oneccl scaling analysis of all reduce SYCL - CPU/Host

Experiment run date: March 30, 2024 post sunspot upgrade

job script

Summary

- 1. There is no significant difference in the first mpiexec and the second mpiexec
- 2. The second all reduce is 0.5x faster than the first all reduce

Results

iter5/host/pbs- script	08987512	NUM_OF_NODES	1	TOTAL_NUM_RANKS	12	RANKS_PER_NODE	12
iter5/host/pbs- script	08987513	NUM_OF_NODES	2	TOTAL_NUM_RANKS	24	RANKS_PER_NODE	12
iter5/host/pbs- script	08987514	NUM_OF_NODES	4	TOTAL_NUM_RANKS	48	RANKS_PER_NODE	12
iter5/host/pbs- script	08987515	NUM_OF_NODES	8	TOTAL_NUM_RANKS	96	RANKS_PER_NODE	12
iter5/host/pbs- script	08987516	NUM_OF_NODES	16	TOTAL_NUM_RANKS	192	RANKS_PER_NODE	12
iter5/host/pbs- script	08987517	NUM_OF_NODES	32	TOTAL_NUM_RANKS	384	RANKS_PER_NODE	12
iter5/host/pbs- script	08987518	NUM_OF_NODES	64	TOTAL_NUM_RANKS	768	RANKS_PER_NODE	12



