

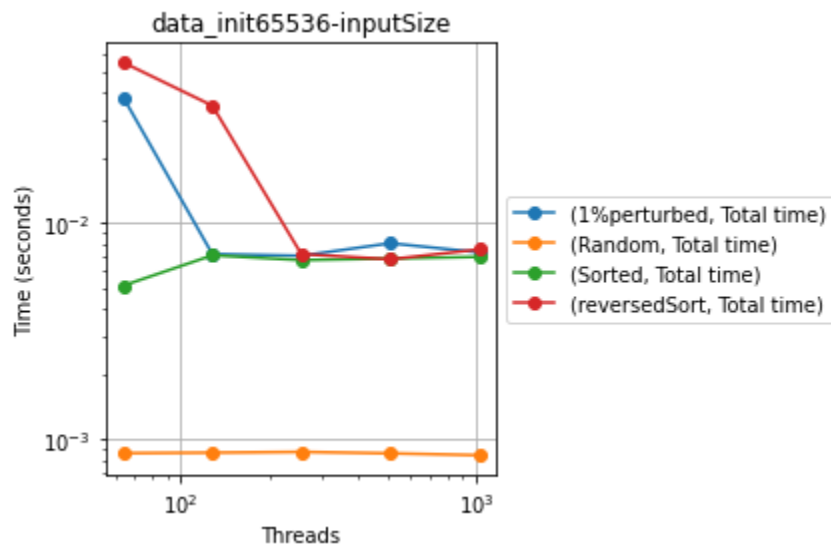
Radix

Cuda

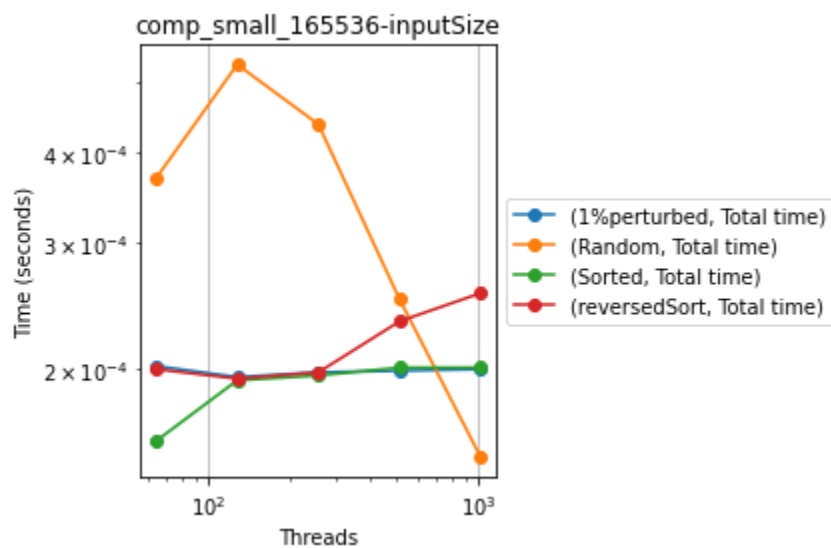
Strong Scaling:

Graphed for input size = 65536

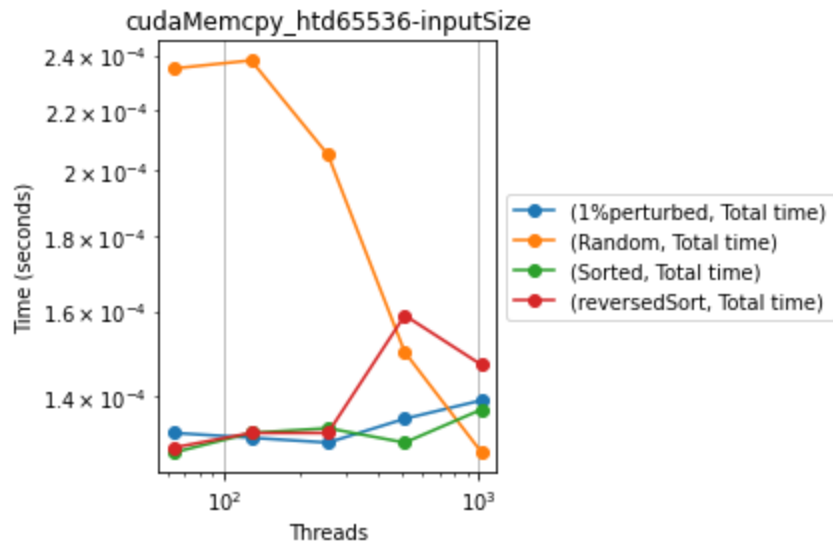
1. Data init



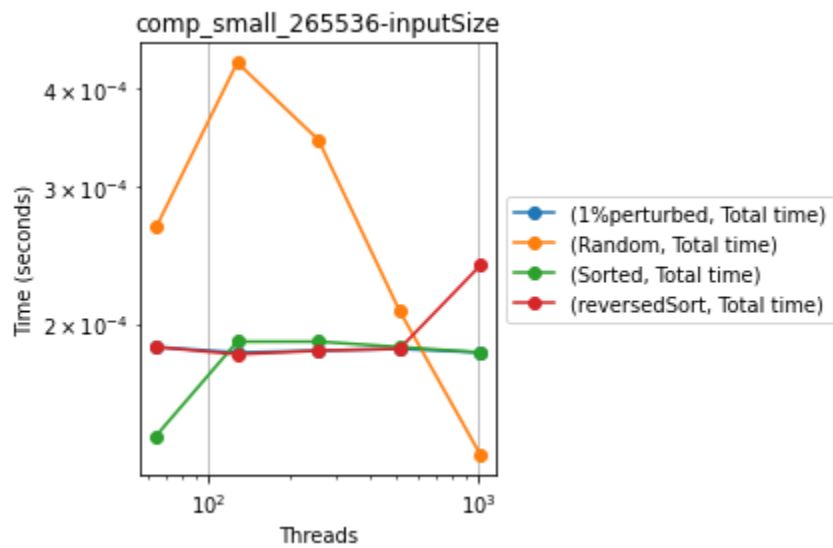
2. Comp small 1



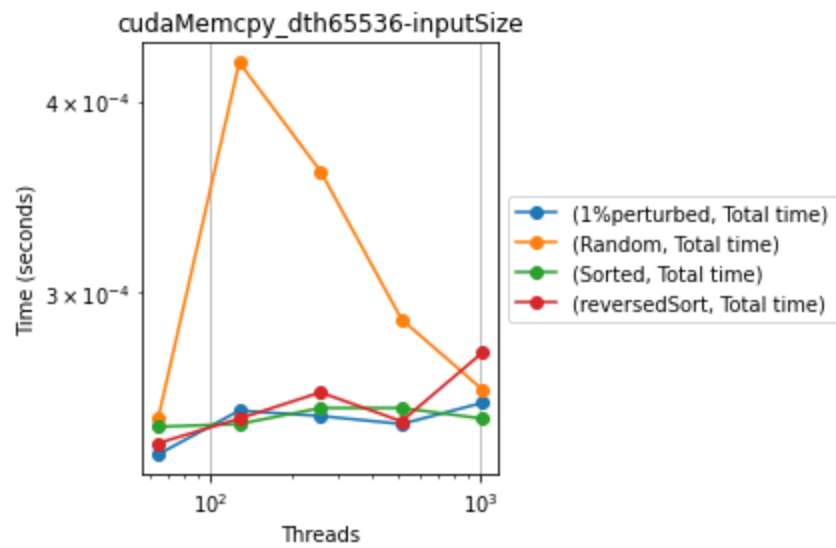
3. cudaMemcpy_htd - host to device



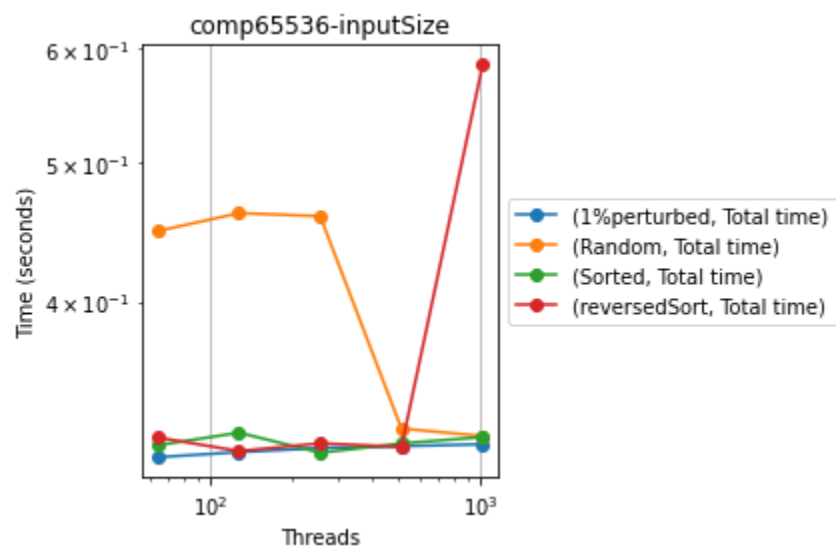
4. Comp small 2



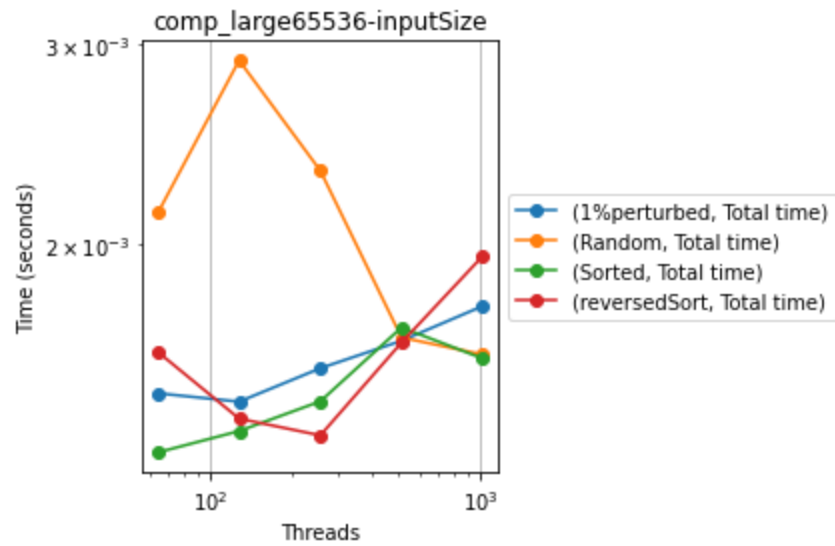
5. cudamemcpy_dth - device to host



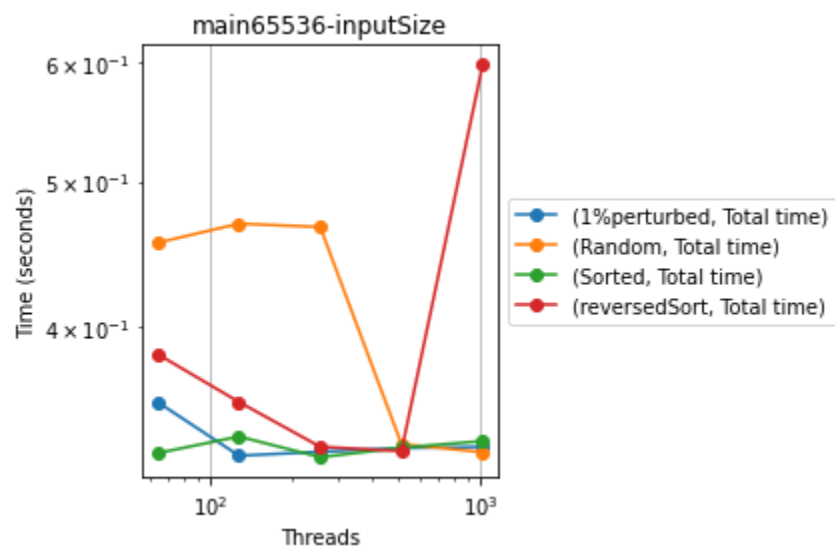
6. Comp



7. Comp large



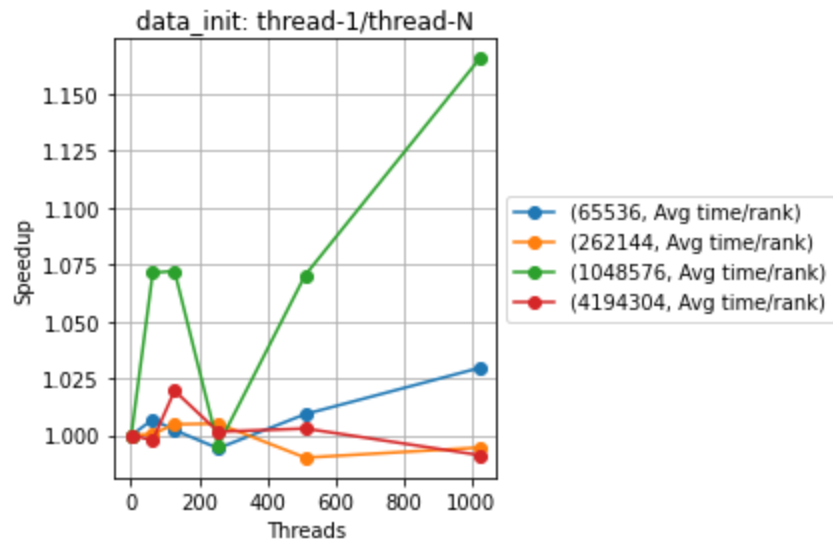
8. Main



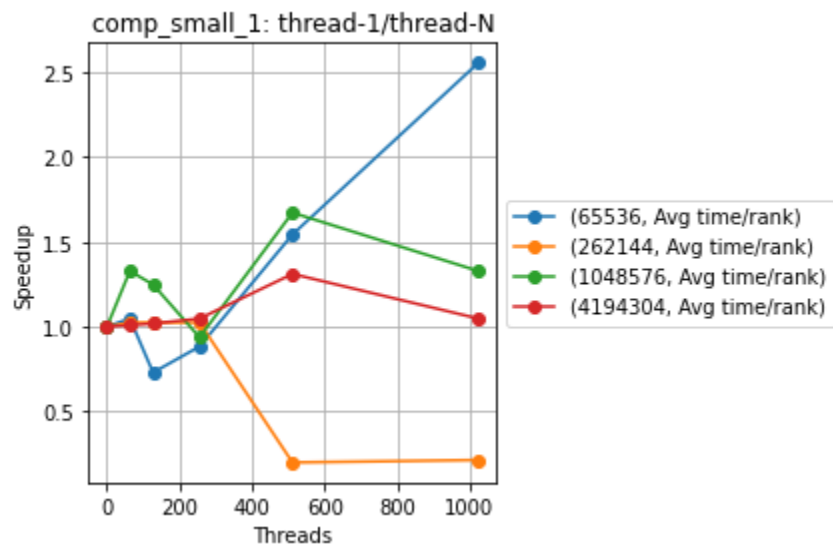
Speed up:

Graphed Random Data set

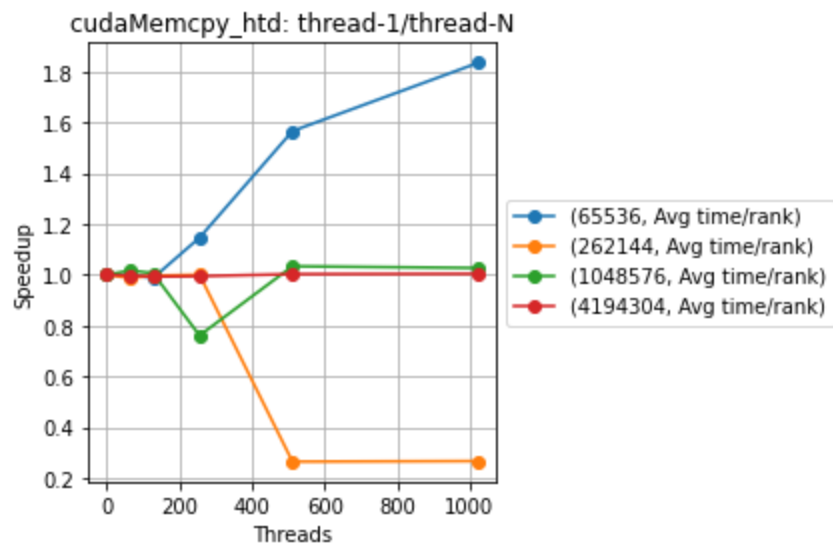
1. Data init



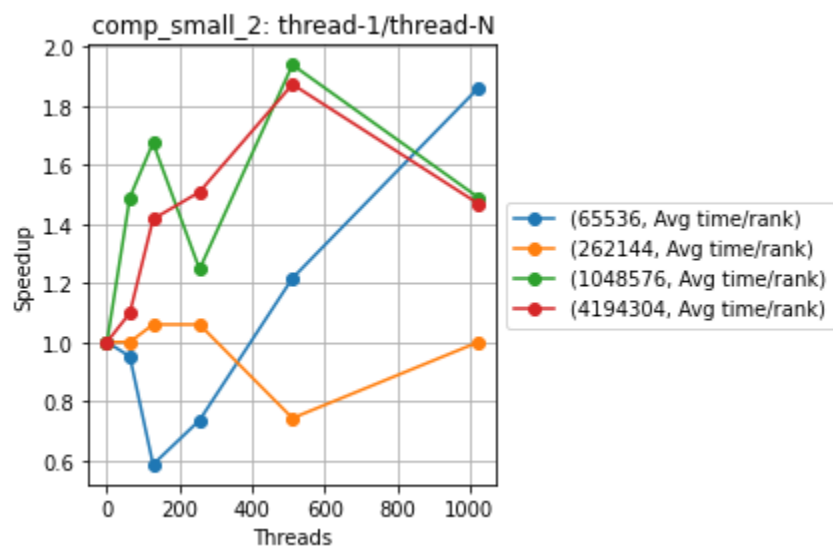
2. Comp small 1



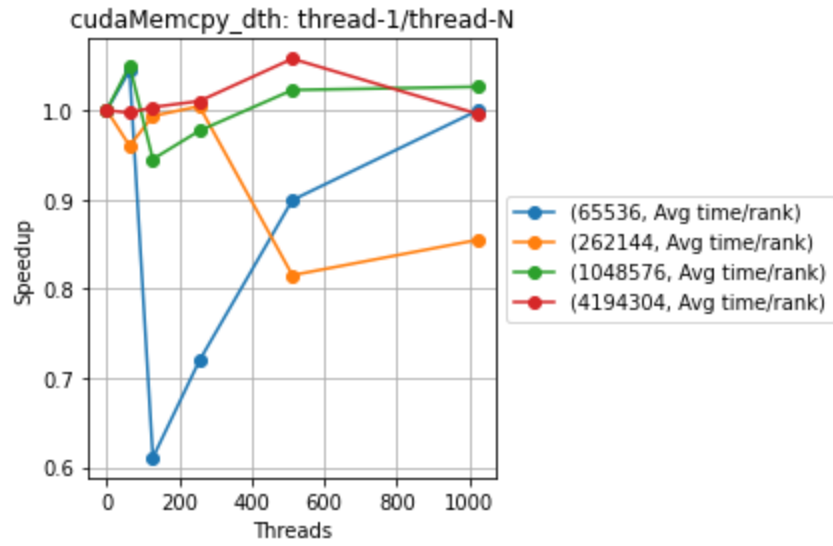
3. cudaMemcpy_htd - host to device



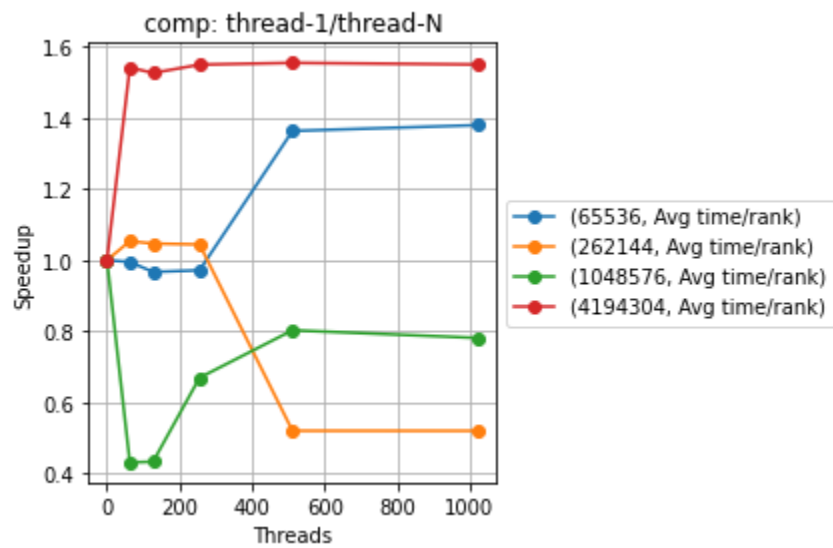
4. Comp small 2



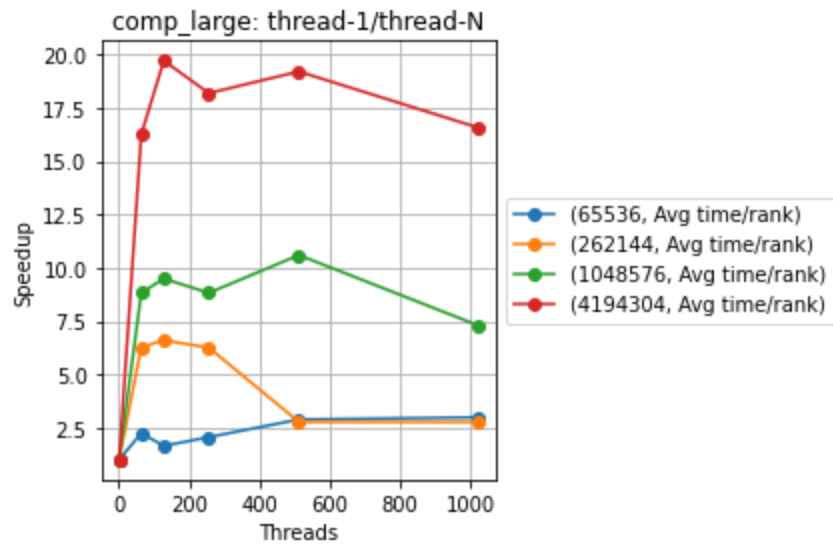
5. cudamemcpy_dth - device to host



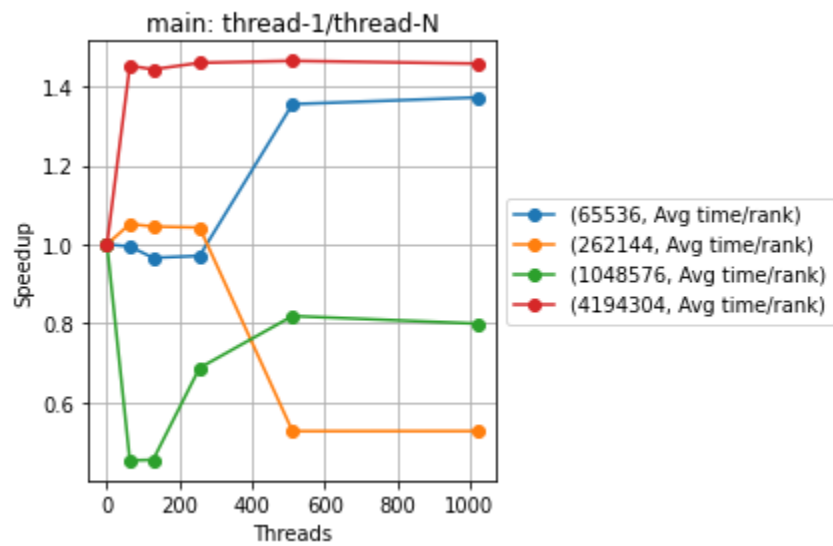
6. Comp



7. Comp large



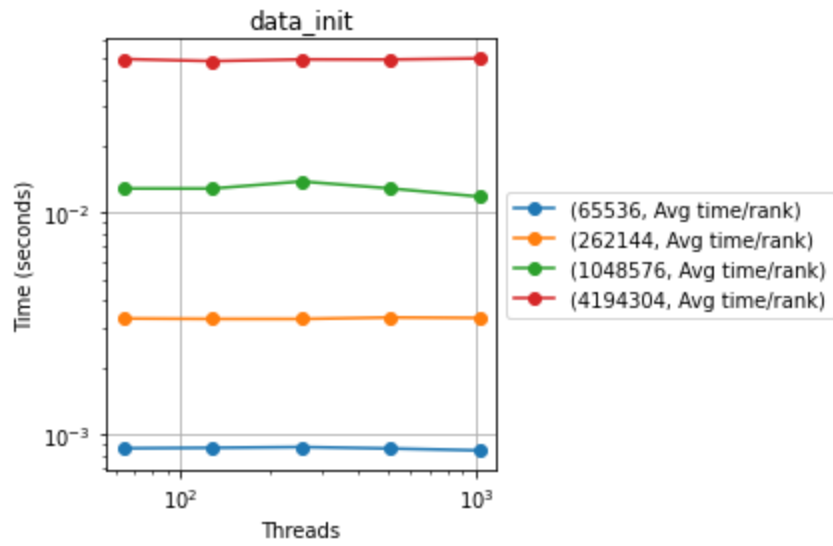
8. Main



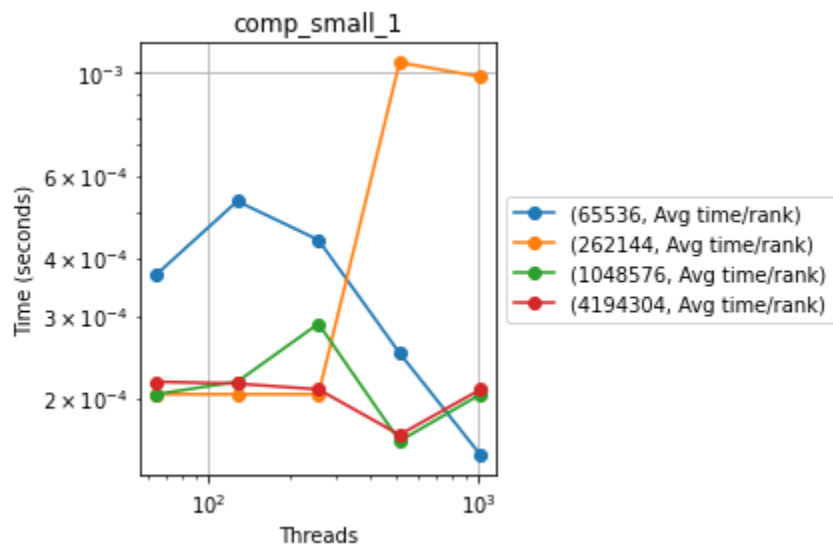
Weak Scaling:

Done with Random Data Set

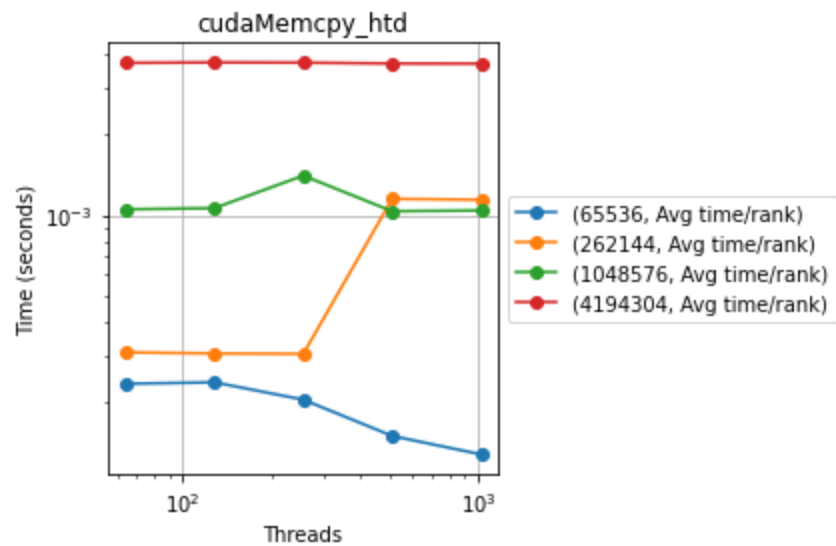
1. Data init



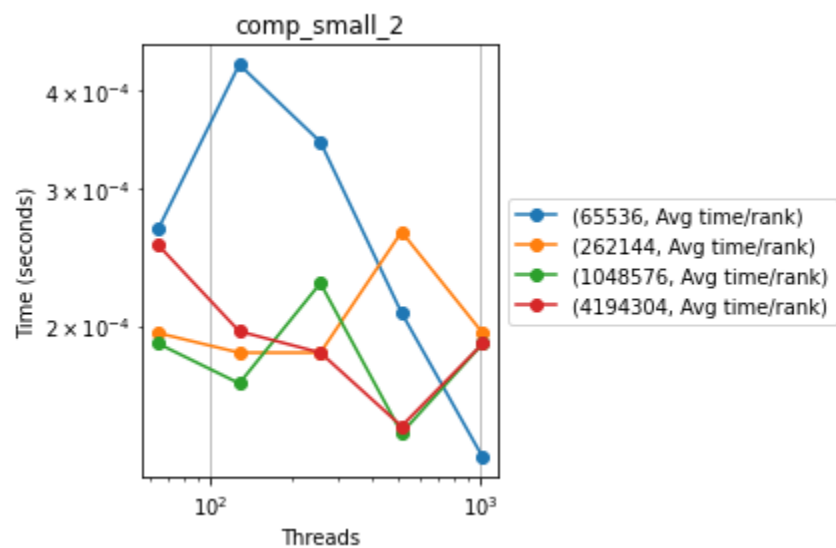
2. Comp small 1



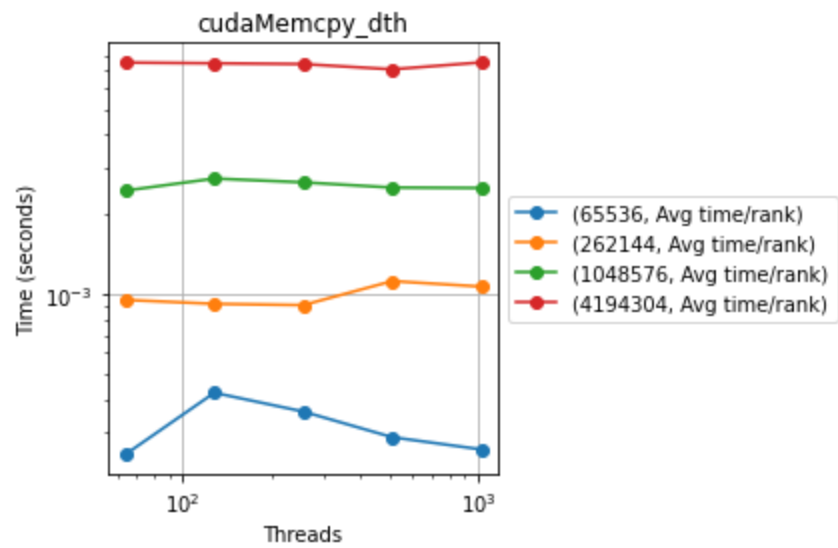
3. cudaMemcpy_htd - host to device



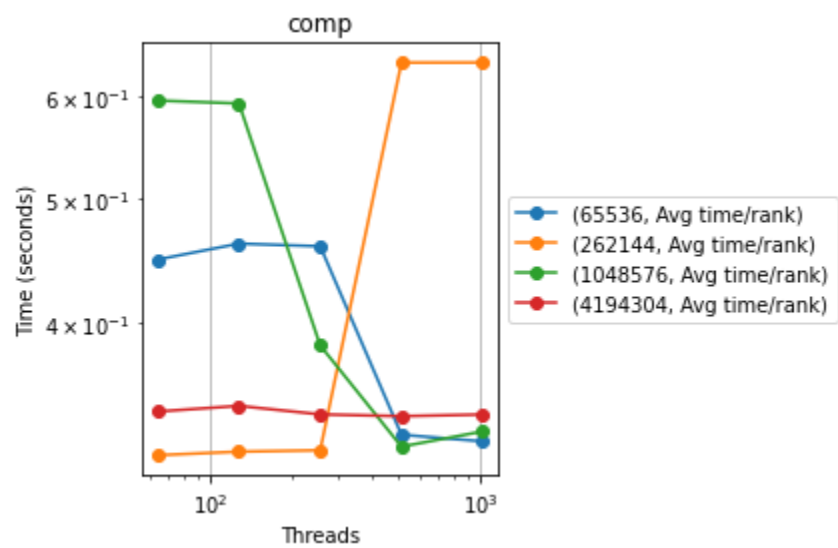
