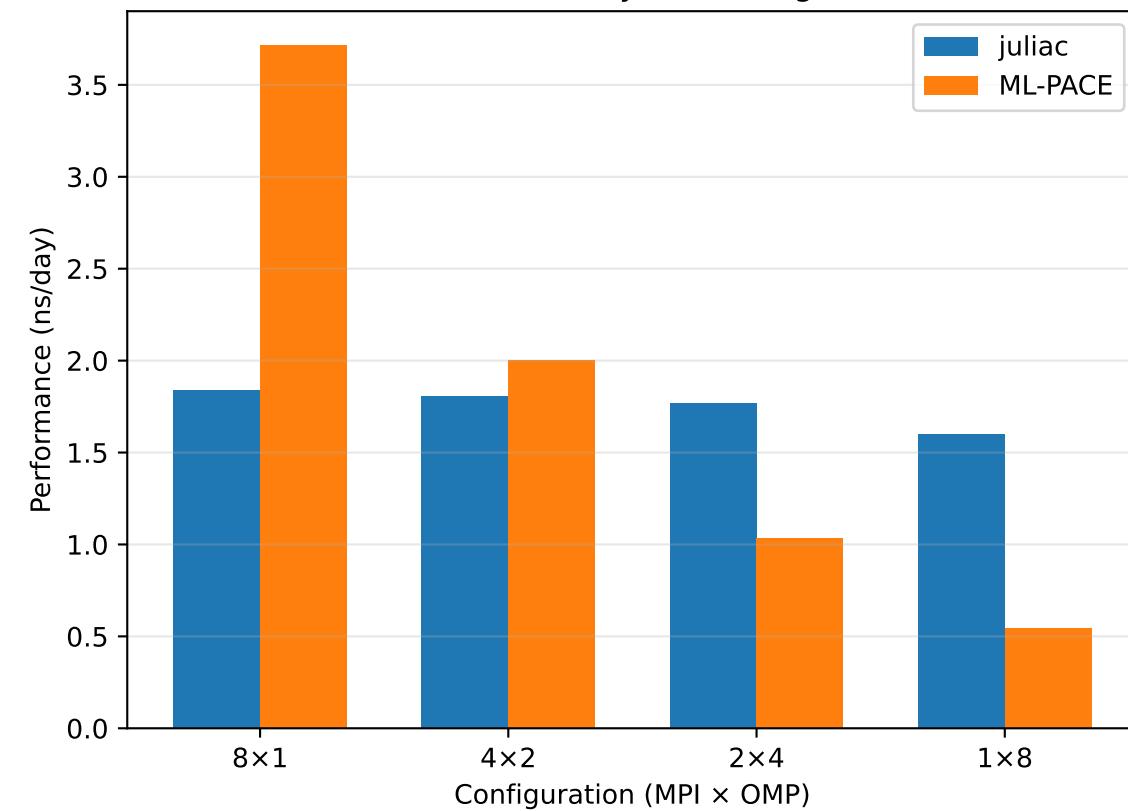


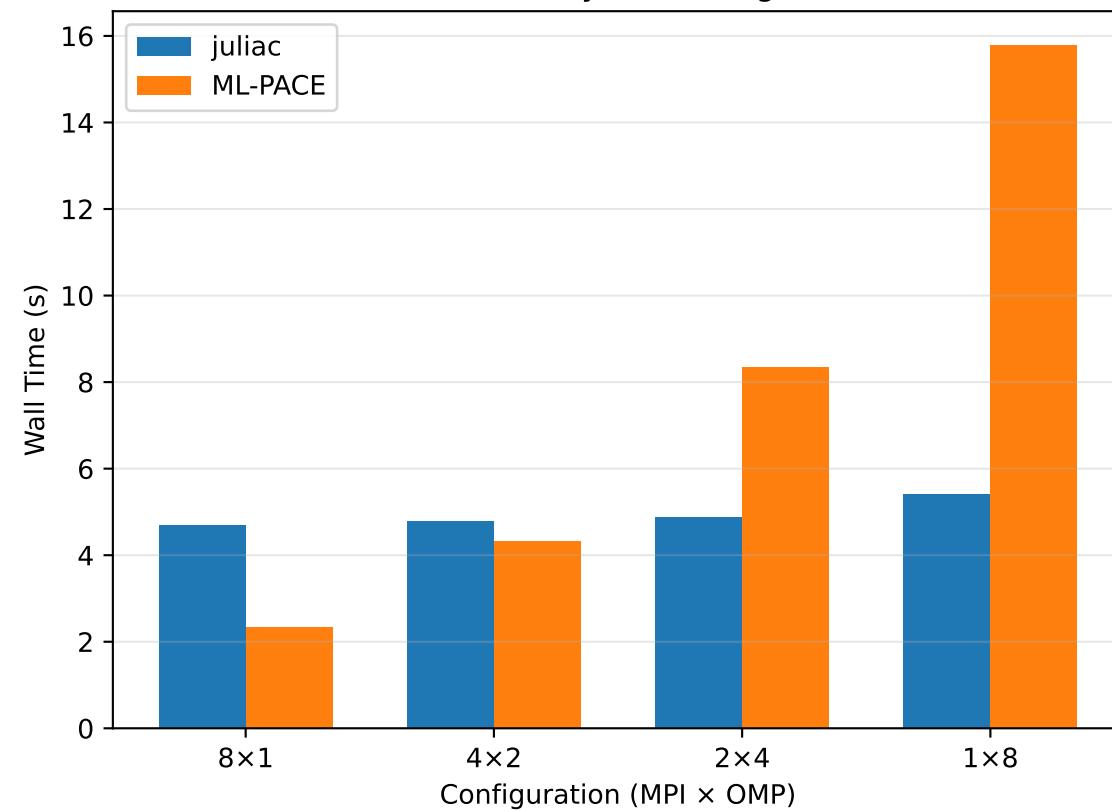
# Hybrid MPI+OpenMP Scaling: juliac vs ML-PACE

