UTEP-PNNL-DDL Meeting

Friday, September 6

Agenda and Notes

1. NUG poster was accepted, Briana will attend the meeting and present the poster
2. Updates from students
   1. Briana – contacted Steven Farrell again about OpenCatalyst, missing metadata files, then they were outdated, submitted job with new data, getting cyPAPI and PAPI installed. Will work with Aaron on Roofline models.

Josh has Python code for plotting Roofline models he will share.

* 1. Irvin – master’s thesis plan: Package experimental roofline tool with PyTorch container, NVIDIA GPUs first semester, other GPU architectures second semester
  2. Aaron – reading roofline paper, working with Irvin on roofline modeling, helped Briana with cyPAPI, working installing PAPI for the group to use
  3. Christopher -
  4. William – implemented distributed FL using PyTorch, ran experiments with 4 GPUs, saved data from different configurations, pushed files and results to project github. Problems with ScoreP, switched to using Nsight for now.
  5. Alejandro – reading research papers on elasticity and scalability for distributed systems, including fault tolerance

1. Papers
   1. Tools evaluation paper

Criteria – functionality, overheads, portability, ease of use

* 1. Extend NUG poster on roofline modeling of MLPerf HPC benchmarks

1. No meeting next week, next meeting Friday, September 20