



New NVIDIA Tesla Doubles the Performance for Thousands of Cuda Developers Worldwide

Oak Consulting, June 24, 2008

URL: <http://www.pr9.net/comp/hardware/8515june.html>

NVIDIA Tesla® and CUDA™ Technologies Together Deliver a Complete Computing Solution for the Entire HPC Industry.

PR9.NET June 24, 2008 - DUBAI, UAE - From video encoding to oil and gas exploration and from medical imaging to scientific research, thousands of CUDA developers in the high performance computing (HPC) community are leveraging a revolutionary GPU computing platform that was announced just one year ago. With over 60,000 downloads of the C-compiler to date, the combination of CUDA™ and Tesla® technologies have been the foundation for industry changing applications, making it the most rapidly adopted GPU computing technology platform in the HPC community.

"GPU Computing is coming at a time when we are running out of gas for time-critical forecasts on conventional clusters," says National Center of Atmospheric Research's John Michalakes, lead software developer for the Weather Research & Forecasting Model "We aim to cut the time for a forecast by at least a factor of two as we incorporate NVIDIA's GPU computing technology into more of WRF. I expect the affect of accelerators in weather and climate modeling will be transformative."

"The path to great discovery is filled with many challenges and for today's scientists, engineers and researchers, in fields such as drug research, seismic exploration or medical science, one of the biggest challenges is computation," said Jen-Hsun Huang, president and CEO of NVIDIA. "The GPU is taking high performance computing in a fundamentally new direction. Now, hundreds of processor cores are able to work together to give scientists and engineers massive jumps in performance, while dramatically reducing the footprint in their datacenter."

The new Tesla product family includes the Tesla S1070 1U computing system and the Tesla C1060 computing processor and delivers:

- Double the performance: up to 4 Teraflops per 1U system
- Double precision: IEEE 754 arithmetic support
- Double the memory: with 16 Gigabytes of memory per 1U system
- Up to 3x the power efficiency: for a more efficient computing environment

"As a world leader of derivatives, BNPParibas is constantly investing in research for more efficient financial calculations. To this end, we are currently conducting research on the use of GPUs to speed up options processing and early access to the new NVIDIA Tesla products has been highly beneficial. These experiments, done with ANEO consulting firm, delivered very promising results with impressive performance speedup and exceptional accuracy. The Tesla 10 Series, which offers IEEE 754 double precision compliance, is also a very important step forward for us," says Stephane Tyc, BNPParibas Global Head of Equities & Derivates Quantitative Research.

When combined with the award-winning CUDA C-language development software for parallel computing, the new Tesla products extend the reach of GPUs to any computationally intensive applications requiring double precision accuracy. To date, over 70 million CUDA enabled GPUs have been sold into the market and over 60,000 downloads of the C-compiler have been recorded through the community website CUDA Zone. As a result, developers across a wide variety of fields including financial analysis, astrophysics and seismic imaging are leveraging NVIDIA's CUDA development tools. These developers can now simply parallelise their software and exploit the GPU's parallel computing architecture to automatically distribute computing work to hundreds of processor cores.

The Tesla S1070 1U computing system and Tesla C1060 computing processor board are sampling today and will ship in August 2008.

For more information and for the free download of CUDA, please visit: www.nvidia.co.uk/cuda and for more information on the Tesla 10 Series computing products, please visit www.nvidia.co.uk/tesla

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About NVIDIA

NVIDIA Corporation (Nasdaq: NVDA) is the world leader in visual computing technologies and the inventor of the GPU, a high-performance processor which generates breathtaking, interactive graphics on workstations, personal computers, game consoles, and mobile devices. NVIDIA serves the entertainment and consumer market with its GeForce® GPU products, the professional design and visualisation market with its Quadro® GPU products, and the high-performance computing market with its Tesla™ computing solution products. NVIDIA is headquartered in Santa Clara, Calif. and has offices throughout Asia, Europe, and the Americas. For more information, visit www.nvidia.co.uk.

About Oak Consulting

OAK Consulting is a young and dynamic Public Relations and Marketing Consultancy company in the UAE. We are 2 like-minded entrepreneurs - creative and strategic thinkers - who bring professional and educational credentials as well as extensive PR and marketing experience to your business.

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