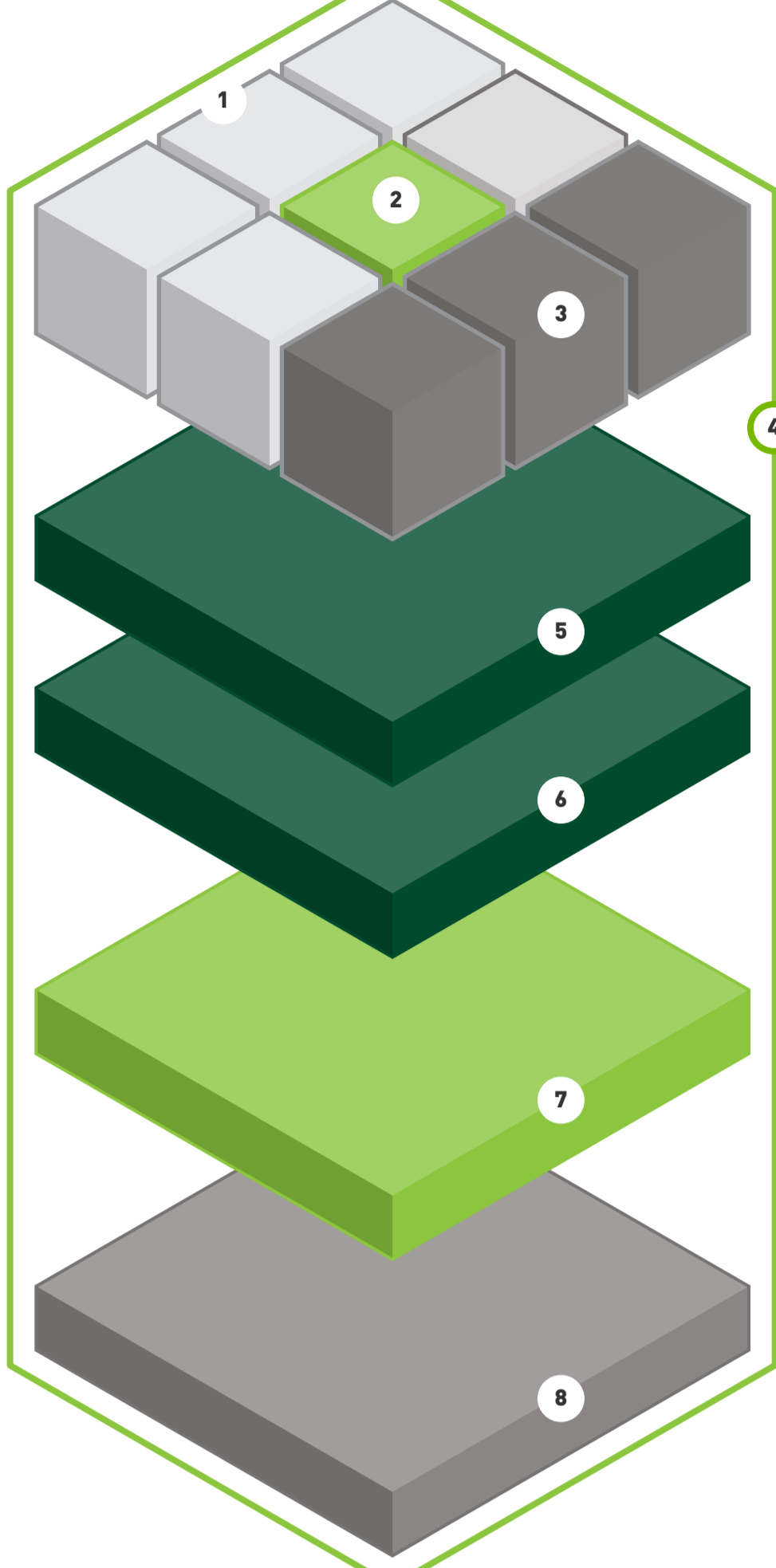


# INTRODUCING NVIDIA DGX-1 THE WORLD'S FIRST DEEP LEARNING SUPERCOMPUTER IN A BOX

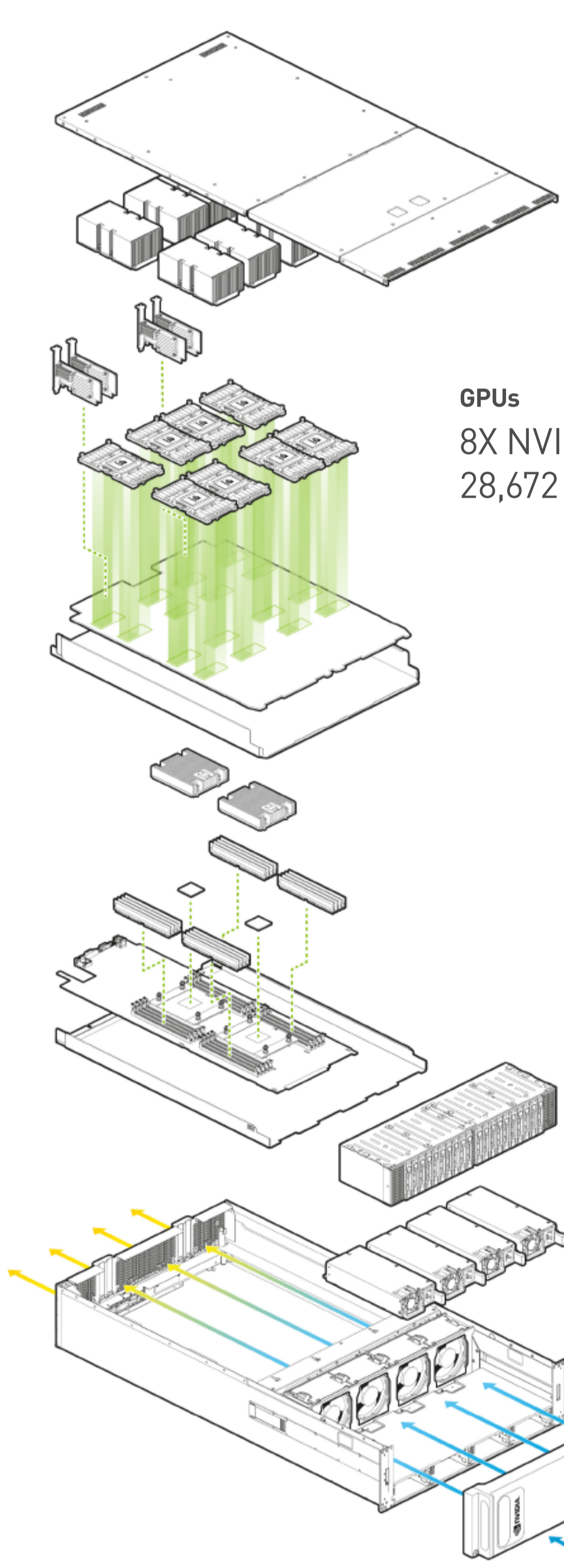
## EXPERIENCE A TRUE TURNKEY SOLUTION WITH FULLY INTEGRATED SOFTWARE AND HARDWARE



- DEEP LEARNING FRAMEWORKS**  
Caffe, Chainer, CNTK, MatConvNet, theano, torch, TensorFlow
- DEEP LEARNING USER SOFTWARE**  
NVIDIA DIGITS™
- ACCELERATED SOLUTIONS**  
MAPD, blazegraph, Blazing, Scream Technologies, Kinetica, graphistry
- MANAGEMENT**  
NVIDIA Cloud Management Service
