NVIDIA ENTERPRISE SOFTWARE PLATFORM

USE-CASES

Speech | Translate | Recommender

Healthcare | Manufacturing | Finance

Molecular Simulations | Weather Forecasting | Seismic Mapping

CONSUMER INTERNET | INDUSTRIAL APPLICATIONS | SUPERCOMPUTING

APPS & FRAMEWORKS

TensorFlow · mxnet · ONNX · RAPIDS · PYTORCH · Chainer

Amber · NAMD · +600 Applications

DS CATIA · Ps · AUTODESK 3DS MAX · Windows 10

CUDA-X LIBRARIES

MACHINE LEARNING: cuDF | cuML | cuGRAPH

DL / HPC: cuDNN | CUTLASS | TENSORRT | CUDA Math Libraries

LANGUAGES: python · OpenACC · LLVM Compiler For CUDA

CUDA

CUDA TOOLKIT: CUDA COMPILER | DEVELOPER TOOLS (DEBUGGERS | PROFILERS) | CUDA C++ CORE

CUDA DRIVER: MEMORY MANAGEMENT | WINDOWS & GRAPHICS | COMMS LIBRARIES

OS PLATFORMS

Ubuntu · Red Hat · CentOS · SUSE · Windows Server

TESLA GPUs & SYSTEMS

TESLA GPU | NVIDIA DGX FAMILY | NVIDIA HGX | SYSTEM OEM (DELL, Hewlett Packard Enterprise, IBM, inspur) | CLOUD (aws, Google Cloud Platform, Microsoft Azure)

DEPLOYMENT

CONTAINERS & ORCHESTRATION

docker · cri-o · S · slurm workload manager
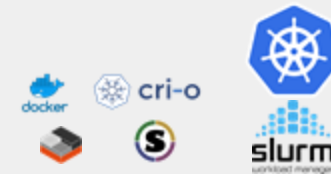
PACKAGING

GPU MANAGEMENT AND MONITORING

DCGM | NVML / nvidia-smi | Fabric Manager | OOB

I/O AND STORAGE

GPUDIRECT | VOLUMES | NETWORKING

NVIDIA