UTEP-PNNL-DDL meeting

June 14, 2024

Agenda

1. Reminder of NERSC Perlmutter office hours – 10am-12noon Pacific time
   1. June 17 AI/ML applications
   2. June 27 HPC applications
2. Plan for MLPerf HPC benchmarking paper
   1. Get tools working – CyPAPI for hardware counters, Score-P for communication tracing
   2. Briana working on the MLPerf HPC benchmarks
3. Updates from students
   1. Briana

Got past Docker problem with OpenCatalyst, getting new errors

Trying to get FamilySeer working on Perlmutter, permission problems

* 1. Aaron

Working on getting CyPAPI working on Perlmutter

Got paper on Roofline modeling

Met with Briana to get context

* 1. Christopher

Able to configure and build Score-P on Perlmutter

Able to install Score-P Python interface

Trying to get Score-P Python test program to work – may need to add to PYTHONPATH

1. Paper presentation by William

L. WANG, W. WANG and B. LI, "CMFL: Mitigating Communication Overhead for Federated Learning," 2019 IEEE 39th International Conference on Distributed Computing Systems (ICDCS), Dallas, TX, USA, 2019, pp. 954-964, doi: 10.1109/ICDCS.2019.00099.