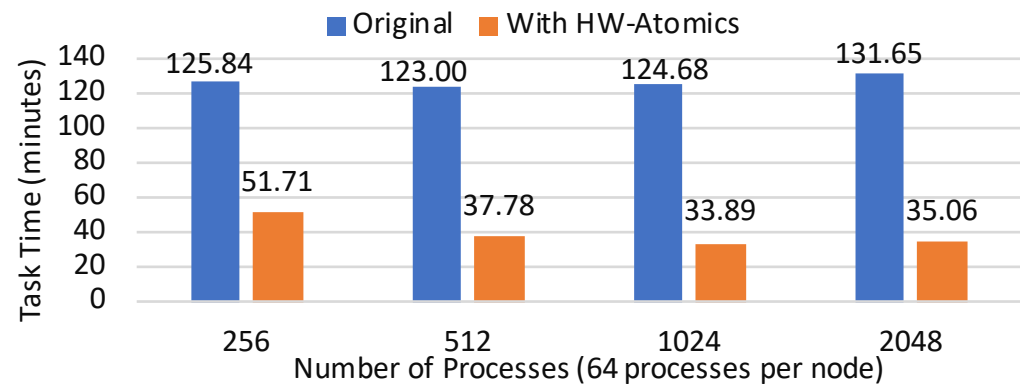
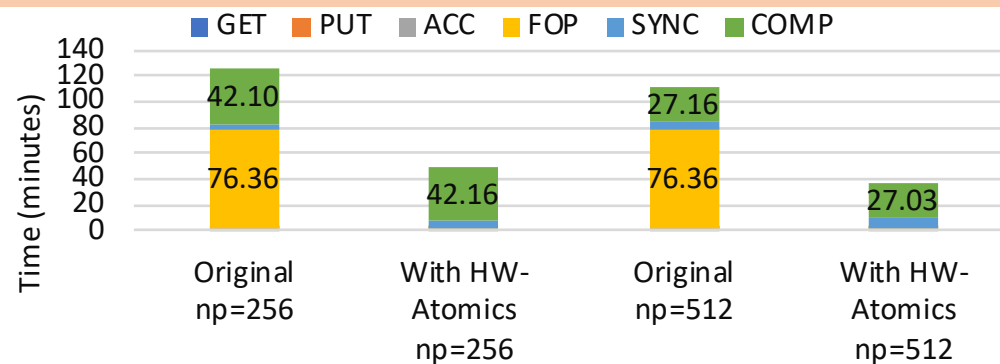


Evaluation of Improvements to MPI RMA



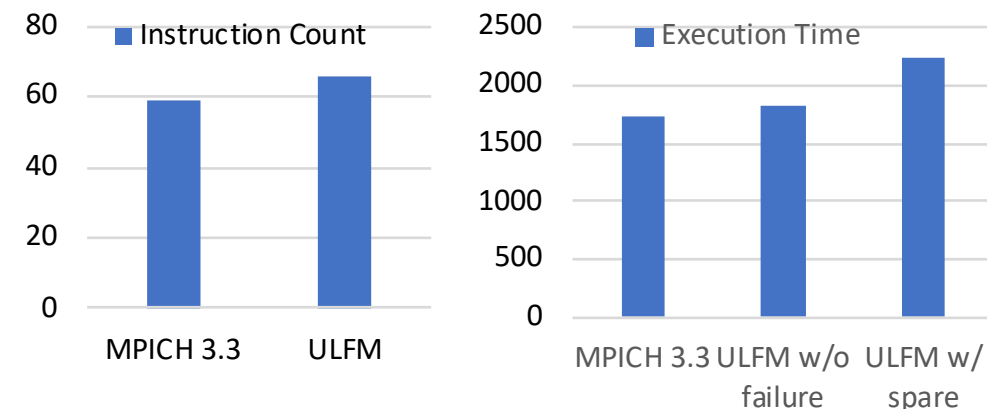
Evaluation of hardware-accelerated MPI atomics in NWChem DFT for Carbon 180 with 631G* basis set on Cray XC40/KNL.



Performance analysis of NWChem DFT on Cray XC40/KNL.

