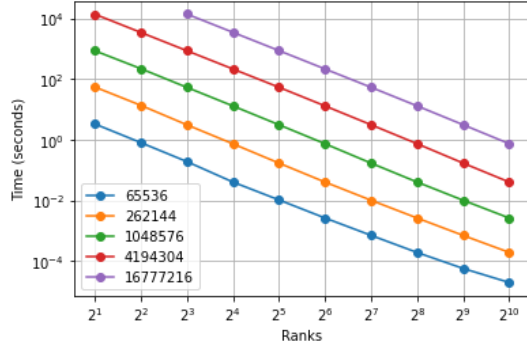


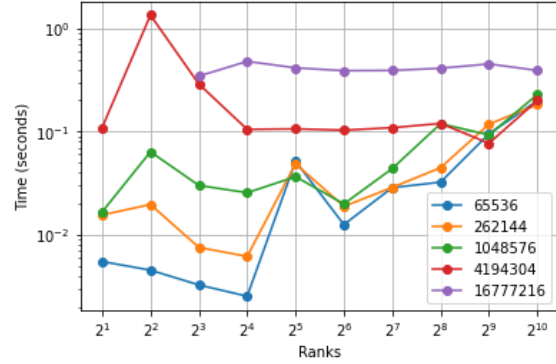
Odd/Even Sort Graphs

MPI Implementation (Weak Scaling):

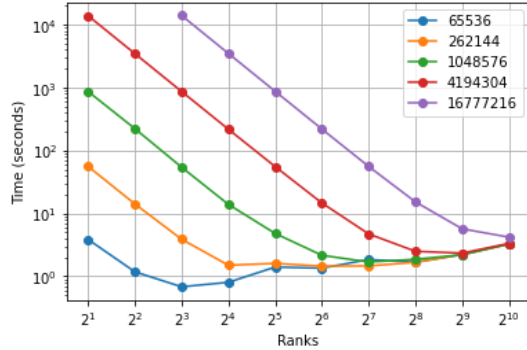
Weak Scaling MPI Odd/Even Sort comp_large Time on Random Data



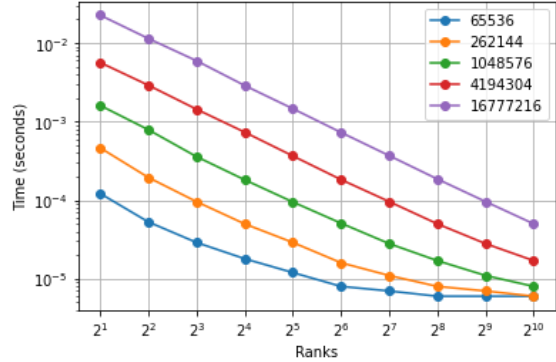
Weak Scaling MPI Odd/Even Sort comm Time on Random Data



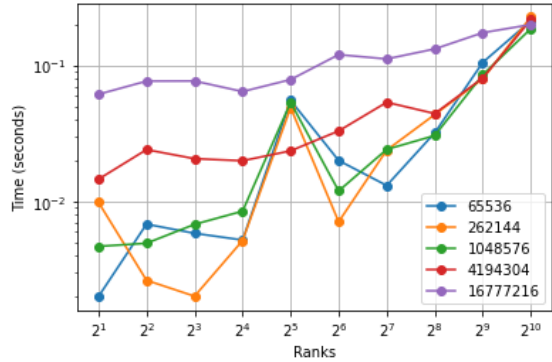
Weak Scaling MPI Odd/Even Sort main Time on Random Data



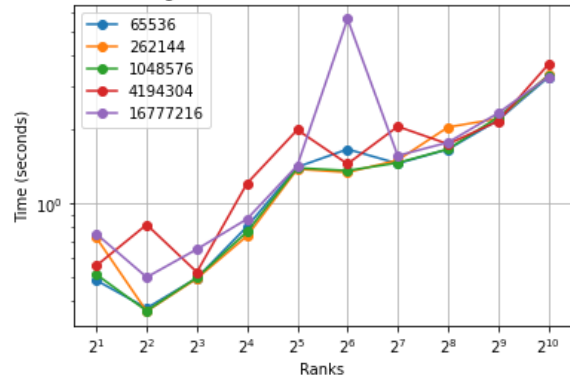
Weak Scaling MPI Odd/Even Sort comp_large Time on Sorted Data



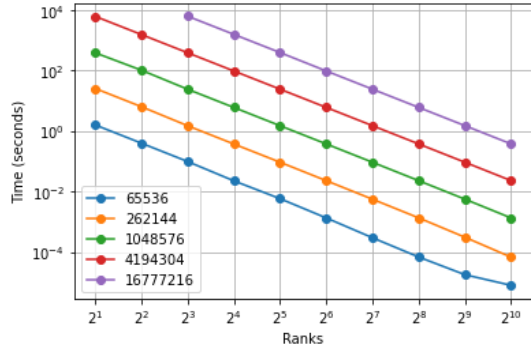
Weak Scaling MPI Odd/Even Sort comm Time on Sorted Data



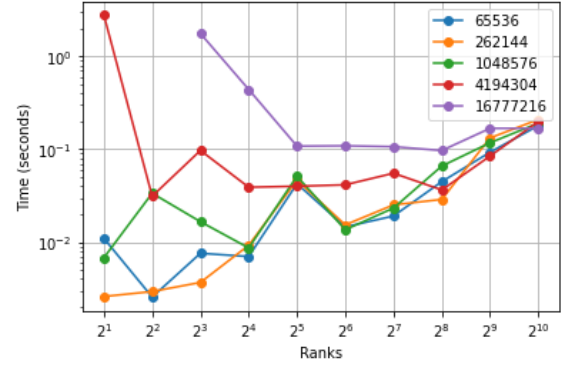
Weak Scaling MPI Odd/Even Sort main Time on Sorted Data



