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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 in machine learning, particularly neural networks. It is capable of han- arXiv:1603.02339v2 [cs.DC] 18 Aug 2017

[Distributed TensorFlow with MPI - arXiv](#)

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 ...

[\[1603.02339v1\] Distributed TensorFlow with MPI - arXiv](#)

Distributed TensorFlow with MPI Abhinav Vishnu # 1 Charles Siegel # 2 and Jeff Daily # 3 # 1 , 2 , 3 Pacific Northwest National Laboratory Richland WA 99352

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Title: Distributed TensorFlow with MPI Authors: Abhinav Vishnu , Charles Siegel , Jeffrey Daily (Submitted on 7 Mar 2016 (v1), last revised 18 Aug 2017 (this version, v2))

[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 ...

Scalable Distributed DNN Training using TensorFlow ... - arXiv

TensorFlow has been the most widely adopted Machine/Deep Learning framework. However, little exists in the literature that provides a thorough understanding of the capabilities which TensorFlow offers for the distributed training of large ML/DL models that need computation and communication at scale. Most commonly used distributed training approaches for TF can be categorized as follows: 1 ...

Scalable Distributed DNN Training using TensorFlow ... - arXiv

Machine Learning and Data Mining (MLDM) algorithms are becoming increasingly important in analyzing large volume of data generated by simulations, experiments and mobile devices. With increasing data volume, distributed memory systems (such as tightly connected supercomputers or cloud computing systems) are becoming important in designing in-memory and massively parallel MLDM algorithms.

Distributed TensorFlow with MPI - NASA/ADS

TensorFlow is an interface for expressing machine learning algorithms, and an implementation for executing such algorithms. A computation expressed using TensorFlow can be executed with little or no change on a wide variety of heterogeneous systems, ranging from mobile devices such as phones and tablets up to large-scale distributed systems of hundreds of machines and thousands of ...

[1603.04467] TensorFlow: Large-Scale Machine ... - arXiv.org

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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 ...

User-transparent Distributed TensorFlow - arXiv Vanity

[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 ...

An MPI-Based Python Framework for Distributed Training ...

In this paper, we extend recently proposed Google TensorFlow for execution on large scale clusters using Message Passing Interface (MPI). Our approach

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requires minimal changes to the TensorFlow runtime -- making the proposed implementation generic and readily usable to increasingly large users of TensorFlow.

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