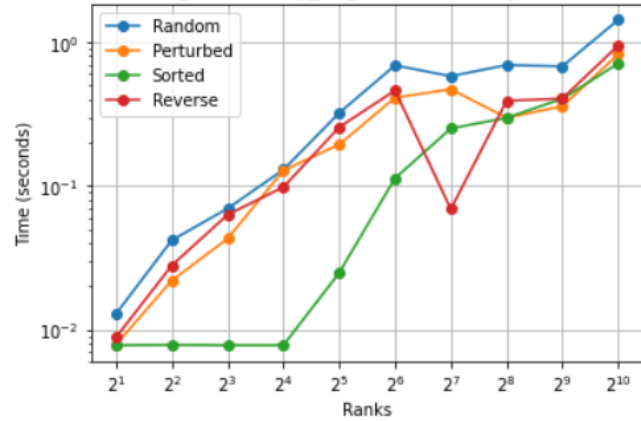


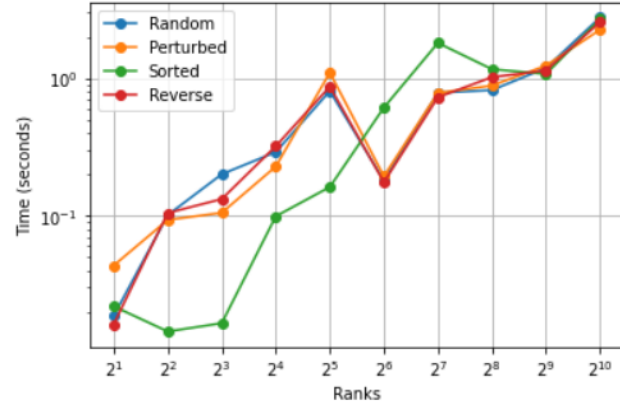
# Merge Sort Plots

## MPI(Strong Scaling):

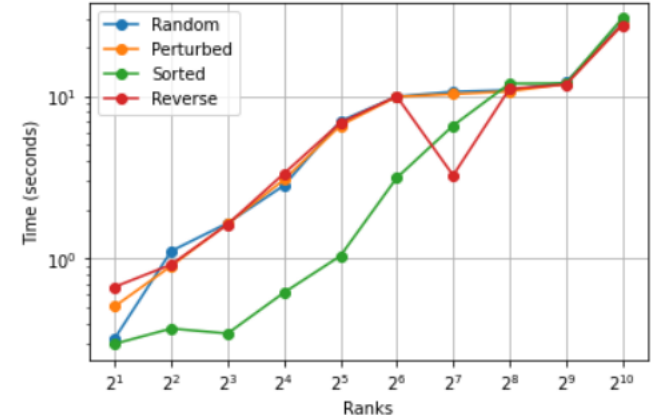
MPI Merge Sort comp\_large Time for Array Size 65536



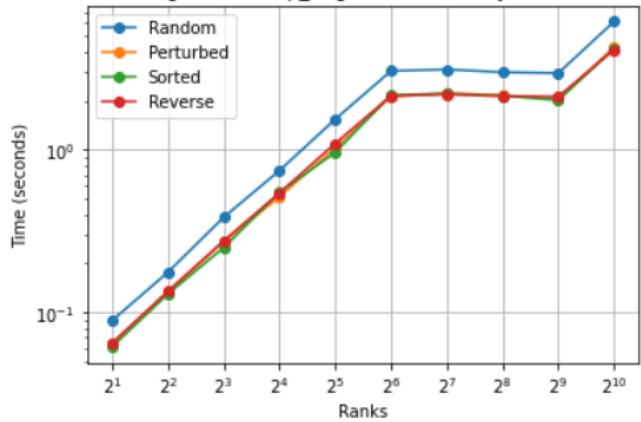
MPI Merge Sort comm Time for Array Size 65536



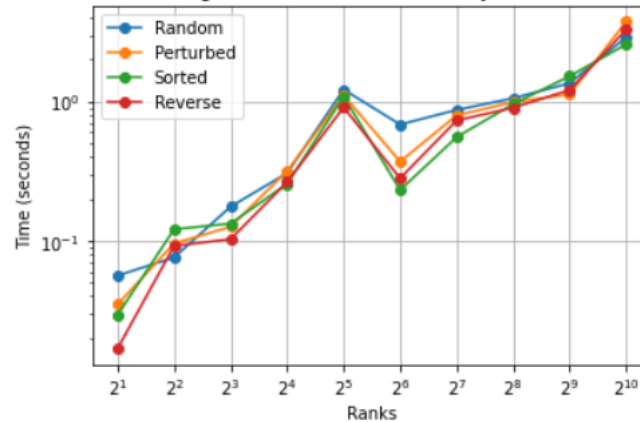
MPI Merge Sort main Time for Array Size 65536



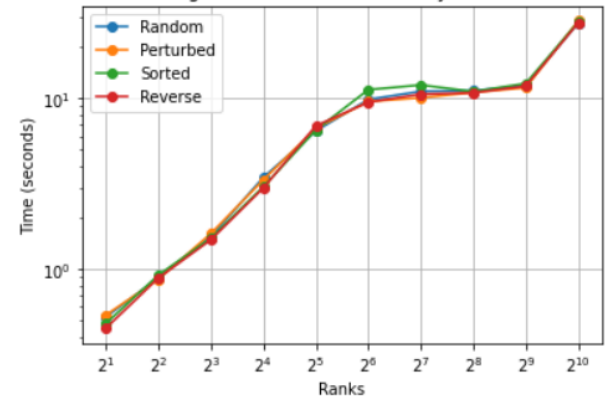
MPI Merge Sort comp\_large Time for Array Size 262144



MPI Merge Sort comm Time for Array Size 262144

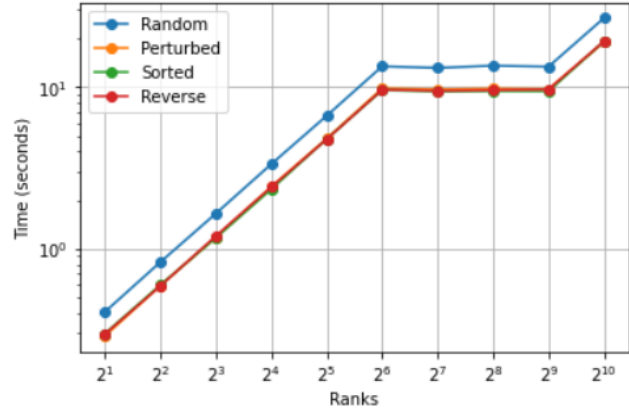


MPI Merge Sort main Time for Array Size 262144

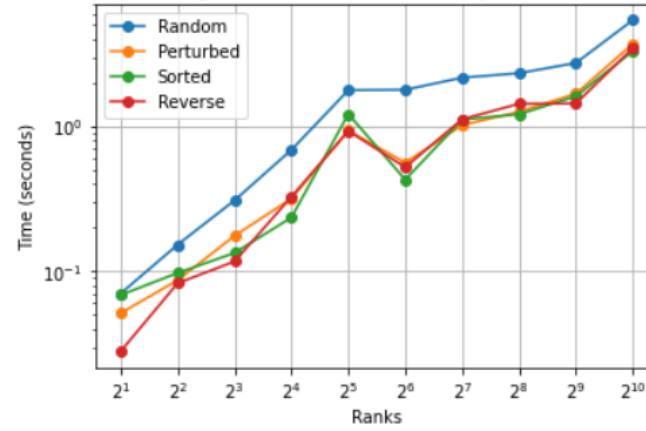


# Merge Sort Plots

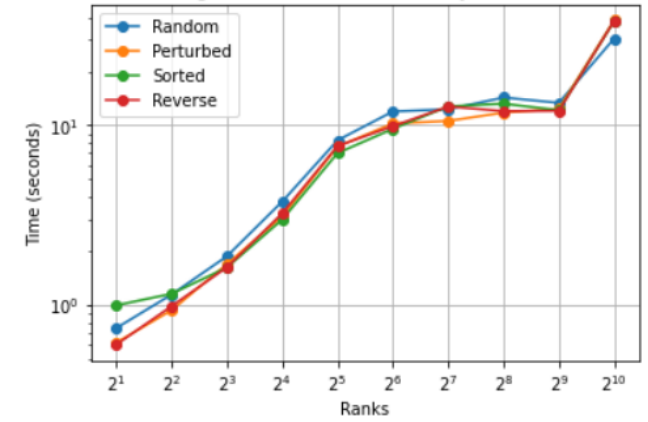
MPI Merge Sort comp\_large Time for Array Size 1048576