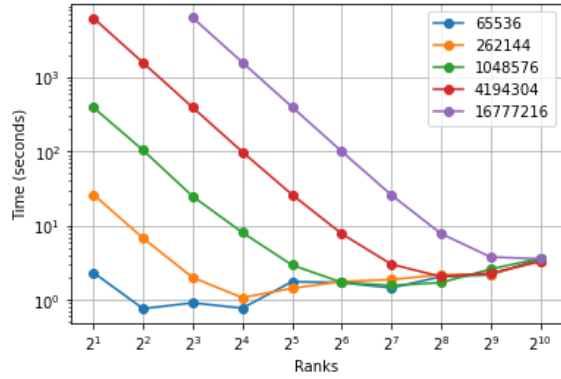
Weak Scaling MPI Odd/Even Sort comp_large Time on Perturbed Data



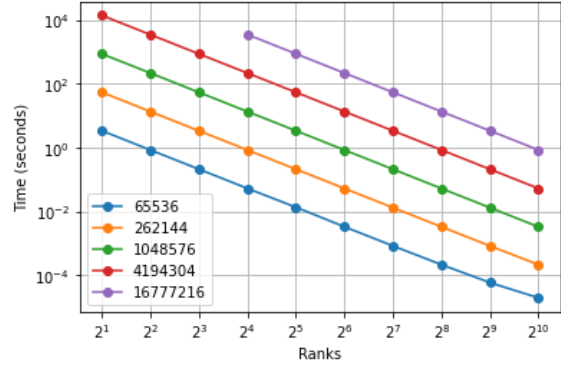
Weak Scaling MPI Odd/Even Sort comm Time on Perturbed Data



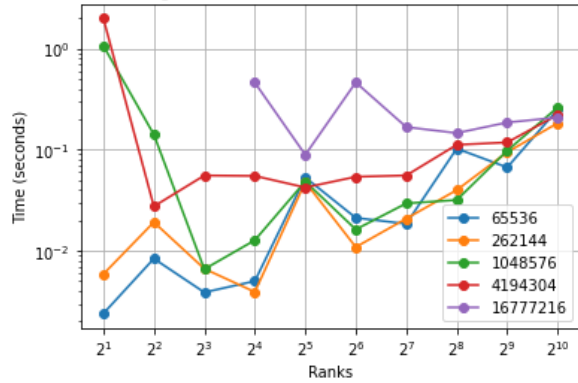
Weak Scaling MPI Odd/Even Sort main Time on Perturbed Data



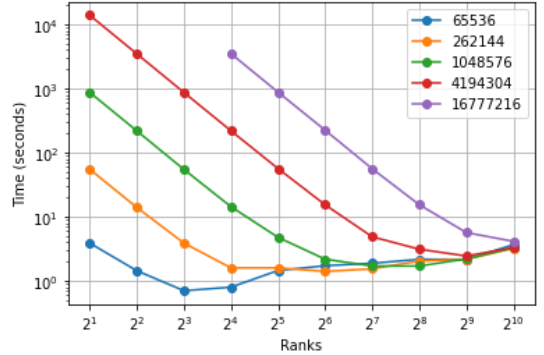
Weak Scaling MPI Odd/Even Sort comp_large Time on Reverse Data



Weak Scaling MPI Odd/Even Sort comm Time on Reverse Data

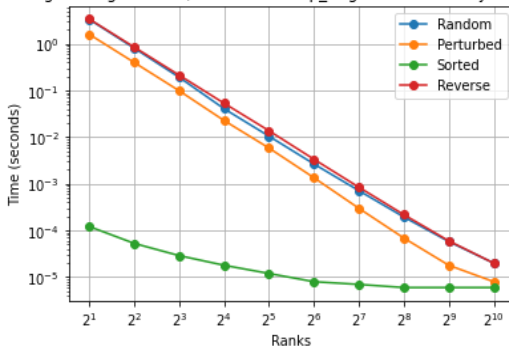


Weak Scaling MPI Odd/Even Sort main Time on Reverse Data

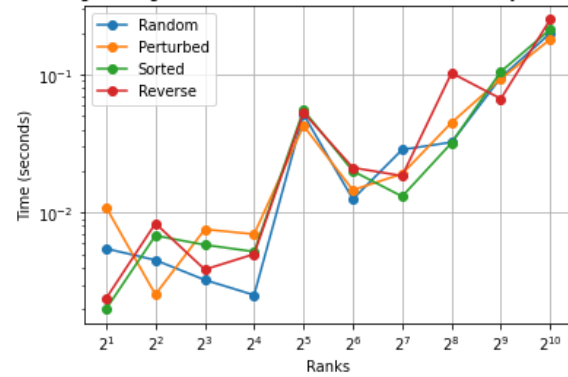


MPI Implementation (Strong Scaling):

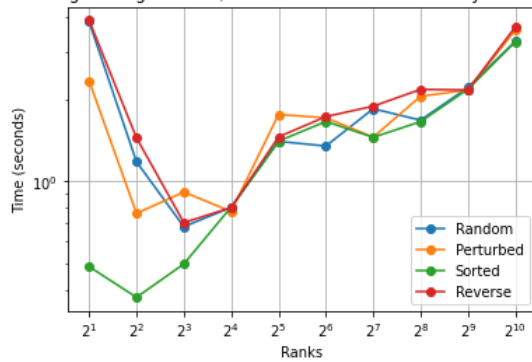
Strong Scaling MPI Odd/Even Sort comp_large Time for Array Size 65536



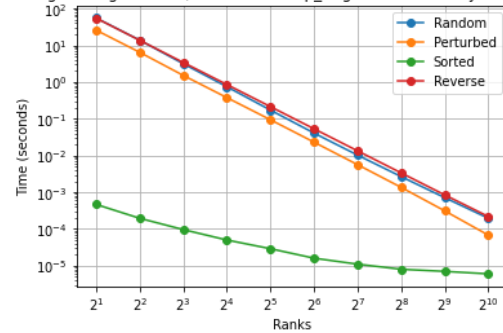
Strong Scaling MPI Odd/Even Sort comm Time for Array Size 65536



