



PRESS RELEASE

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Petapath selected for PRACE program

As part of the pan-European Partnership for Advanced Computing in Europe (PRACE), start-up company Petapath plans to deliver prototype petaflop/s high-performance computing systems

UK start-up company Petapath (Bristol, UK) has been selected as a project partner in the pan-European Partnership for Advanced Computing in Europe (PRACE) (www.prace-project.eu). Funded by the EU's 7th Framework, PRACE brings together partners from 20 countries and involves 91% of Europe's high performance computing (HPC) power.

Petapath's role in the project will be to work with industry leaders HP and SGI to deliver two prototype petaflop/s systems using Petapath's accelerator technology. These two systems will be used for assessment and development work leading to procurement of future multi-petaflop/s systems.

Petapath's accelerator technology can dramatically increase computer performance with only modest increases in power dissipation. This brings enormous benefits to users of HPC, be they in academia or industry.

Petapath was set up in 2009 with the aim of delivering heterogeneous computing solutions to a range of applications in the high-performance computing sector.

Systems used in enterprise computing often use only a fraction of their available computing capacity. Petapath's technology will give customers access to this unexploited capacity, delivery increased computer performance with only a moderate increase in power usage.

"When dedicated accelerators, GPUs and FPGAs started being used to accelerate computation, the available development tools and environments were not intended for this use and were unfamiliar to most scientists or engineers," explains Michal Harasimiuk, CEO of Petapath. "Our expertise lies in programming these accelerators and heterogeneous cores to get the most out of their capabilities."

Petapath's software, which uses existing standards, is platform-independent and exploits powerful distributed computing technology to harness the parallel processing capabilities of multi-core GPUs/CPUs. It is applicable to any industry that require energy-efficient high-performance computing power such as the finance industry, oil and gas companies, scientific computing applications and the aerospace industry.

"Because we are platform independent, we can work with a wide variety of hardware providers to deliver the best solution to our customers," says Harasimiuk. "Using multi-core technology, combined with accelerators, we can reduce simulation times from weeks to hours."

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About Petapath

Petapath is a supplier of heterogeneous computing solutions in the high-performance computing sector. Its expertise and technology dramatically increases computing performance with only a moderate increase in power dissipation. Petapath's software technology can be applied to any application using high-performance computing, from banking and entertainment, to scientific and mathematical modelling. Petapath's technology is a cost-effective, energy-efficient way of increasing computer performance into the petaflop/s regime.

www.petapath.com

About PRACE

The Partnership for Advanced Computing in Europe (PRACE), is preparing the creation of a persistent, pan-European research infrastructure that will provide a leading high-performance computing service to enable world-class science. Funded by the EU's 7th Framework, PRACE

brings together partners from 20 countries and involves 91% of Europe's HPC power. The objective of the two year project is the completion of the necessary legal, administrative, and technical work that will allow the permanent research infrastructure to start operation in 2010.

www.prace-project.eu