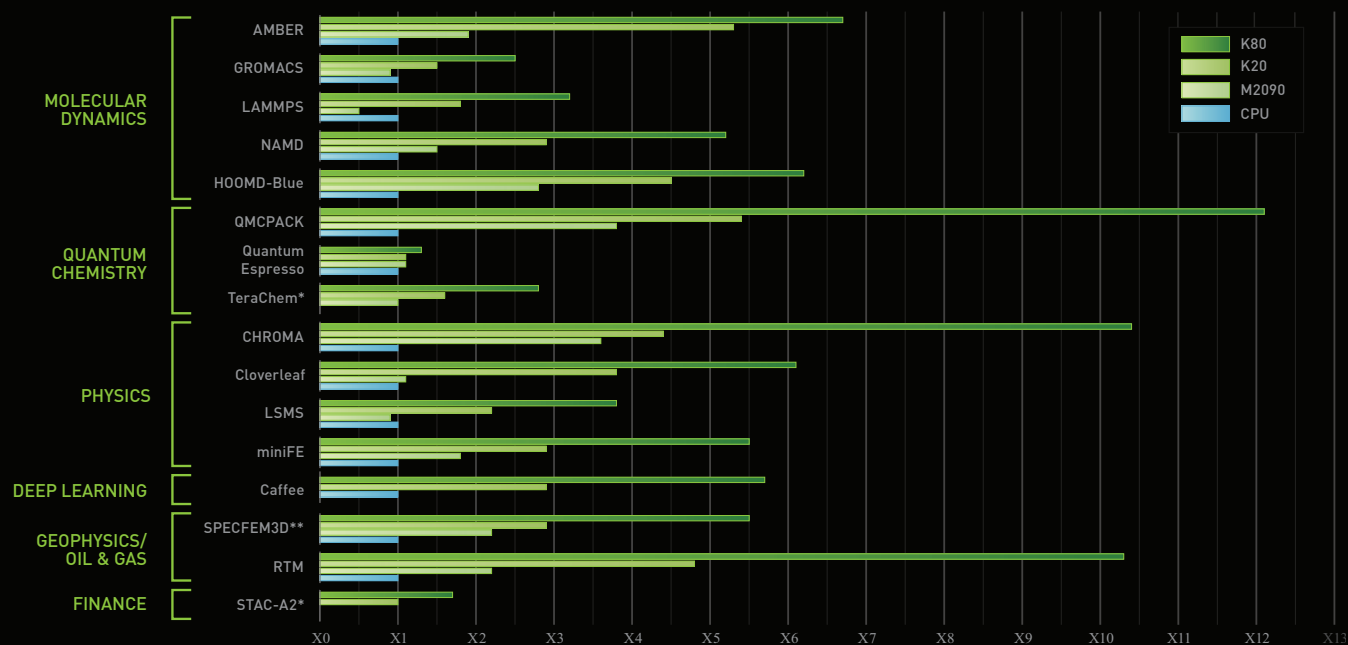


FASTER RESULTS AND INSIGHTS NVIDIA TESLA K80

Unleash more performance for your application.

The NVIDIA® Tesla® K80 is the world's most powerful accelerator built for high-performance computing and machine learning applications. It delivers a 10x speed-up compared to the latest CPUs, and up to 4x acceleration over previous Tesla GPUs.



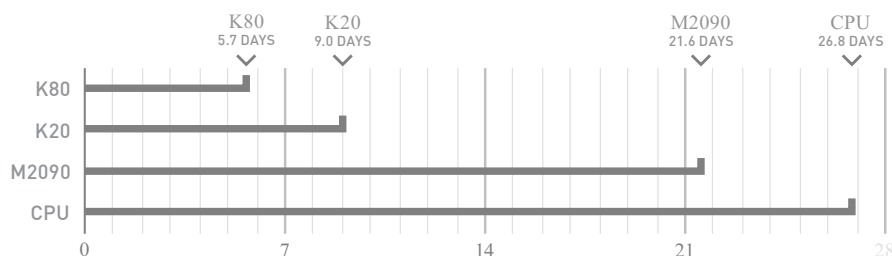
CPU Server: E5-2698 v3 2.3GHz 3.6GHz Turbo (Haswell-EP) HT off, GPU Server: Dual Socket E5-2698v3@2.3GHz Dual Tesla M2090/K20/ K80 GPU Boost enabled

*CPU comparison not available.

** SPECFEM3D uses E5-2697 v2 2.7GHz processor

Accelerate application simulations.

AMBER, a popular Molecular Dynamics application, takes weeks to months to complete on multi-core CPUs or older-generation GPUs. With Tesla K80, the results are determined within days.



CPU Server: Dual Socket E5-2698v3 2.3GHz; GPU Server: Dual Socket E5-2698v3 2.3GHz Dual Tesla K80/K20/M2090
GPU Boost enabled

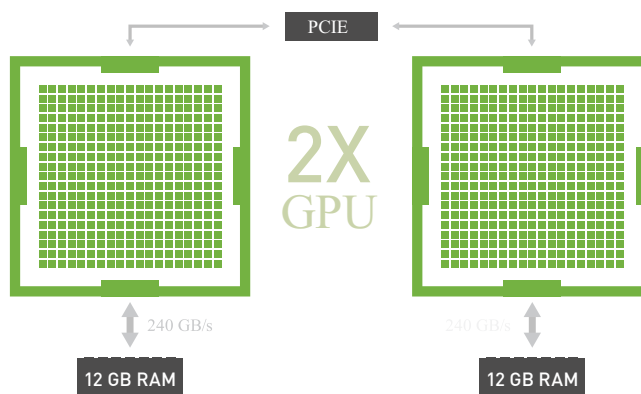
Take advantage of powerful new features.

Dual GPU Accelerator

With two GPUs delivering total memory bandwidth of 480 GB/s, data-intensive applications will experience the best performance on the K80.

GPU Boost

Realize more than 40% higher application performance by intelligently scaling clocks to the maximum setting. Each application runs at peak performance while remaining within the power and thermal envelope.



24 GB of GPU Memory

Tesla K80 is the first accelerator to offer 24 GB of high-speed GDDR5 memory. That's four times larger than the Tesla M2090 and K20, and big enough to accelerate the most data-intensive applications with less resources.

2x Shared Memory

Tesla K80 has double the on-chip memory and registers, accelerating applications by up to 30% faster without any change to the code by enabling more threads to run concurrently.

Explore 300+ GPU-accelerated applications in areas such as:

- > Data Analytics
- > Defense
- > Numerical Analytics
- > Physics
- > Structural Mechanics
- > Machine Learning
- > Molecular Dynamics
- > Oil and Gas
- > Quantum Chemistry
- > Weather and Climate

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

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

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HIGH PERFORMANCE COMPUTING