4. Comp small 2



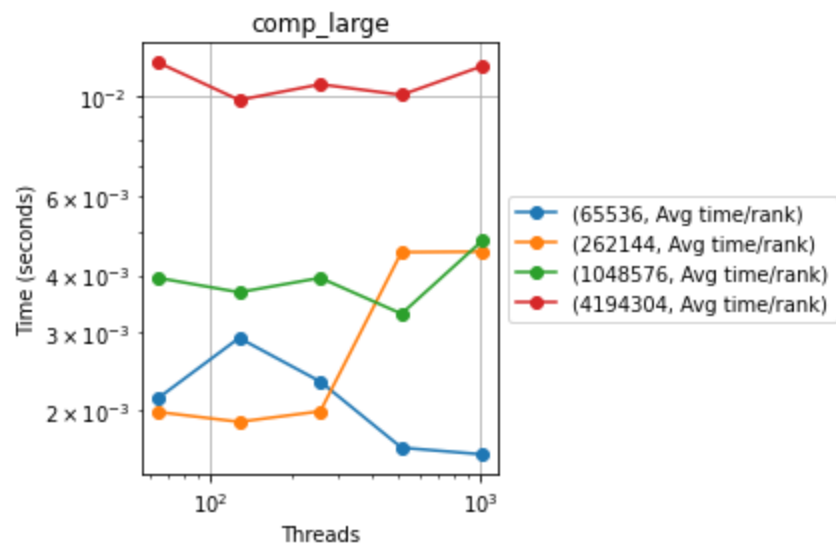
5. cudamemcpy_dth - device to host



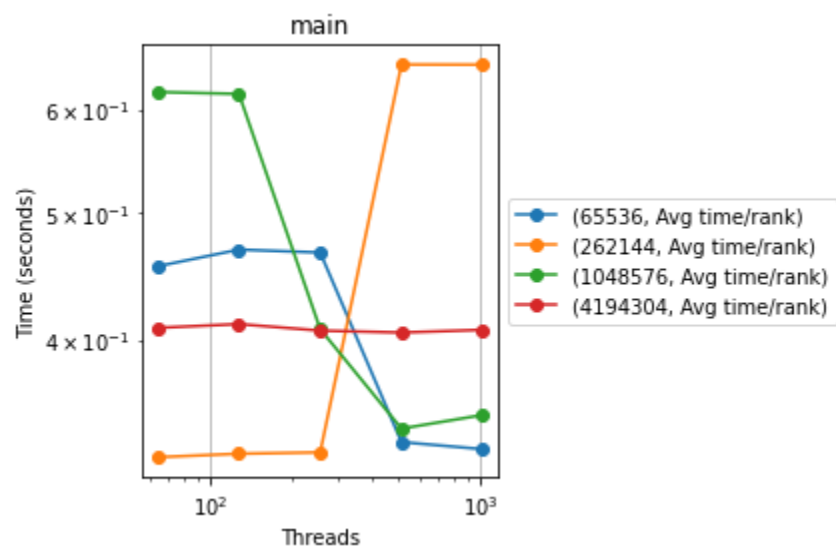
6. Comp



7. Comp large



8. Main

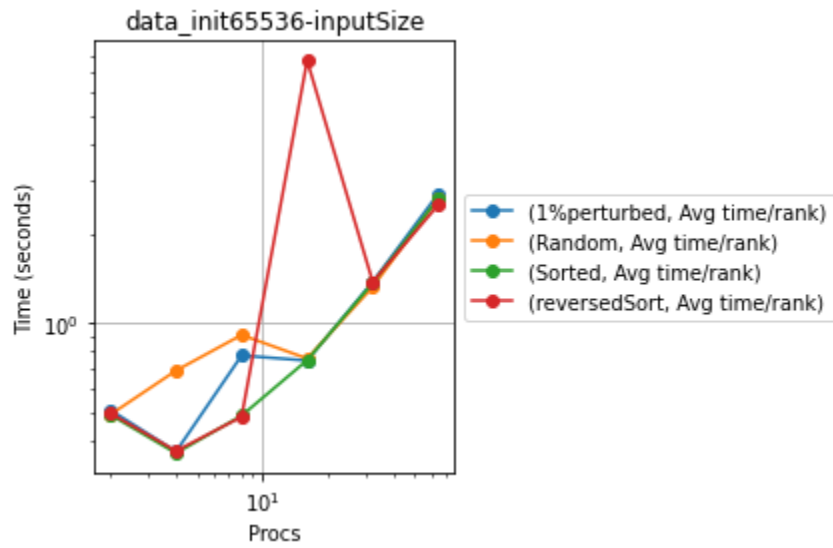


MPI

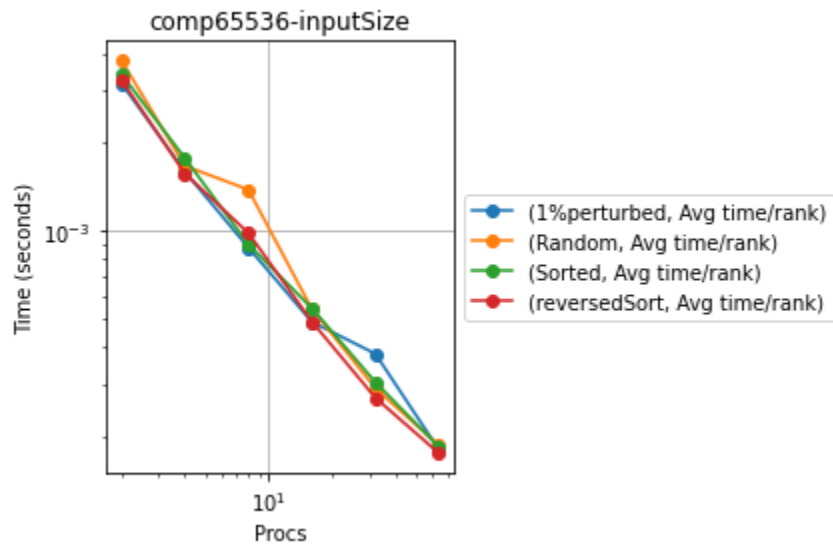
Strong Scaling:

Input Size = 63356

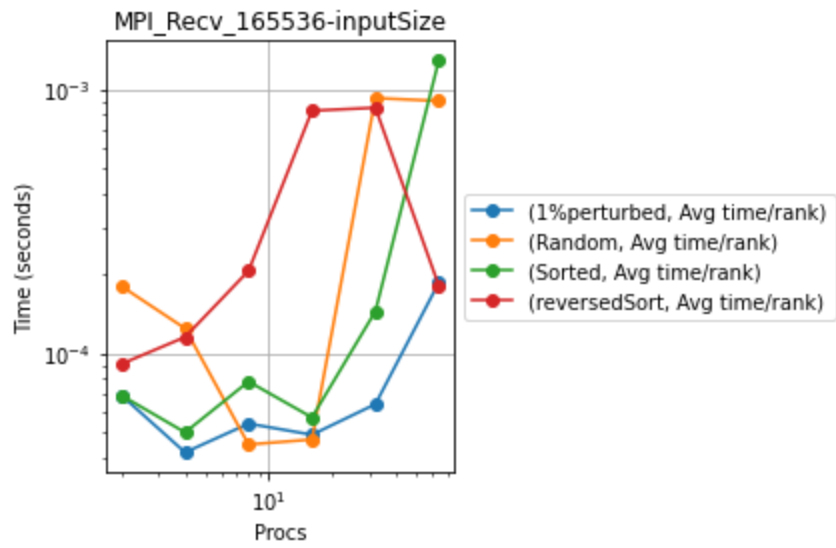
1. Data init



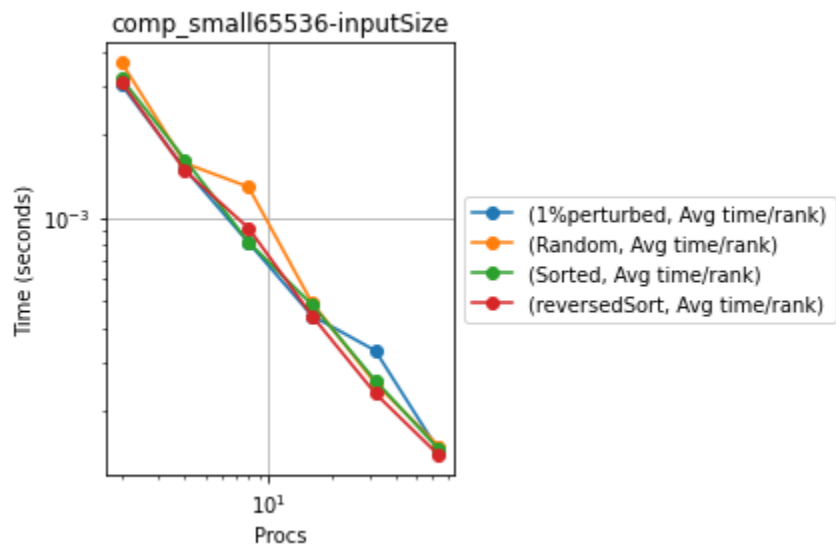
2. Comp



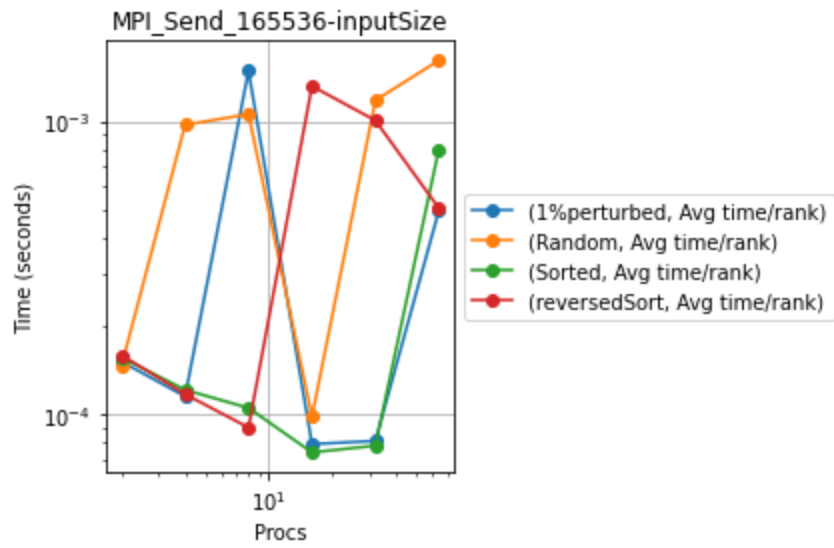
3. MPI Recv 1



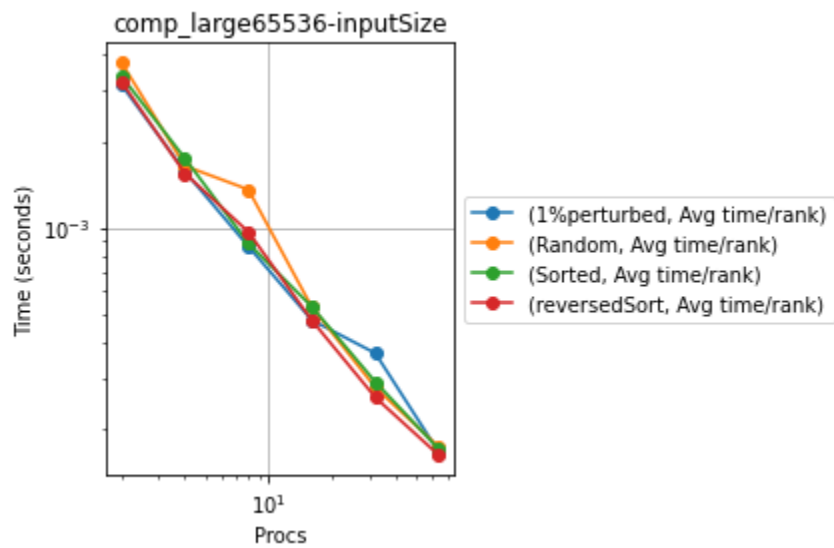
4. Comp small



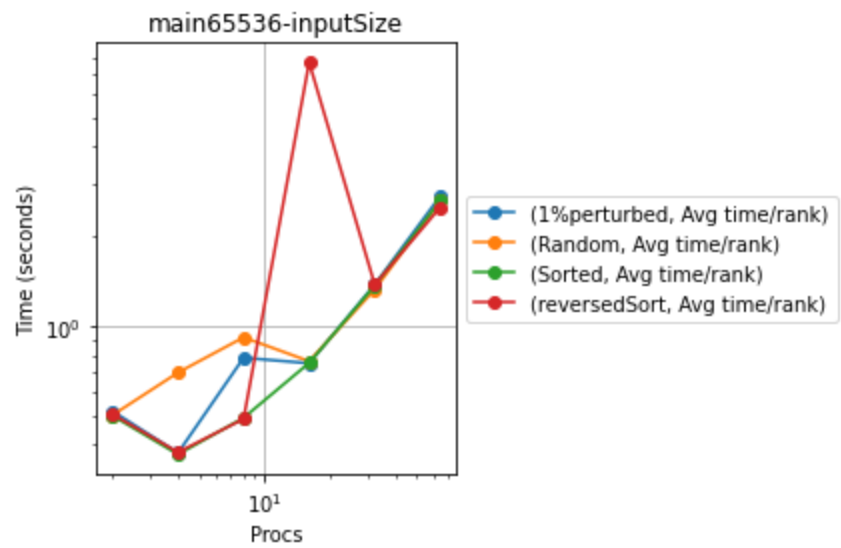
5. MPI Send 1



6. Comp Large



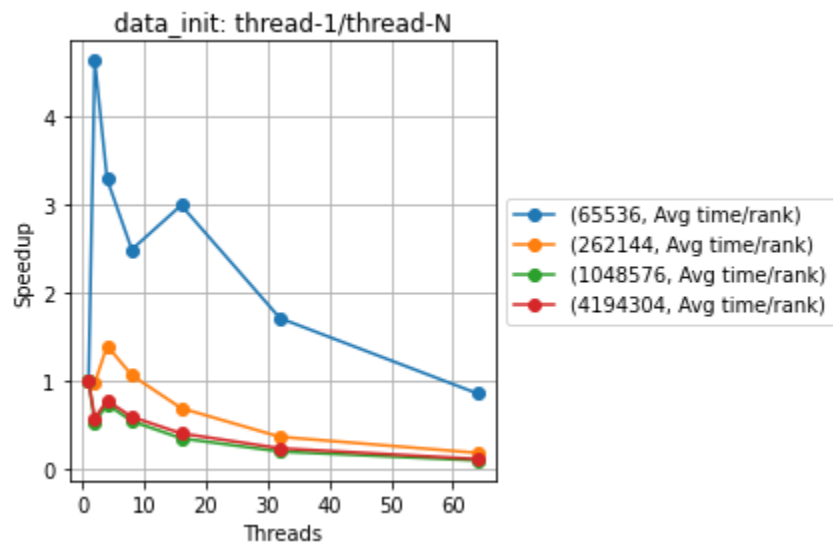
7. Main



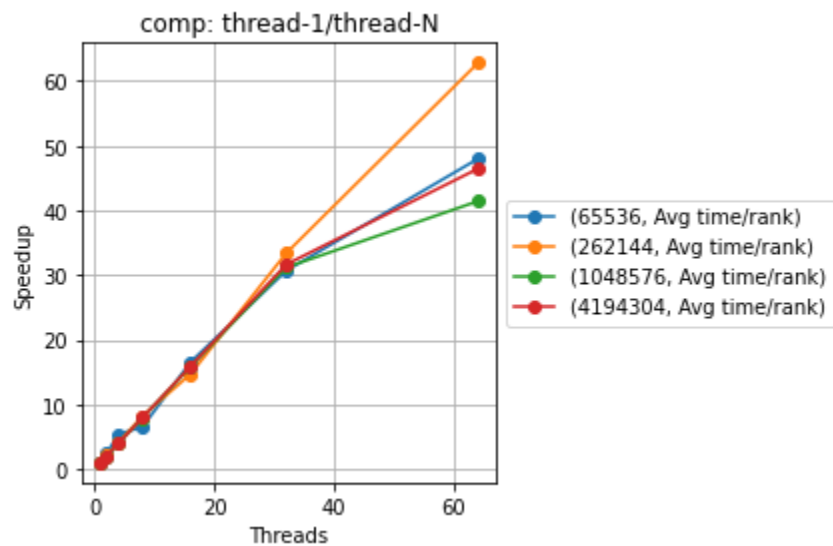
Speedup:

Graphed with Random Datasets

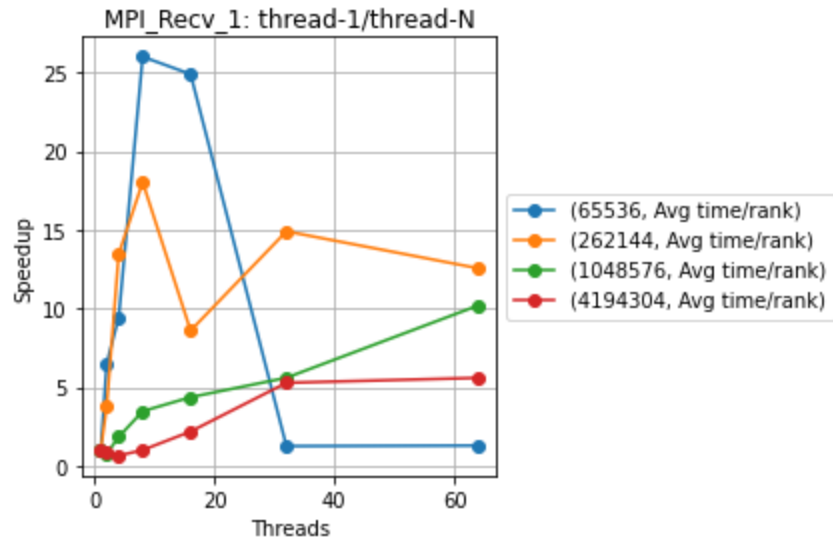
1. Data init



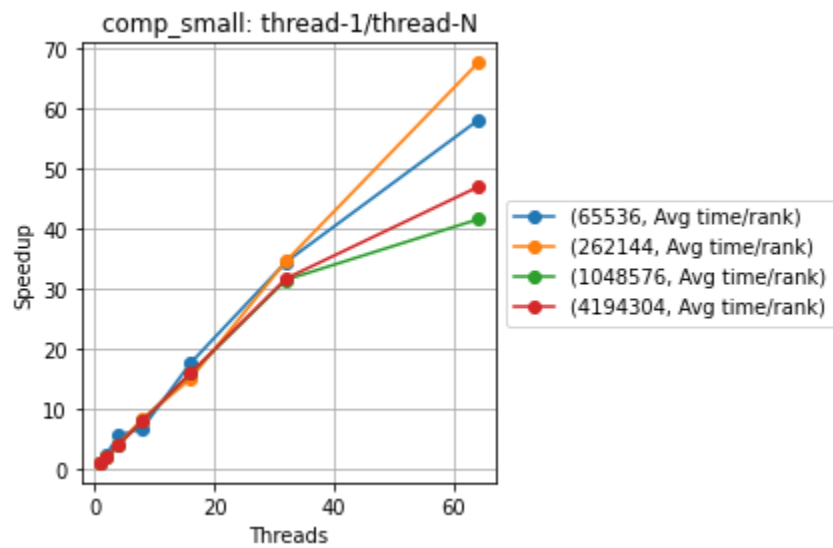
2. Comp



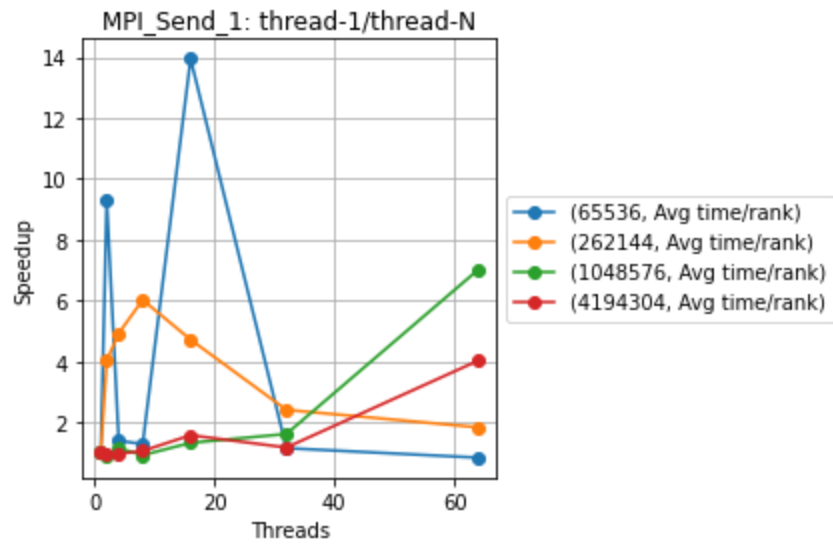
3. MPI Recv 1



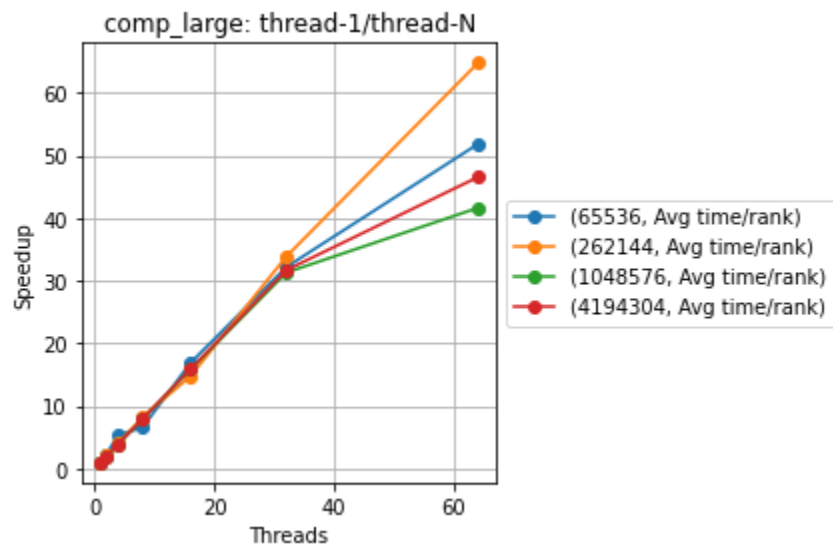
4. Comp small



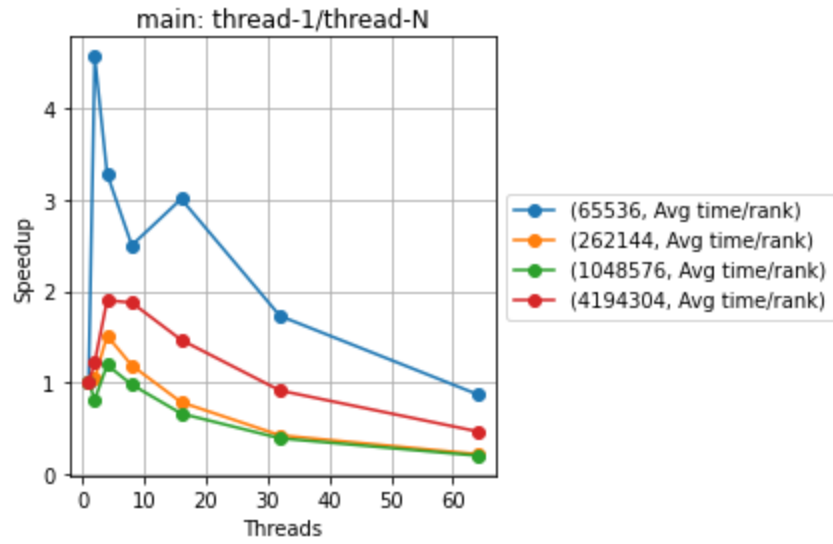
5. MPI Send 1



6. Comp Large

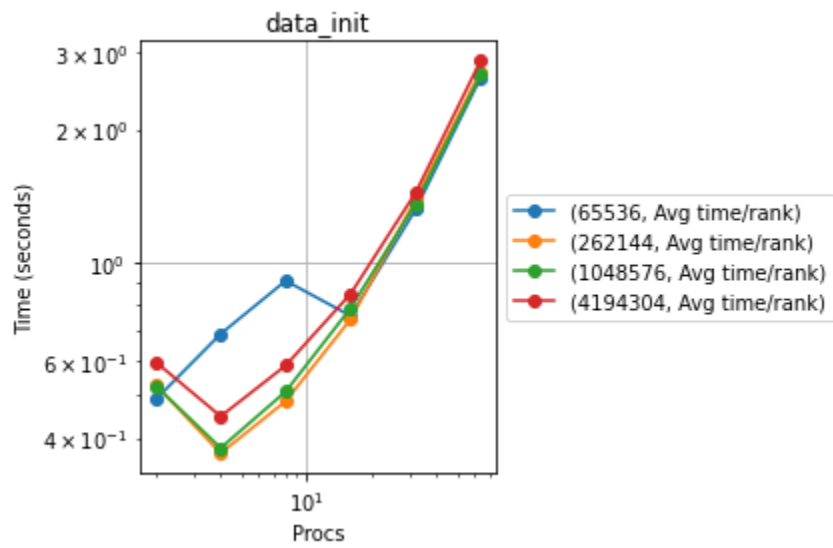


