

# MARKETSTUDY

Petapath



## Contact

Michal Harasimiuk  
+44 117 911 7544  
michal@petapath.com

Multi-core  
Acceleration  
Optimization  
Parallelization

## Proof of Market study for innovative and power efficient systems for enterprise computing

### Background

Petapath, founded in October 2008, is a specialist in the delivery of integrated heterogeneous computing solutions. Amongst its successes, Petapath has already secured important and prestigious customer engagements – the main being the inclusion in the PRACE programme – a pan-European Partnership for Advanced Computing funded by the FP7 programme.

The purpose of PRACE is to define next generation computer architectures and evaluate their scalability and usability beyond petascale computational throughput.

Such research is necessary, because of the many important trends in computing over the last decade, mainly the advent of multicore processors and the emergence of co-processors and hardware accelerators.

Consistent with this, Petapath is now being funded by the SWRDA (South West Research and Development Agency), to assess the suitability of advanced architectures at an enterprise level.

### The purpose of the study

The problem for enterprises is how to maximize the exploitation of these trends without facing the increasing complexity of the implementation, especially that the hardware advances of the last decade generally outpaced the necessary changes in software.

The purpose of the study is to identify and assess key areas of system architecture and software methodology, using specific examples to test where the greatest level of gain would be for enterprises.

### The benefits to enterprise

It is anticipated that this project will lead to new solutions, which deliver enhanced return on investment through maximizing the efficient use of existing systems and of IT skills.

### The benefits to organizations participating in the study

We anticipate that the results of the study will generate a direct review of the new and emerging trends affecting key areas of system architecture and software methodology. Participants will have full information of the results of the study and the opportunity, if wished for, to take part in the follow-on stage, where the future solutions will be tested.

### The process

The study will be performed in four phases:

- Discovery meeting
- Series of technical and business meetings
- Evaluation of inputs
- Definition and presentation of preliminary product specifications

### The cost

There are no costs to participate in the study.