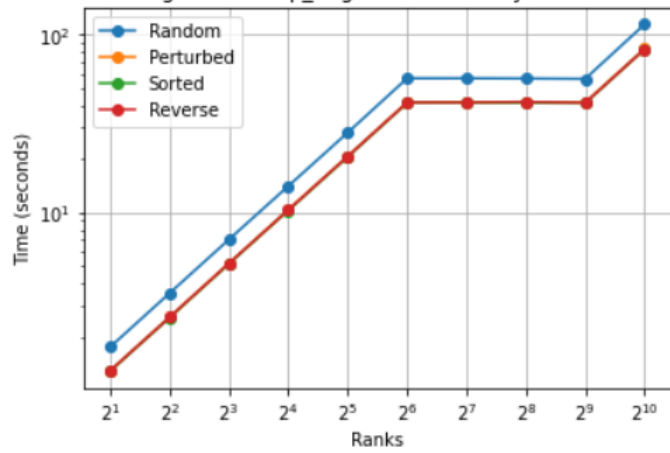
MPI Merge Sort comm Time for Array Size 1048576



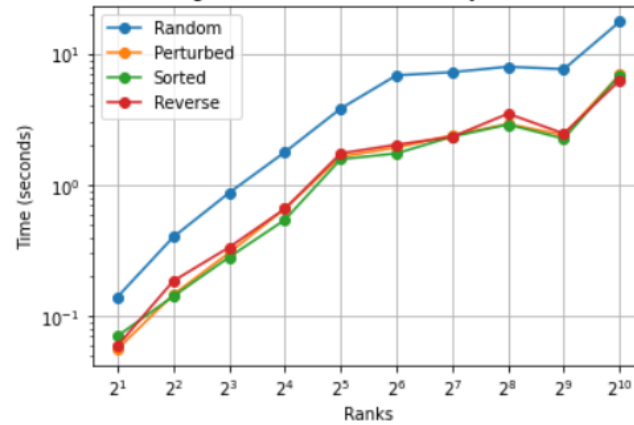
MPI Merge Sort main Time for Array Size 1048576



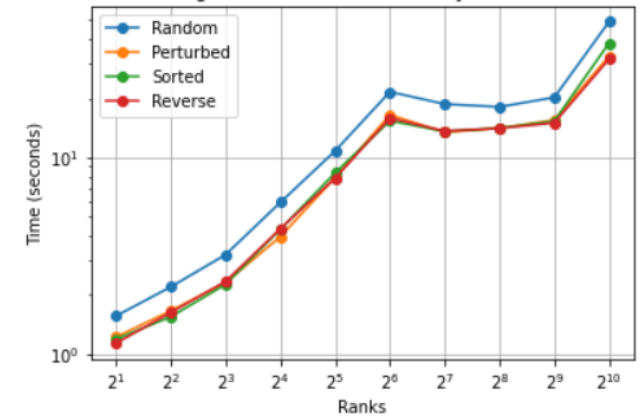
MPI Merge Sort comp\_large Time for Array Size 4194304



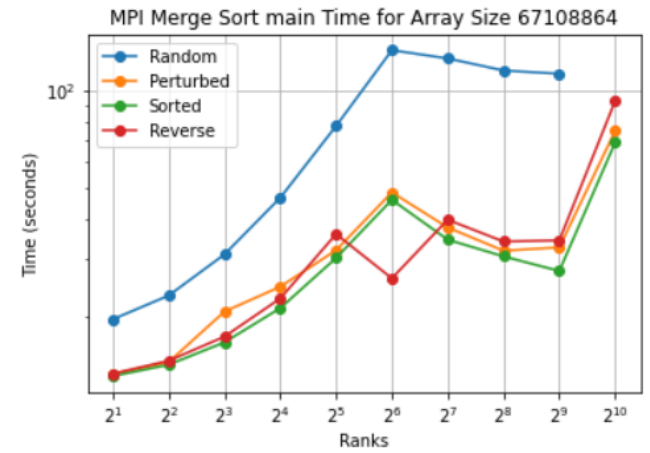
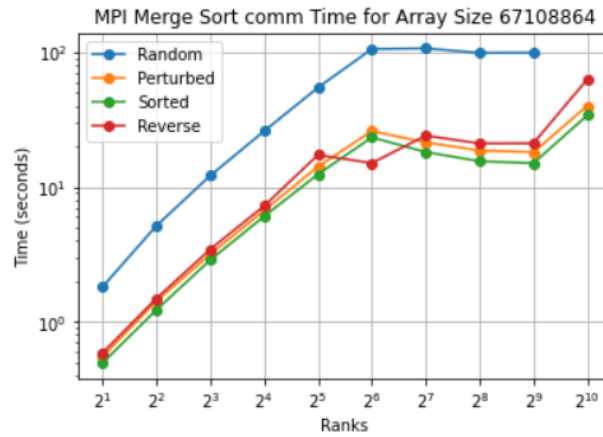
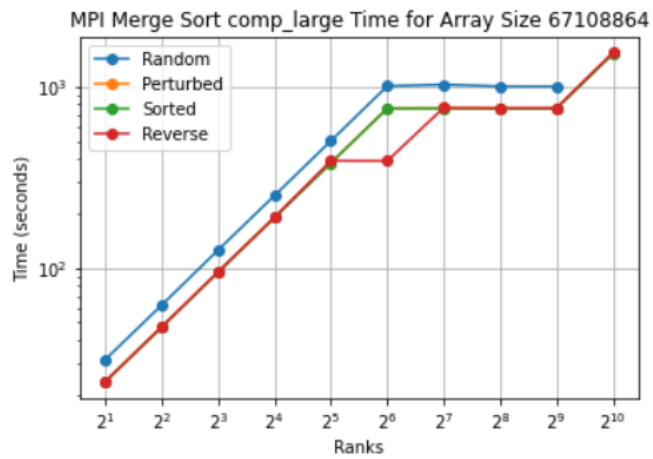
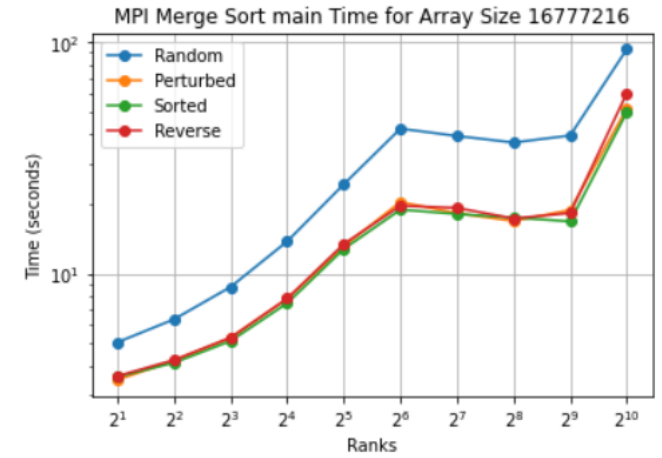
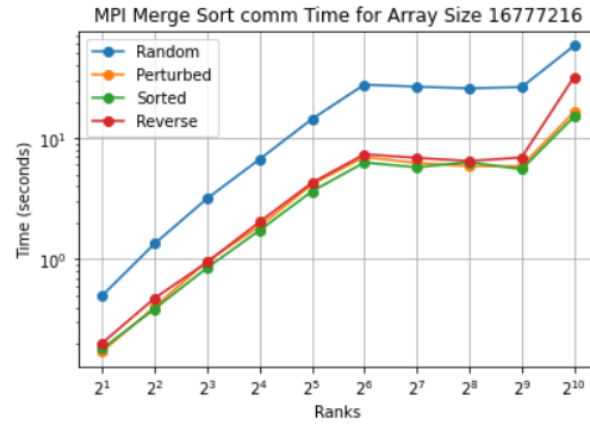
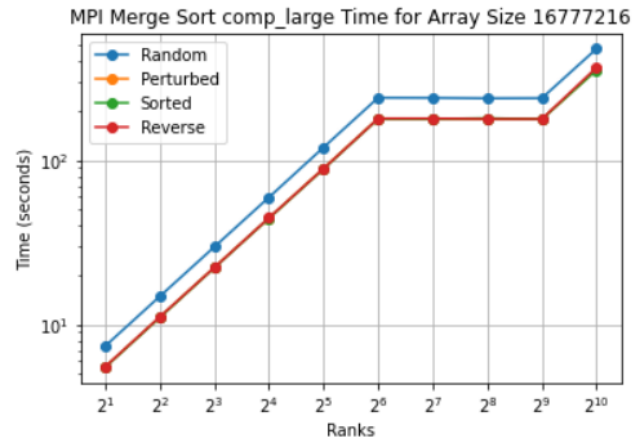
MPI Merge Sort comm Time for Array Size 4194304



