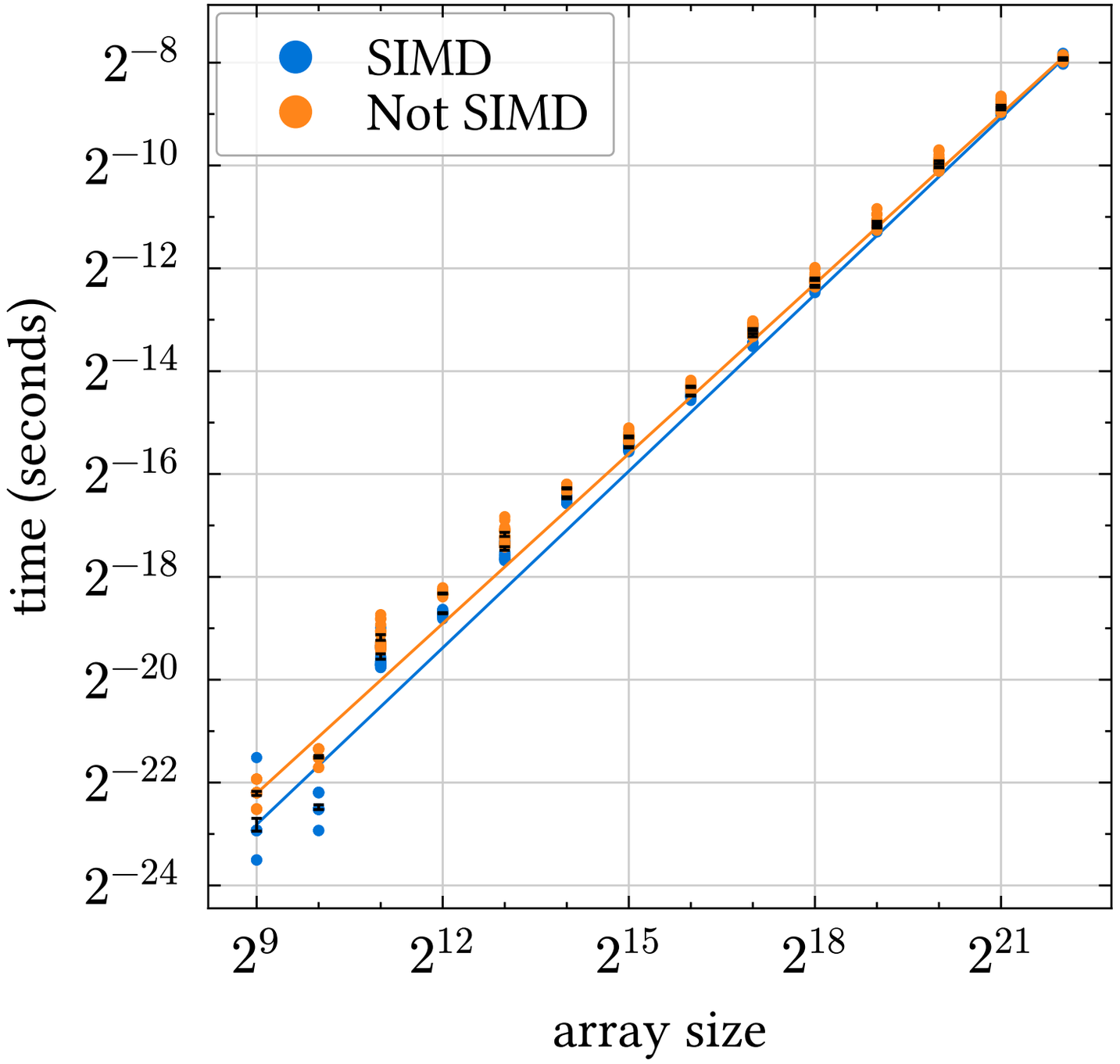


With SIMD: (arraySize) * (5.1225e-10)

Without SIMD: (arraySize) * (6.3017e-10)

Speedup: 1.230194623946O7

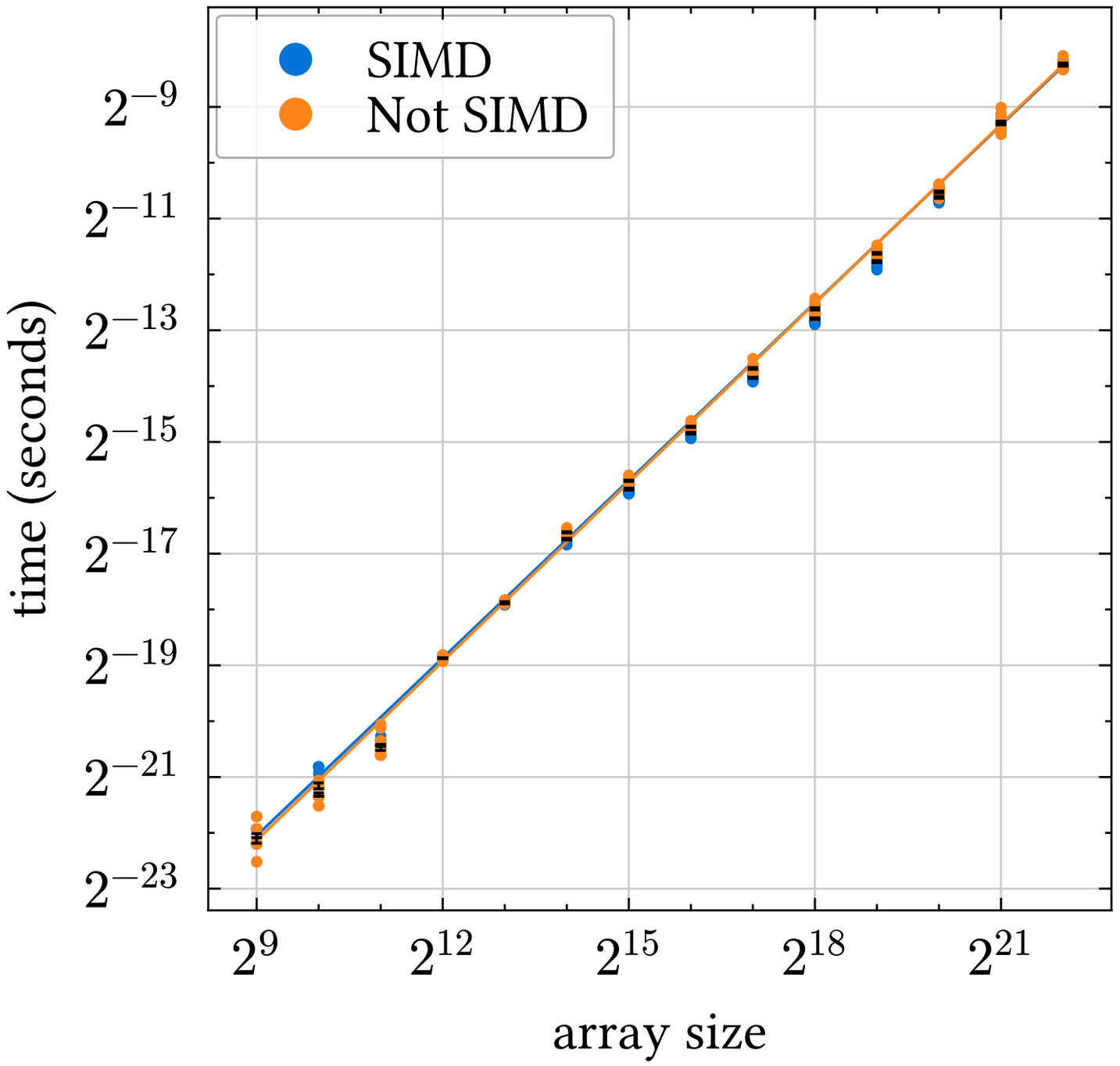
Saxpy, Double



With SIMD: (arraySize) ∗ (9.7831e-10)

Without SIMD: (arraySize) ∗ (9.9922e-10)

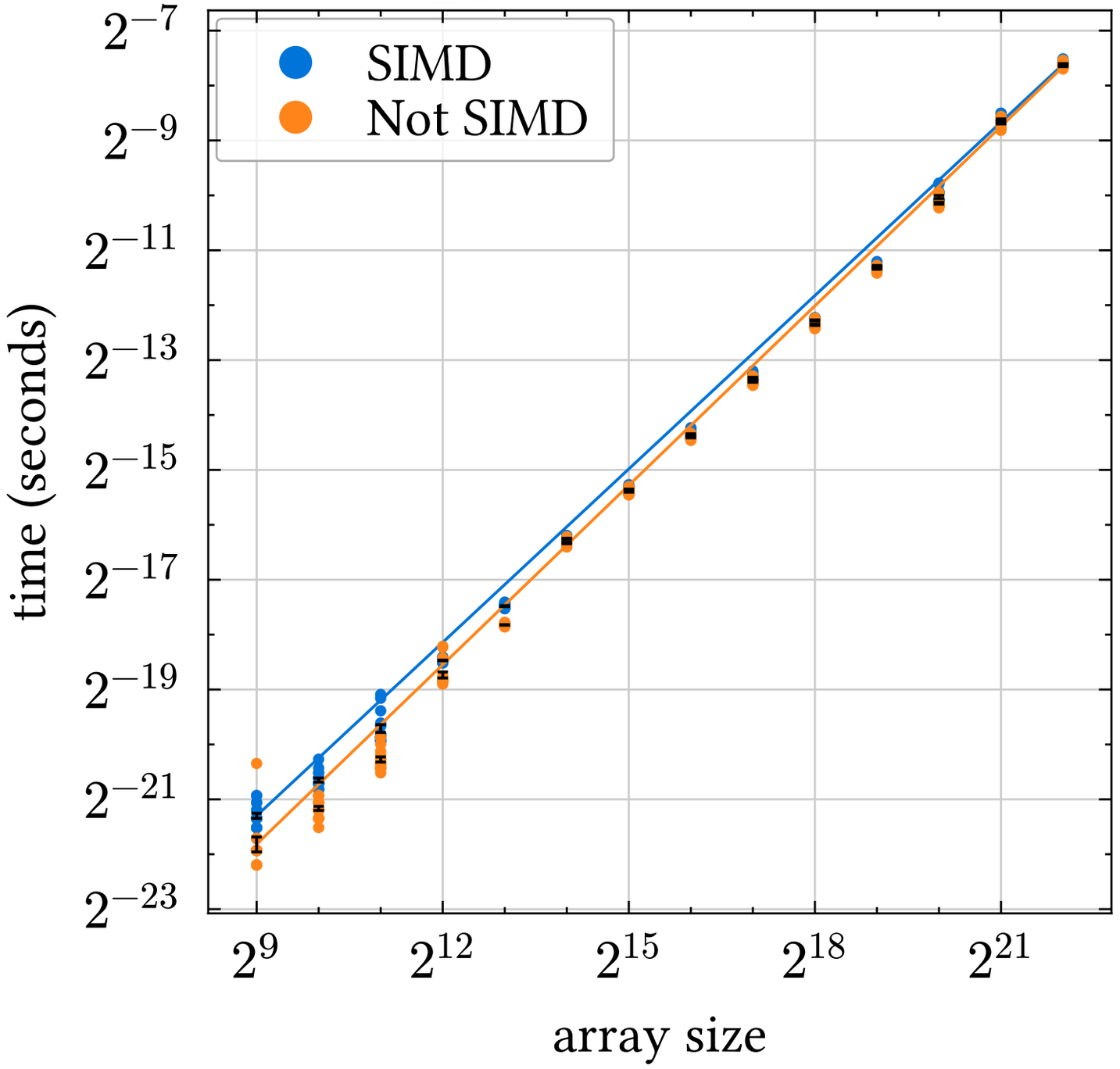
Speedup: 1.021373097307091



With SIMD: (arraySize) * (7.7396e-10)

Without SIMD: (arraySize) * (7.8620e-10)

Speedup: 1.0158182126348771

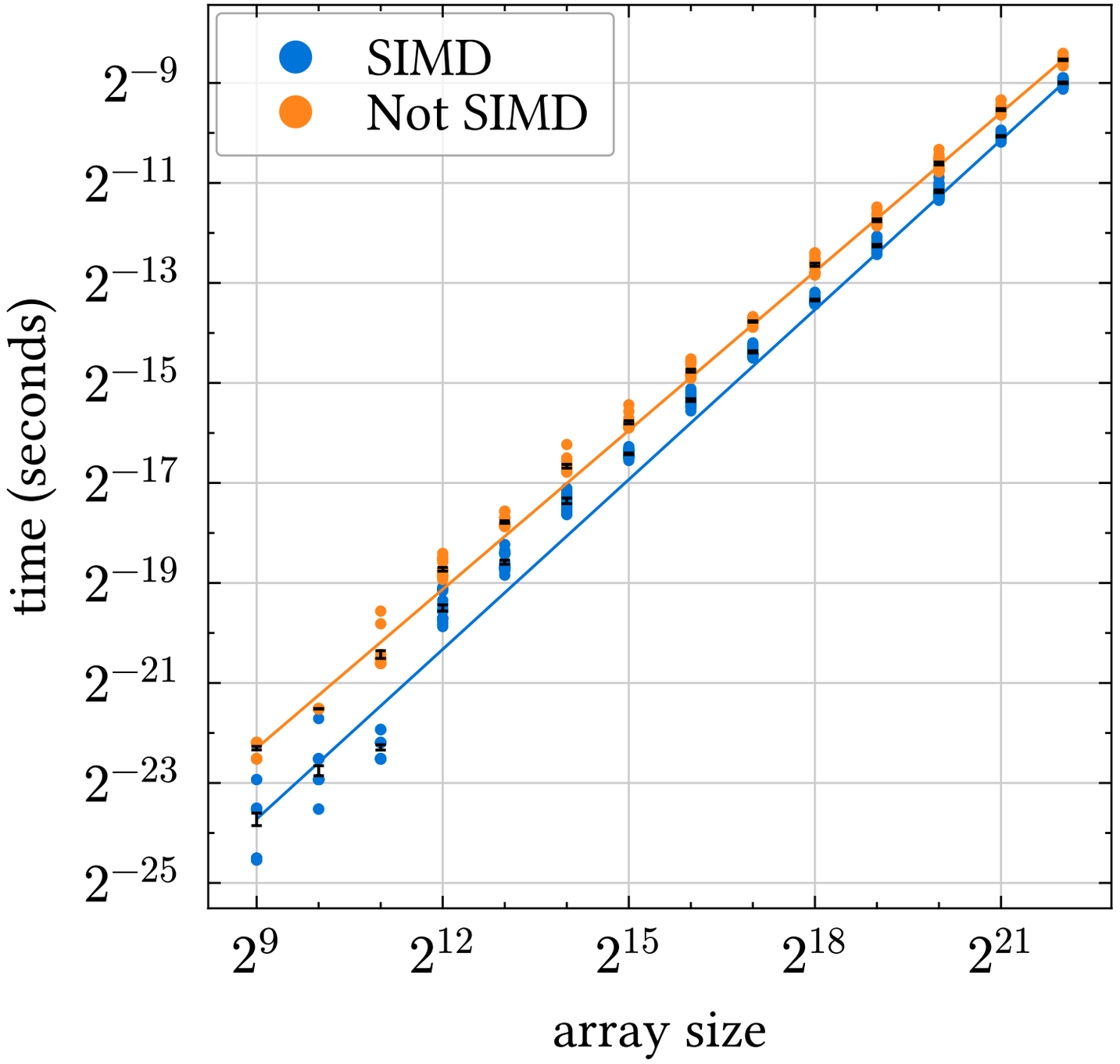


With SIMD: (arraySize) ∗ (1.2169e-9)

Without SIMD: (arraySize) ∗ (1.1820e-9)