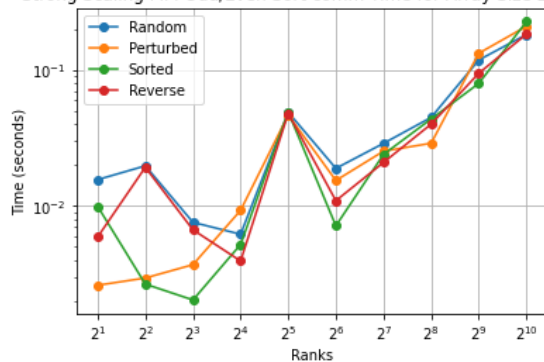
Strong Scaling MPI Odd/Even Sort main Time for Array Size 65536



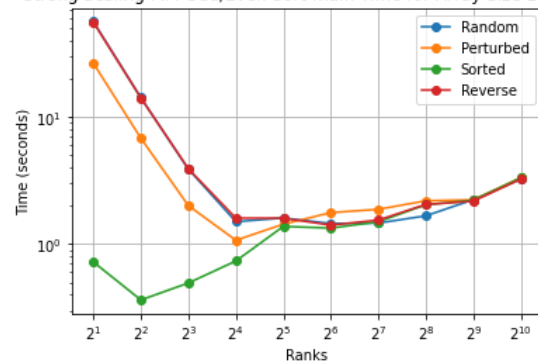
Strong Scaling MPI Odd/Even Sort comp_large Time for Array Size 262144



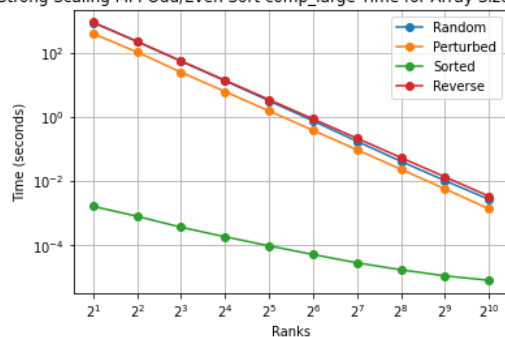
Strong Scaling MPI Odd/Even Sort comm Time for Array Size 262144



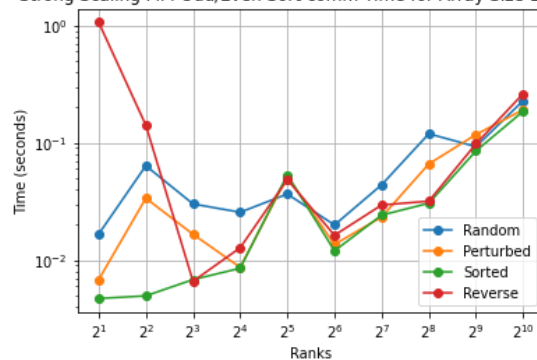
Strong Scaling MPI Odd/Even Sort main Time for Array Size 262144



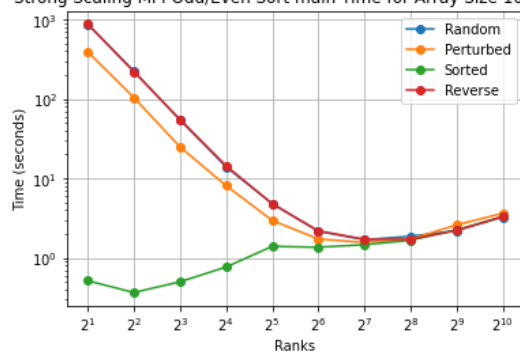
Strong Scaling MPI Odd/Even Sort comp_large Time for Array Size 1048576



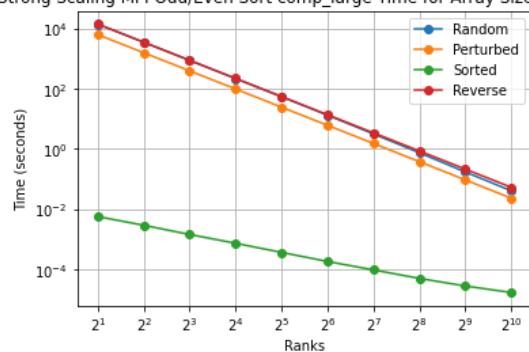
Strong Scaling MPI Odd/Even Sort comm Time for Array Size 1048576



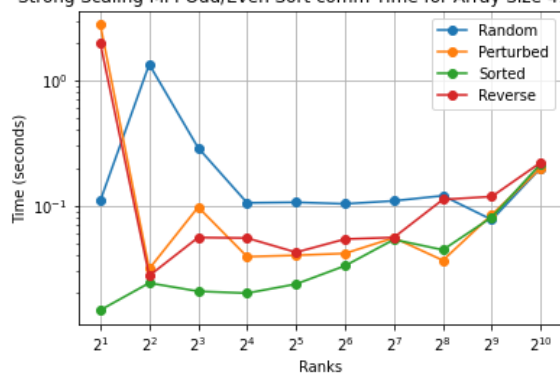
Strong Scaling MPI Odd/Even Sort main Time for Array Size 1048576



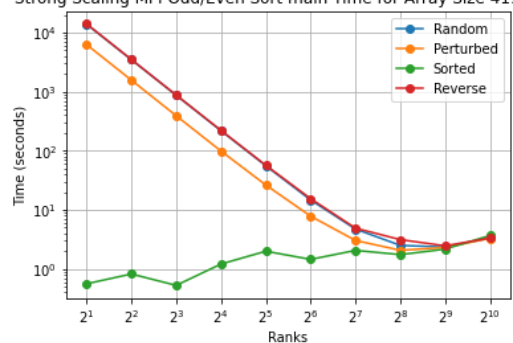
Strong Scaling MPI Odd/Even Sort comp_large Time for Array Size 4194304



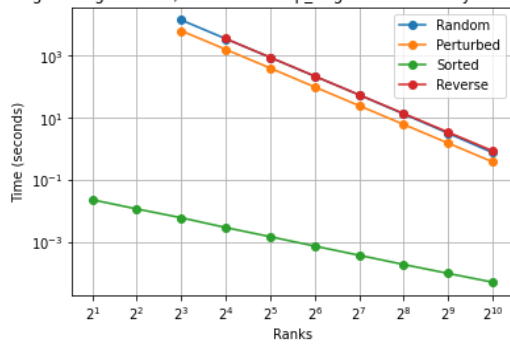
Strong Scaling MPI Odd/Even Sort comm Time for Array Size 4194304