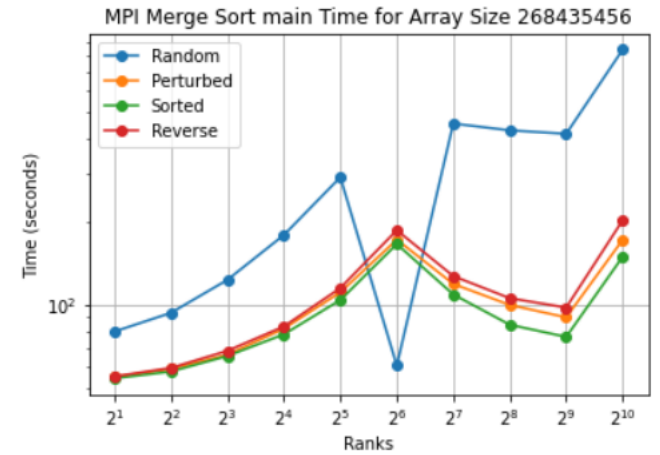
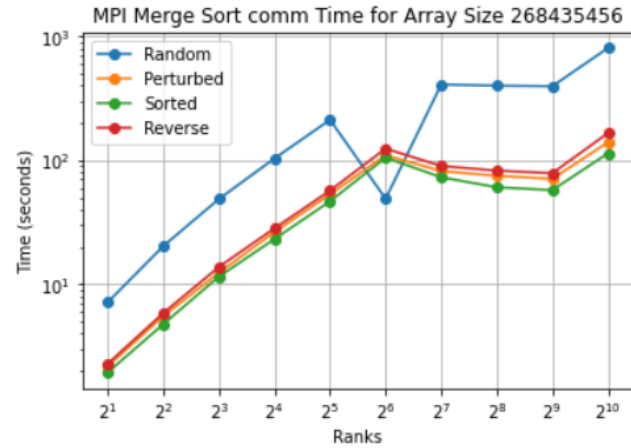
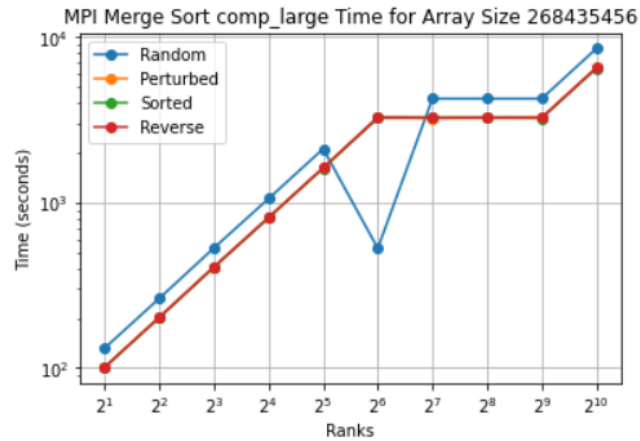
MPI Merge Sort main Time for Array Size 4194304



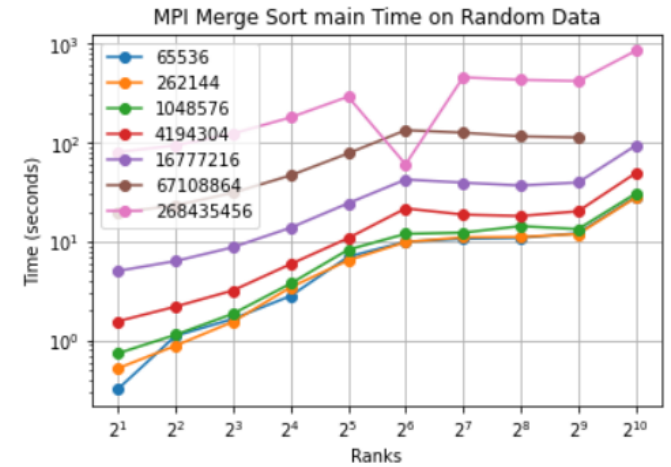
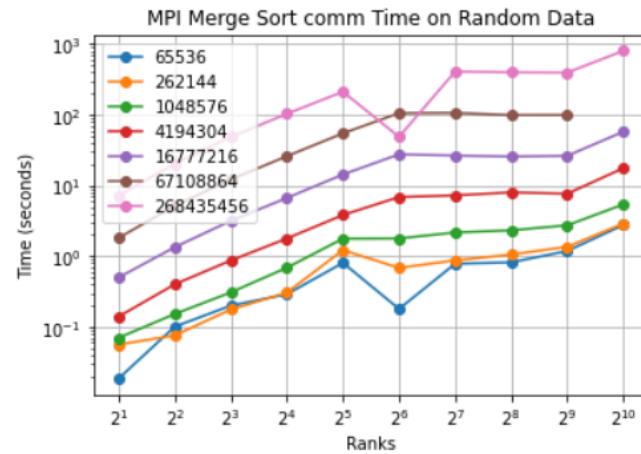
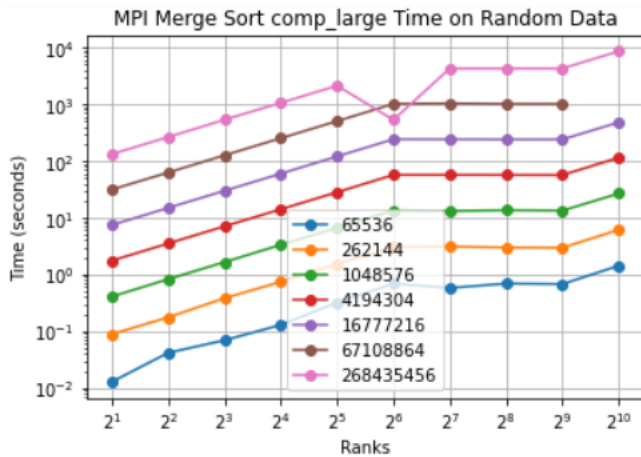
# Merge Sort Plots