## TiAl B2 $10 \times 10 \times 10$ (2000 atoms), 8 cores total

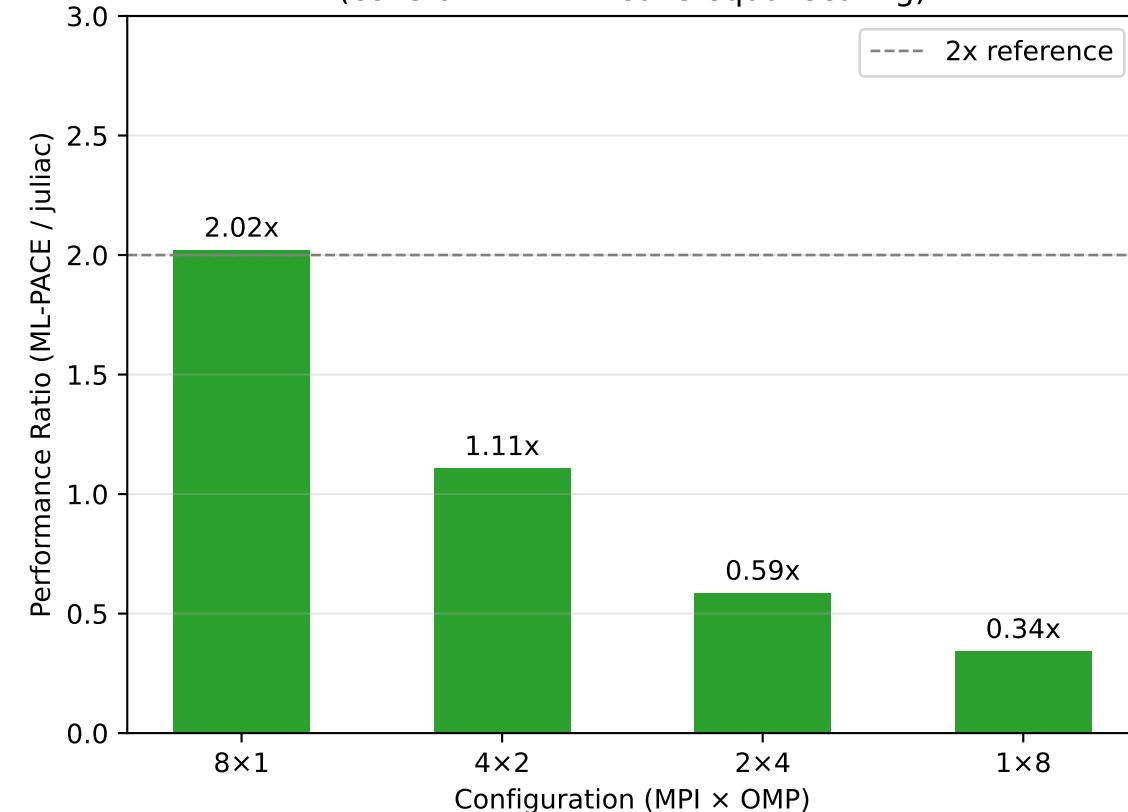
Performance vs Hybrid Configuration



Wall Time vs Hybrid Configuration



Performance Ratio vs Hybrid Configuration  
(constant  $\approx 2x$  means equal scaling)



Relative Performance vs Pure MPI Baseline