7. Main

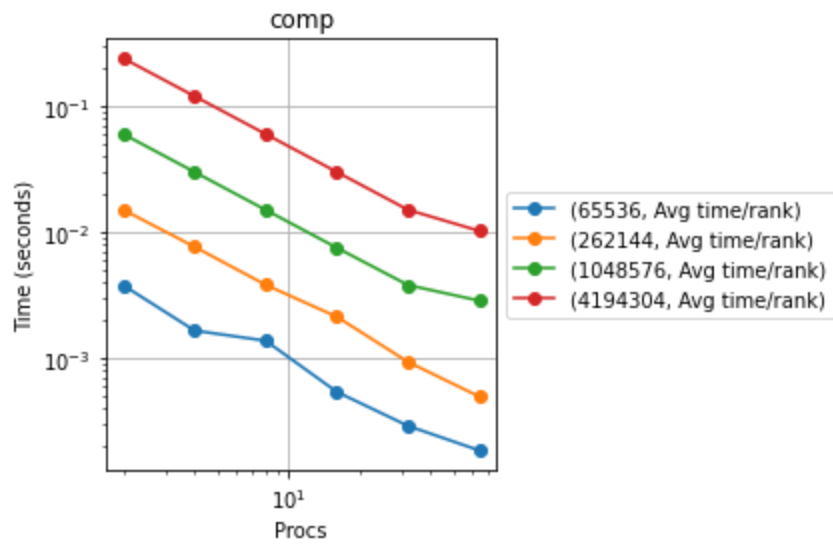


Weak Scaling:

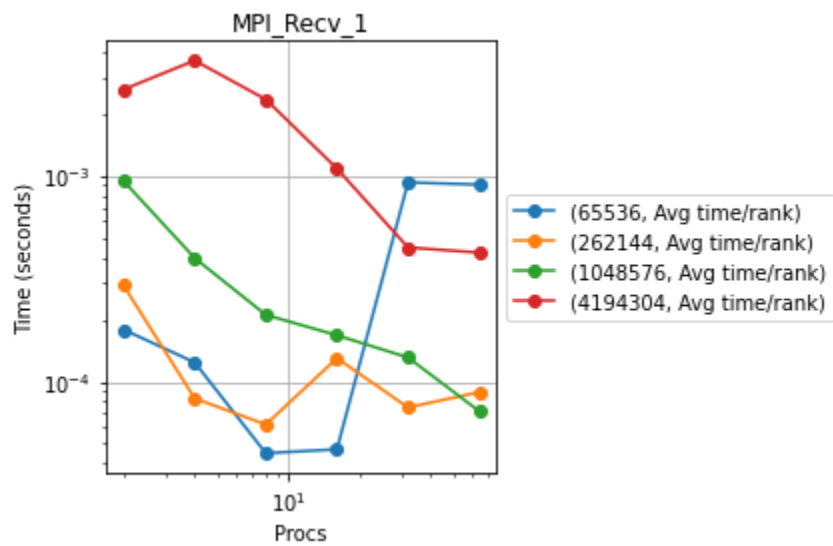
1. Data init



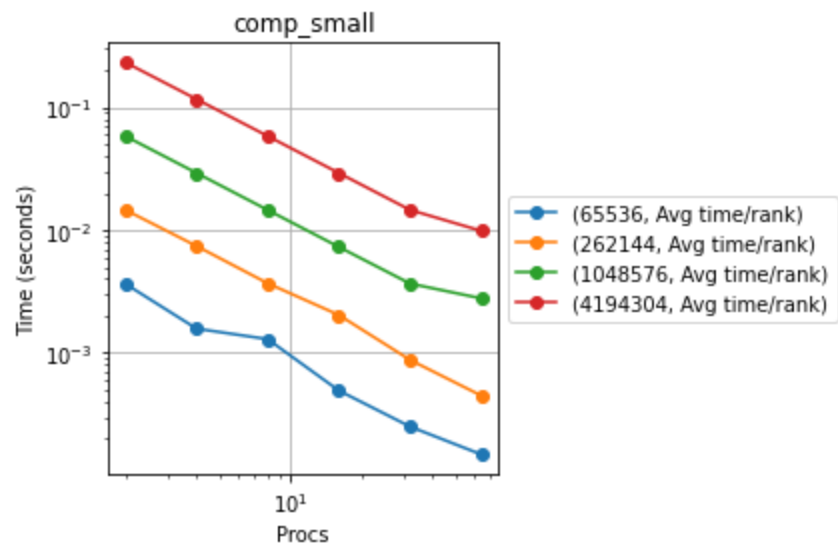
2. Comp



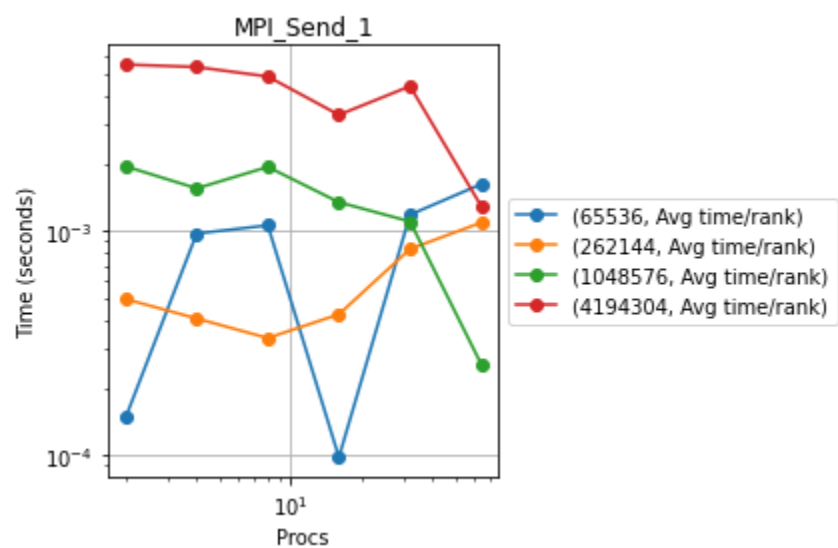
3. MPI Recv 1



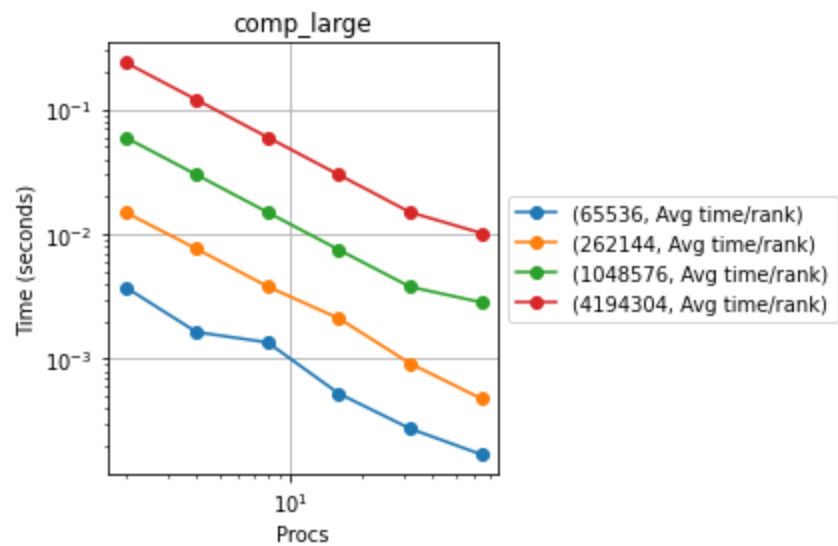
4. Comp small



5. MPI Send 1



6. Comp Large



7. Main

