

## SiPearl Collaborates with NVIDIA on Enabling Accelerated Computing Solutions with European Microprocessor

SiPearl, the European company designing the high-performance and low-power microprocessor for exascale<sup>(1)</sup> supercomputing, and NVIDIA announce a collaboration to provide a joint offering combining SiPearl HPC microprocessors with NVIDIA accelerated computing and networking portfolio.

**Maisons-Laffitte (France), 29 May 2022** – SiPearl, the company designing the high-performance, low-power microprocessor for European exascale supercomputers, has entered into a strategic collaboration agreement with NVIDIA for joint technical and business developments aiming to combine both companies' portfolio of hardware and software solutions.

NVIDIA and SiPearl will develop a proxy platform for porting activities and SVE workload analysis combining the strengths of SiPearl CPU (such as HBM memory) and NVIDIA GPU (including massive parallelism and throughput). The collaboration will include joint efforts with third-party European research institutions on elements such as SoC and NoC simulation capabilities in open-source and research-oriented modeling tools.

On the software side, the two companies will accelerate the development and growth of the Arm HPC ecosystem working closely with several European Centres of Excellence. On the hardware side, SiPearl and NVIDIA will work together to make sure the NVIDIA accelerated computing and networking portfolio continue to work seamlessly with SiPearl 'Rhea' and future CPUs.

This collaboration with NVIDIA will expand the ecosystem of acceleration solutions provided in combination with SiPearl HPC microprocessors. With this partnership, SiPearl extends its portfolio of partner acceleration solutions. The objective is to offer the best combinations to perfectly meet the application needs of the European HPC community across the strategic fields of academic, artificial intelligence, health, climate, energy, engineering, geology and government.

*"We are excited about this collaboration between SiPearl and NVIDIA. It holds great potential for the European supercomputing space, the ARM ecosystem and accelerated computing,"* says Dr. Thomas Lippert, Head of Jülich Supercomputing Centre.

*"As the European leader in HPC and AI, we're glad to see SiPearl collaborate with NVIDIA to provide optimized ARM-based compute and AI solutions, as well as future exascale designs, to the local HPC ecosystem,"* says Emmanuel le Roux, Global SVP, Head of HPC AI & Quantum, Atos.

*"We welcome this collaboration with the global No 1 GPU provider for HPC, NVIDIA. This partnership will dramatically enrich our joint offering of our HPC microprocessors with partner acceleration solutions, providing choice to European supercomputer end-users,"* says Philippe Notton, SiPearl's CEO and founder.

*"HPC research has the potential to transform society with beneficial discoveries," says Marc Hamilton, vice president of Solutions Architecture and Engineering at NVIDIA. "NVIDIA is collaborating with SiPearl, a leading innovator using Arm based CPUs to integrate NVIDIA accelerated computing and equip HPC researchers with the extreme performance demanded by next-generation applications to fuel these discoveries."*

## About... SiPearl

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SiPearl is designing the high-performance, low-power microprocessor for European exascale supercomputers. This new generation of microprocessors will enable Europe to set out its technological sovereignty in strategic high performance computing (HPC) markets such as artificial intelligence, medical research or climate modelling.

The company is working in close collaboration with its 27 partners from the European Processor Initiative (EPI) consortium - leading names from the scientific community, supercomputing centres and industry - which are its stakeholders, future clients and end-users.

SiPearl employs 104 people in France (Maisons-Laffitte, Grenoble, Massy, Sophia Antipolis), Germany (Duisburg) and Spain (Barcelona).

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*(1) One billion billion calculations per second.*