Speedup: 0.9713316541949311

Stencil

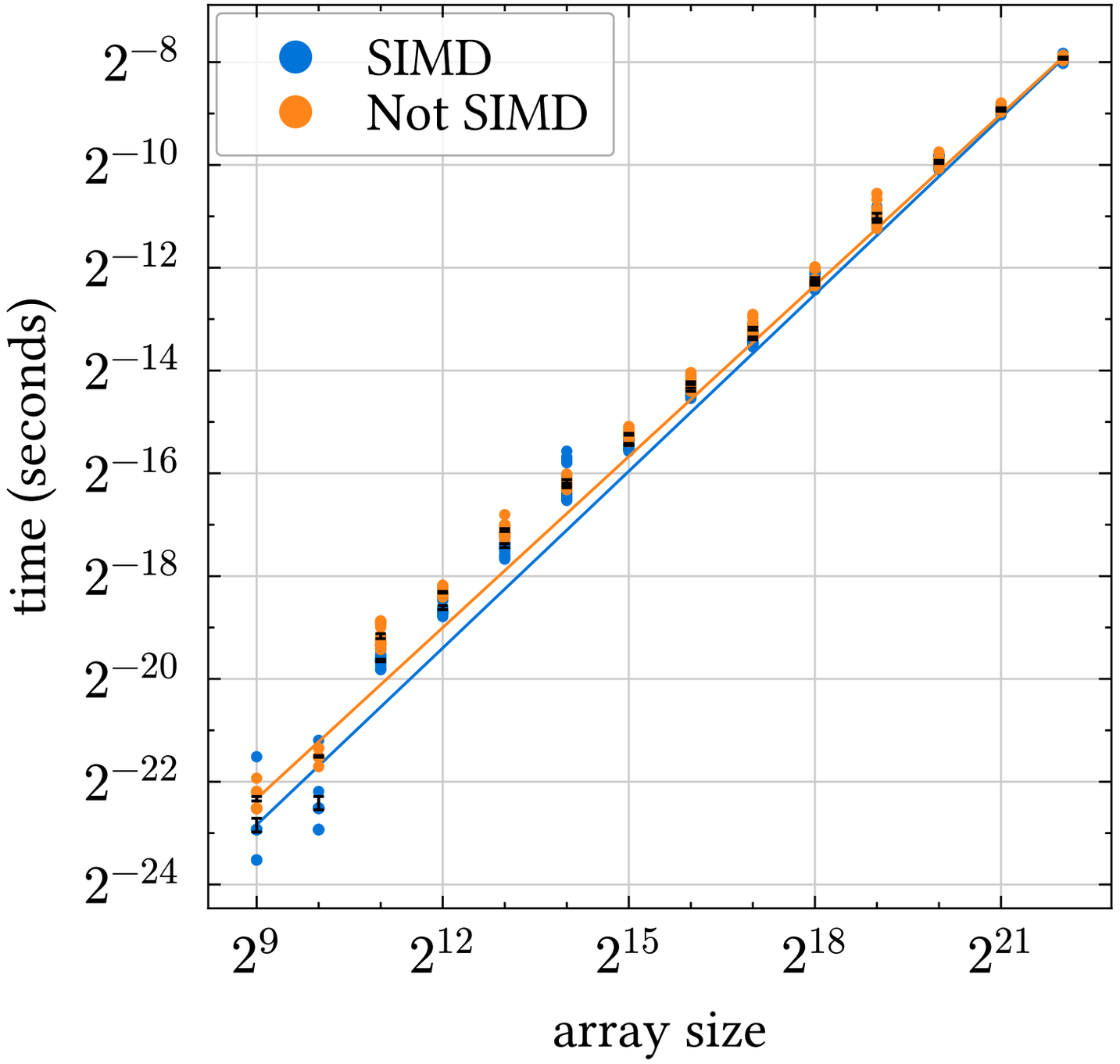


With SIMD: (arraySize) ∗ (4.6271e-10)

Without SIMD: (arraySize) ∗ (6.4211e-10)

Speedup: 1.3877171616139785

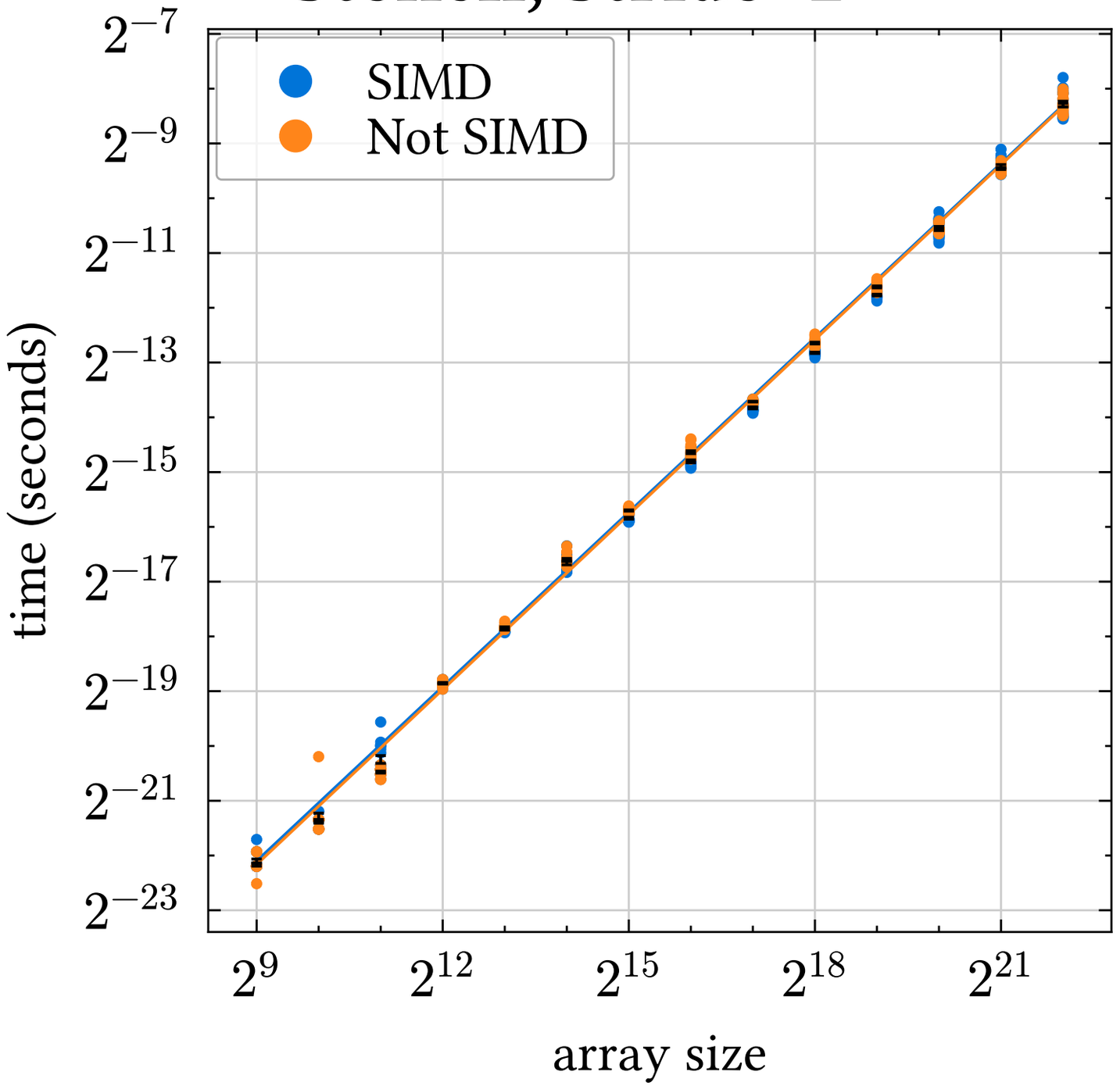
Stencil, Double



With SIMD: (arraySize) ∗ (9.7668e-10)

Without SIMD: (arraySize) ∗ (9.9517e-10)

Speedup: 1.0189317421303616

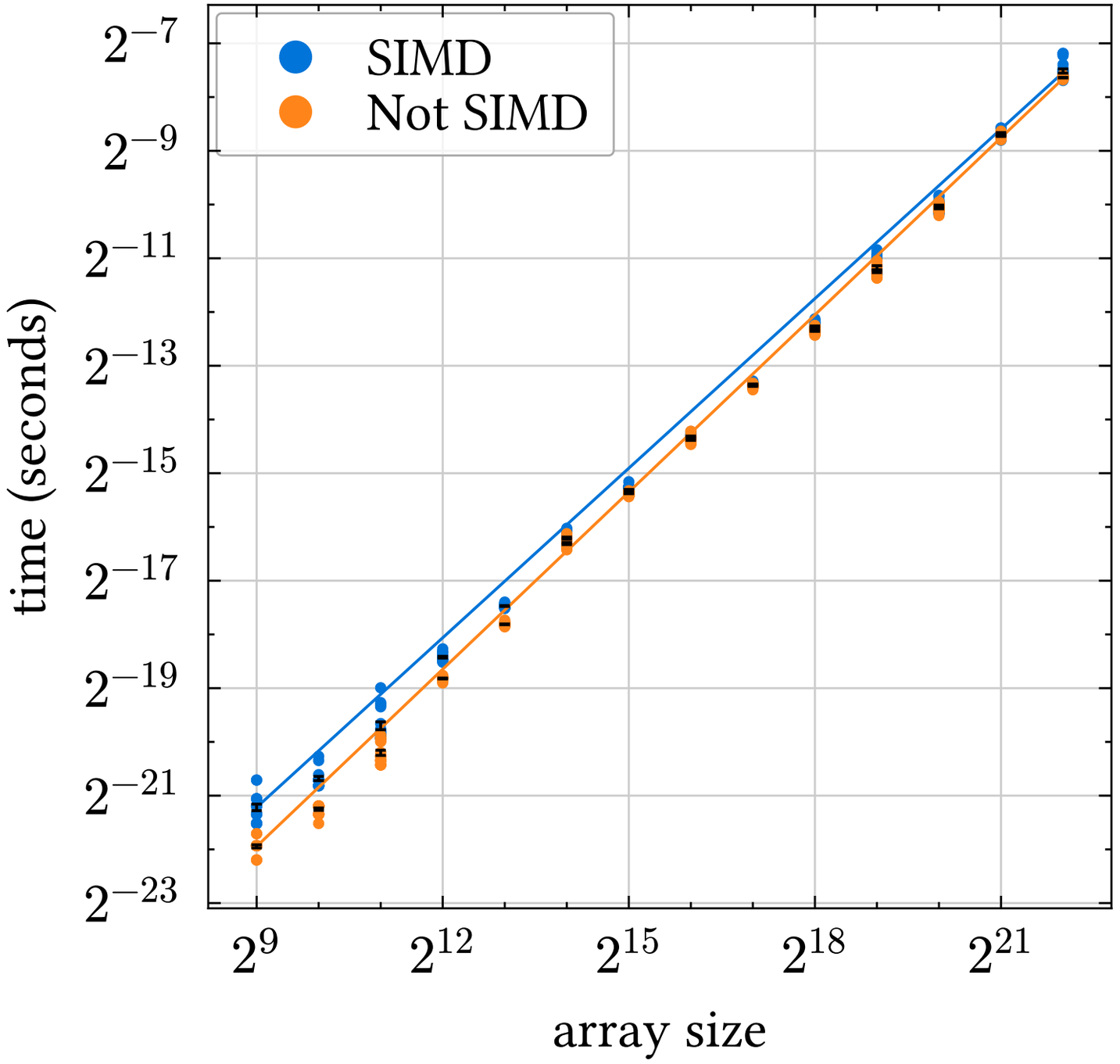


With SIMD: (arraySize) * (7.5522e-10)

Without SIMD: (arraySize) * (7.4321e-10)

Speedup: 0.9840951498325222

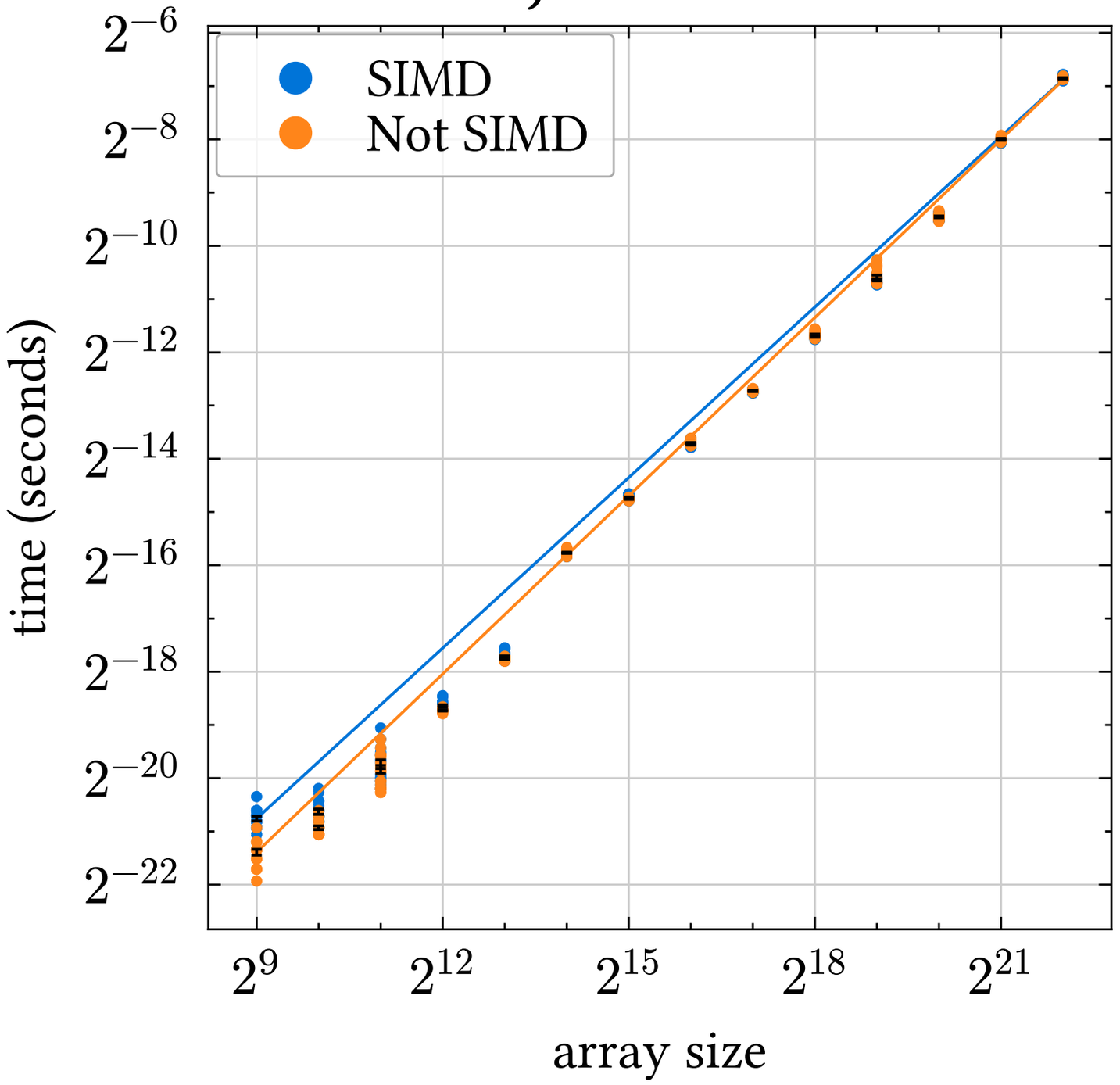
Stencil, Stride=4



With SIMD: (arraySize) ∗ (1.2787e-9)

