

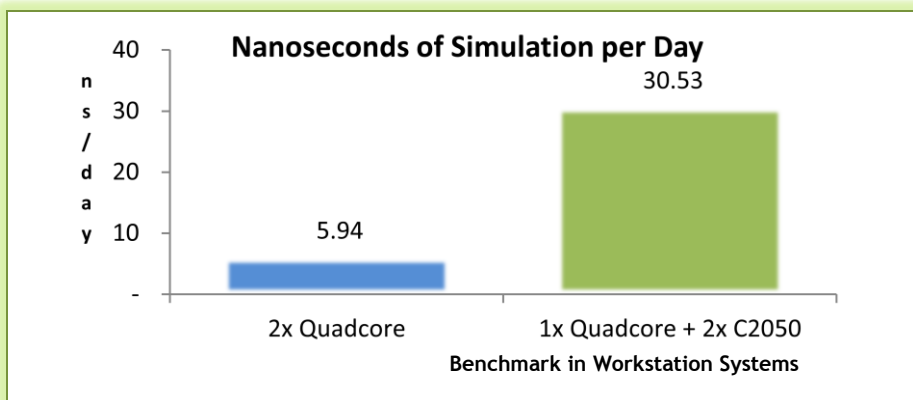


Accelerate AMBER from Hours to Minutes

NVIDIA Tesla GPUs can significantly reduce your AMBER 11 simulation time and ultimately accelerate your research discovery. See how other computational researchers are experiencing supercomputer-like performance in a small cluster or in a workstation.

CHALLENGE

Researchers today are solving the world's most challenging and important problems. From cancer research to drugs for AIDS, computational research is bottlenecked by simulation cycles per day. More simulations mean faster time to discovery.



SOLUTION

GPU computing transforms the way researchers solve their most important problems. They can create more accurate models while simulating them faster, enabling faster discovery with less defect risk.

CASE: Acceleration Enables Rapid Response to H1N1

University of Illinois, Urbana-Champaign

- Responding to a pandemic like H1N1 requires quickly developing drugs to effectively treat a new virus that is likely to evolve.
- A research group at University of Illinois found that a single simulation of a 35k atom system would take **more than a month** on a CPU.
- The group turned to GPUs to accelerate discovery, and found GPU-accelerated simulations completed in **just over an hour**.
- This speed and performance increase not only enabled researchers to fulfill their original goal- testing Tamiflu's efficacy in treating H1N1 and its mutations- but it also bought them time to make other important discoveries.

RECOMMENDED SYSTEMS

We partner with innovative solutions providers such as:

- AMAX
- Colfax
- Microway
- Silicon Mechanics

For more info on these or other partners, go to:

http://www.nvidia.com/object/tesla_wtb.html

OEM Workstation Solution



- 2x Tesla C2050 GPUs
- Dual Socket Xeon CPUs
- 12GB DDR3

<http://h10010.www1.hp.com/wwpc/pscmisc/vac/us/en/sm/workstations/z800.html>

OEM Cluster Solution



- Dell PowerEdge C410x with 16 Tesla M2050 GPUs
- Dell PowerEdge C6100 Server with 4 Quad-Core CPUs

<http://www.dell.com/us/en/enterprise/servers/poweredge-c410x/pd.aspx?refid=poweredge-c410x&s=biz&cs=555>