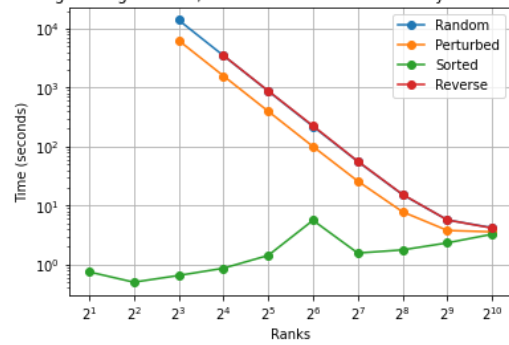
Strong Scaling MPI Odd/Even Sort main Time for Array Size 4194304



Strong Scaling MPI Odd/Even Sort comp_large Time for Array Size 16777216

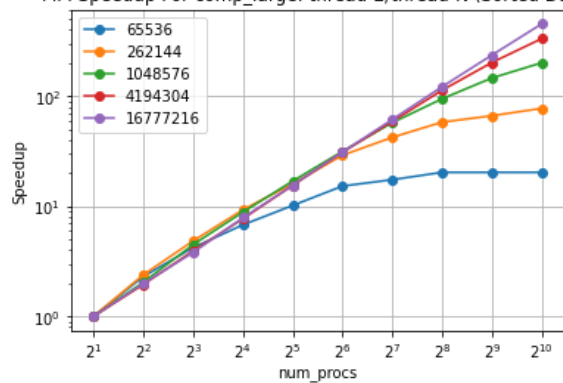


Strong Scaling MPI Odd/Even Sort main Time for Array Size 16777216

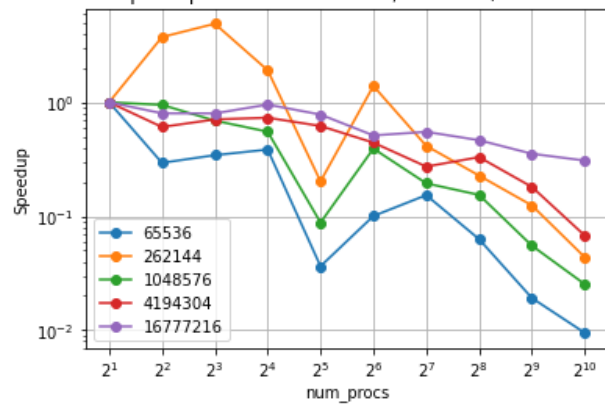


MPI Implementation (Speedup):

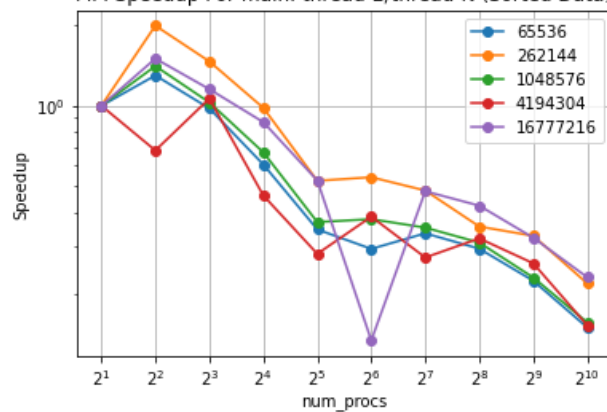
MPI Speedup For comp_large: thread-2/thread-N (Sorted Data)



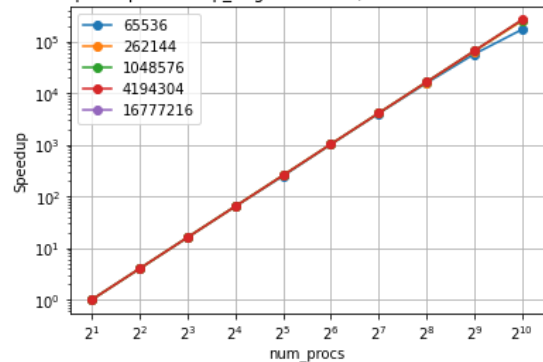
MPI Speedup For comm: thread-2/thread-N (Sorted Data)