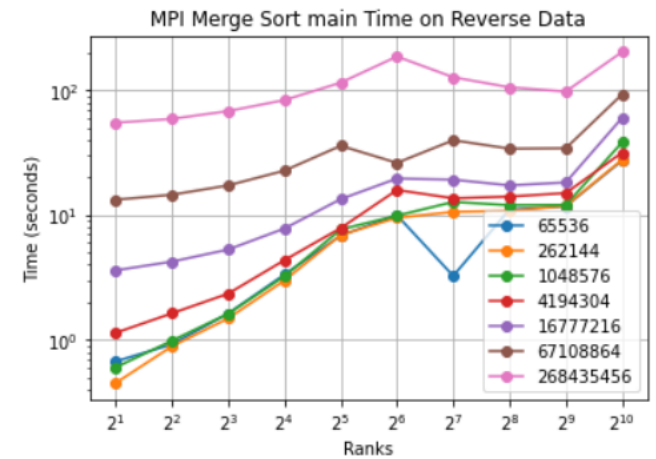
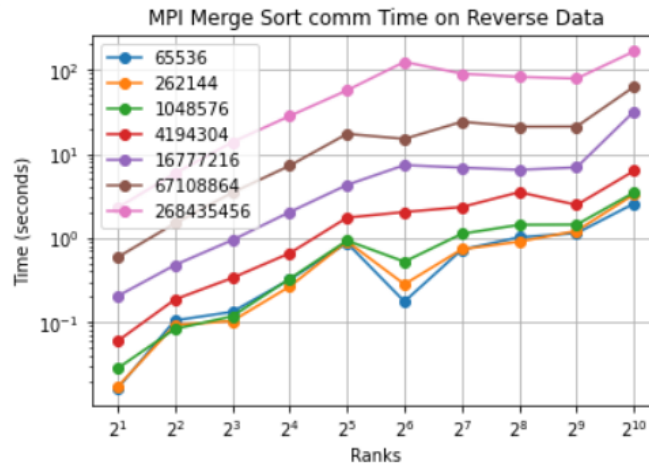
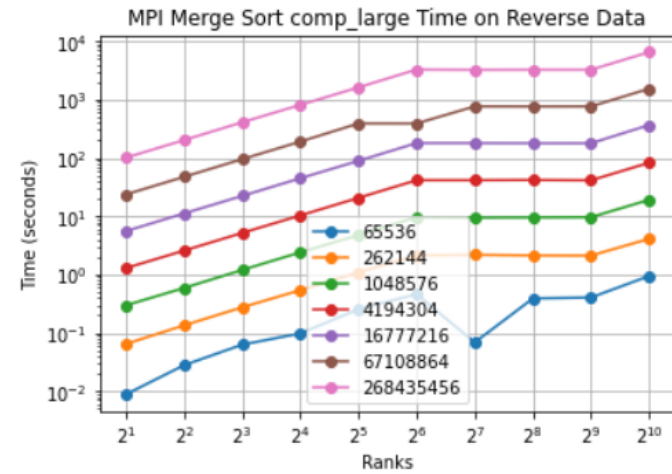
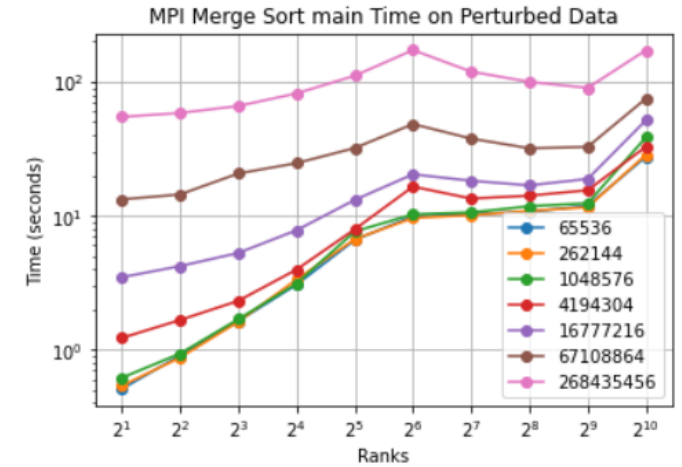
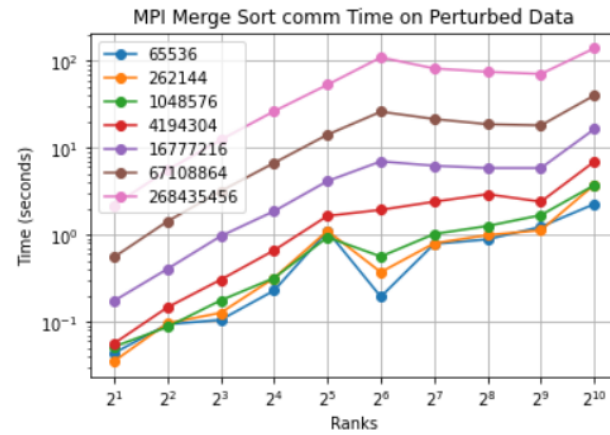
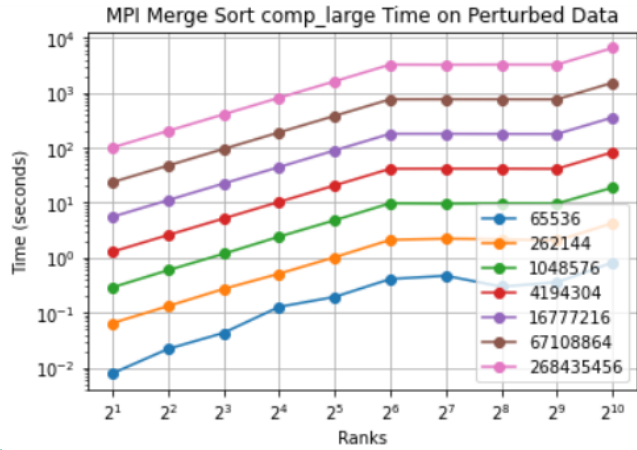
# Merge Sort Plots



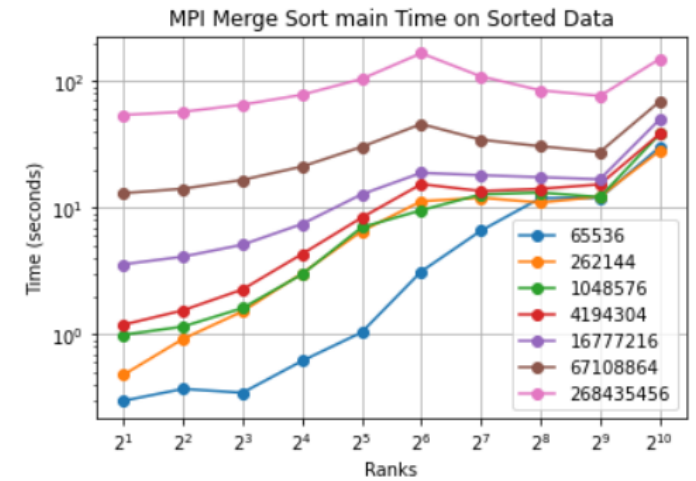
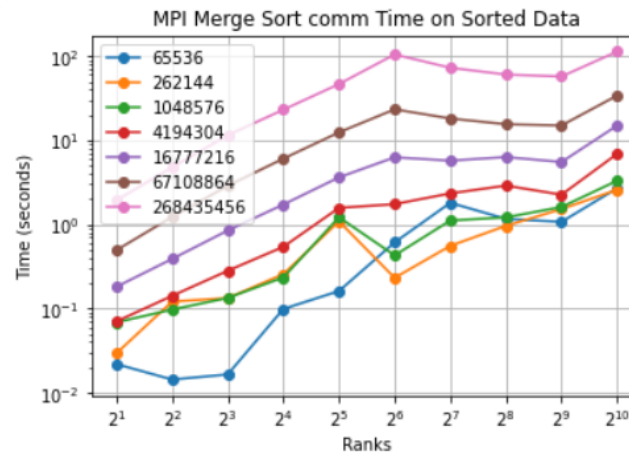
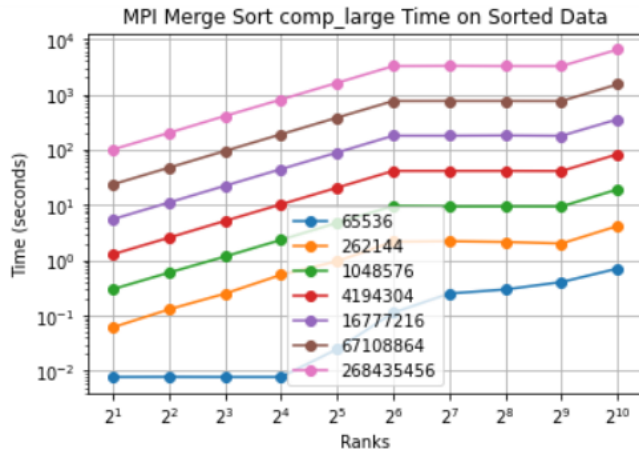
MPI(Weak Scaling):



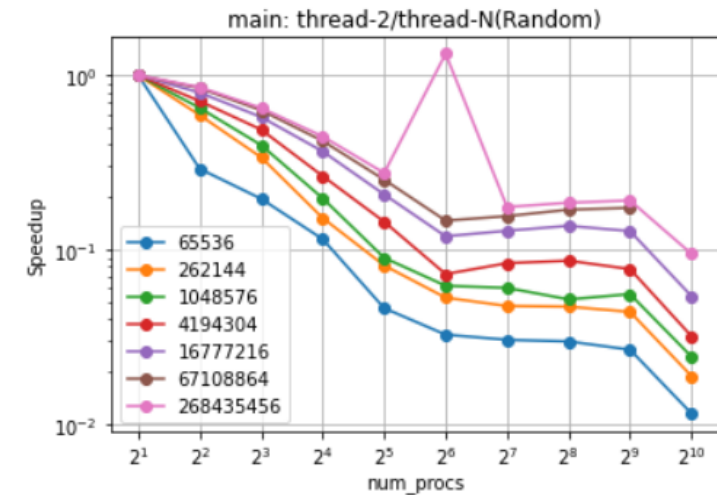
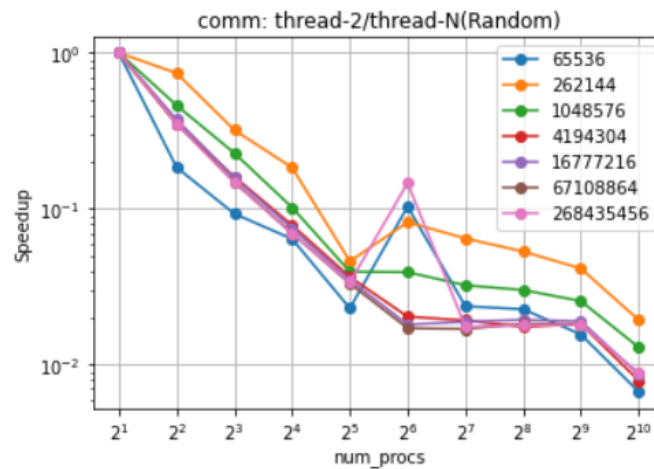
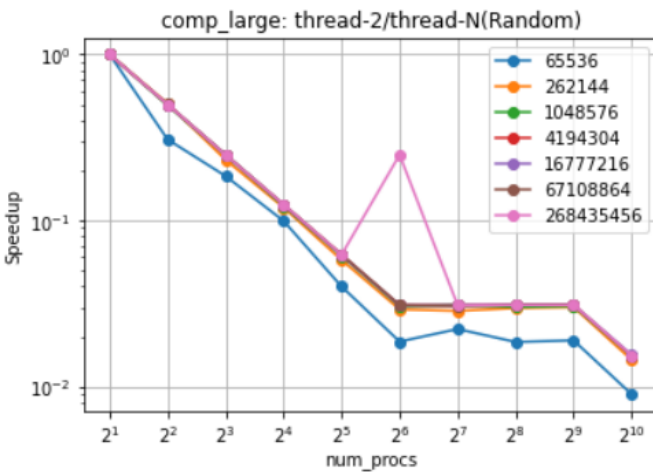
# Merge Sort Plots