Without SIMD: (arraySize) ∗ (1.1820e-9)

Speedup: 0.9244064691249748

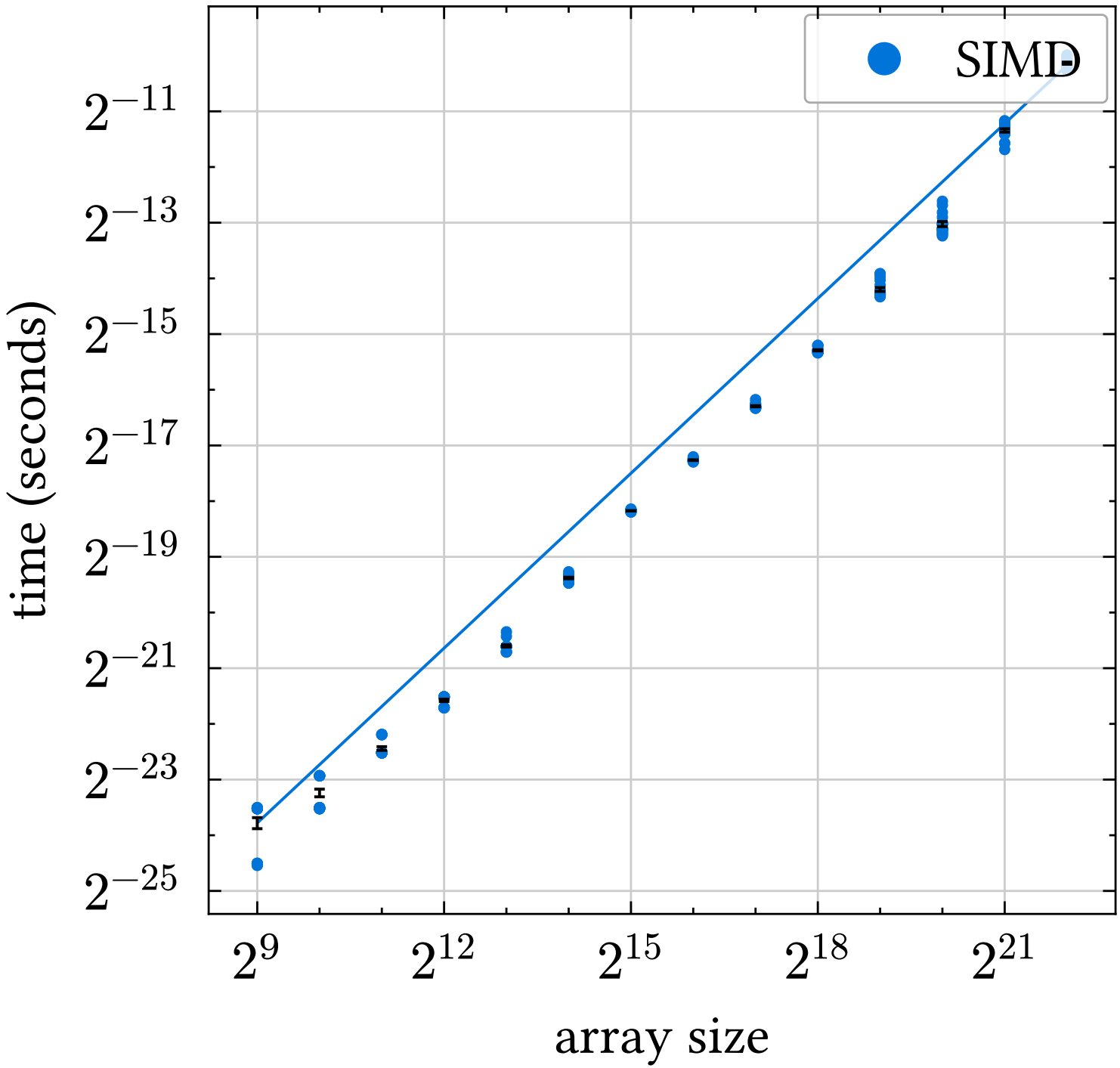


With SIMD: (arraySize) ∗ (2.0266e-9)

Without SIMD: (arraySize) ∗ (2.0167e-9)

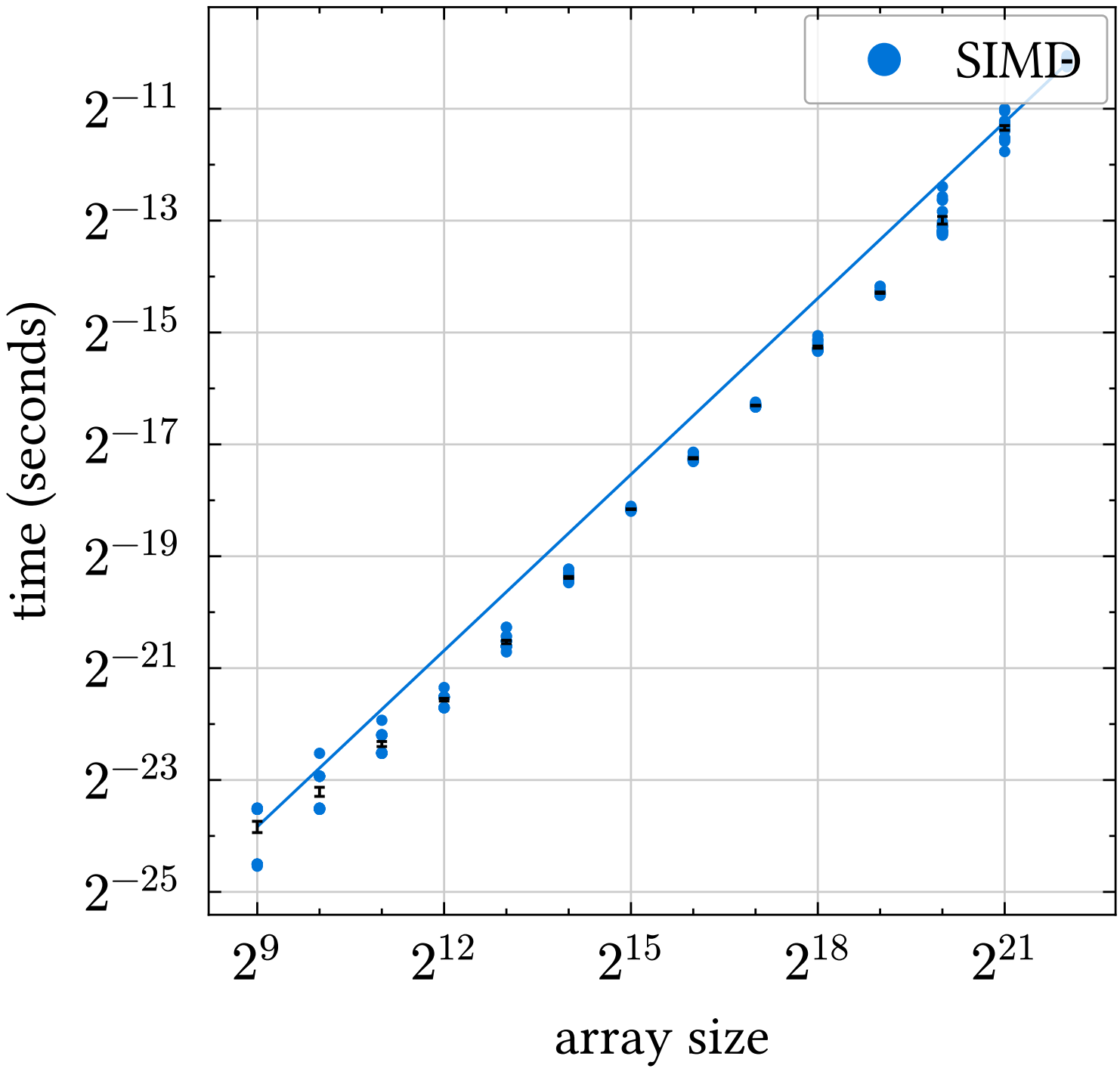
Speedup: 0.9950922408556642

Dot Product, Missalignment



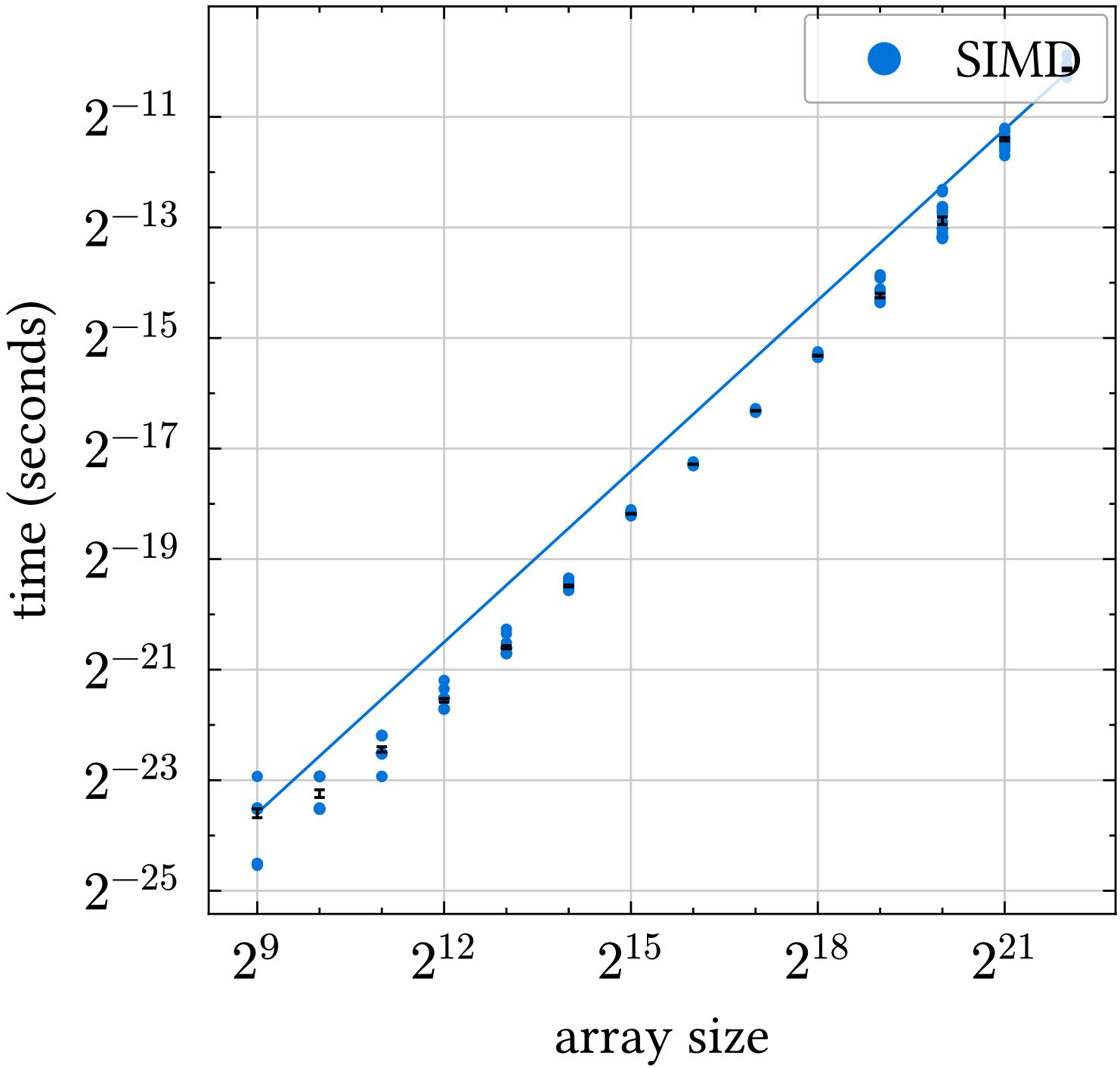
With SIMD: (arraySize) ∗ (2.0648e-10)

Dot Product, Missalignment, Odd Size



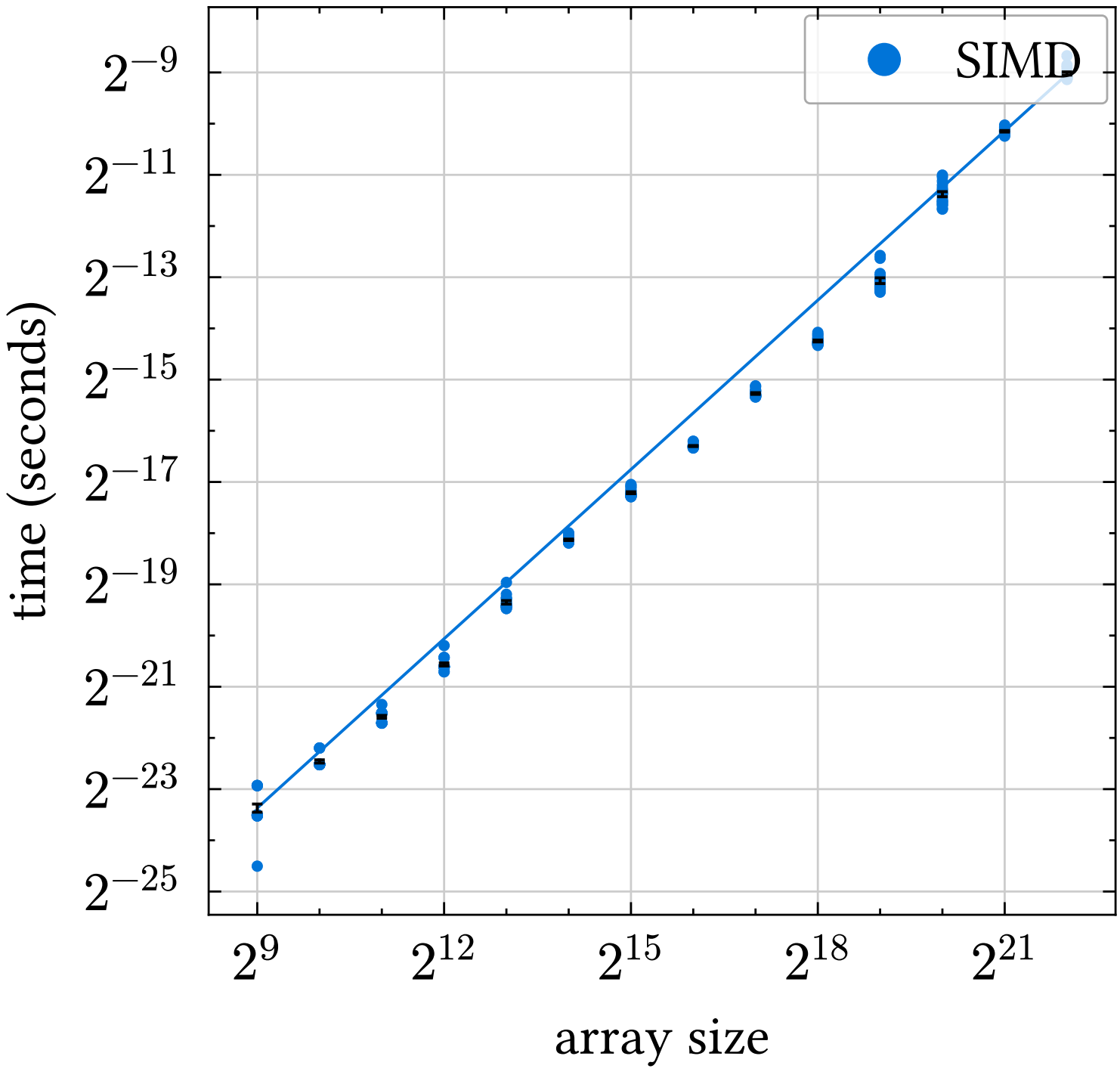
With SIMD: (arraySize) ∗ (2.0414e-10)