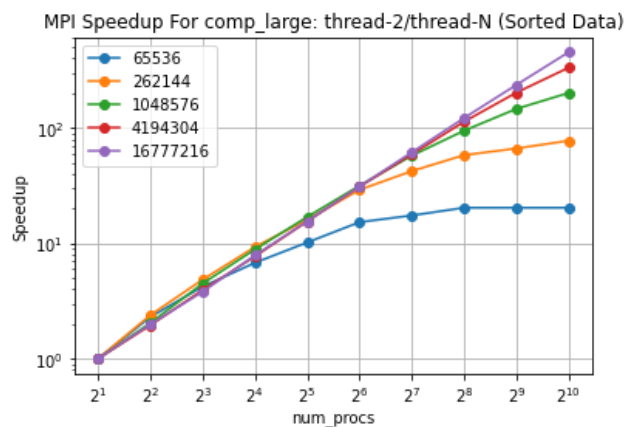
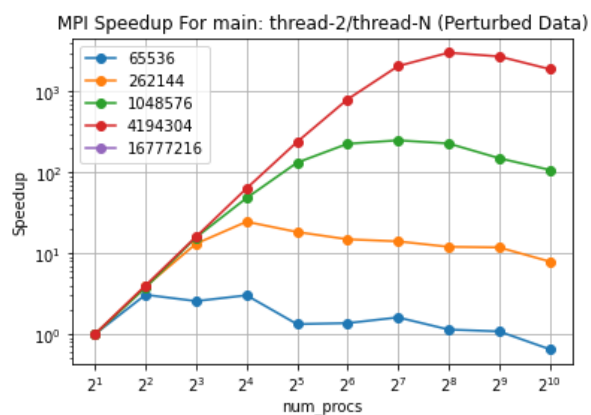
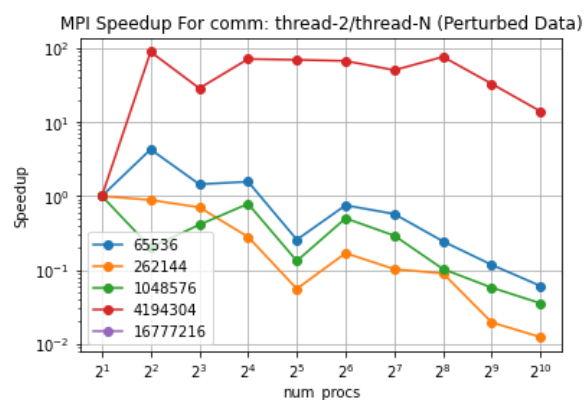
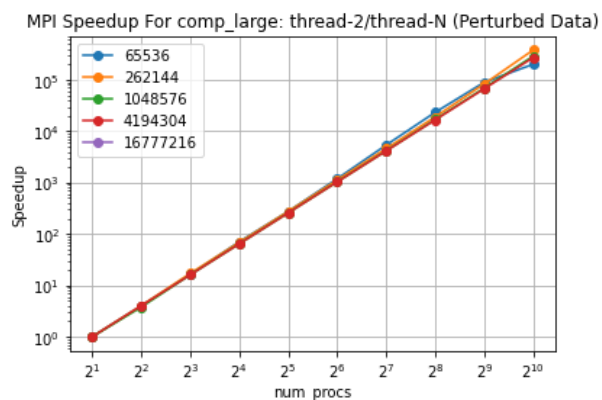
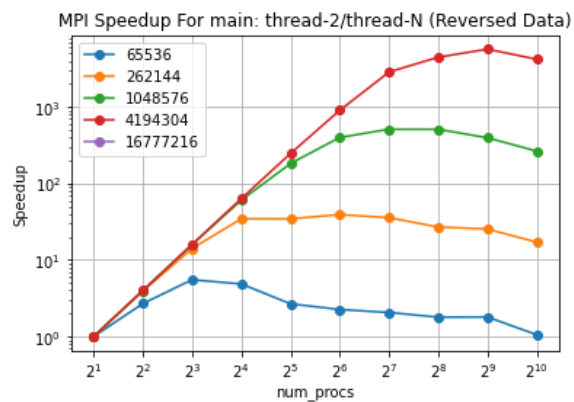
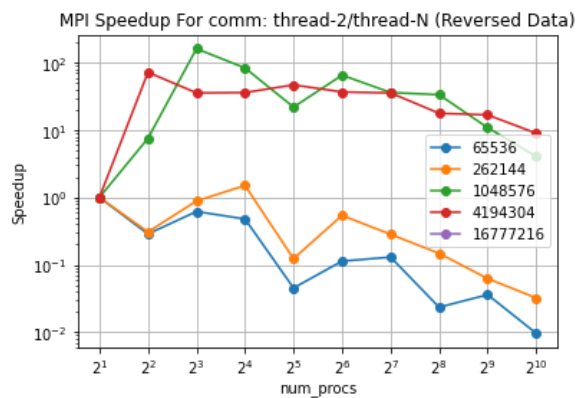


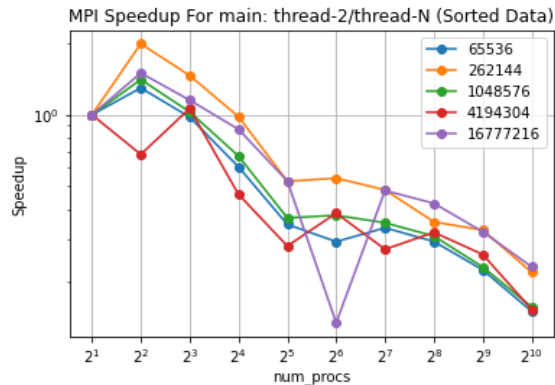
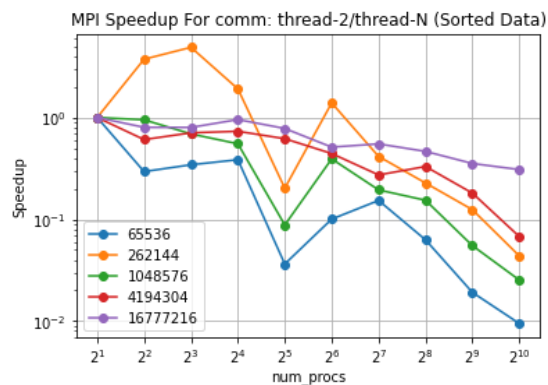
MPI Speedup For main: thread-2/thread-N (Sorted Data)



MPI Speedup For comp_large: thread-2/thread-N (Reversed Data)

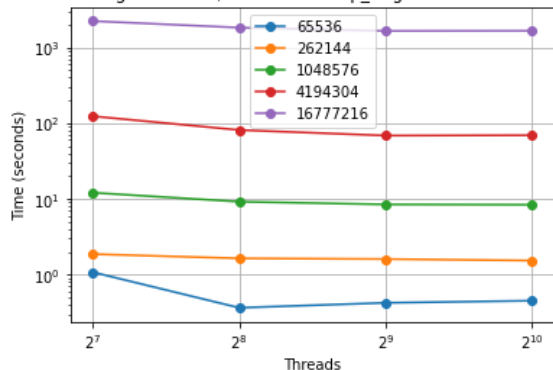




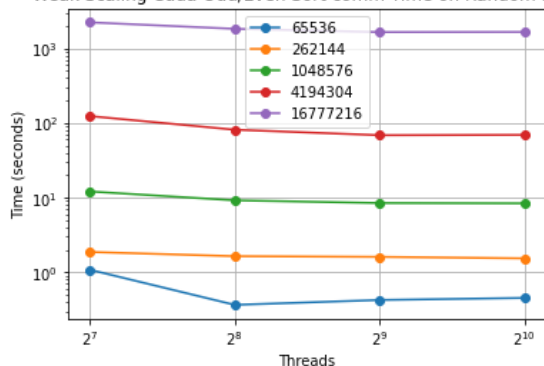


Cuda Implementation (Weak Scaling):

