



PRESS RELEASE

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Press contact:
Michal Harasimiuk
michal@petapath.com
+44(0)117 911 7544
+44(0)778 718 5248

Start-up enables energy-efficient high-performance computing

Petapath's expertise and technology can dramatically increase computing performance with only modest increases in power dissipation.

Four experts in high-performance computing have set up Petapath (Bristol, UK), a company aimed at 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 the unexploited capacity, delivering increased performance with only a moderate increase in power usage.

"When GPUs/CPUs and FPGAs started being used to accelerate computation, the available development tools and environments were not intended for this use and were unfamiliar to the typical scientist or engineer," explains Michal Harasimiuk, CEO of Petapath. "Our expertise lies in programming these accelerators and heterogeneous systems 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 CPUs/GPUs. 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, we can reduce simulation times from weeks to hours.”

Harasimiuk and his co-founders, Neil Hickey, Dairsie Latimer and Phillip Power met while working at hardware supplier ClearSpeed (Bristol, UK), one of the innovators in accelerator technology. The founders have many years of expertise in heterogeneous systems for high-performance computing. They were part of the team which developed the Tsubame – the first heterogeneous supercomputer to make it into the Top500 list of supercomputers – and have expertise in embedded systems, compiler and low-level coding, programming tools and enterprise applications.

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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.

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