

## Eurotech develops industry's highest-density GPU-accelerated supercomputer cluster with NVIDIA

Hamburg - June 18, 2012. Today, Eurotech, a leading provider of embedded and supercomputing technologies, announced an agreement with NVIDIA to expand the Eurotech Aurora supercomputer product line with new energy-efficient, high-performance GPU-accelerated systems.

The agreement builds upon an existing relationship with NVIDIA, that has enabled Eurotech to develop and deliver a number of custom GPU-based solutions to HPC customers throughout Europe. It will include joint engineering efforts to develop the industry's highest density Eurotech supercomputer cluster, the Aurora Tigon, featuring 256 NVIDIA® Tesla® K20 GPUs in an X-rack configuration. The new systems are expected to deliver more than 500 teraflops of performance per rack and above 3.6 GFlops per watt, establishing an unmatched new frontier for energy-efficient supercomputer performance.

**“This tremendous power density is made possible by the combination of Eurotech’s proven liquid cooling technology and the unprecedented computing power of the new NVIDIA Kepler GPUs. We are happy to extend our offering with the greenest range of HPC solutions in the world.”** says Giampietro Tecchioli, Eurotech CTO.

Using current-generation NVIDIA Fermi GPUs, the current Aurora supercomputer delivers energy-efficient performance in the range of 2.5 GFlops per watt. Once next-generation NVIDIA Tesla K20 GPUs based on the new [NVIDIA Kepler™ computing architecture](#) are available later this year, the Aurora system is expected to deliver approximately 3.6 GFlops per watt, while keeping power usage effectiveness (PUE) within the 1.05-1.1 range.

By leveraging NVIDIA Kepler GPUs, the Aurora systems have the horsepower necessary to break through the desirable .5 petaflops per rack barrier.

The new Eurotech product is expected to be the base technology for the development of the PRACE 2IP co-funded prototype action with the project called “Eurora,” which is led by the CINECA supercomputing center in Italy. CINECA will deploy this new prototype system in the fields of computational sciences, including fundamental constituents of matter, condensed matter, astrophysics, life sciences and Earth sciences.

“The new Eurora prototype system will be available to scientists in Europe, who will have the possibility to get access to one of the most advanced and innovative HPC solutions, expanding CINECA offering to the community,” says Sanzio Bassini, CINECA HPC Associate director.

The NVIDIA Tesla K20 GPU is the new flagship of the Tesla GPU product family, designed for the most computationally intensive HPC environments. Expected to be the world’s highest-performance, most energy-efficient accelerator, the Tesla K20 GPU is planned to be available in the fourth quarter of 2012.

“Eurotech’s high-density, liquid-cooled systems provide the highest performance per rack for deploying large-scale systems,” said Sumit Gupta, senior director of the Tesla business unit at NVIDIA. “By setting a new standard for energy-efficient, high performance computing, the new Aurora system promises to broaden the adoption of GPU-accelerated computing for a range of engineering and scientific disciplines.”

For further information visit **the Eurotech booth (# 750) at the ISC’12 trade show.**

#### About Eurotech

Eurotech (ETH.MI) is a global company based in Italy and with subsidiaries in Europe, North America and Asia. The Eurotech Group develops and markets miniaturized computers for special uses (NanoPCs) and computers featuring high computing capacity (HPCs – High Performance Computers). With these two product categories Eurotech aims to become a leader in the implementation of the pervasive computing scenario which, by exploiting the Cloud IT infrastructure, is capable of enabling an entire range of value-added activities and services in the transport, logistics, security, industrial and medical sectors. Learn more about Eurotech at [www.eurotech.com](http://www.eurotech.com)

#### About NVIDIA

NVIDIA (NASDAQ: NVDA) awakened the world to computer graphics when it invented the GPU in 1999. Today, its processors power a broad range of products from smartphones to supercomputers. NVIDIA's mobile processors are used in cell phones, tablets and auto infotainment systems. PC gamers rely on GPUs to enjoy spectacularly immersive worlds. Professionals use them to create 3D graphics and visual effects in movies and to design everything from golf clubs to jumbo jets. And researchers utilize GPUs to advance the frontiers of science with high performance computing. The company has more than 5,000 patents issued, allowed or filed, including ones covering ideas essential to modern computing. For more information, see [www.nvidia.com](http://www.nvidia.com)

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