Dot Product, Odd Size



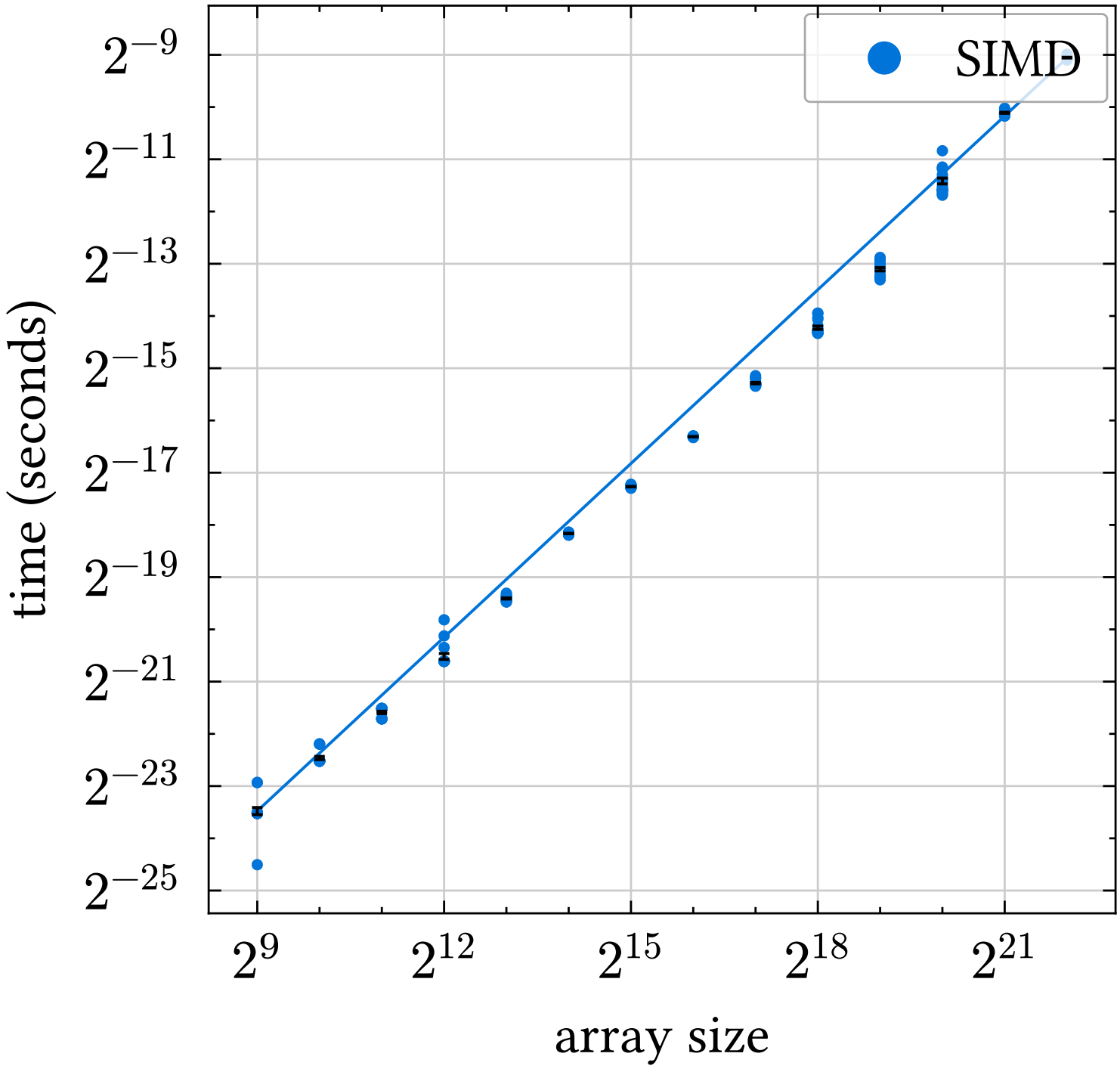
With SIMD: (arraySize) ∗ (2.0356e-10)

Dot Product, Double, Missalignment



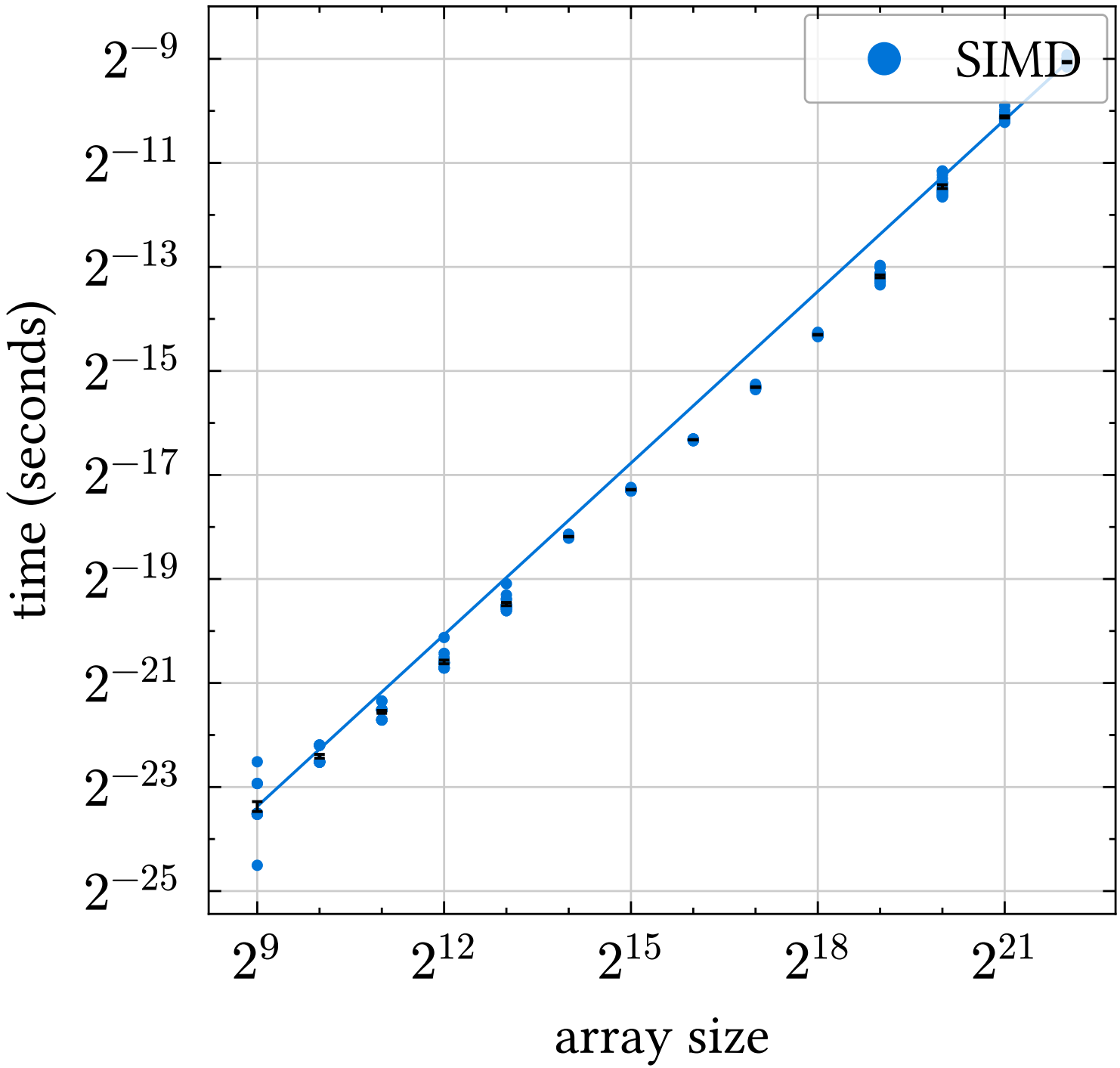
With SIMD: (arraySize) ∗ (4.5308e-10)

Dot Product, Double, Missalignment, Odd Size



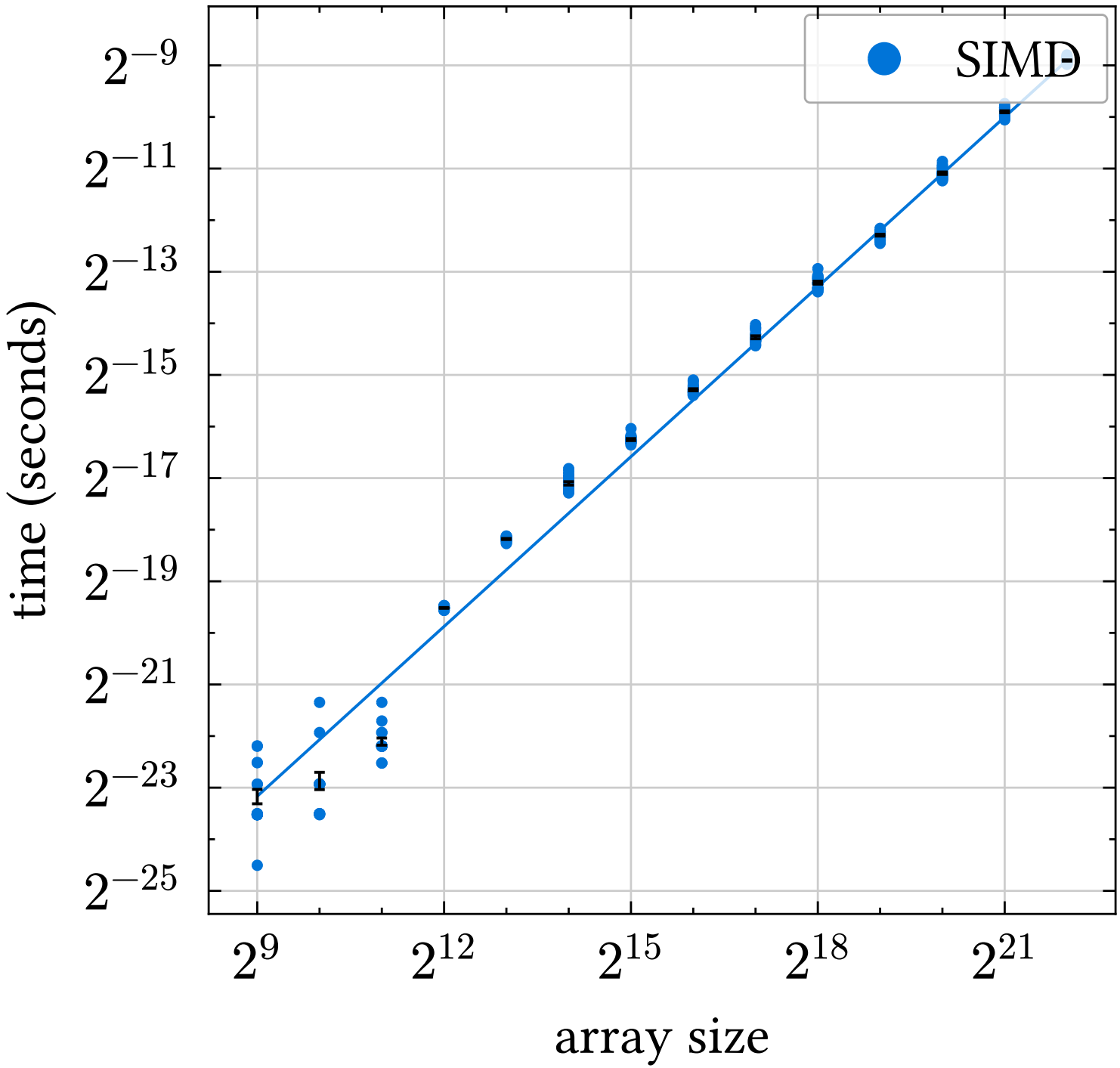
With SIMD: (arraySize) * (4.4624e-10)

Dot Product, Double, Odd Size



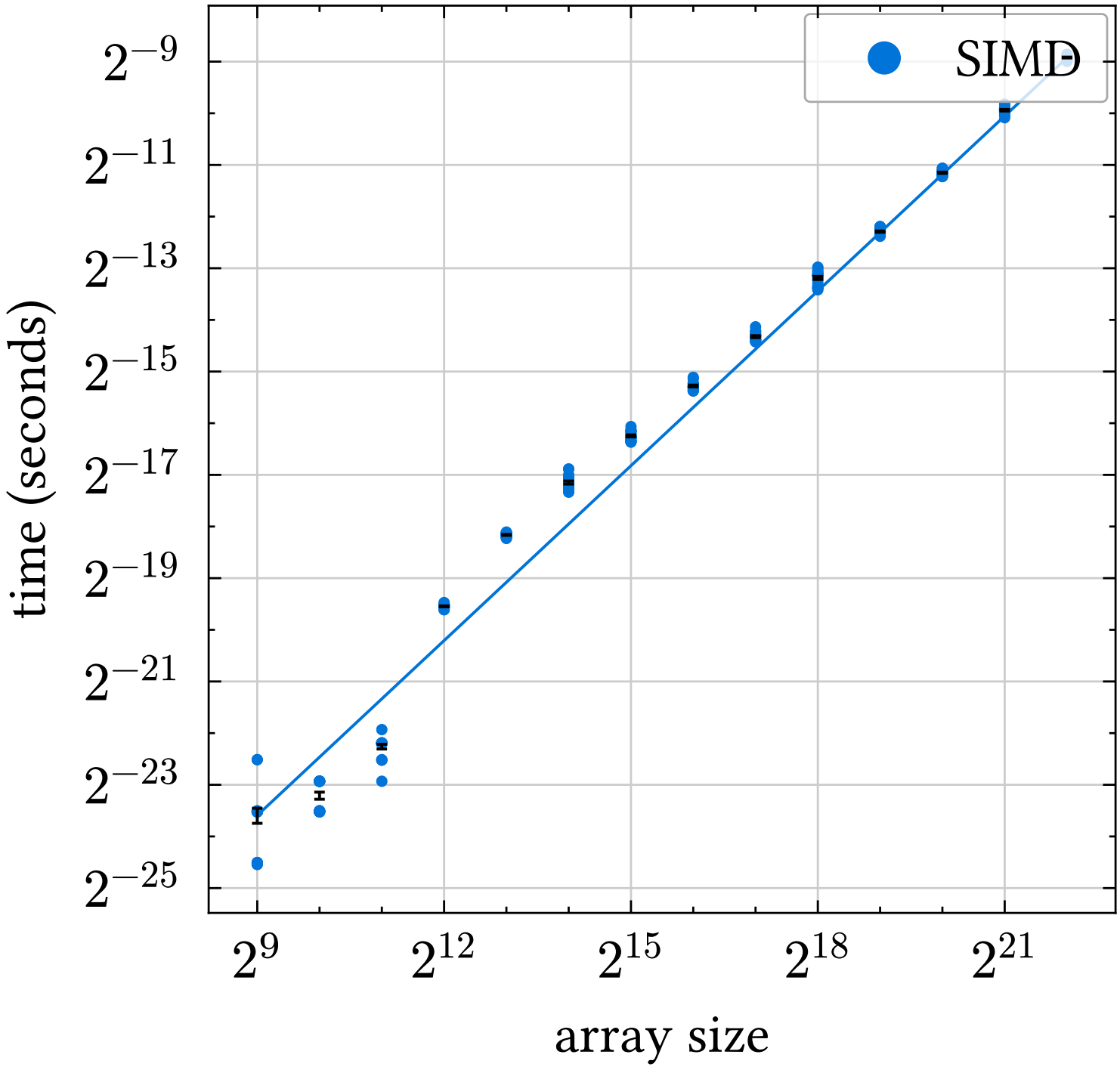
With SIMD: (arraySize) ∗ (4.4342e-10)