- DEEP LEARNING LIBRARIES**  
NVIDIA cuDNN and NCCL
- CONTAINERIZATION TOOL**  
NVIDIA Docker
- GPU DRIVER**  
NVIDIA GPU Compute Driver Software
- SYSTEM**  
GPU-Optimized Linux Server OS

### SOFTWARE

### HARDWARE



**NETWORK INTERCONNECT**  
4X InfiniBand™ 100 Gbps EDR  
2X 10GbE

**GPUs**  
8X NVIDIA Tesla® P100 16GB/GPU  
28,672 Total NVIDIA CUDA® Cores

**GPU INTERCONNECT**  
NVIDIA NVLink™  
Hybrid Cube Mesh

**SYSTEM MEMORY**  
512 GB 2133 MHz DDR4

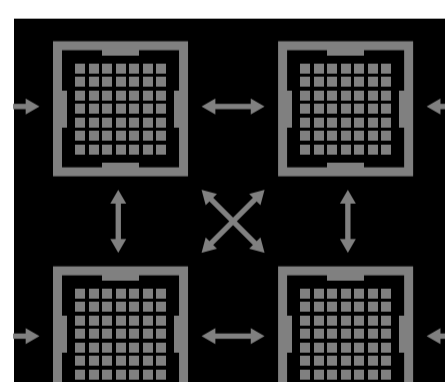
**CPUs**  
2X 20-Core Intel® Xeon®  
E5-2698 v4 2.2 GHz

