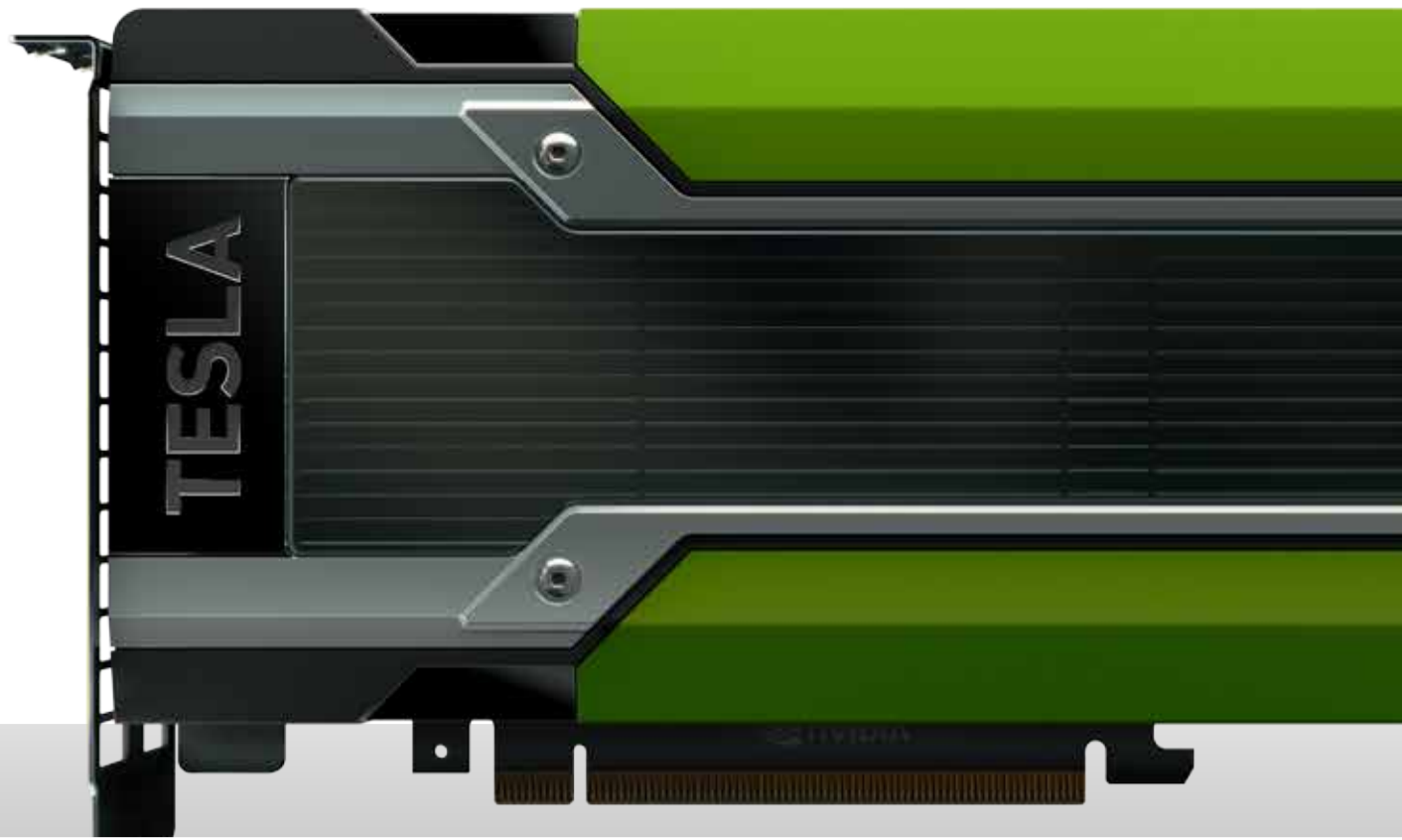


# BOOST YOUR CODE

## NVIDIA® TESLA® K80 FOR THE ACCELERATED DATA CENTER



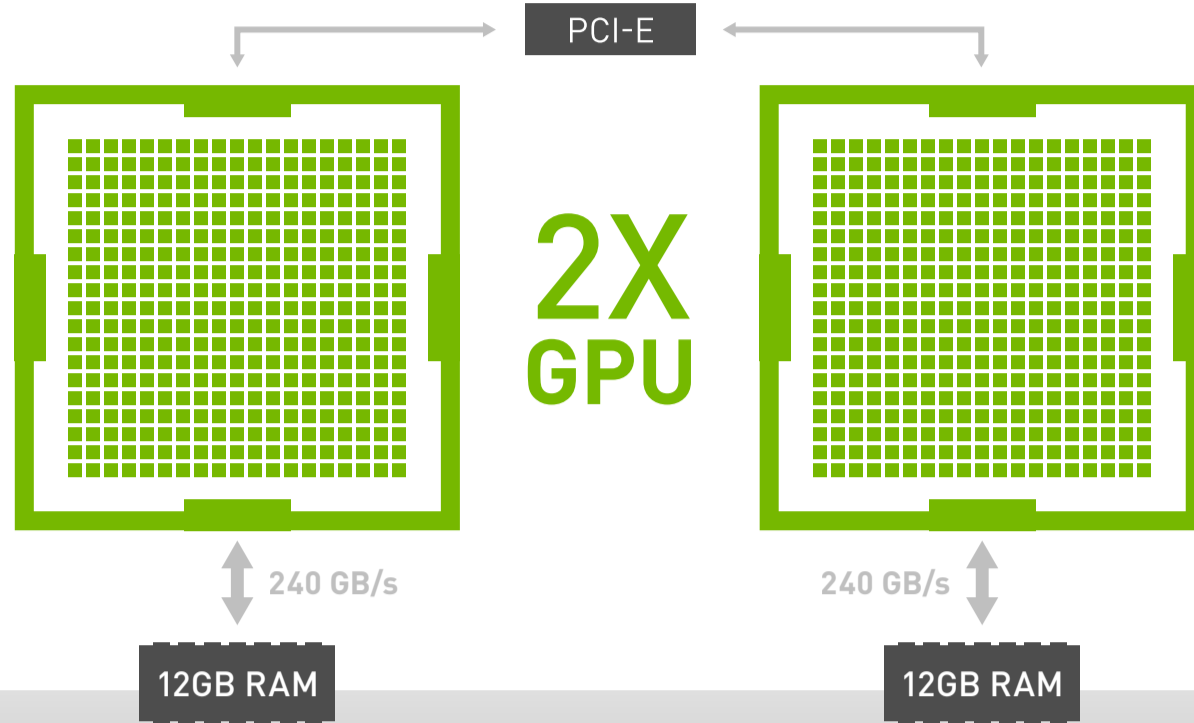
### ENGINEERED TO MAXIMIZE APPLICATION PERFORMANCE

#### DUAL GPU ACCELERATOR

Dual GPU design allows for higher overall application throughput.

#### GPU BOOST

Dynamic GPU boost automatically maximizes application performance by taking advantage of any available power headroom.