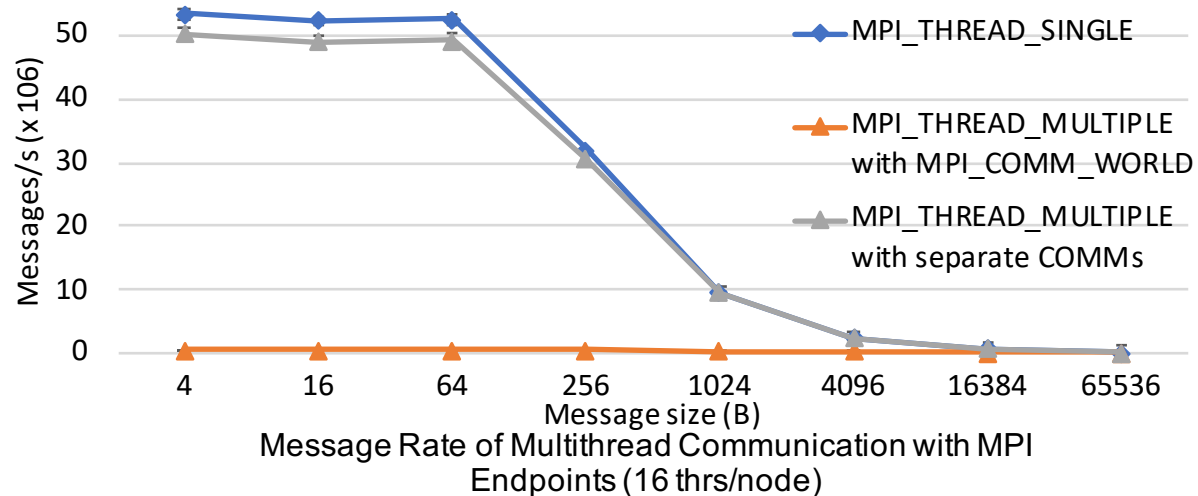
The atomics overhead (FOP) is significantly reduced by using HW MPI atomics.

Evaluation of ULFM Prototype

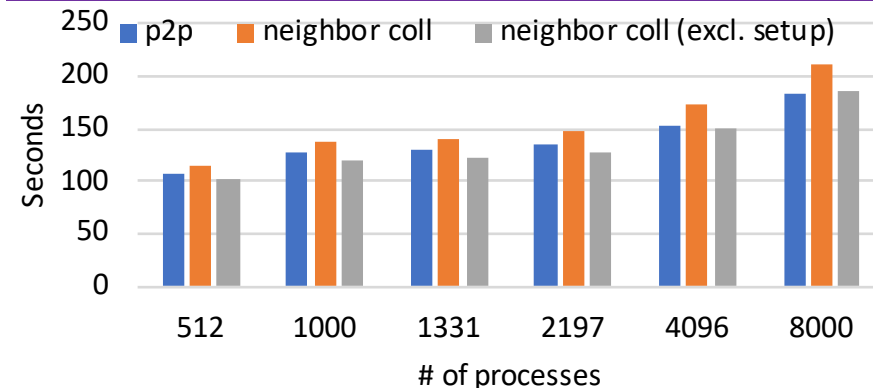


Overhead analysis with OSU latency benchmark and Intel Software Develop Emulator (SDE) on JLSE Skylake cluster.

MPI Endpoint and Evaluation

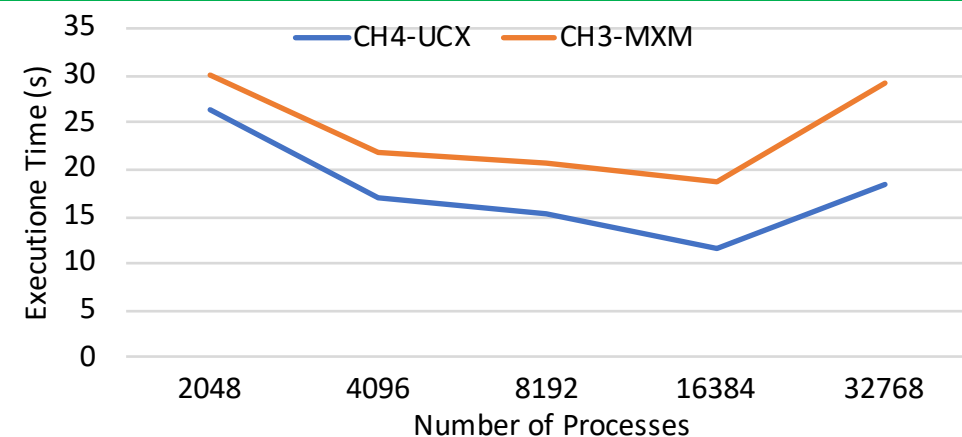


Evaluation of Topology-aware Collectives



PETSc KSPSolve time in 3D stencil using point-to-point communication and topology-aware neighborhood collectives

Comprehensive Evaluation



Strong scaling of Nek5000 with XXT solver on Summit