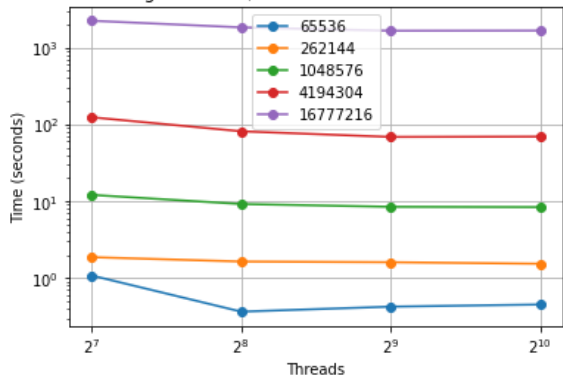
Weak Scaling Cuda Odd/Even Sort comp_large Time on Random Data



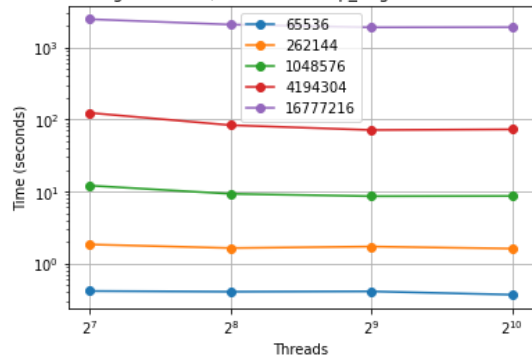
Weak Scaling Cuda Odd/Even Sort comm Time on Random Data



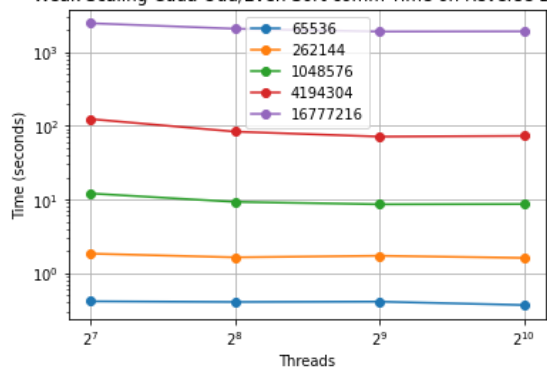
Weak Scaling Cuda Odd/Even Sort main Time on Random Data



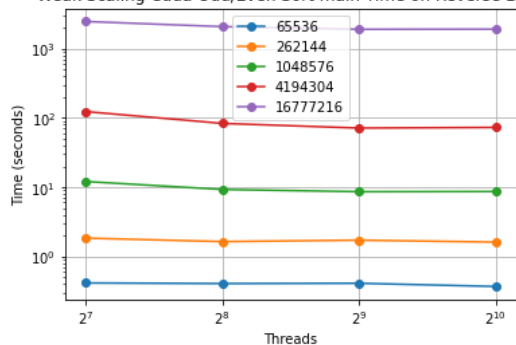
Weak Scaling Cuda Odd/Even Sort comp_large Time on Reverse Data



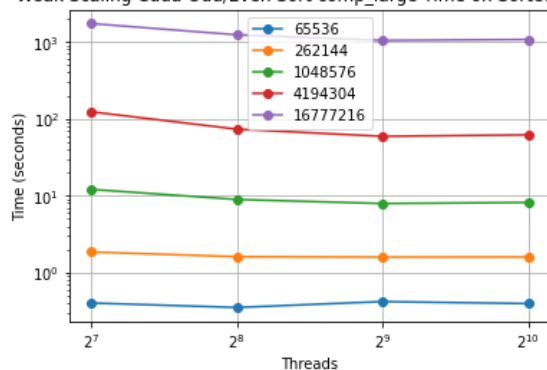
Weak Scaling Cuda Odd/Even Sort comm Time on Reverse Data



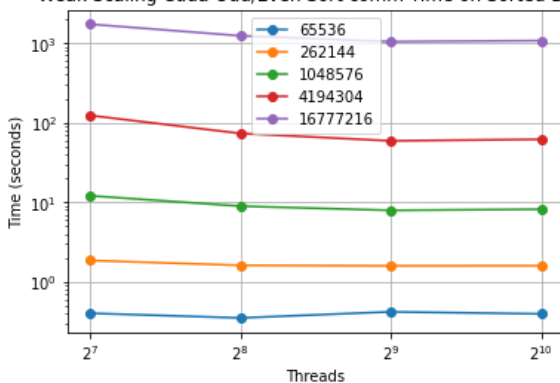
Weak Scaling Cuda Odd/Even Sort main Time on Reverse Data



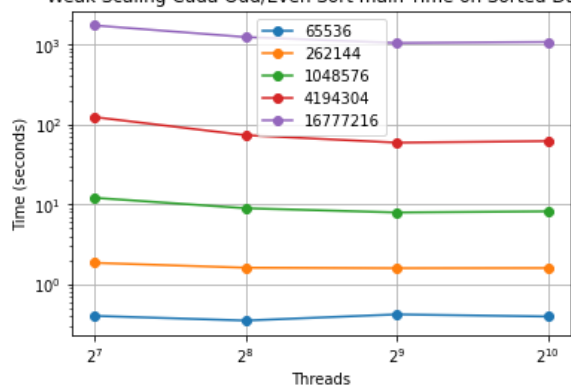
Weak Scaling Cuda Odd/Even Sort comp_large Time on Sorted Data



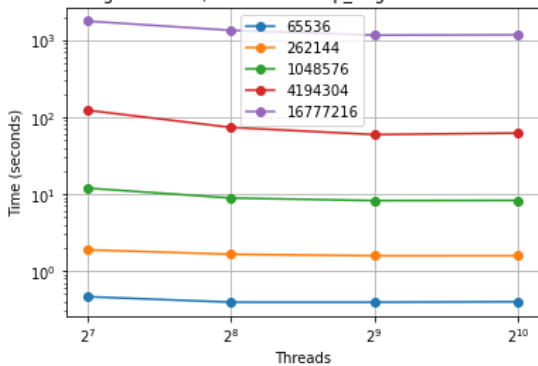
Weak Scaling Cuda Odd/Even Sort comm Time on Sorted Data