# Merge Sort Plots

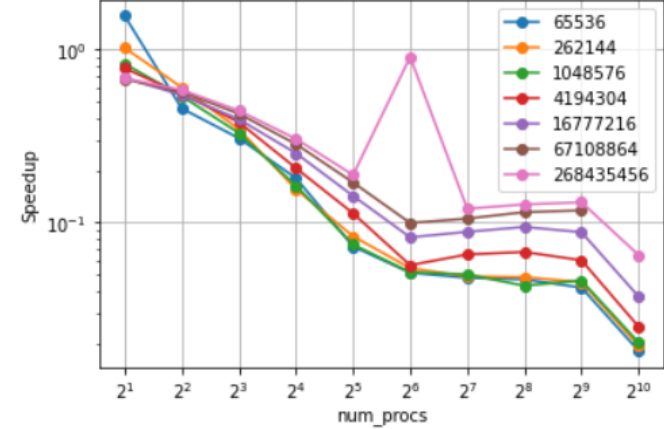
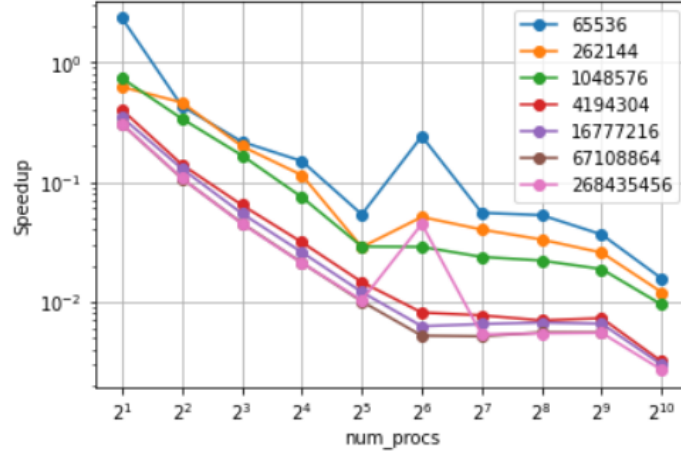
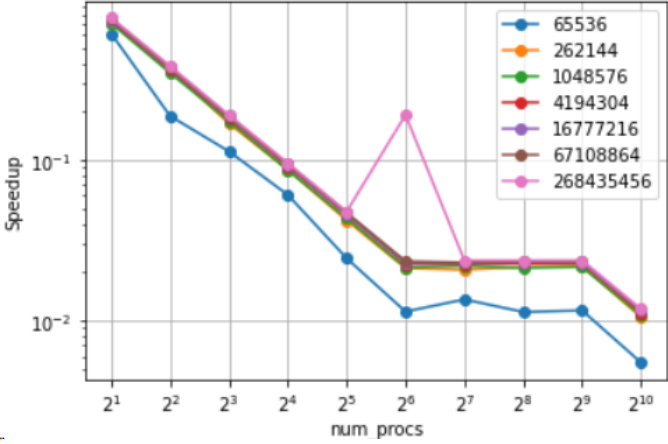
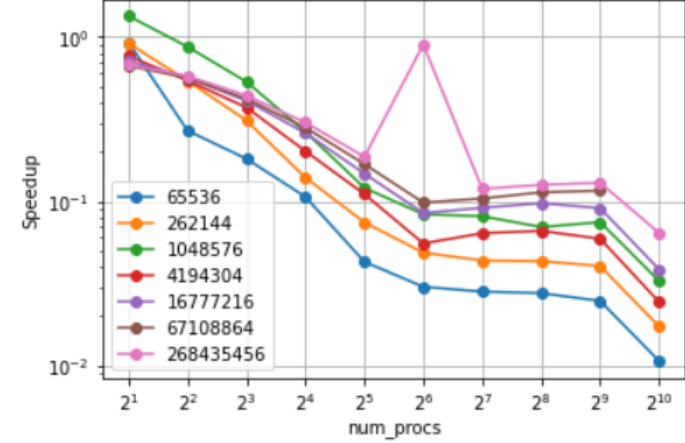
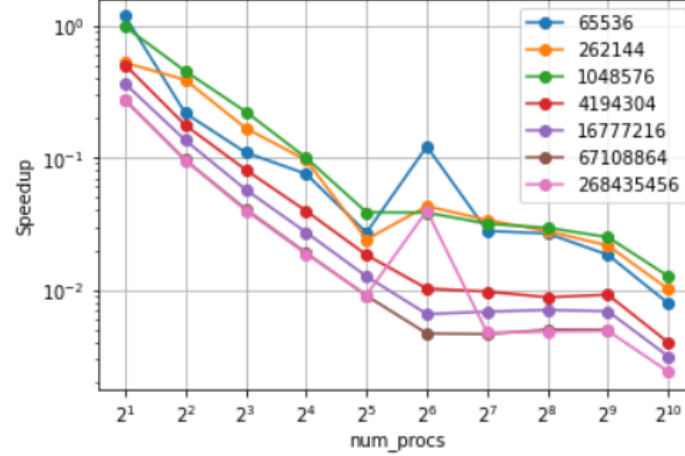
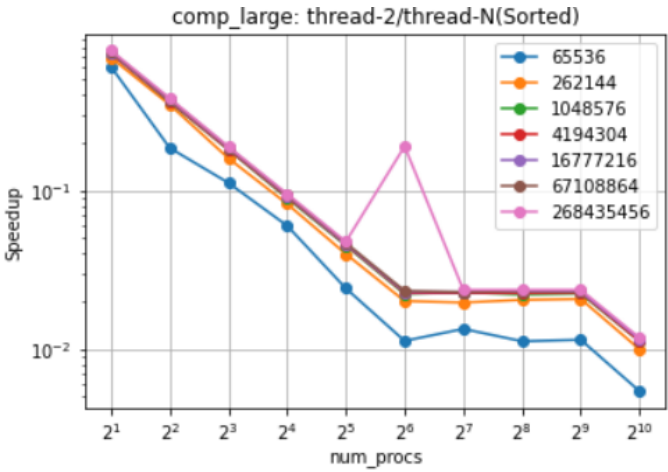


## MPI(Speedup):

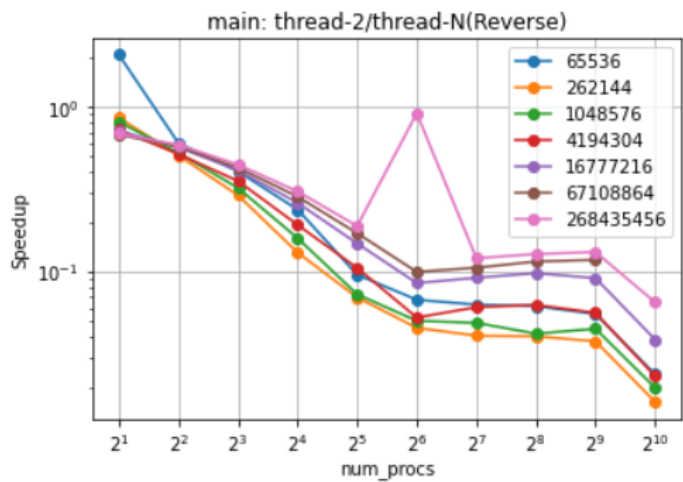
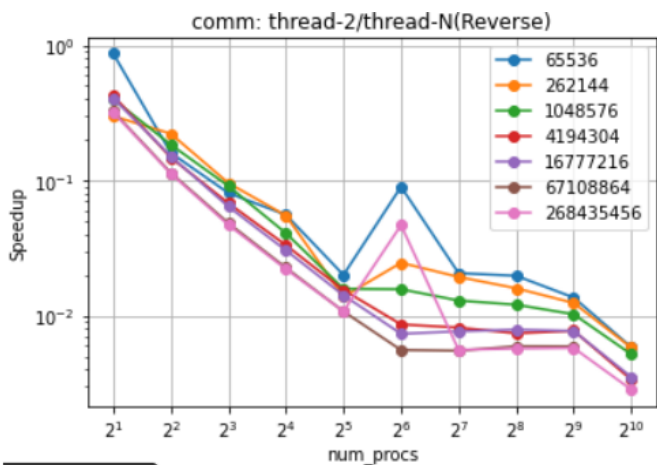
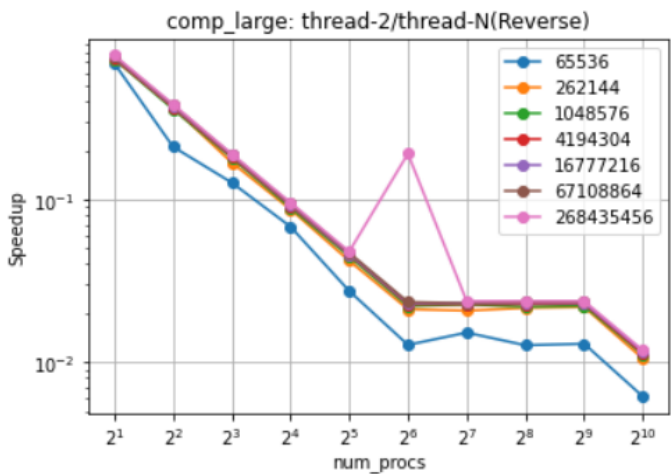




