UTEP-PNNL-DDL meeting

October 25, 2024

Agenda and Notes

1. MLCommons Science WG – Shirley
2. Physics machine learning talk by Jan Drgona, github.com/pnnl/neuromancer -- Shirley
3. ISPASS papers(s) -- Shirley
4. NUG meeting – Briana
5. Working meeting 10:30am-1pm Mondays in our lab CCSB 3.1202b
6. Updates from students
   1. Briana – trying different batch sizes with DeepCAM to try to improve performance
   2. Aaron – helped Briana with roofline model for poster, working on getting correct flops counts for mixed precision
   3. Irvin – found ptflops tool for counting MACs (FMAs)
   4. William – working on reducing communication overhead paper, adaptive predictive learning framework, batch size, client selection to streamline communication, asynchronous updates, using NVIDIA Nsight to measure overheads
   5. Alejandro – RDD implementation for 5G project, working on intro for thesis, working on determining memory consumption using Tensorflow method – found way to implement it into training using callbacks