The world's most efficient supercomputer for AI and deep learning

**The Greenest Path to Exascale**

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**Faster scaling, lower power, better performance for smarter results**

The NVIDIA DGX-1 provides leading performance for the Green500. The NVIDIA DGX-2, with 1,800 NVIDIA V100 Tensor Core GPUs, 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.

**New record**

- **1.8 Mins**
  - **AI Performance Leadership**
  - **V100 Tensor Core GPUs**
- **1.8 GFLOPS per watt of FP64 efficiency**
  - **15,000 exaFLOPS of AI horsepower**

**Transforming Industries with AI Supercomputing**

- **AI and deep learning**
  - **NVIDIA DGX-1™**
  - **NVIDIA DGX-2™**
- **Energy usage**
  - **1.8 Mins**
- **New record**
  - **1.6 Mins**
  - **Non-Recurrent**
  - **1.5 Mins**
  - **Recurrent**
  - **1.3 Mins**
  - **Lightweight**
  - **1.8 Mins**
  - **Heavyweight**
- **Neural networks**
  - **15 GFLOPS per watt of FP64 efficiency**
- **Classification**
  - **Object Detection**
  - **Reinforcement Learning**
  - **Image Classification**
  - **Object Detection (Lightweight)**
  - **Object Detection (Heavyweight)**
  - **Translation**
  - **Translation (Recurrent)**
  - **Translation (Non-Recurrent)**

**Build your own SaturnV**

[Link to nvidia.com/dgx]

**AI and the environment**

- **Efficiency and performance**
  - **NVIDIA DGX-1™**
  - **NVIDIA DGX-2™**
- **Satellite imagery**
  - **DeepSAT**
  - **NASA Ames Global Climate Change Research Center**
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  - **Object Detection**
  - **Reinforcement Learning**
  - **Image Classification**
  - **Object Detection (Lightweight)**
  - **Object Detection (Heavyweight)**
  - **Translation**
  - **Translation (Recurrent)**
  - **Translation (Non-Recurrent)**

**More information**

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