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TensorFlow (simply referred as TensorFlow for rest of the paper) and Message Passing Interface (MPI) [10, 11]. 2.1 TensorFlow Google's TensorFlow, released in November 2015, is a platform for building and developing models in machine learning, particularly neural networks. It is capable of han-arXiv:1603.02339v2 [cs.DC] 18 Aug 2017

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arXiv.org > cs > arXiv:1603.02339v1 ... Title: Distributed TensorFlow with MPI. Authors: Abhinav Vishnu, Charles Siegel, Jeffrey Daily ... In this paper, we extend recently proposed Google TensorFlow for execution on large scale clusters using Message Passing Interface (MPI). Our approach requires minimal changes to the TensorFlow runtime ...

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[1603.02339] Distributed TensorFlow with MPI
Scalable Distributed DNN Training using TensorFlow and CUDA-Aware MPI: Characterization, Designs, and ... arXiv:1810.11112v1 [cs.DC] 25 Oct 2018 "Submitted to IEEE IPDPS 2019 (Main Track) for Peer Review" 2 ... Message Passing Interface (MPI) is a de facto standard for "Submitted to IEEE IPDPS 2019 (Main Track) for Peer Review" 3 ...

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Deep Learning (DL) algorithms have become the de facto choice for data analysis. Several DL implementations primarily limited to a single compute node such as Caffe, TensorFlow, Theano and Torch have become readily available. Distributed DL implementations capable of execution on large scale systems are becoming important to address the computational needs of large data produced by ...

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[1603.02339] Distributed TensorFlow with MPI - arxiv.org TensorFlow (simply referred as TensorFlow for rest of the paper) and Message Passing Interface (MPI) [10, 11]. 2.1 TensorFlow Google's TensorFlow, released in November 2015, is a platform for building and developing models

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We present a lightweight Python framework for distributed training of neural networks on multiple GPUs or CPUs. The framework is built on the popular Keras machine learning library. The Message Passing Interface (MPI) protocol is used to coordinate the training process, and the system is well suited for job submission at supercomputing sites. We detail the software's features, describe its ...

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In this paper, we extend recently proposed Google TensorFlow for execution on large scale clusters using Message Passing Interface (MPI). Our approach requires minimal changes to the TensorFlow runtime -- making the proposed implementation generic and readily usable to increasingly large users of TensorFlow.