## Transfer bandwidth from the first N/16 nodes to the last N/2 nodes 256 128 64 32 Subset - OPTIQ Optimization — Subset - OPTIQ Heuristics --\*--16 Subset - MPI Alltoally .... Disjoint - OPTIQ Optimization — Disjoint - OPTIQ Heuristics ----Disjoint - MPI\_Alltoallv ----Overlap - OPTIQ Optimization " ••••• Overlap - OPTIQ Heuristics Overlap - MPI\_Alltoallv ..... 512 1024

Partition size (N)

Fotal throughput(GB/s)