

Tutorial. May 21, 2023 2-6 pm

Distributed Training of Deep Neural Networks

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Welcome!

Are you interested in training deep learning models on a networked cluster of GPUs?

If the answer is yes, you have come to the right tutorial.





Tutorial attendees will learn ...

- Different forms of parallelism for deep learning
- Setting up a training job on GPGPUs
- Different parallel deep learning frameworks and how to use them





Tutorial organizers



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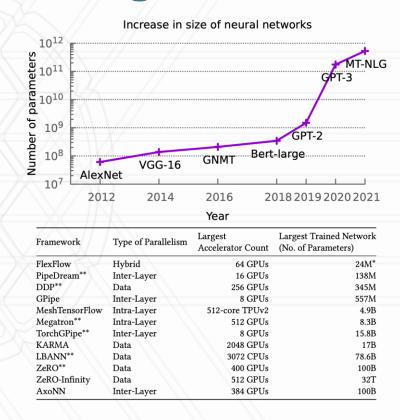


Deep learning

- An area of machine learning that uses artificial neural networks to learn complex functions
 - Often from high-dimensional data: text, images, audio, ...
- Widespread use in computer vision, natural language processing, etc.

Parallel / distributed training

- Many opportunities for exploiting parallelism
- Iterative process of training (epochs)
- Many iterations per epoch (mini-batches)
- Many layers in DNNs



Accounts

Tutorial link: https://github.com/hpcgroup/distrib-dl-tutorial









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