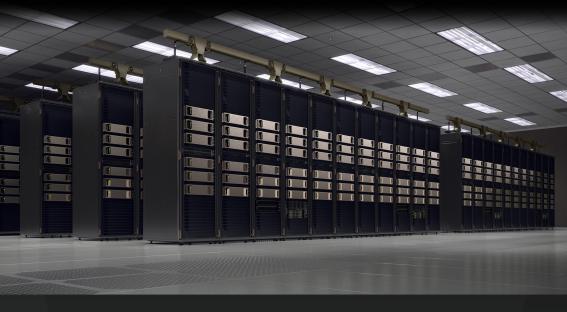


THE WORLD'S MOST EFFICIENT SUPERCOMPUTER FOR AI AND DEEP LEARNING

NVIDIA DGX SATURNV

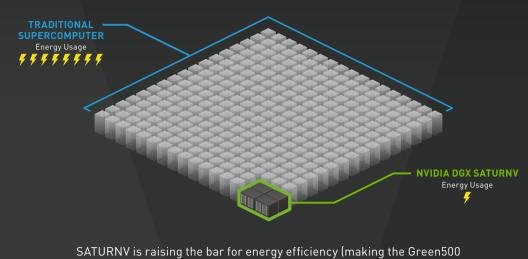


EFFICIENCY

THE GREENEST PATH TO EXASCALE

The DGX SATURNV taps into the compute power of 660 NVIDIA® DGX-1™

server nodes to drive new levels of deep learning and AI analytics.



computational capacity footprint of 660 petaFLOPS of AI horsepower. The GREEN

with 15 GFLOPS per watt of FP64 efficiency) with a total expected

 ${\sf NVIDIA} \ is \ lighting \ a \ path \ for \ enterprises \ to \ build \ GPU-accelerated$ data centers of the future, breaking the barriers of Moore's law scaling, while offering more compute in less space than ever before.

INTELLIGENCE

FASTER NEURAL NETWORKS TRAINING FOR SMARTER RESULTS



takes an incredible amount of time and compute power. With GPUs, hundreds of networks can now be trained in parallel, accelerating solutions for some of the world's hardest problems through AI.

Neural networks are the backbone of artificial intelligence, but training them

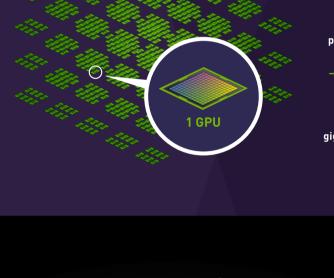
TAP INTO THE WORLD'S FASTEST GPUs **POWER**

660 NODES petaFLOPS (FP32)

5,280 V100 GPUs

660

petaFLOPS (AI)



petaFLOPS (FP64)

gigaFLOPS per watt



interconnect GPU architecture, technology. This delivers 2X the pairing NVIDIA CUDA® and Tensor Cores, throughput, compared

TRANSFORMING INDUSTRIES WITH AI SUPERCOMPUTING

Volta uses next

to the previous

generation NVIDIA

NVLink™ high-speed

generation of NVLink.



With over 21 billion

transistors, Volta is the world's most powerful



THE NATIONAL CANCER

With Volta-optimized CUDA and NVIDIA

Deep Learning SDK

libraries like cuDNN,



Equipped with 640

Tensor Cores, Volta delivers over 100 teraFLOPS of deep

MOONSHOT INITIATIVE NVIDIA is teaming with the National Cancer Institute, and U.S. Department of Energy to create an AI platform for accelerating cancer research.



Image Classification helps safeguard our planet by using satellite imagery and DeepSAT to measure the effects of carbon and greenhouse gases on crops,

IMPACT

ICAHN SCHOOL OF MEDICINE The school developed 'Deep Patient', a tool trained on thousands of patient records using GPU accelerators to

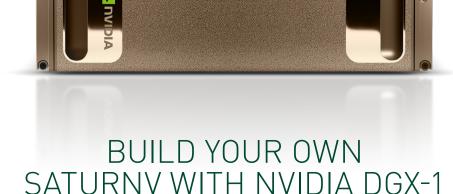
vegetation, and the urban landscape.

NASA AMES GLOBAL CLIMATE CHANGE

A deep learning framework for Satellite



identify high-risk patients.



nvidia.com/dgx-1