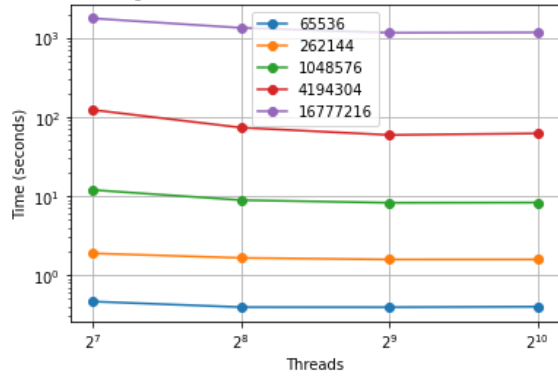
Weak Scaling Cuda Odd/Even Sort main Time on Sorted Data



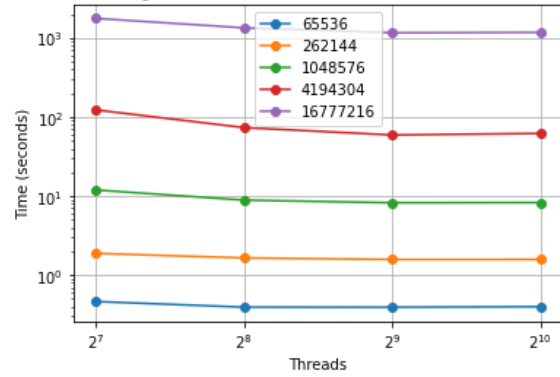
Weak Scaling Cuda Odd/Even Sort comp_large Time on Perturbed Data



Weak Scaling Cuda Odd/Even Sort comm Time on Perturbed Data

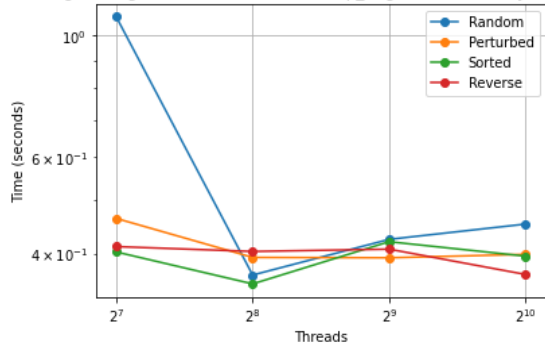


Weak Scaling Cuda Odd/Even Sort main Time on Perturbed Data

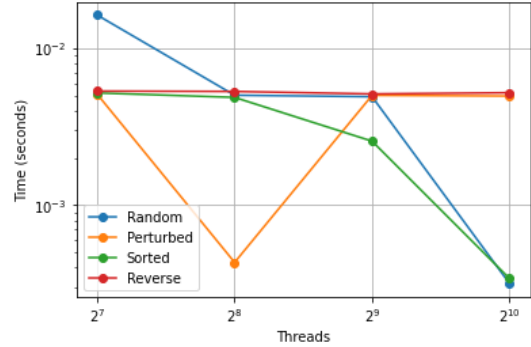


Cuda Implementation (Strong Scaling):

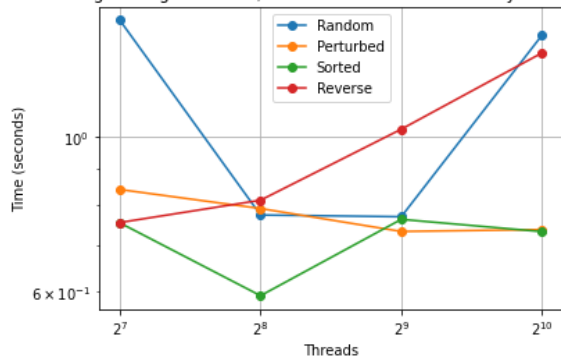
Strong Scaling Cuda Odd/Even Sort comp_large Time for Array Size 65536



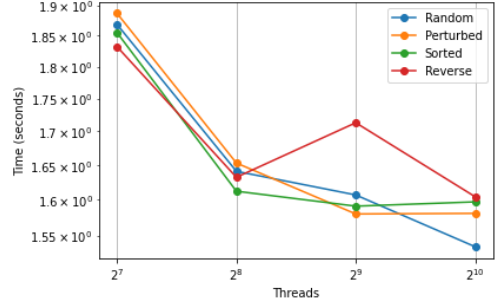
Strong Scaling Cuda Odd/Even Sort comm Time for Array Size 65536