Elementwise Multiply, Missalignment



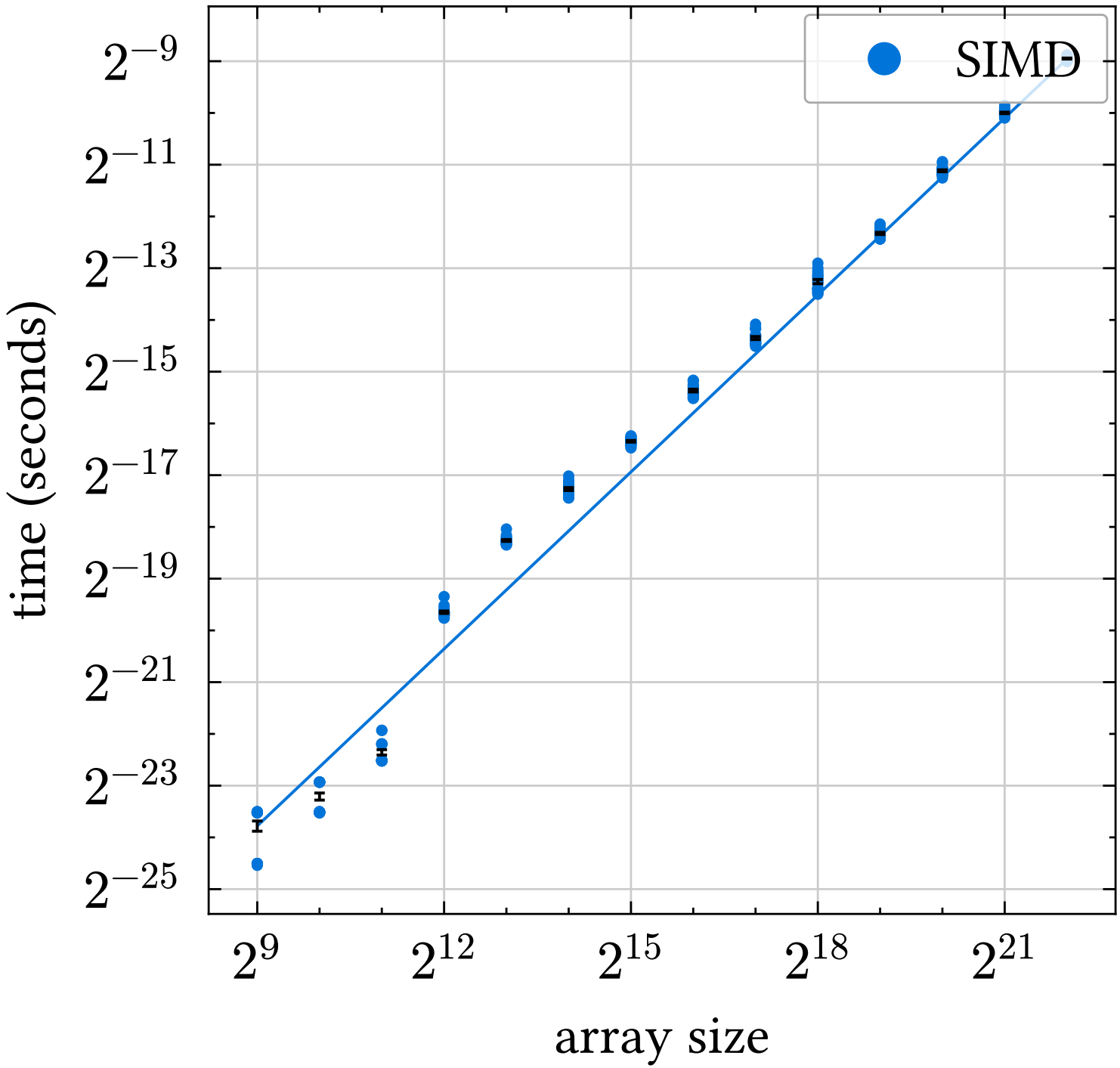
With SIMD: (arraySize) ∗ (4.9770e-10)

Elementwise Multiply, Missalignment, Odd Size



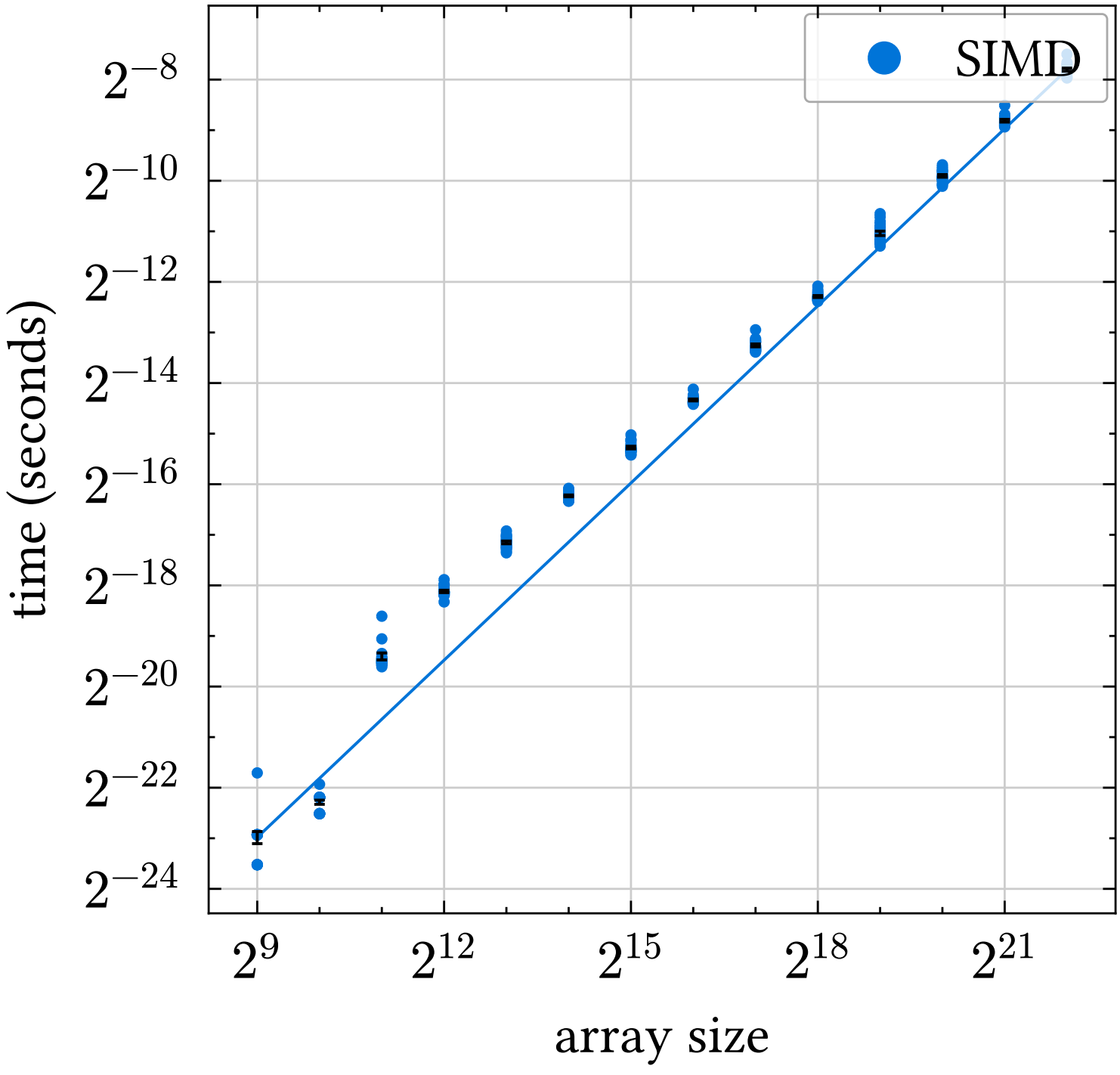
With SIMD: (arraySize) ∗ (4.9049e-10)

Elementwise Multiply, Odd Size



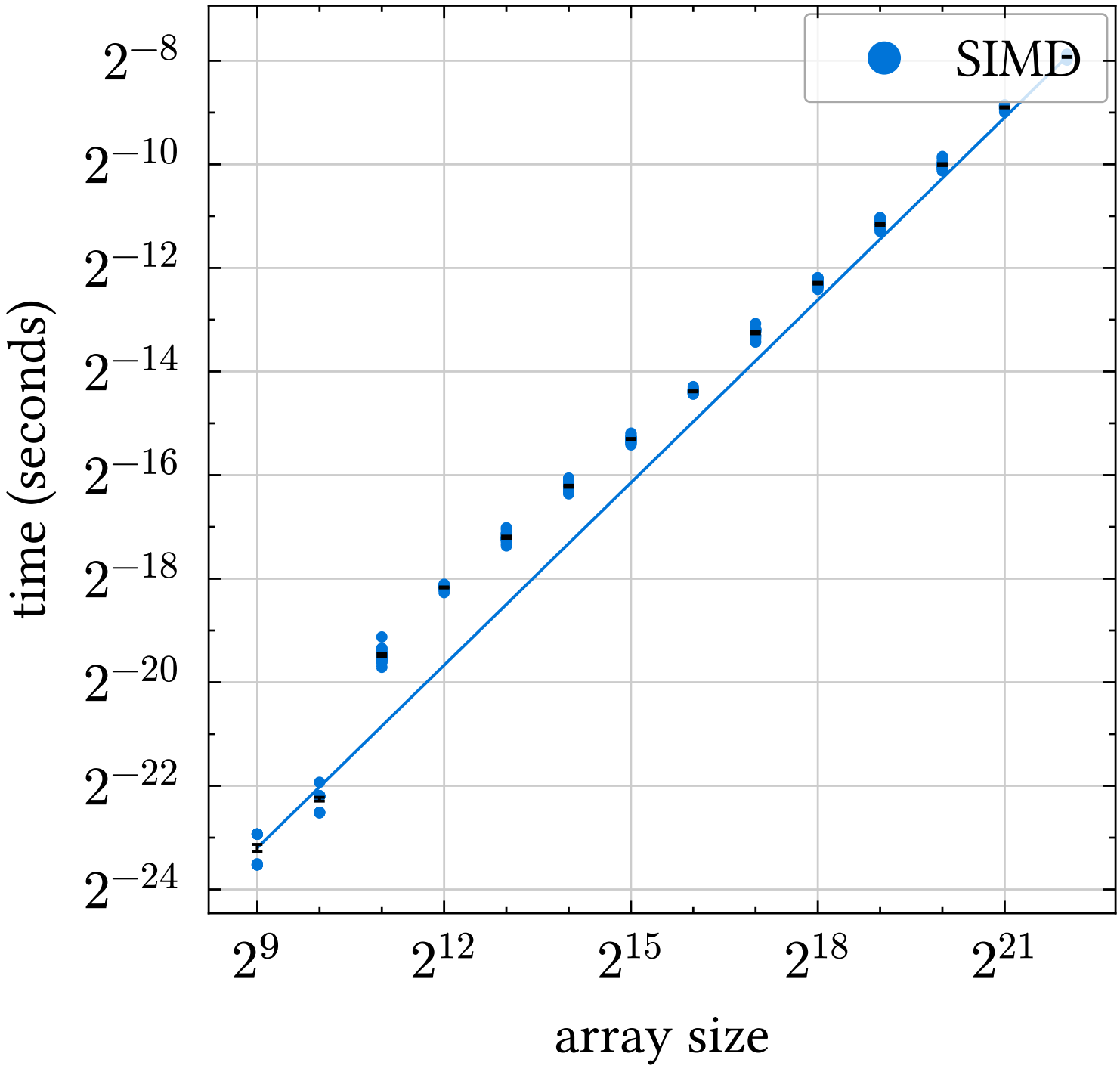
With SIMD: (arraySize) ∗ (4.7989e-10)

Elementwise Multiply, Double, Missalignment



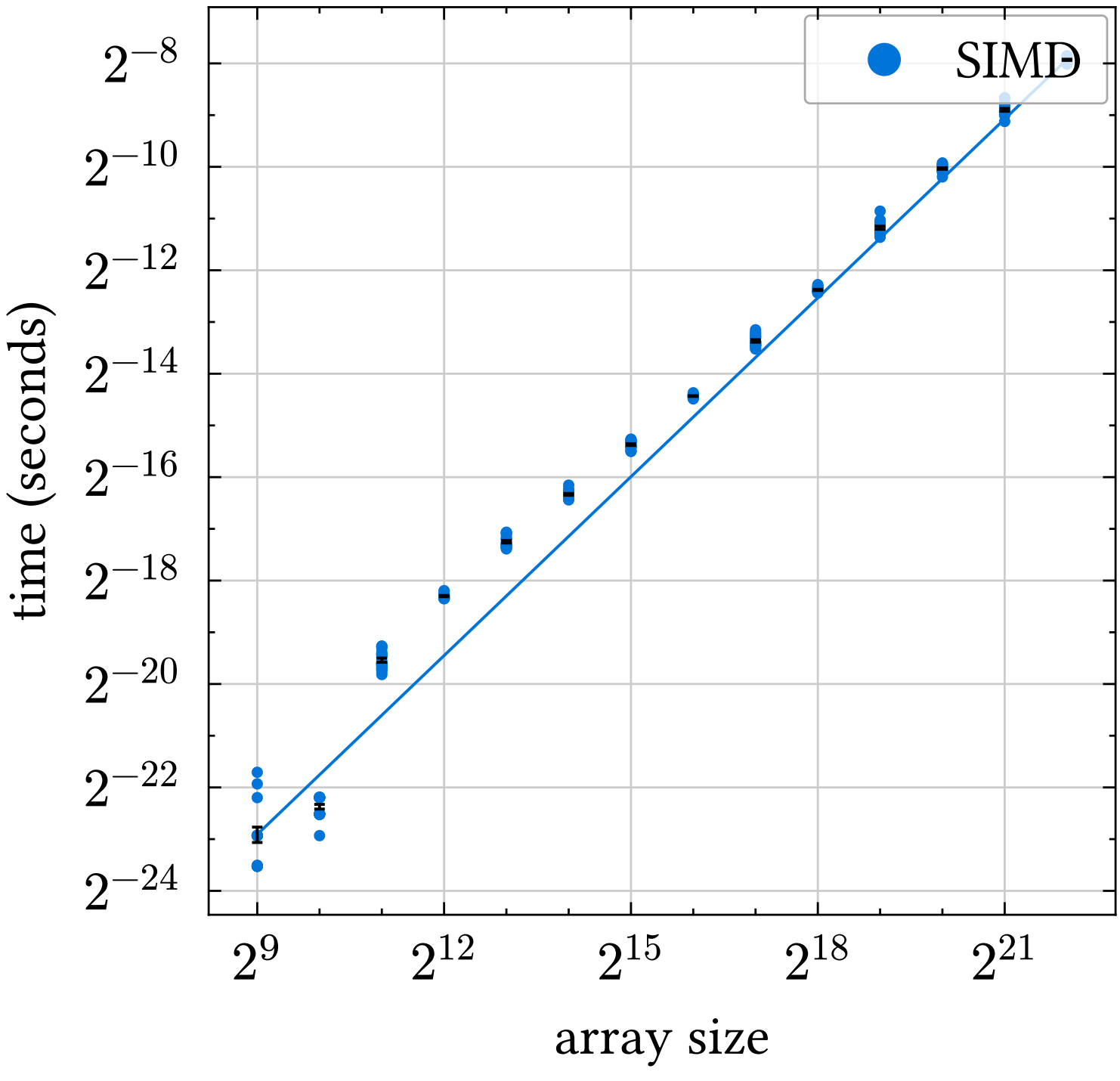
With SIMD: (arraySize) ∗ (1.0676e-9)

