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Atos Launches Open Edge and HPC Initiative for the coming 5G World

October 11, 2018 by [staff](#) [Leave a Comment](#)

Today [Atos](#) announced a joint effort with [E4](#), the [Jülich Supercomputing Centre](#), [Fraunhofer FOKUS](#), [Huawei](#), Mellanox, and SUSE to help shorten time-to-market for HPC and Edge deployments.

“Collaborative and grassroots initiatives focused on solving real world problems are the hallmark of a vibrant ecosystem,” said Jean-Marc Denis, Head of Strategy, BigData and Security at Atos. “Addressing the challenge of supporting one trillion connected devices requires today’s infrastructure to evolve. Only the Arm ecosystem has the flexibility, scalability, and technical breadth to bring best-in-class solutions to market in areas as diverse as edge and high-performance compute.”



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This collaboration includes several relevant players, including both solution providers and key customers. The targeted activities will help shorten time-to-market for Edge Computing and HPC deployments by developing and sharing solutions to improve interoperability and end-2-end integration. The industry players of this initiative will establish a common industrial development vision by which they collaborate on specific pathfinder projects to resolve practical deployment problems, identify concrete industry use cases, and contribute project results to reference deployments that will accelerate both Edge Computing and HPC innovations and industrial digitalization.

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Atos

“We fully support the initiative to develop and support an open ecosystem to develop Arm-based solutions for HPC,” said Jean-Marc Denis, Head of Strategy, BigData and Security at Atos. “As one of the three core partners of the Mont-Blanc Project, together with Arm and the Barcelona Computing Center, we’re assessing the potential of using Arm-based clusters to address exascale needs and we’re proud to help

advance this with the first productized supercomputer to use Arm processors – our BullSequana X1310. We are also in charge of the European Processor Initiative, which as of today brings together 23 partners from 10 European countries. Our aim is to



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Sharan Kalwani writes that that supercomputers a critical tool for predicting severe weather that could threaten entire regions with famine. "Models have been improved - although at too slow a pace to reach the general public at large – that now this forecasting approach is taking root in more than just tropical monsoon predictions. Tropical storms are becoming more important and cyclones are also quite rampant. Recently two Petaflop-capable machines have been installed in a special tropical weather forecasting department in the central part of the country." [\[Read More...\]](#)



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develop and bring to market a European low-power microprocessor that will be at the heart of the European exascale supercomputer effort."

Currently, the pathfinder project funnel includes projects to deploy the necessary security features within the Edge Computing Platforms, the required performance KPIs to cover ultra-low latency-based platforms, as well as cloud infrastructure to secure an industry wide HPC server interoperability for ISVs. These pathfinder projects are currently planned by the above-mentioned industry players and are still open for participation by new project members.

"Mellanox InfiniBand and Ethernet smart interconnect solutions enable the most efficiency and scalable high performance computing, artificial intelligence, cloud, storage and other data center platforms," said Gilad Shainer, vice president of Marketing at Mellanox. "Joining efforts with the leading industry and academic partners will help ensuring the highest performance for Arm based solutions, and accelerate the development of software tools needed by the eco-system."

The overall collaboration intends to contribute to the industrial 5G network deployments as well towards the data driven economy. Although the expected outcomes of this cross-industry collaboration is initially focused towards the European market, it will evolve to reach out globally.

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