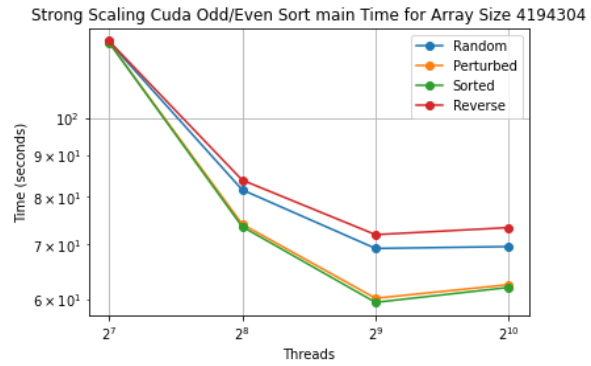
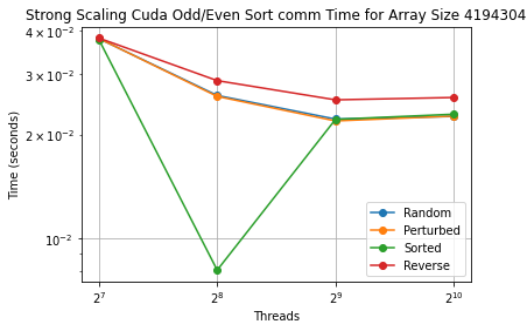
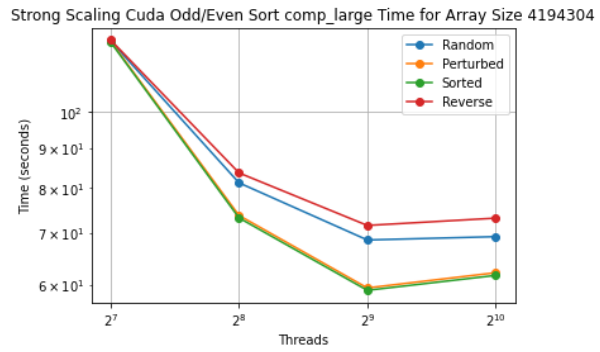
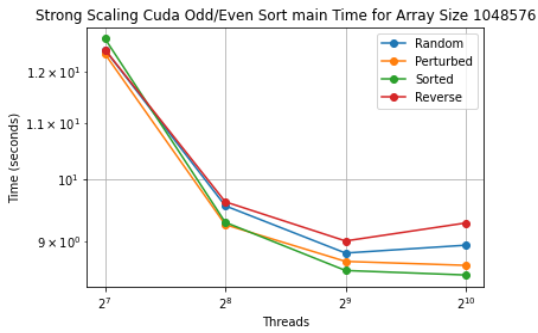
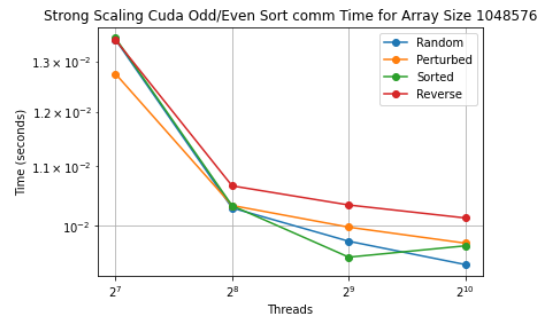
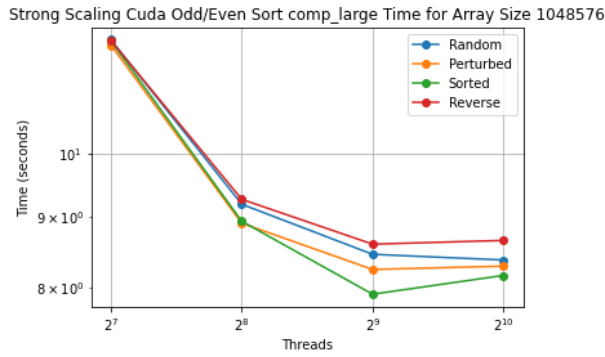
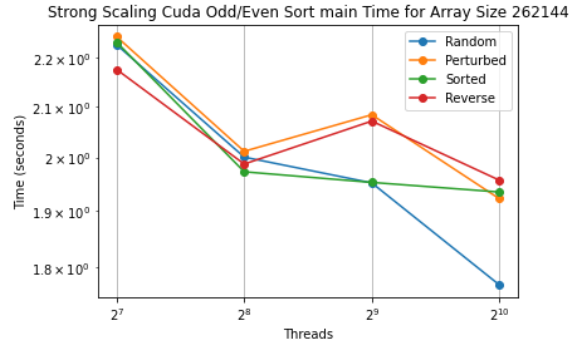
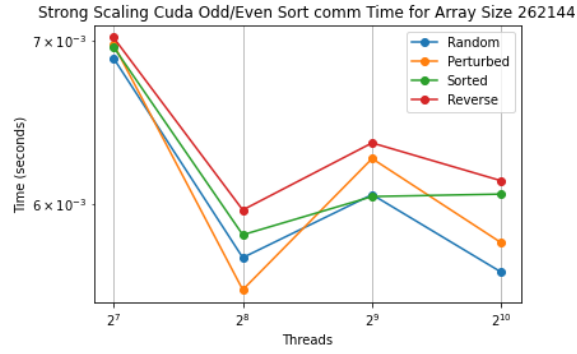


Strong Scaling Cuda Odd/Even Sort main Time for Array Size 65536

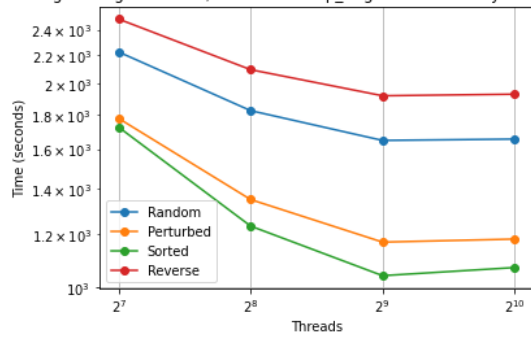


Strong Scaling Cuda Odd/Even Sort comp_large Time for Array Size 262144

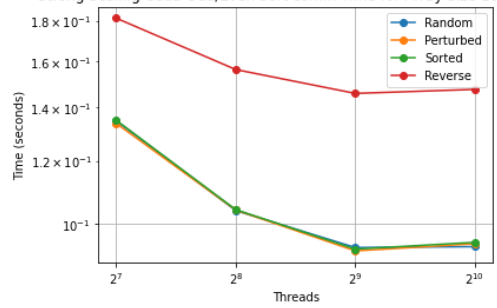




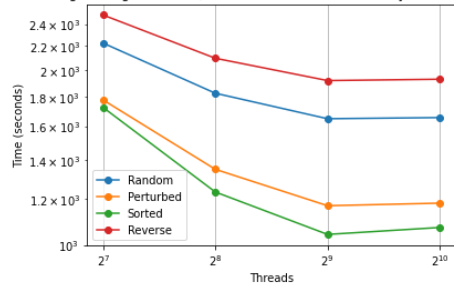
Strong Scaling Cuda Odd/Even Sort comp_large Time for Array Size 16777216



Strong Scaling Cuda Odd/Even Sort comm Time for Array Size 16777216



Strong Scaling Cuda Odd/Even Sort main Time for Array Size 16777216



Cuda Implementation (Speed Up):