Elementwise Multiply, Double, Missalignment, Odd Size



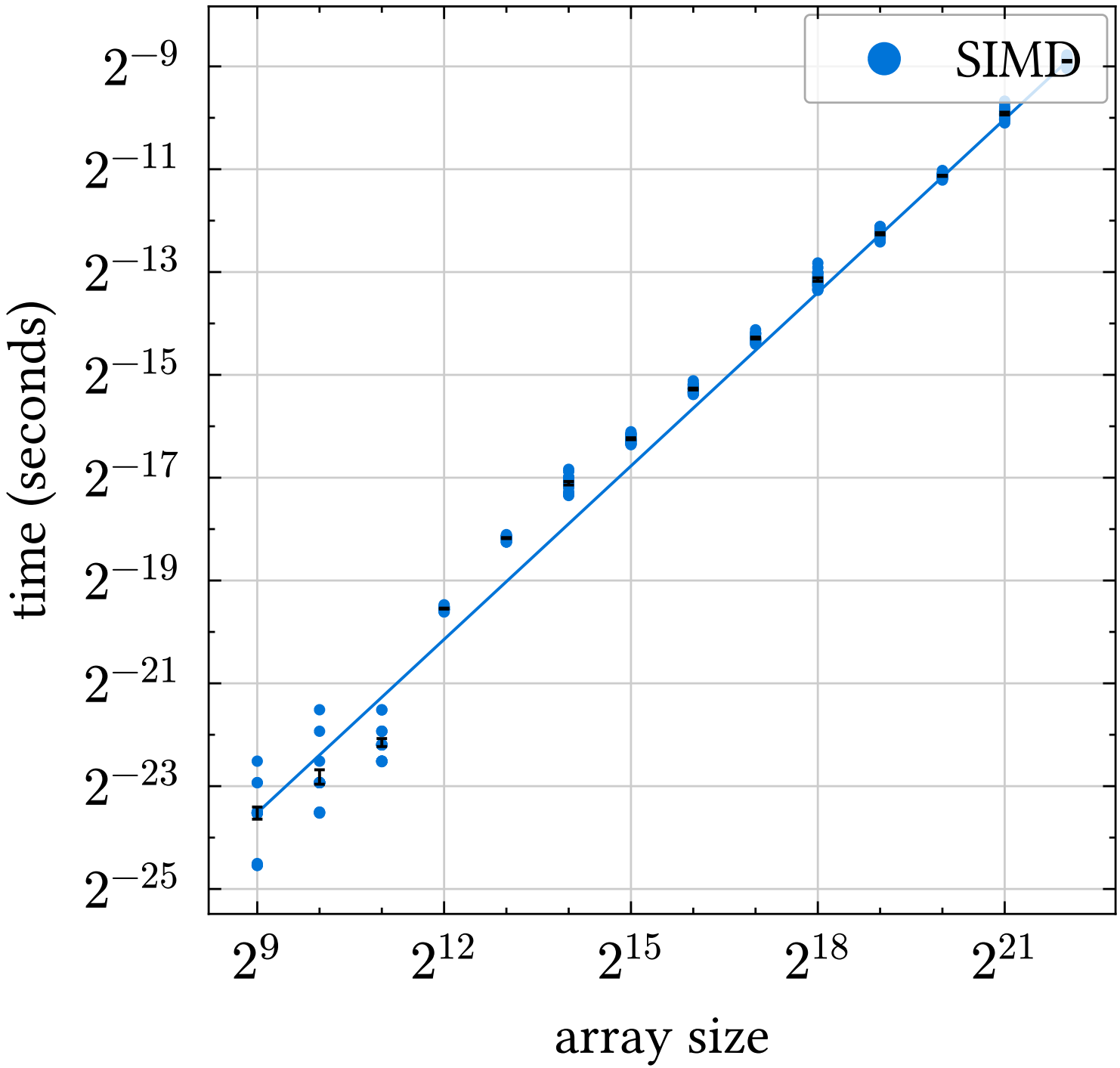
With SIMD: (arraySize) ∗ (9.8505e-10)

Elementwise Multiply, Double, Odd Size



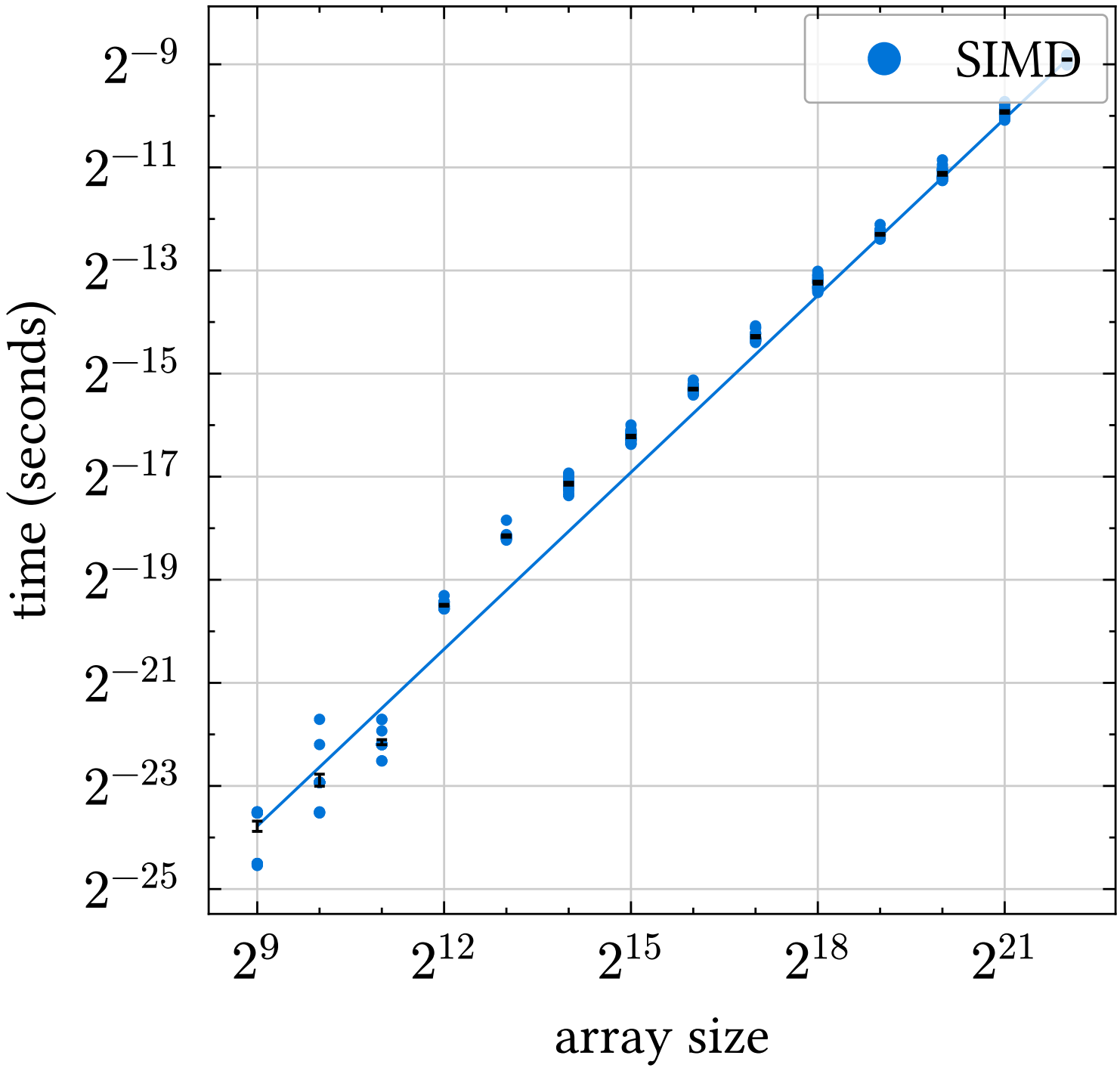
With SIMD: (arraySize) ∗ (9.8296e-10)

Saxpy, Missalignment

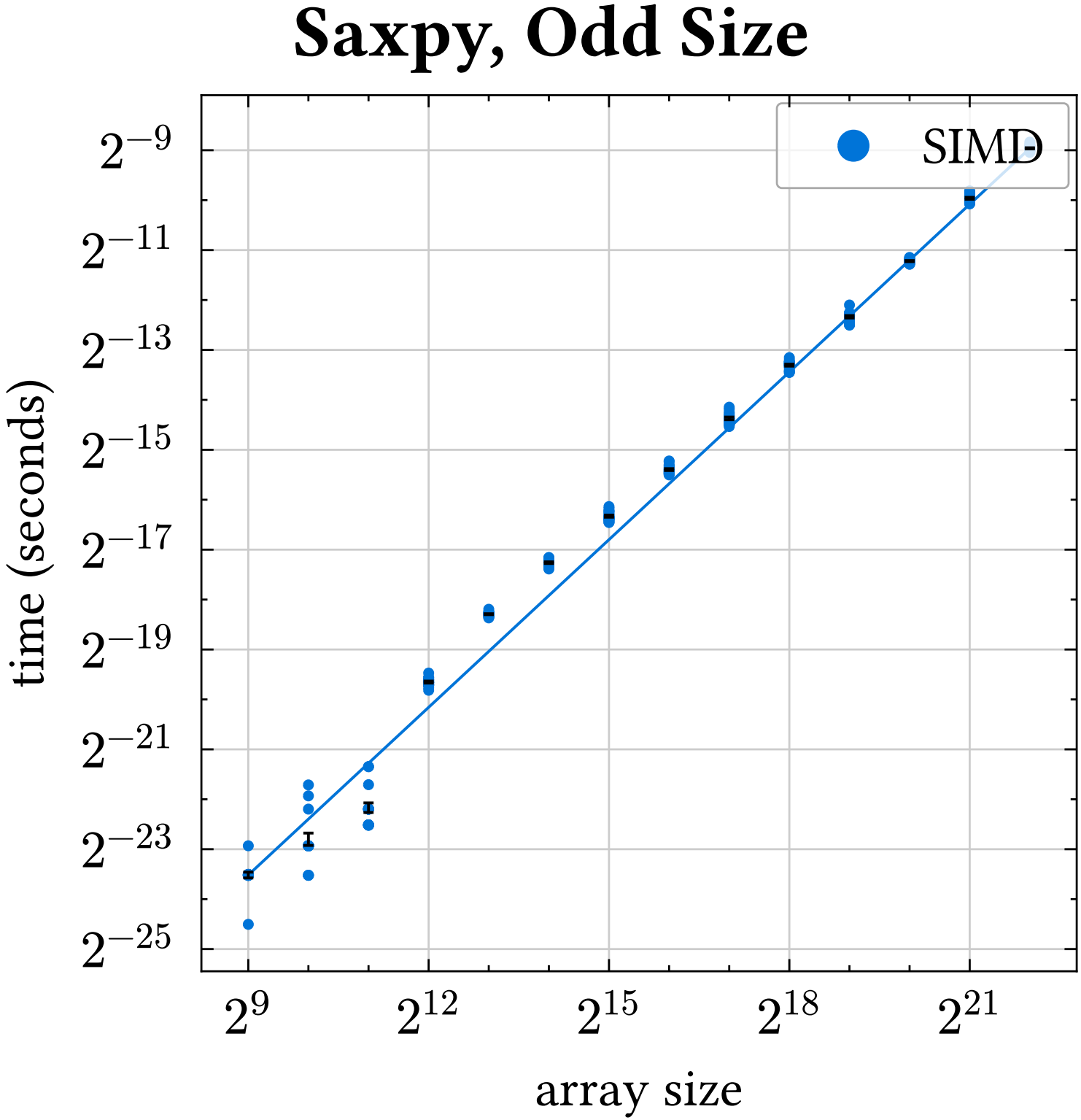


With SIMD: (arraySize) ∗ (4.9861e-10)

Saxpy, Missalignment, Odd Size

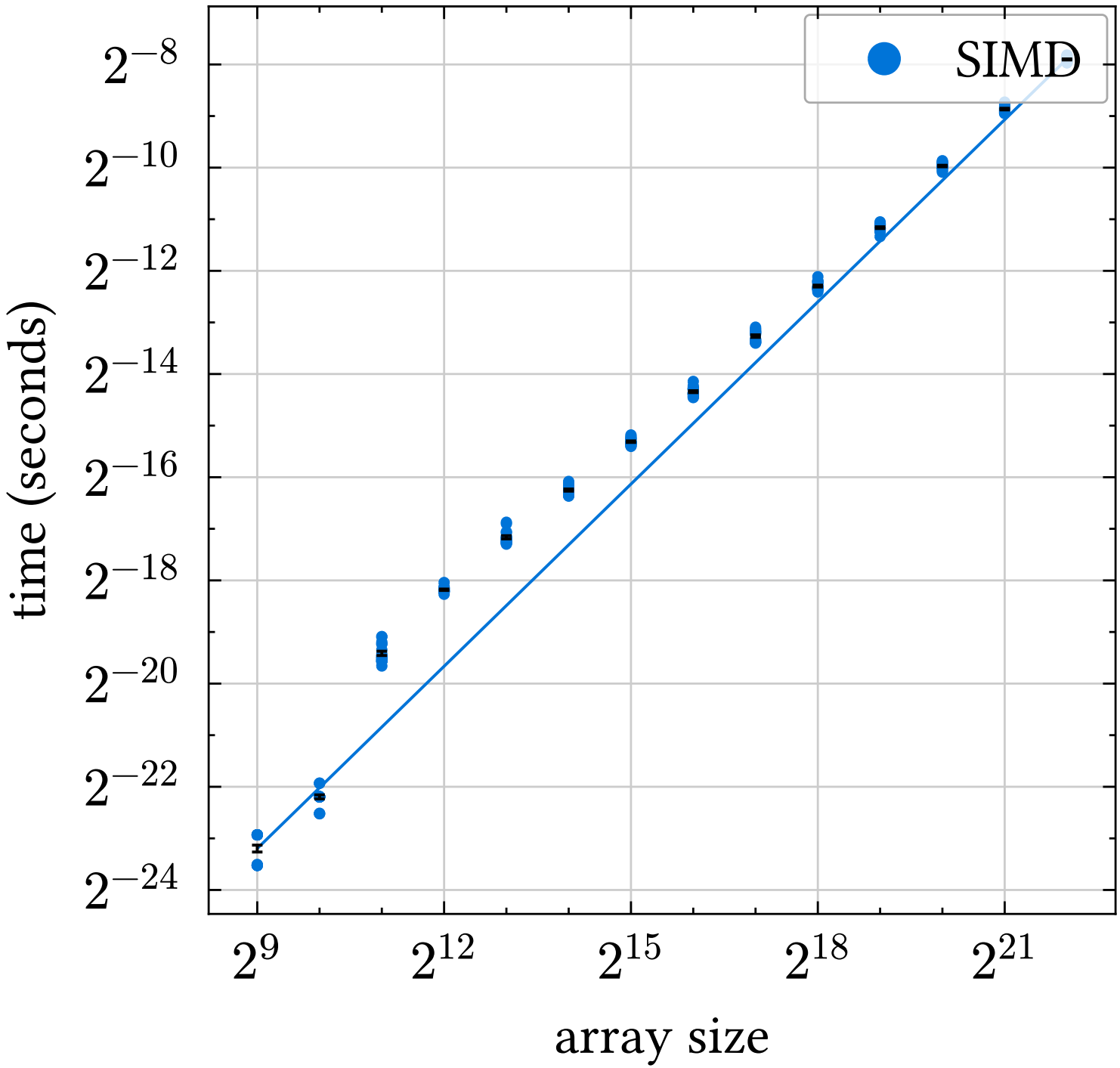


With SIMD: (arraySize) ∗ (4.9570e-10)



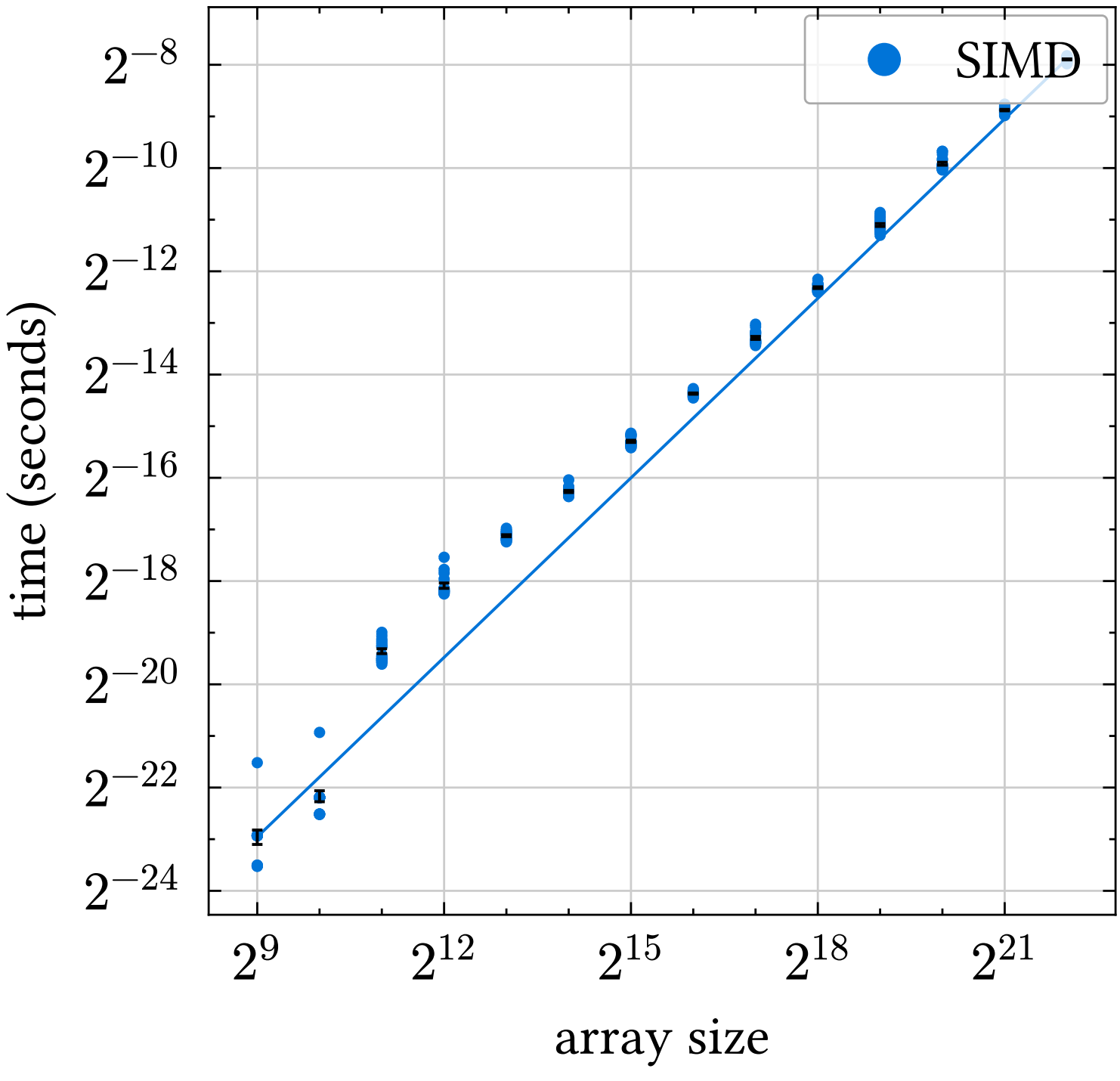
With SIMD: (arraySize) ∗ (4.7771e-10)

Saxpy, Double, Missalignment



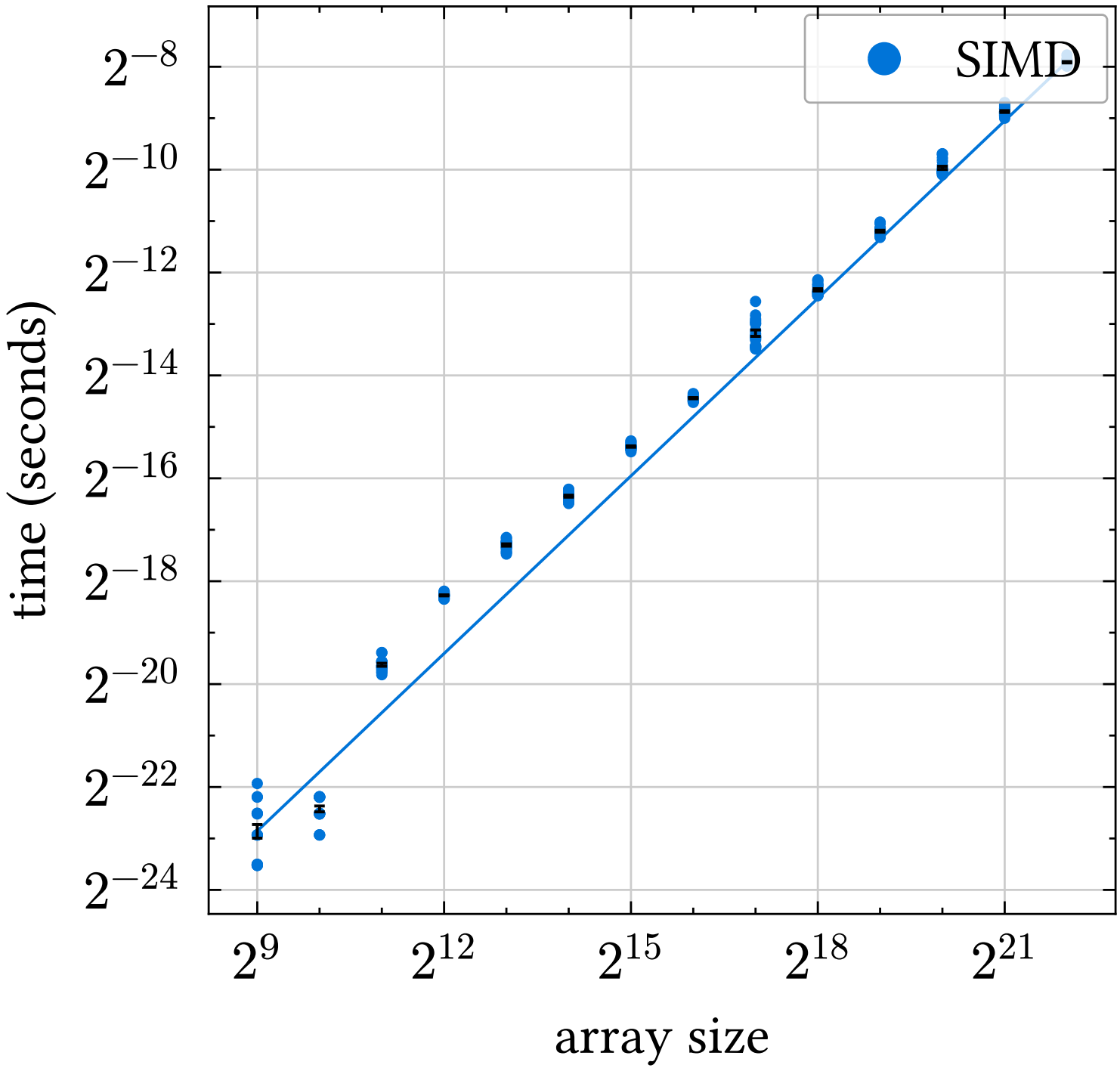
With SIMD: (arraySize) ∗ (1.0029e-9)

Saxpy, Double, Missalignment, Odd Size



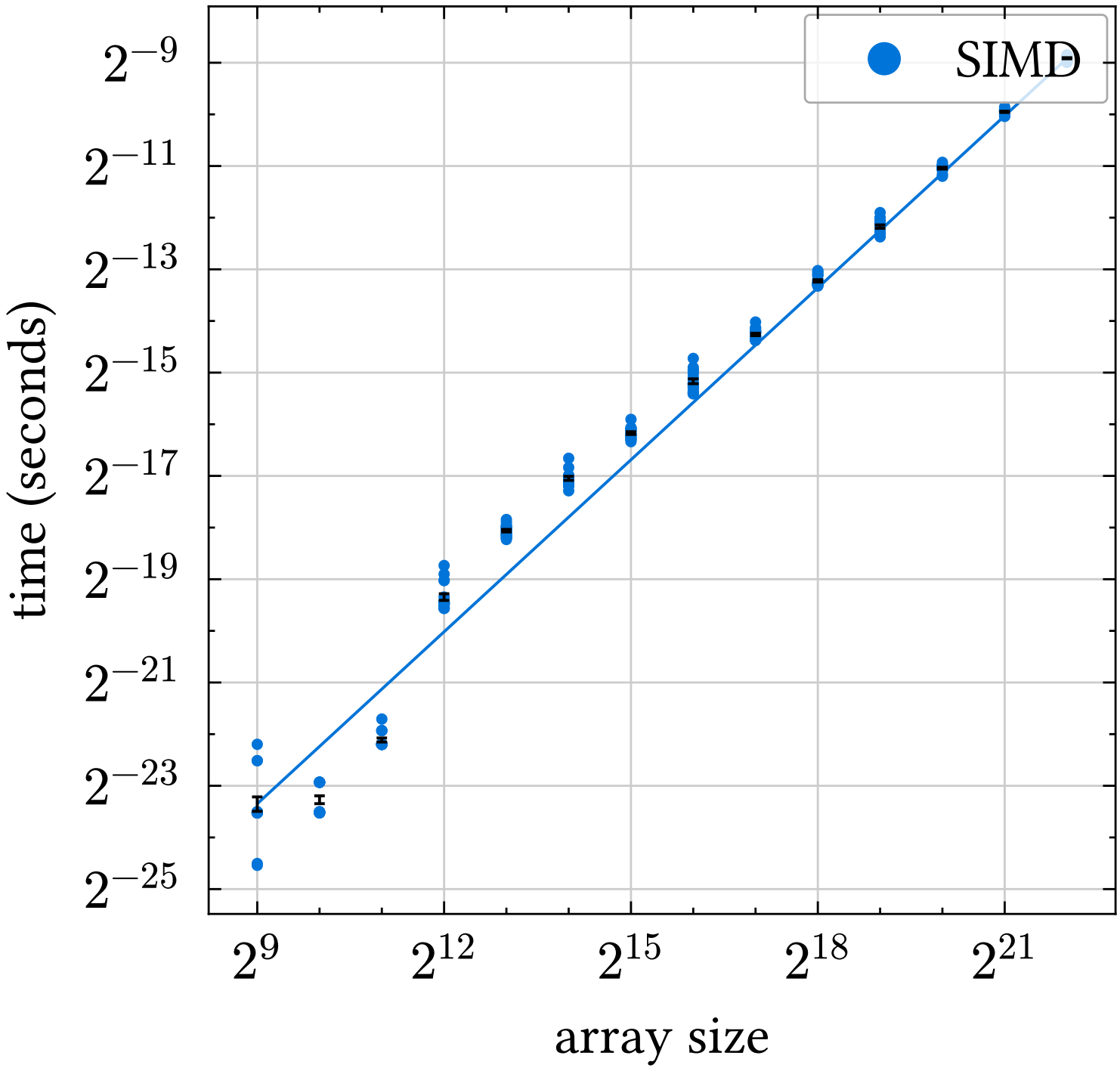
With SIMD: (arraySize) ∗ (1.0063e-9)

Saxpy, Double, Odd Size



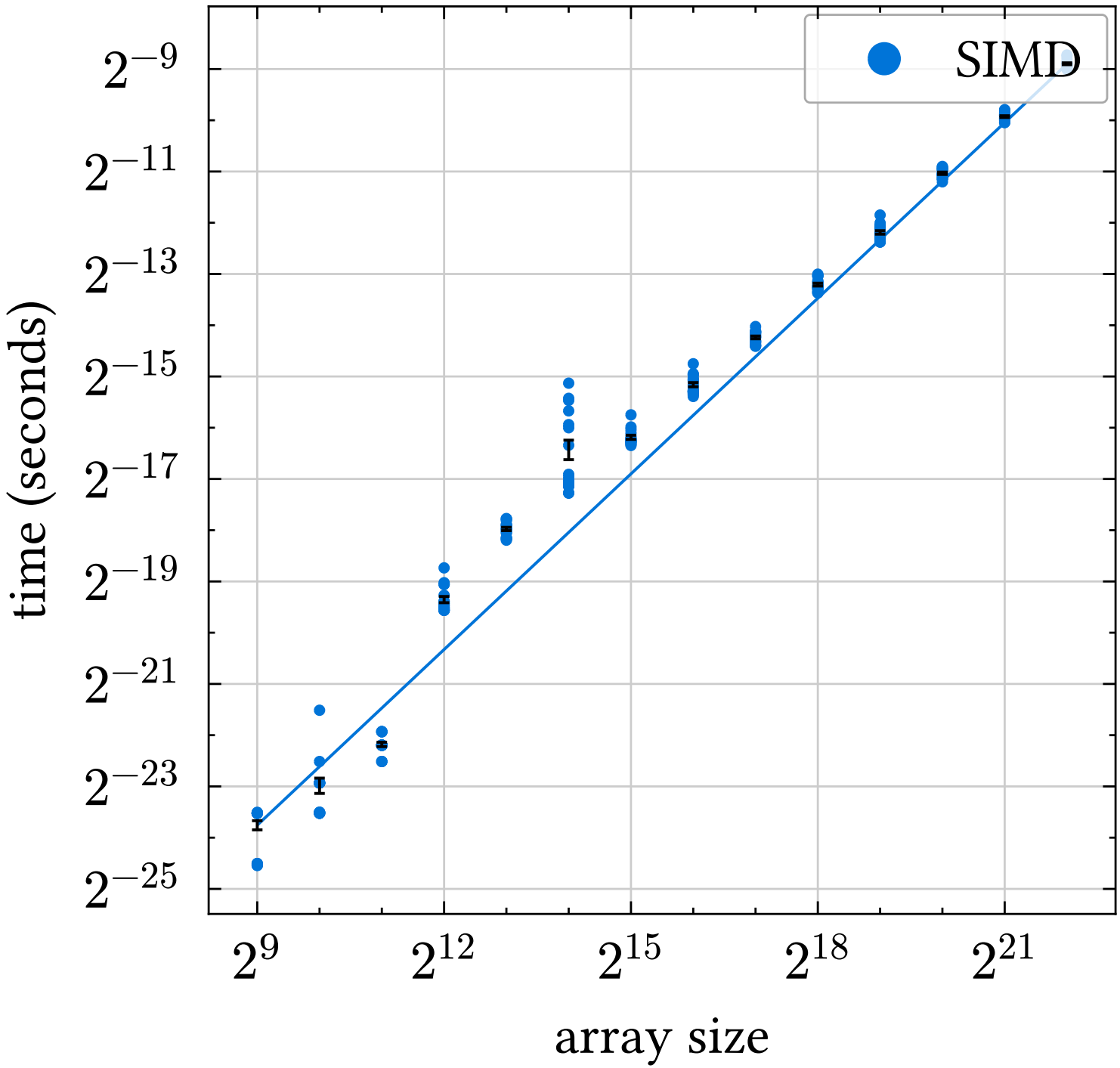
With SIMD: (arraySize) ∗ (9.9775e-10)

