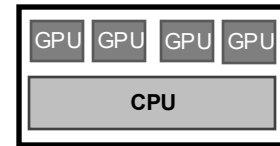





WORKFLOW DATA TRANSFER: OVERVIEW

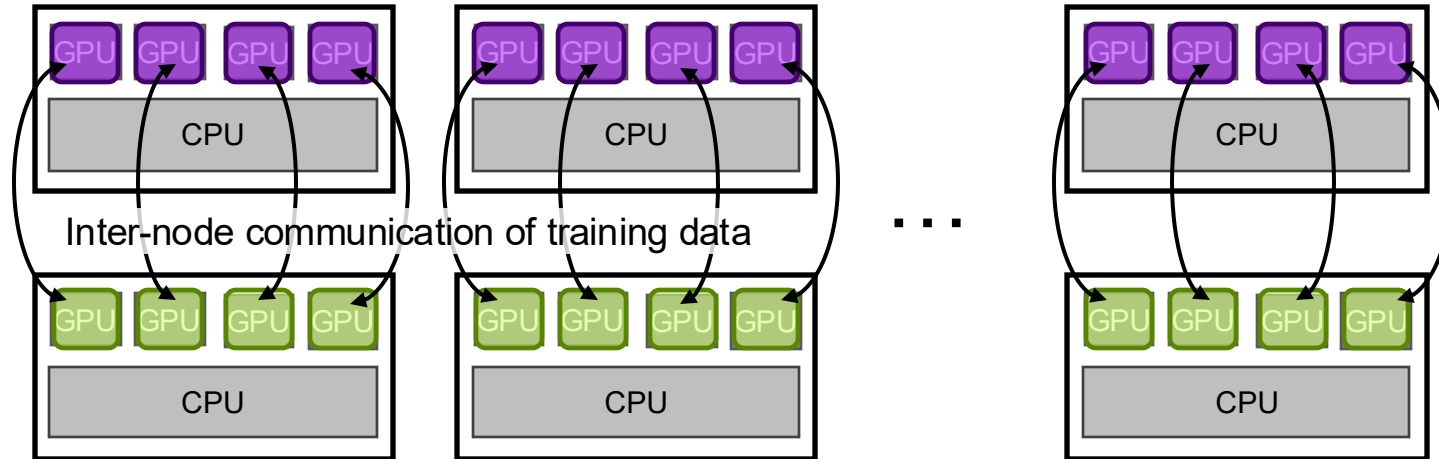
- The online component of the workflow is implemented using ADIOS2 SST engine (RDMA transport layer preferred)
- Clustered deployment
 - nekRS and Dist-GNN training run on distinct set of nodes
 - N-N transport pattern across system high-speed interconnect

Heterogeneous HPC node



nekRS 
Dist-GNN 
Data transfer 

Clustered Deployment



WORKFLOW DATA TRANSFER: PERFORMANCE

- Clustered deployment tests bisection bandwidth of high-speed interconnect
 - For homogeneous system, tests full-scale bisection bandwidth
 - For heterogeneous system (separate ModSim and AI partitions), tests bisection bandwidth between partitions