AI & Machine Learning Products (https://cloud.google.com/products/machine-learning/)

Cloud TPU (https://cloud.google.com/tpu/)

<u>Documentation</u> (https://cloud.google.com/tpu/docs/) <u>Guides</u>

Concepts

Cloud TPU

Cloud TPUs

An overview of Cloud TPU resources.

(https://cloud.google.com/tpu/docs/tpus)

Services that can access TPUs

Helps you decide which Cloud TPU service (Compute Engine, Google Kubernetes Engine, or Al Platform) best suits your needs.

(https://cloud.google.com/tpu/docs/deciding-tpu-service)

TPU types and zones

Details the types of Cloud TPU and their zones of availability.

(https://cloud.google.com/tpu/docs/types-zones)

Internal IP address ranges

Setting up internal IP addresses for Cloud TPU nodes.

(https://cloud.google.com/tpu/docs/performance-guide)

Performance guide

High-level performance tips for running TensorFlow programs on Cloud TPU.

(https://cloud.google.com/tpu/docs/performance-guide)

Training on TPU Pods

An overview of training on Cloud TPU Pods.

(https://cloud.google.com/tpu/docs/training-on-tpu-pods)

Using TPU Estimator API

The differences between training a TensorFlow model with the standard TensorFlow Estimator and with the TPUEstimator API.

(https://cloud.google.com/tpu/docs/using-estimator-api)

Processing large images with TPUs

Using spatial partitioning with Cloud TPUs and TPUEstimator for training with very large images and video. (https://cloud.google.com/tpu/docs/spatial-partitioning)

System Architecture

An overview of Cloud TPU hardware and software architecture.

(https://cloud.google.com/tpu/docs/system-architecture)

Using bfloat16

Using the bfloat16 format to store activations and gradients in memory.

(https://cloud.google.com/tpu/docs/bfloat16)

Advanced Guide to Inception v3

An advanced view of the guide to running Inception v3 on Cloud TPU.

(https://cloud.google.com/tpu/docs/inception-v3-advanced)

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