# Merge Sort Plots



# Merge Sort Plots

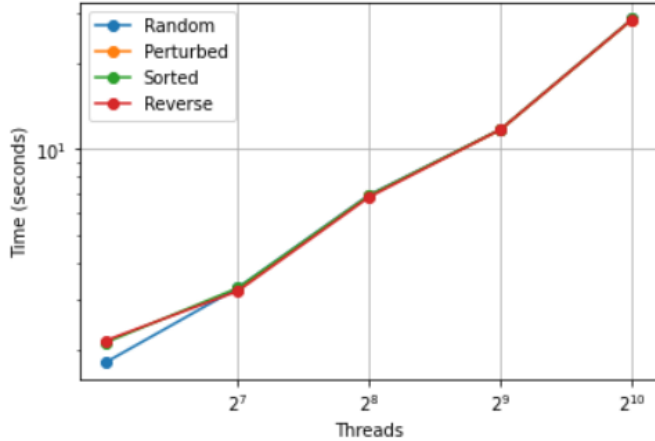




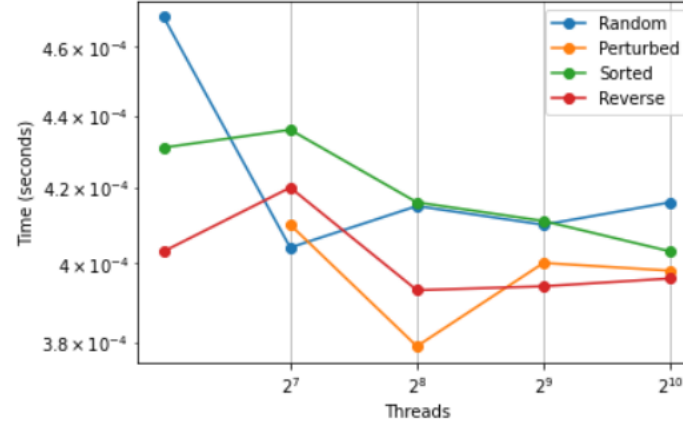
# Merge Sort Plots

## CUDA(Strong Scaling):

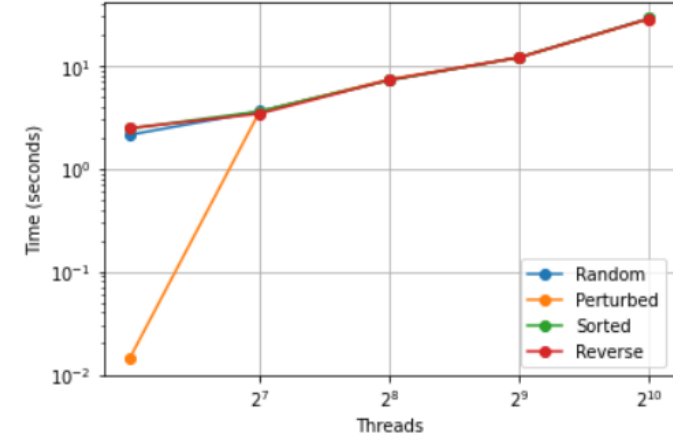
Cuda Merge Sort comp\_large Time for Array Size 65536



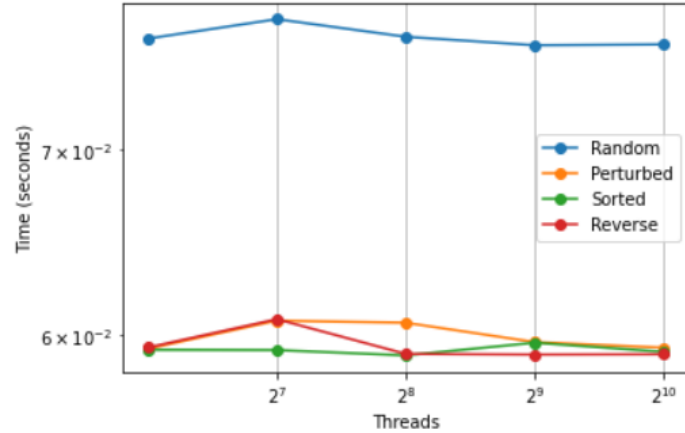
Cuda Merge Sort comm Time for Array Size 65536



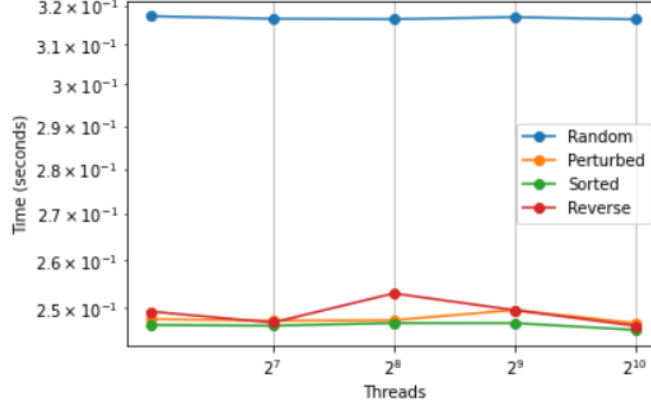
Cuda Merge Sort main Time for Array Size 65536



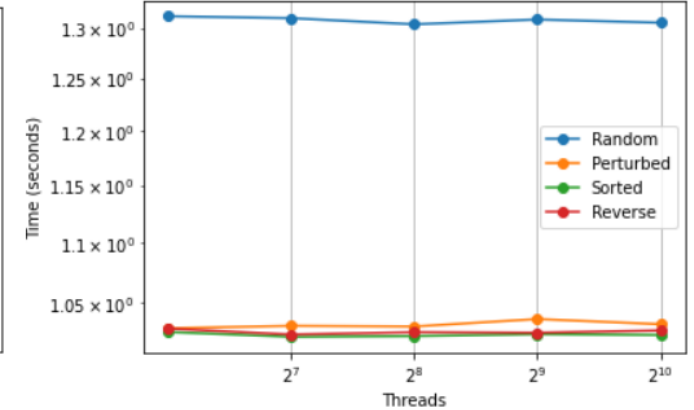
Cuda Merge Sort main Time for Array Size 262144



