UTEP-PNNL-DDL meeting

May 24, 2024

Agenda

1. NERSC Perlmutter
   1. Should make full use of allocation if possible, next reduction for underuse will be in July
   2. Install group tools in common or community area
   3. Datasets in common or community areas if possible, or in scratch (but scratch gets purged)
2. MLPerf HPC Benchmarks
   1. How to divide them up among us
   2. Reproduce previous work on Roofline models (done with V100 GPUs)
   3. Communication overheads
3. Collaborations
   1. KTH Sweden -- data movement
   2. UTK PAPI -- SDEs for operation counts, Python interface for PAPI
4. Summer plans
   1. Extend CNN work to GNNs, auto-tuning + compiler -- Briana
   2. Communication measurements using Score-P – Christopher (with Deepak)
   3. Communication overhead analysis – William (with Deepak)
   4. PNNL internship – Alejandro
   5. Python performance measurement tools – cyPAPI -- Aaron
5. Possible paper venues
   1. PMBS’24 – August 7/September 13 deadlines for full/short papers
   2. SBAC-PADS -- <https://sites.google.com/ime.usp.br/sbac2024/home/submission/call-for-papers>
   3. Parallel tools workshops (ProTools 24 at SC’24, HLRS Parallel Tools Workshop usually in fall in Germany)
   4. MLSys’25 (deadline usually in October)
6. Updates from students
   1. Briana
   2. Samantha
   3. Christopher
   4. William
7. Next meeting Friday, May 31, 9:30am MDT