#### 24 GB GPU MEMORY

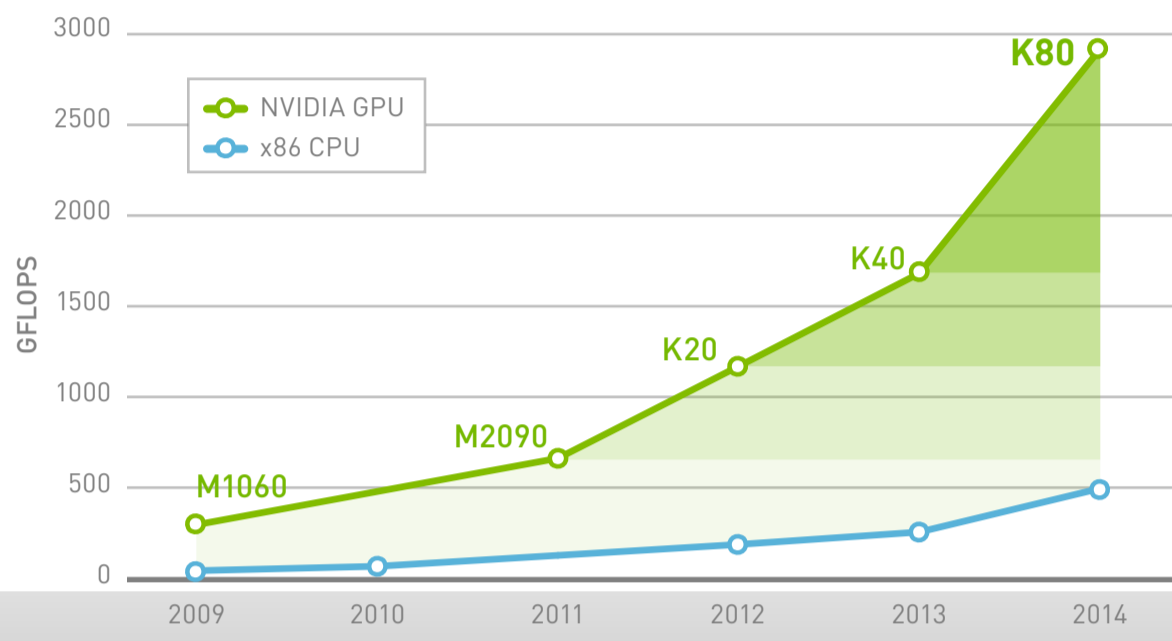
Double memory enables the K80 to run bigger data applications.

#### 2X SHARED MEMORY

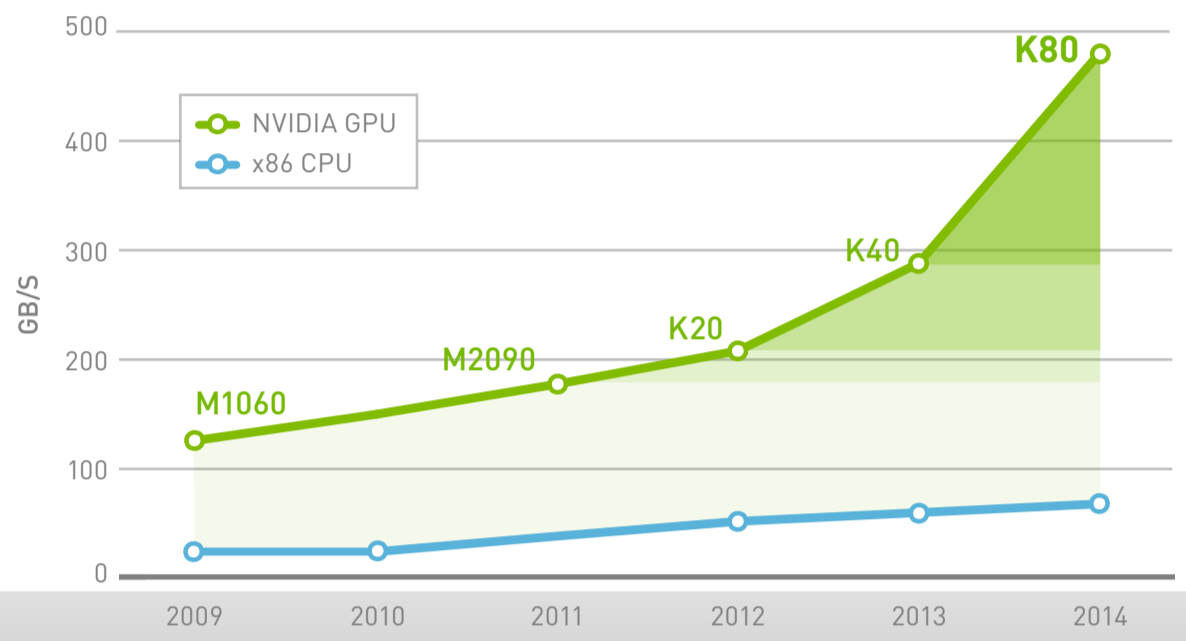
Enables more concurrent threads to deliver significant speedup without changes to GPU-accelerated code.