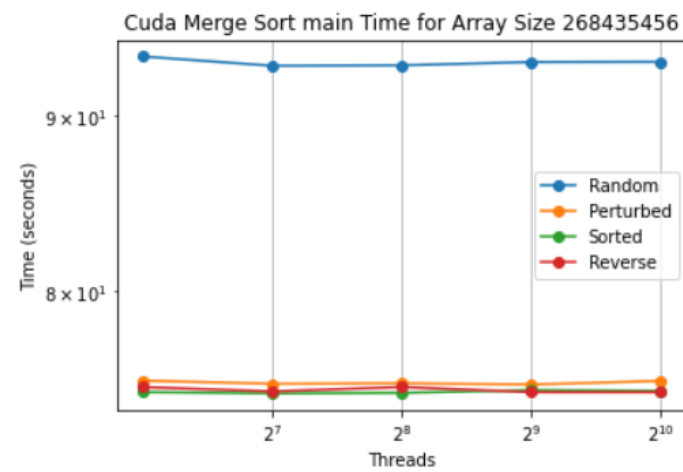
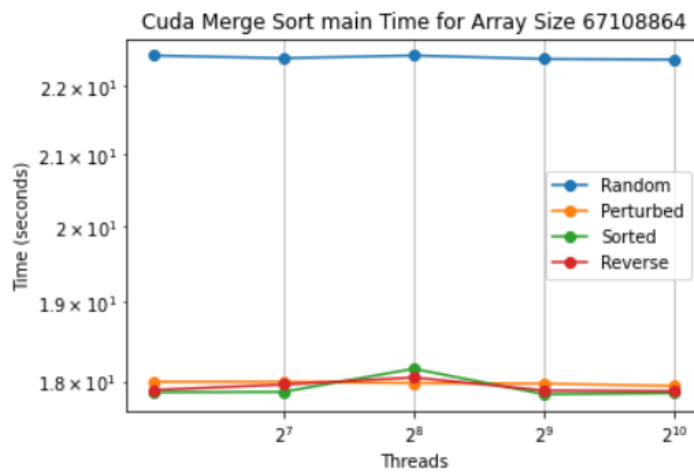
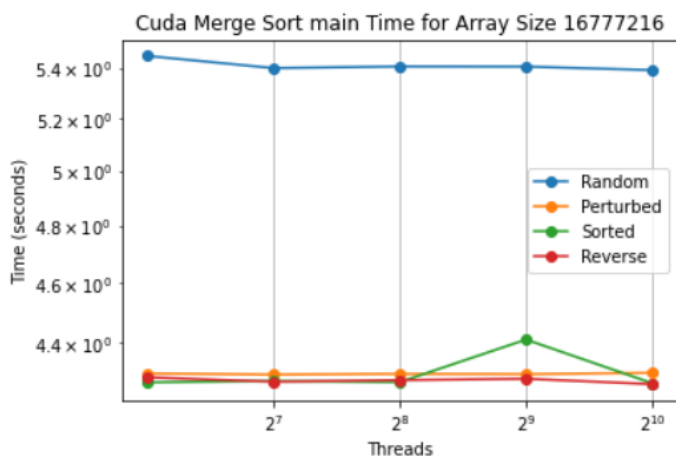
Cuda Merge Sort main Time for Array Size 1048576



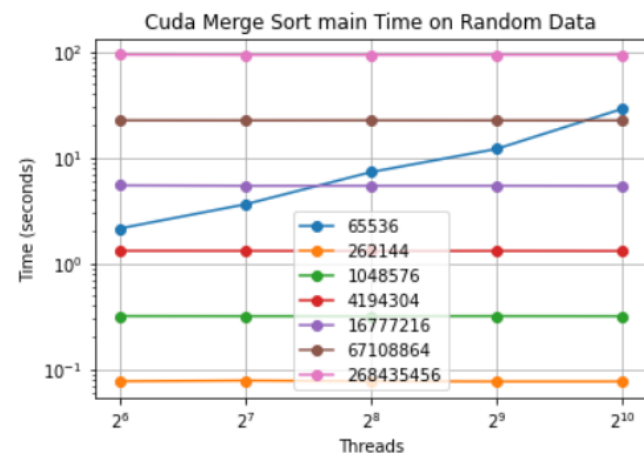
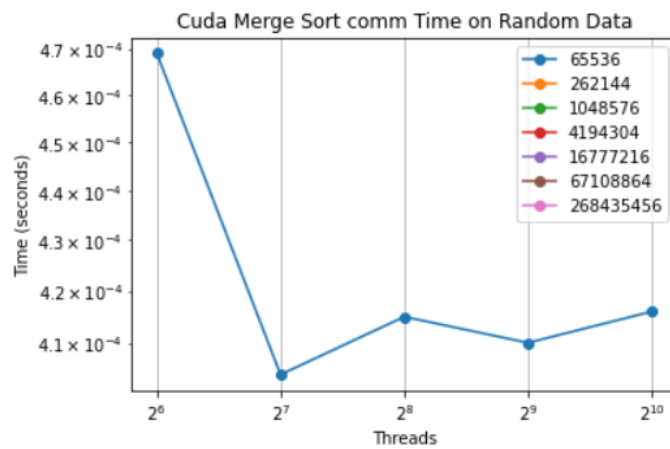
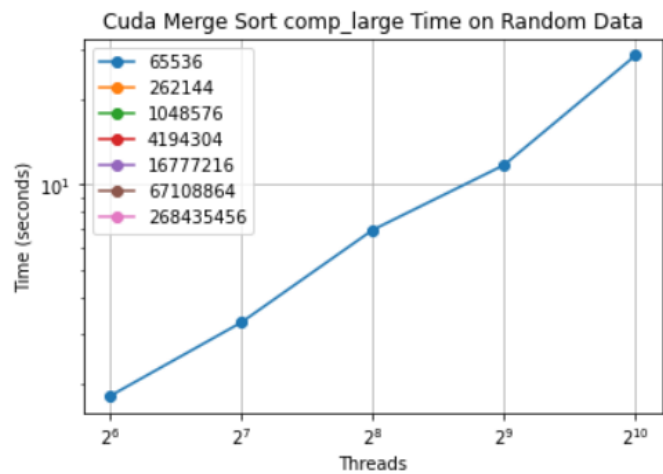
Cuda Merge Sort main Time for Array Size 4194304



# Merge Sort Plots

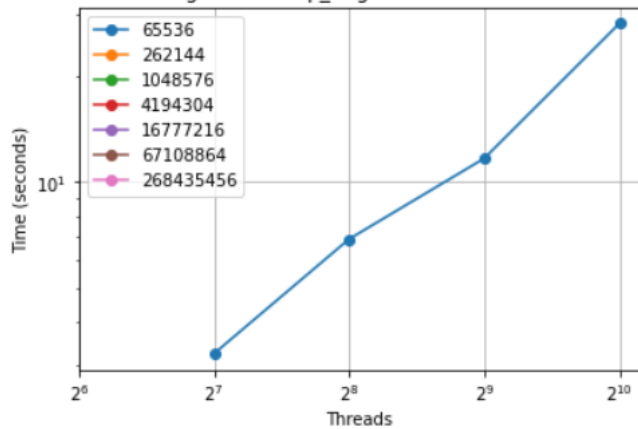


CUDA(Weak Scale):

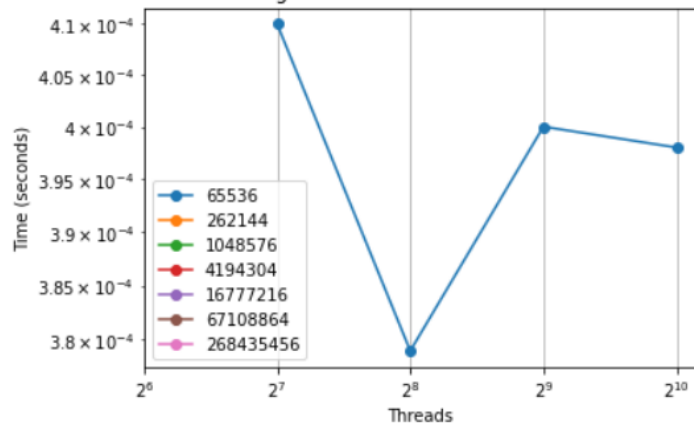


# Merge Sort Plots

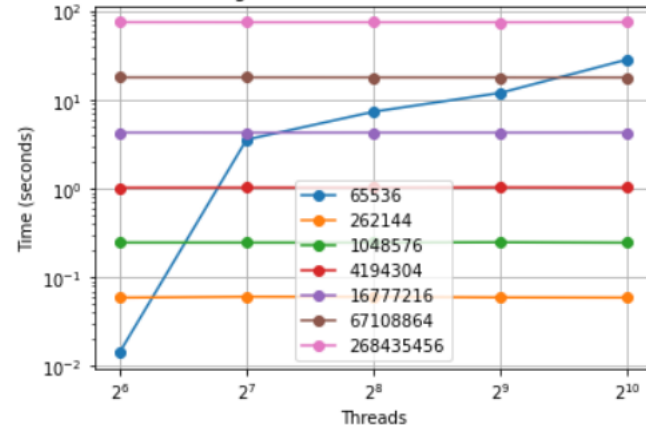
Cuda Merge Sort comp\_large Time on Perturbed Data



