Training

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## Training

## **Subsections:**

- Model parallelism
- Performance
- Fault Tolerance
- Reproducibility
- Instabilities
- Checkpoints
- Training hyper-parameters and model initializations
- Tensor precision / Data types
- Emulate a multi-node setup using just a single node instructions on how to emulate a multi-node setup using just a single node we use the deepspeed launcher here.
- Re-train HF hub models from scratch using finetuning examples

## Tools:

- printflock.py a tiny library that makes your print calls non-interleaved in a multi-gpu environment.
- multi-gpu-non-interleaved-print.py a flock-based wrapper around print that prevents messages from getting interleaved when multiple processes print at the same time which is the case with torch.distributed used with multiple-gpus.