### A GIANT LEAP IN PERFORMANCE

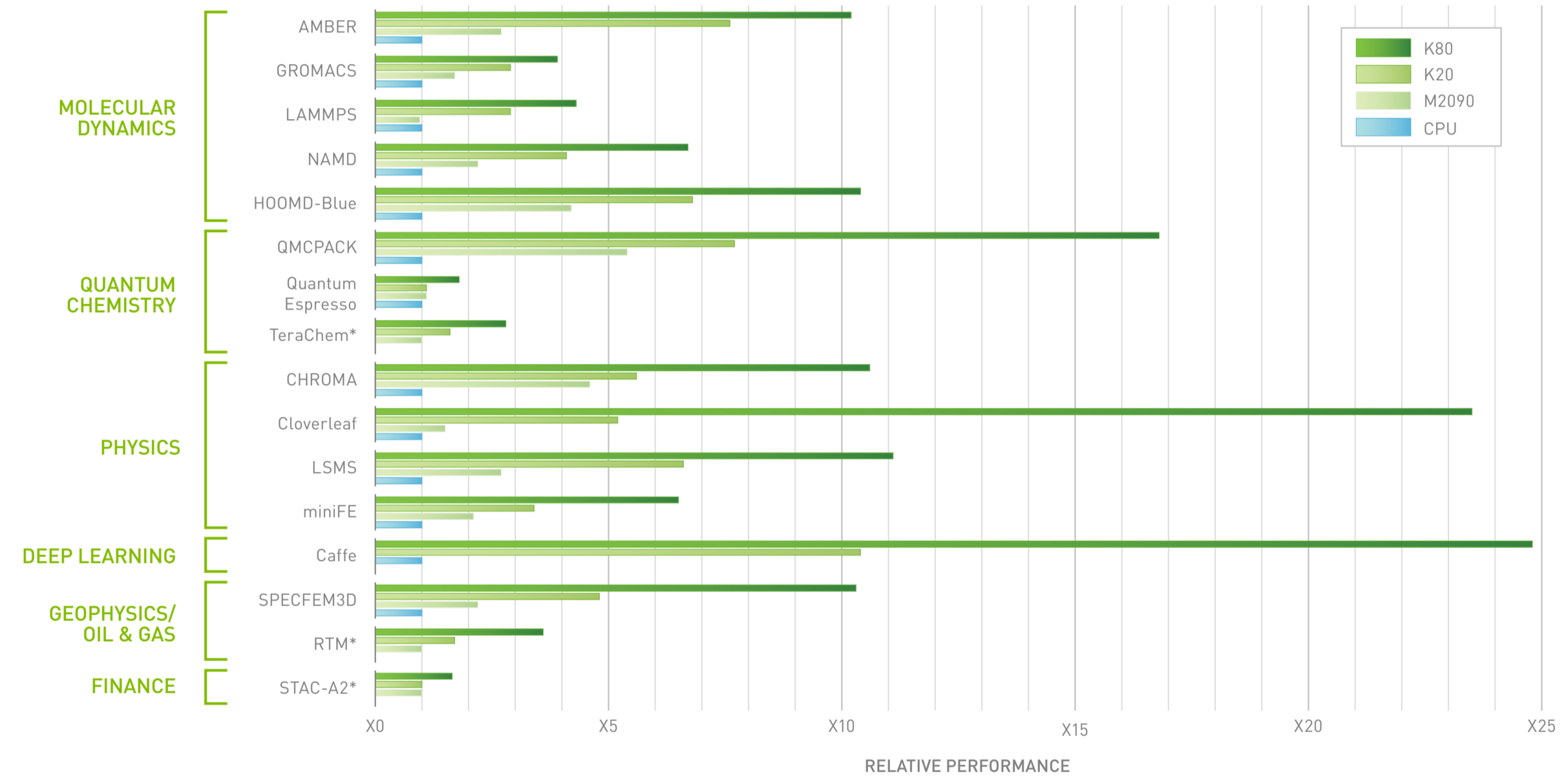
#### PEAK DOUBLE PRECISION FLOPS



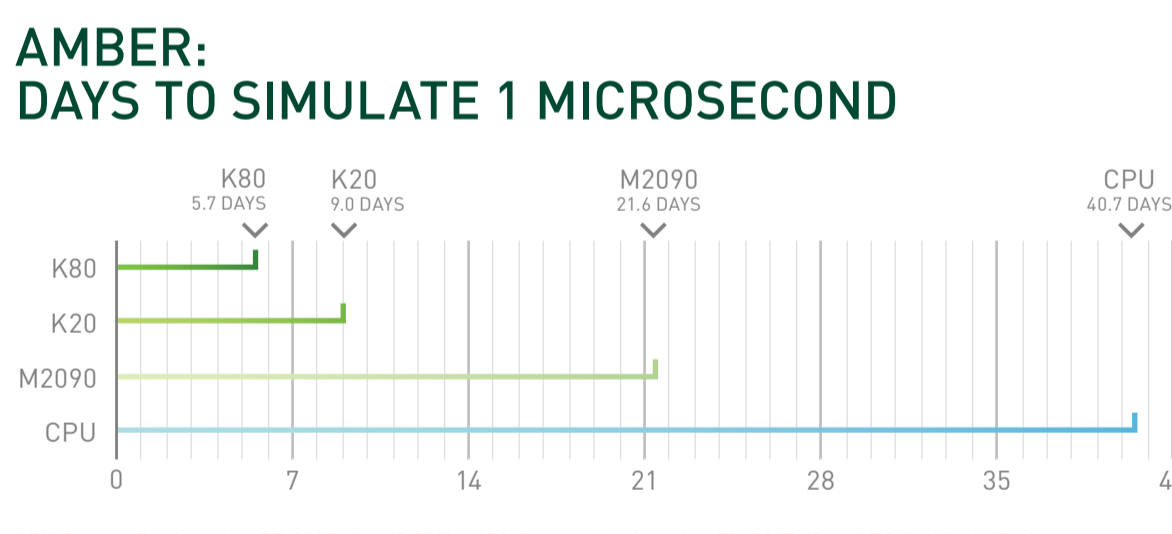
#### PEAK MEMORY BANDWIDTH



### PERFORMS 2-4X FASTER THAN ITS PREDECESSORS



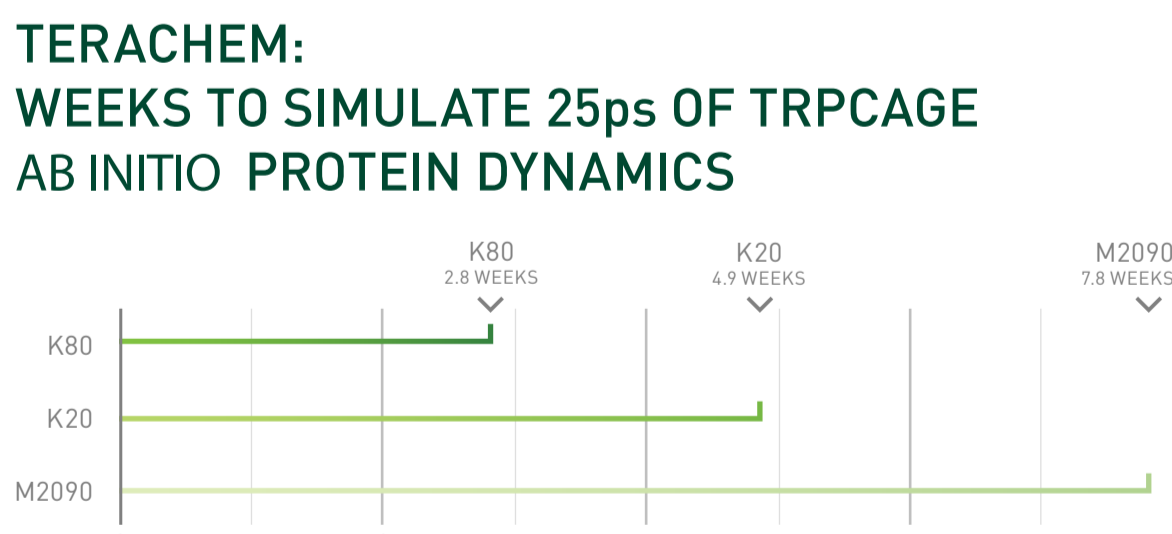
### MOLECULAR DYNAMICS AMBER: DAYS TO SIMULATE 1 MICROSECOND



Eight of these Tesla K80s in one system combine 16 GPUs in a node—that's almost 1.4 microseconds aggregate of MD per day for a 25K atom system! For the same workload, a dual-socket CPU server would take over two and a half months to complete.

Prof. Ross Walker, San Diego Supercomputer Center

### QUANTUM CHEMISTRY TERACHEM: WEEKS TO SIMULATE 25ps OF TRPCAGE AB INITIO PROTEIN DYNAMICS

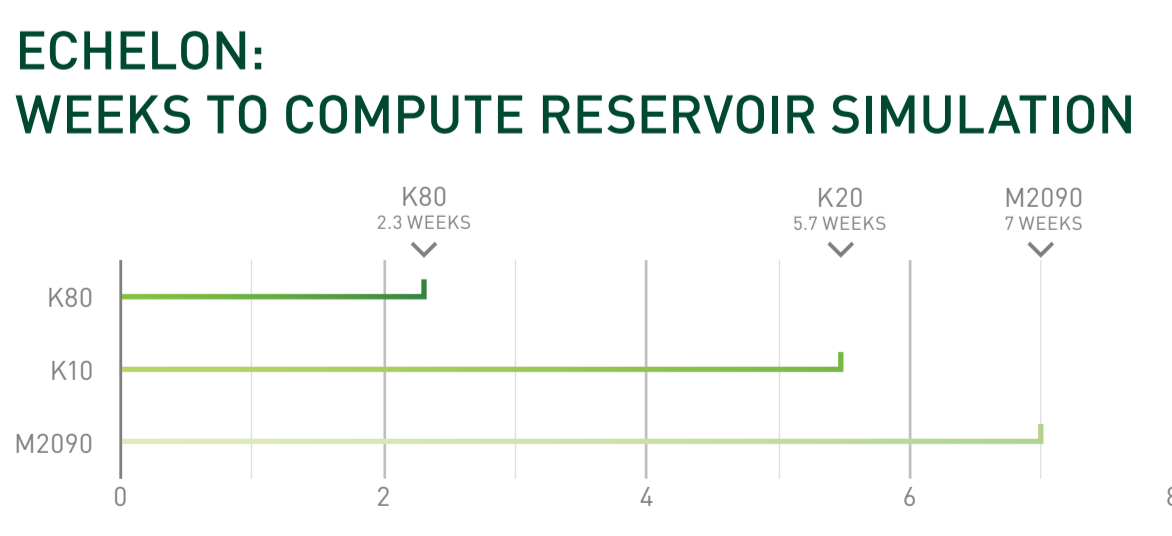


TeraChem is used by researchers worldwide to understand electronic structures for discoveries ranging from efficient photovoltaic material to drug development.

Tesla K80 delivers 2.8x performance over Fermi GPUs, enabling researchers to accelerate their computation from months to weeks.

Prof. Todd Martinez, Stanford University

### OIL AND GAS ECHELON: WEEKS TO COMPUTE RESERVOIR SIMULATION



Oil and gas companies can accelerate reservoir simulations with Tesla K80 by 2-3x compared to Tesla K10 and M2090 GPUs.

In addition, Tesla K80 handles 3-4x larger models, so engineers can run more detailed simulations.

Ken Esler, Senior Physicist, Stoneridge Technology



Colfax CX4850-XK6

#### Colfax CX4850-XK6

- 8x NVIDIA® Tesla® GPUs
- 2x Intel® Xeon® Processors E5-2600 v3 Product Family
- Up to 768GB DDR4 Memory
- 10x 2.5"/3.5" Hot-Swap Drives



#### Colfax International

Buy it from a trusted giant. Colfax provides the most comprehensive range of innovative, cutting-edge and highly customized GPU solutions. With outstanding price/performance and technical support, Colfax is a leading choice of scientists and engineers for GPU-accelerated data modeling, simulation and real-time visualization solutions.

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