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.

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?sf=1](http://www.nvidia.com/gputestdrive?sf=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

- MOLECULAR DYNAMICS
  - AMBER
  - CHARMM
  - GROMACS
  - NAMD
- QUANTUM CHEMISTRY
  - GAMESS
  - LAMMPS
  - QMC PACK
  - TeraChem
- DEFENSE
  - Intuision Panoptes 3.0
  - Intergraph Motion Video Analyst
  - GeoWeb3d Desktop
  - Lucid
- MATH/PHYSICS
  - Chroma
  - MATLAB
  - MILC
  - ENZO
- MEDIA & ENTERTAINMENT
  - Autodesk 3ds Max
  - Adobe Photoshop
  - Adobe Premier
  - Sony Vegas Pro

- FLUID DYNAMICS
  - ANSYS Fluent
  - OpenFOAM
- STRUCTURAL MECHANICS
  - ANSYS Mechanical
  - Abaqus/Standard
- VISUALIZATION & DOCKING
  - VMD
  - FastROCS
- COMPUTATIONAL FINANCE
  - Murex MACS
  - NAG (Numerical Algorithms Group)
- ELECTRONIC DESIGN AUTOMATION
  - 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

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