



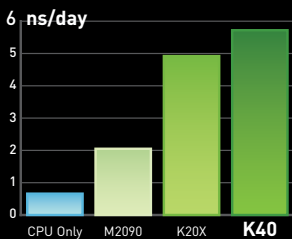
# UPGRADE TO THE WORLD'S FASTEST GPU ACCELERATOR. NVIDIA® TESLA® K40



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.

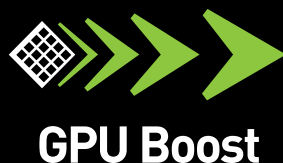
### FASTEST SIMULATIONS

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



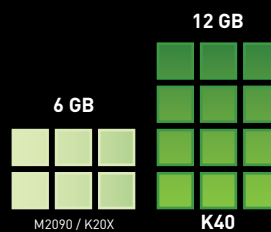
### HIGHEST PERFORMANCE

Unlocks extra application performance with NVIDIA GPU Boost technology



### 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.

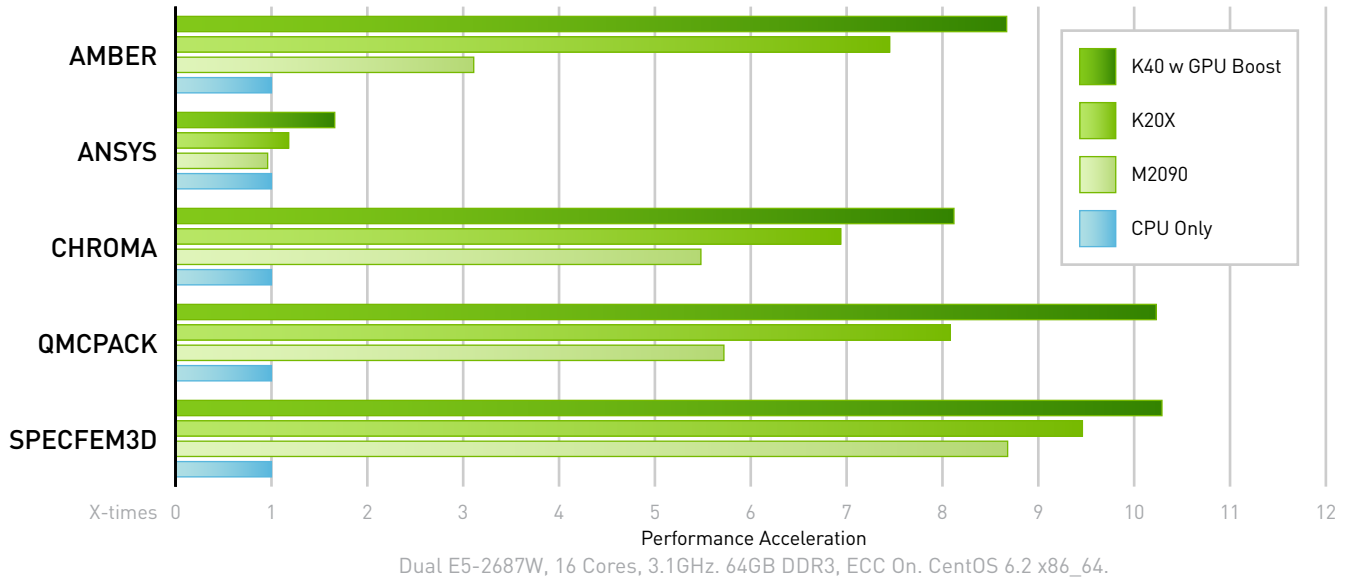
**System Monitoring Features:** Manage GPU processors in computing systems using widely used cluster/grid-management solutions.

### Test Drive Tesla K40

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



## Top GPU-Accelerated Applications

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

To see the complete list of more than 270 GPU-accelerated applications, visit [www.nvidia.com/teslaapps](http://www.nvidia.com/teslaapps)

For more information on Tesla GPU accelerators, visit [www.nvidia.com/tesla](http://www.nvidia.com/tesla)