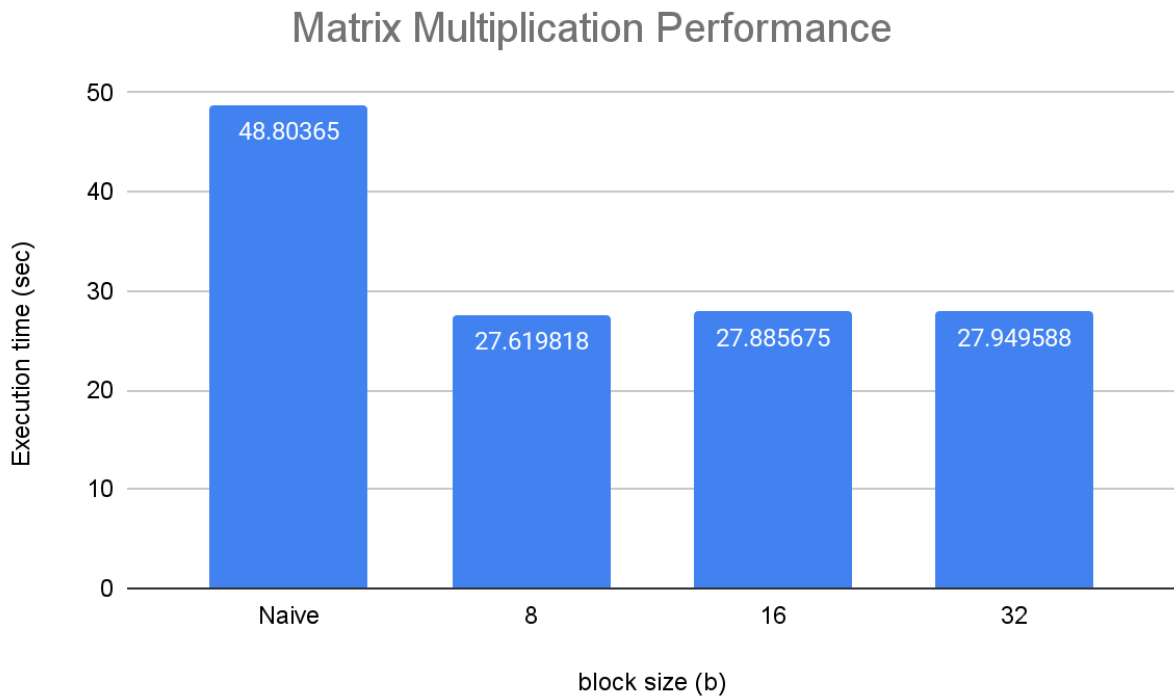


## Part 1 - Matrix Multiplication



Blocked matrix multiplications have better performance than naive matrix multiplications. A block size of 8 had the best performance, though all block sizes had similar performance.

Block size (b)	Execution Time (sec)	Execution Time (ns)	FLOPS
Naive = 1	48.80365	48803650000	346.072194
8	27.619818	27619818000	622.0124
16	27.885675	27885675000	616.082252
32	27.949588	27949588000	614.673438

Test Platform: USC CARC

# Runs: 1

## **Part 2 - K-Means**

Execution time for 30 iterations: 0.245169 seconds. (on USC CARC)

Output image:

