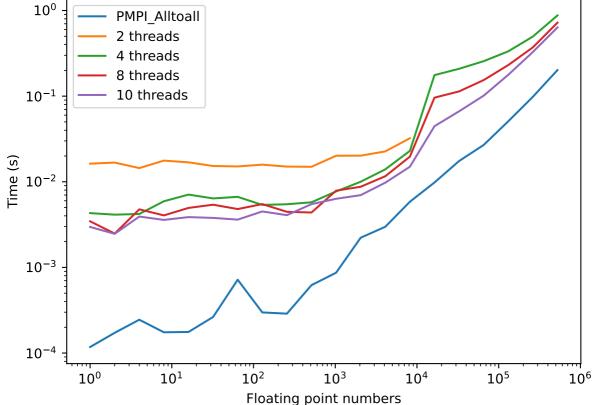
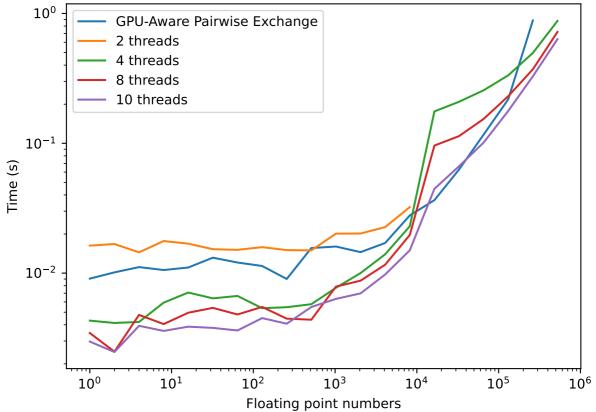
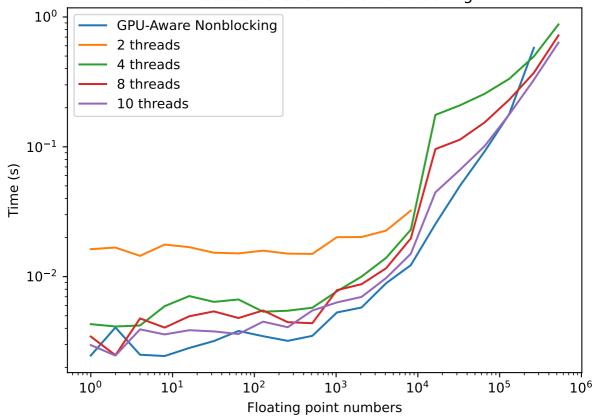
Threaded vs PMPI Alltoall



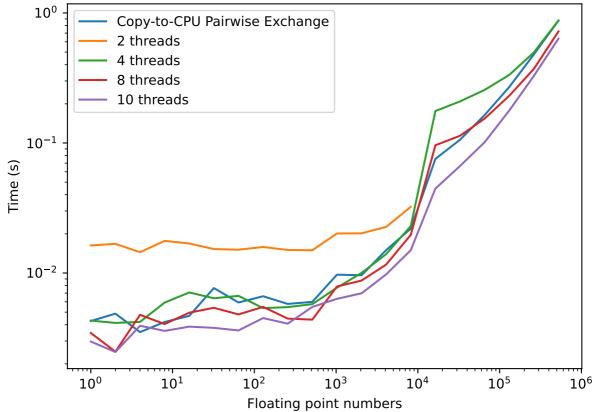
## Threaded vs GPU-Aware Pairwise Exchange

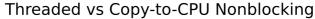


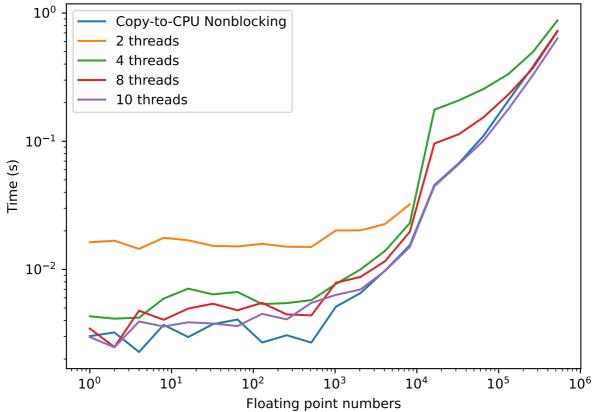
## Threaded vs GPU-Aware Nonblocking



## Threaded vs Copy-to-CPU Pairwise Exchange







10 threads vs

