

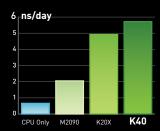




Count on NVIDIA Tesla K40 GPU Accelerators to solve your most demanding HPC and big data challenges. They feature 1.4 TFLOPS performance, 12 GB memory, and ultra-fast 288 GB/s throughput, giving you the power to process large datasets while delivering up to 10X acceleration compared to CPUs.

## FASTEST SIMULATIONS

Accelerates results with 1.4 TF of throughput, 2,880 CUDA cores, and 288 GB/s bandwidth



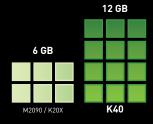
### HIGHEST PERFORMANCE

Unlocks extra application performance with NVIDIA GPU Boost technology

# **GPU Boost**

# LARGEST DATASET ACCESS

Ideal for fluid dynamics simulations, seismic analysis, and rendering applications



# Why Upgrade?

Using the Tesla K40 GPU, applications run up to 40% faster than the previous-generation Tesla K20X and 280% faster than the Tesla M2090.

#### Features and Benefits

NVIDIA GPU Boost™: On-demand performance boost to attain up to 25% additional application speedup

**Streaming Multiprocessor (SMX):** Perform 3X the workload with the same power budget.

#### NVIDIA Kepler™ Architecture: Accelerate all your applications with the world's fastest, most efficient HPC architecture.

**ECC Memory:** Address a critical requirement for computing accuracy and reliability in supercomputing and data centers.

#### System Monitoring Features:

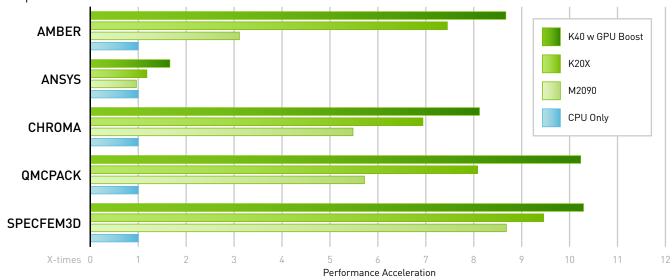
Manage GPU processors in computing systems using widely used cluster/grid-management solutions.

#### Test Drive Tesla K40

Experience the acceleration for yourself by trying the Tesla K40 free. www.nvidia.com/gputestdrive#s=1

# **APPLICATION PERFORMANCE**

The NVIDIA Tesla K40 delivers up to 10x application performance compared to CPUs and up to 2.8x speed up compared to Tesla M2090.



Dual E5-2687W, 16 Cores, 3.1GHz. 64GB DDR3, ECC On. CentOS 6.2 x86 64.

# Top GPU-Accelerated Applications

MOLECULAR DYNAMICS	QUANTUM CHEMISTRY	DEFENSE	MATH/PHYSICS	MEDIA & ENTERTAINMEN
> AMBER	> GAMESS	> Intuvision Panoptes 3.0	> Chroma	> Autodesk 3ds Max
> CHARMM	> LAMMPS	> Intergraph Motion Video	> MATLAB	> Adobe Photoshop
> GROMACS	> QMC PACK	Analyst	> MILC	> Adobe Premier
> NAMD	> TeraChem	> GeoWeb3d Desktop > Luciad	> ENZO	> Sony Vegas Pro
FLUID DYNAMICS > ANSYS Fluent	STRUCTURAL MECHANICS > ANSYS Mechanical	VISUALIZATION & DOCKING	COMPUTATIONAL FINANCE	ELECTRONIC DESIGN AUTOMATION
> OpenFOAM	> Abaqus/Standard	> VMD > FastROCS	> Murex MACS > NAG (Numerical Algorithms Group)	> Agilent EMPro > CST Microwave Studio

To see the complete list of more than 270 GPU-accelerated applications, visit www.nvidia.com/teslaapps

For more information on Tesla GPU accelerators, visit www.nvidia.com/tesla