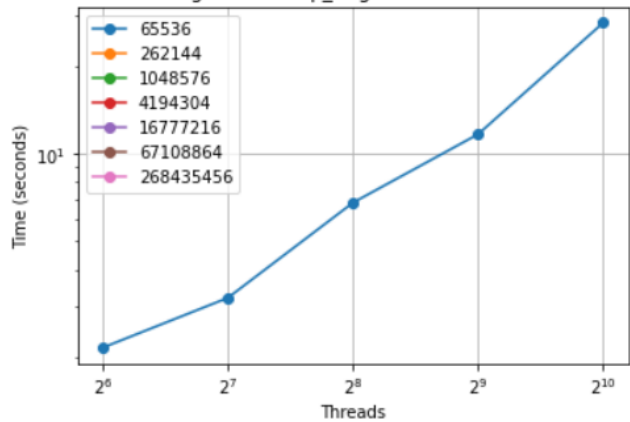
Cuda Merge Sort comm Time on Perturbed Data



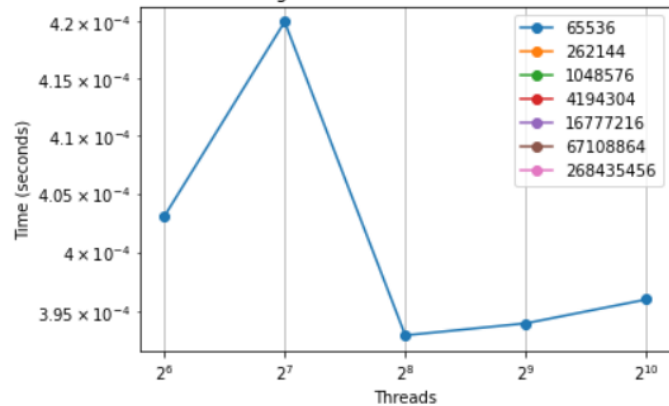
Cuda Merge Sort main Time on Perturbed Data



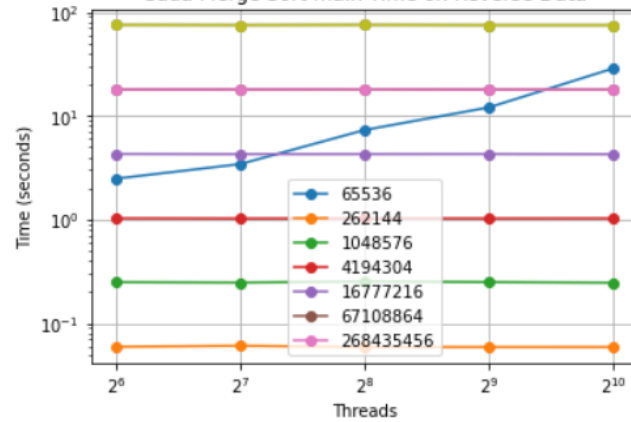
Cuda Merge Sort comp\_large Time on Reverse Data



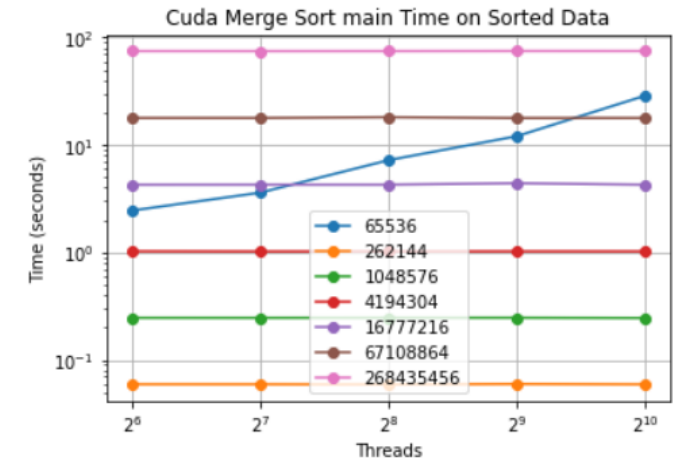
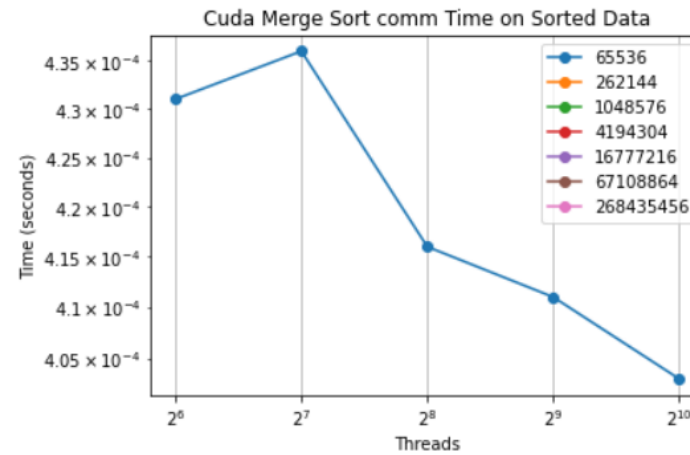
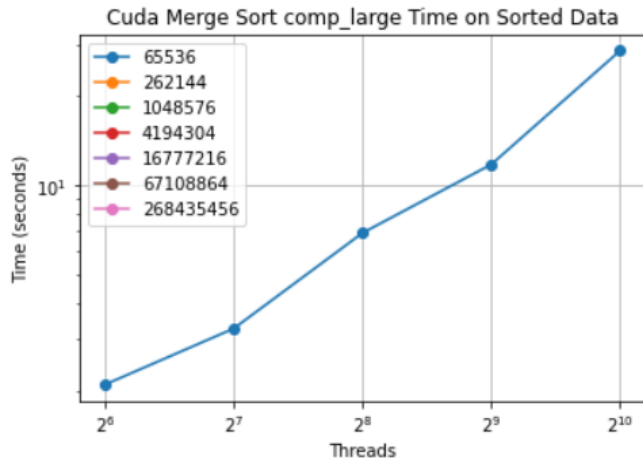
Cuda Merge Sort comm Time on Reverse Data



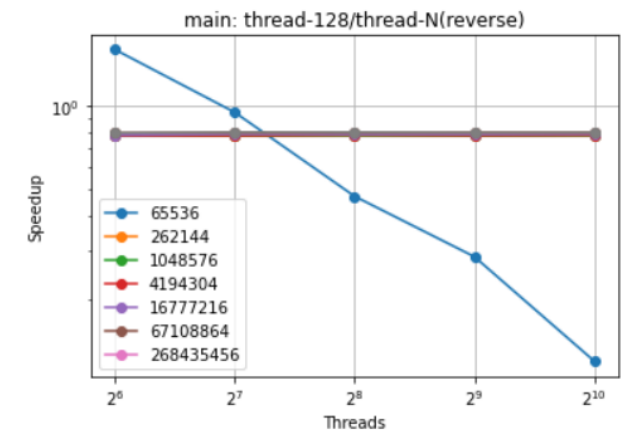
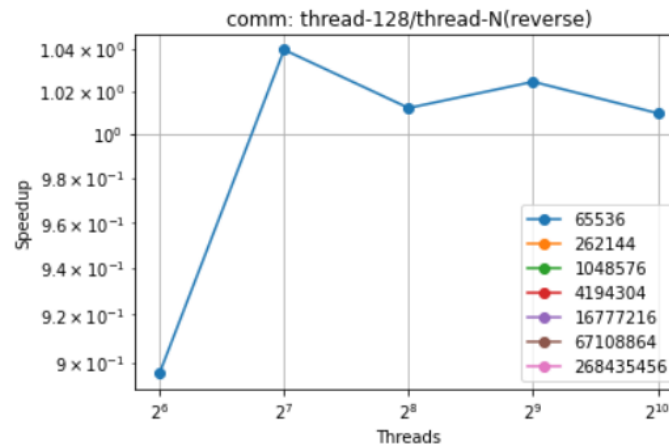
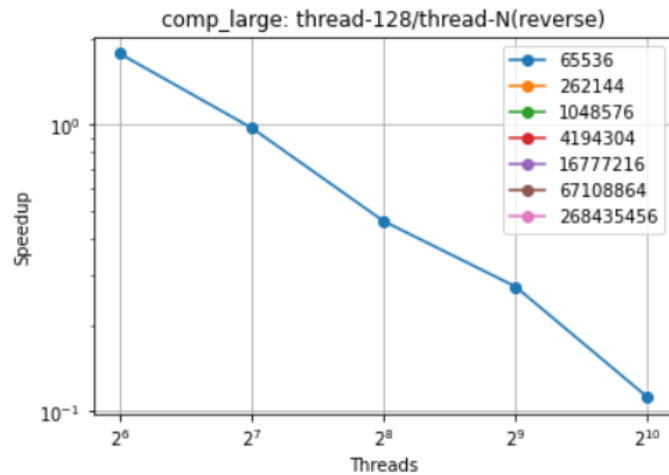
Cuda Merge Sort main Time on Reverse Data



# Merge Sort Plots



## CUDA(Speed-Up):



# Merge Sort Plots