Stencil, Missalignment



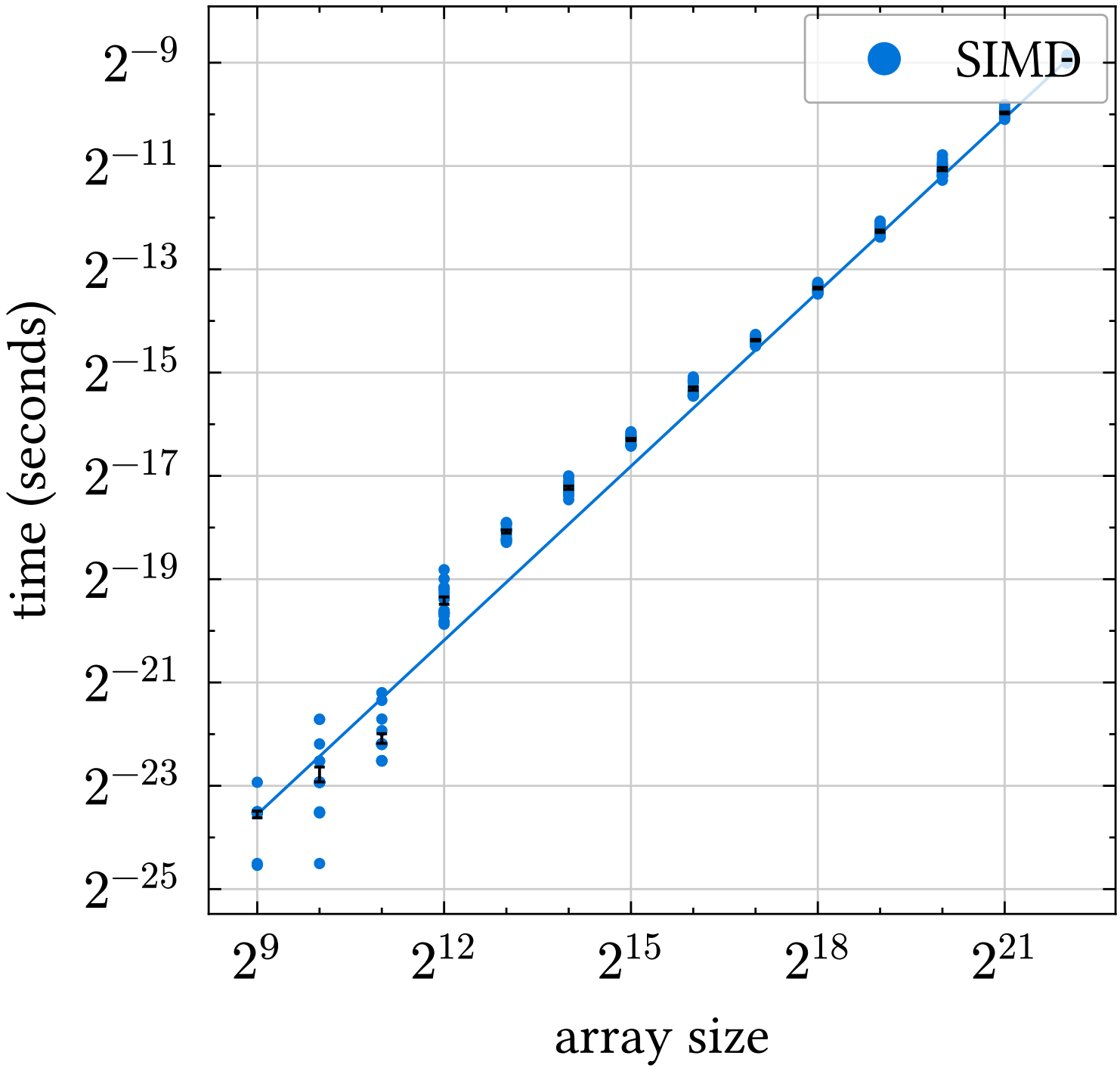
With SIMD: (arraySize) ∗ (4.9305e-10)

Stencil, Missalignment, Odd Size



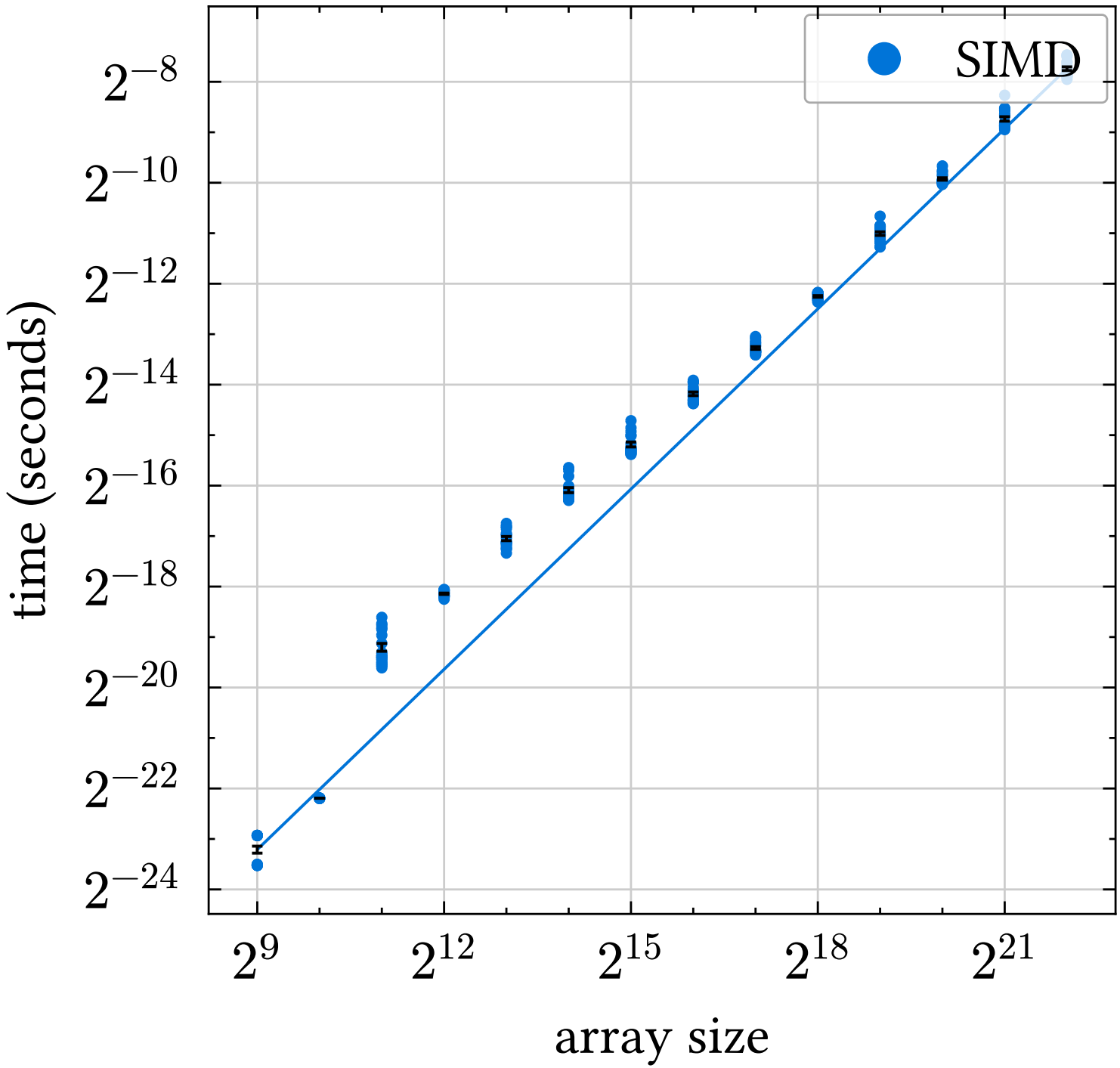
With SIMD: (arraySize) ∗ (4.9819e-10)

Stencil, Odd Size



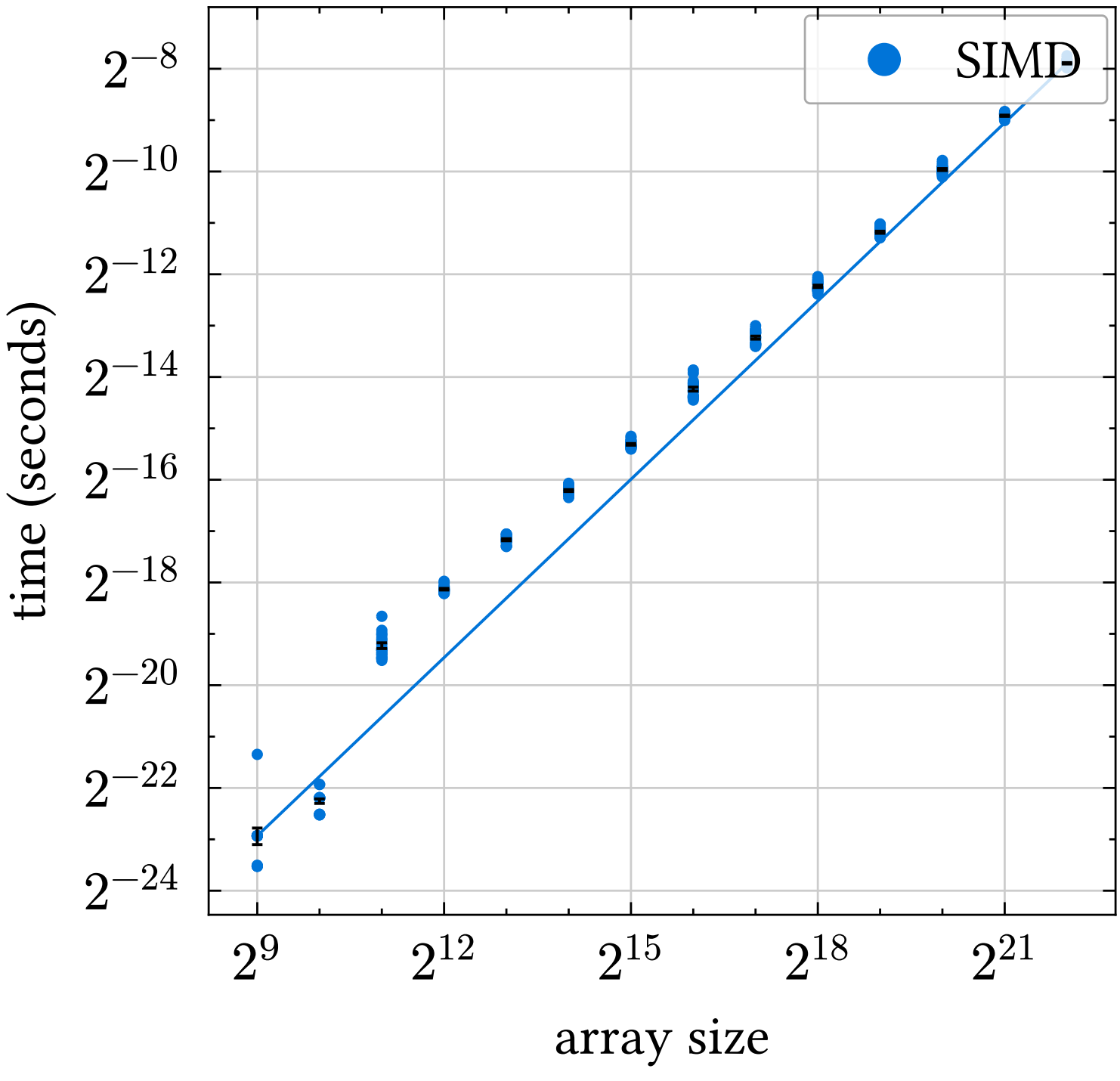
With SIMD: (arraySize) ∗ (4.8256e-10)

Stencil, Double, Missalignment



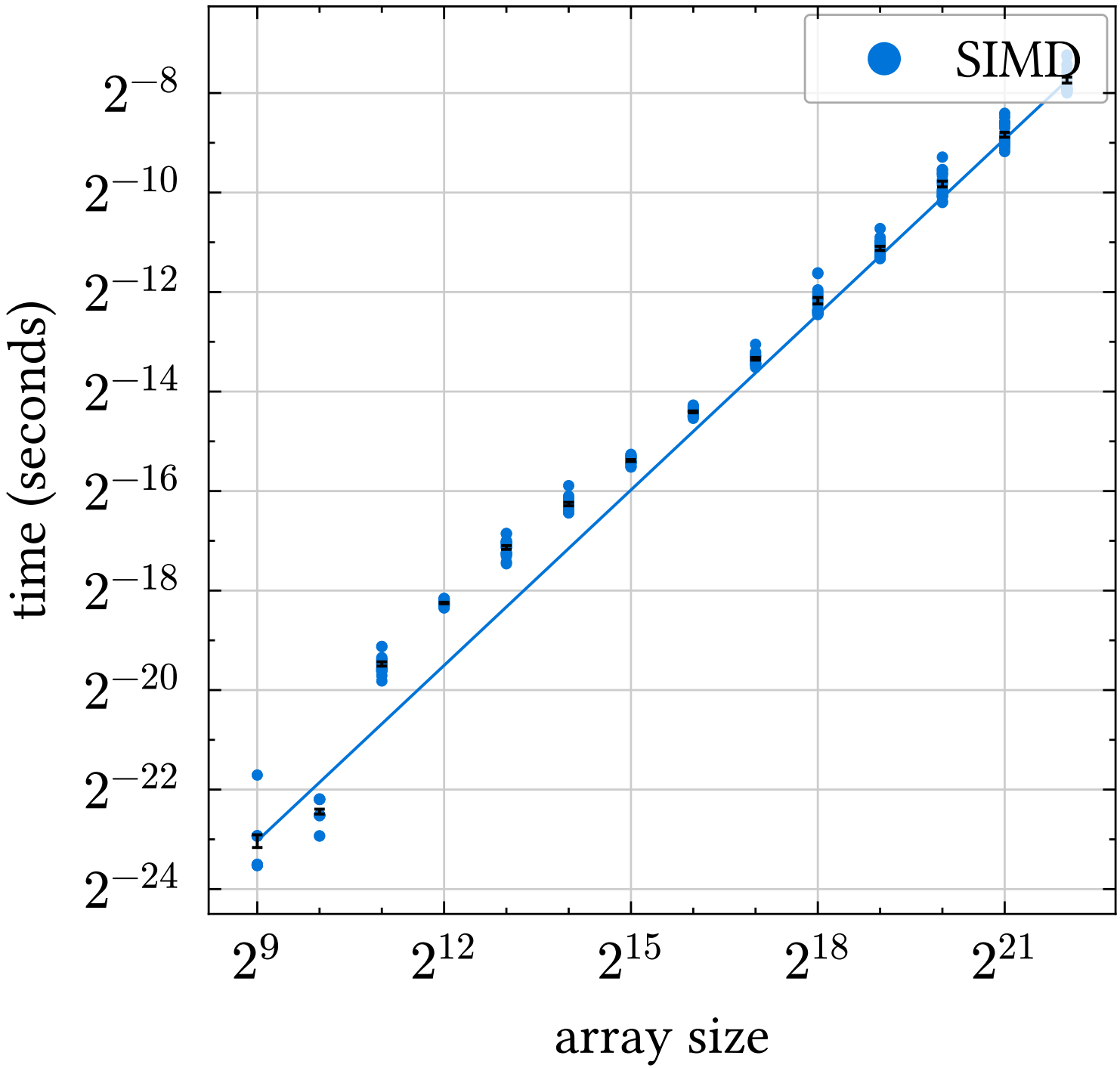
With SIMD: (arraySize) ∗ (1.1172e-9)

Stencil, Double, Missalignment, Odd Size



With SIMD: (arraySize) ∗ (1.0021e-9)

Stencil, Double, Odd Size



With SIMD: (arraySize) ∗ (1.1083e-9)