**STREAMING CACHE**  
4X 1.92 TB SSDs RAID 0

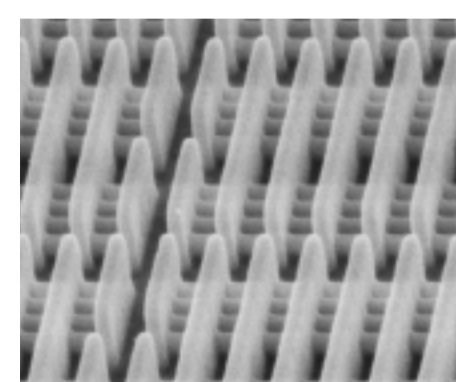
**POWER**  
4X 1600 W PSUs  
(3200 W TDP)

**COOLING**  
Efficient Front-to-Back  
Airflow

## POWERED BY 8 NVIDIA TESLA P100 GPUs BUILT ON THE LATEST NVIDIA PASCAL™ GPU ARCHITECTURE



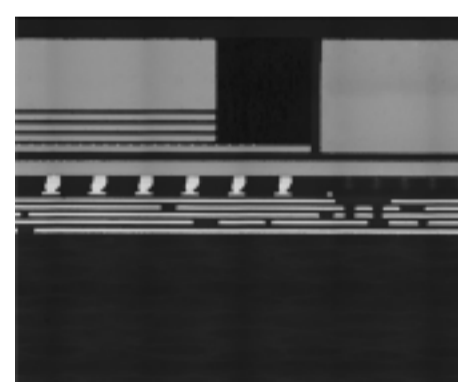
Revolutionary NVIDIA NVLink™ high-speed bidirectional interconnect for maximum multi-GPU application



16 nanometer FinFET 3D transistors for faster performance with lower power consumption



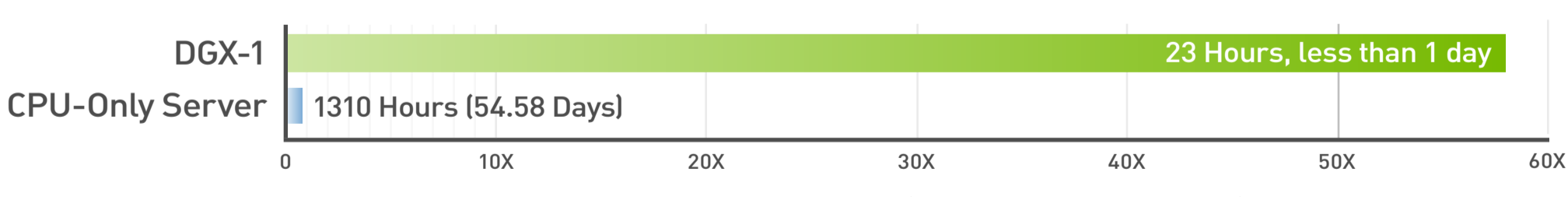
Performance-optimized deep learning software that accelerates all major deep learning frameworks



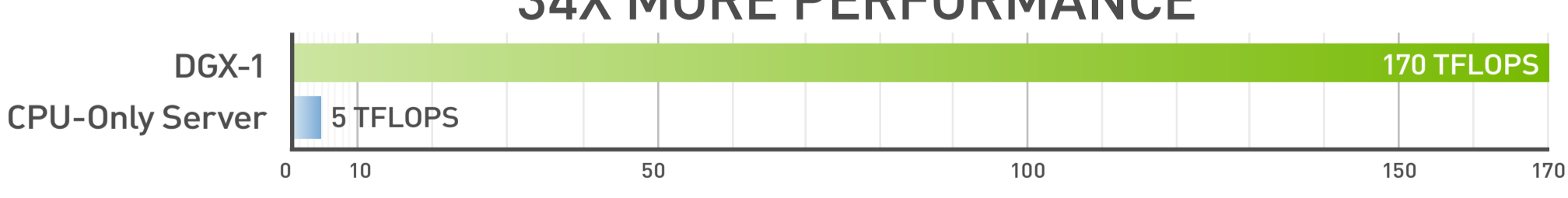
CoWoS® with HBM2 high-bandwidth memory for 3x bandwidth of previous generation at lower power

## ITERATE AND INNOVATE FASTER WITH UNPARALLELED DEEP LEARNING TRAINING PERFORMANCE

### 58X FASTER TRAINING



### 34X MORE PERFORMANCE



## GET STARTED WITH DEEP LEARNING MORE QUICKLY AND EASILY THAN EVER BEFORE WITH NVIDIA DGX-1

### DEPLOY QUICKLY AND SIMPLY

Plug-and-play setup that takes you from power-on to deep learning in minutes

### CLOUD SERVICES AND SUPPORT

Access to NVIDIA's vast deep learning knowledge, expertise, and the latest software updates



Accelerate Your Deep Learning Today

[www.nvidia.com/dgx1](http://www.nvidia.com/dgx1)

