Eviden upgrades the performance of Sweden's Berzelius AI supercomputer for the second time

Paris, France – September 17, 2024 – Eviden, the Atos Group business leading in advanced computing today announces it has been awarded a 4-year multi-million euro contract to boost the performance of the Berzelius supercomputer at the Linkoping University (Sweden) for the second time. By integrating and deploying further NVIDIA-technologies into the supercomputer, the Eviden team will add an extra 512 PetaFlops of FP8 AI performance to the Berzelius.

The increasing demand for computational power to support advanced AI calculations has reached unprecedented levels. To address this, the Berzelius supercomputer—a critical national infrastructure resource available to all researchers across Sweden—plays a pivotal role in meeting these growing needs. This unique computational power has enabled significant advancements in various research areas, which now include material science, medical imaging, and visual perception.

The Berzelius supercomputer will benefit from the addition of 16 NVIDIA DGX™ H200 systems, with 128 NVIDIA H200 Tensor Core GPUs to the NVIDIA DGX SuperPOD™, bringing its entire architecture up to 110 nodes and 880 GPUs for efficient accelerated computing. Additionally, the Eviden team will integrate the VAST Data Platform, to take advantage of VAST's NVIDIA DGX SuperPOD-certified enterprise NAS offering to help the Berzelius capabilities achieve higher sustainability, greater performance, and highly efficient data management.

The national AI supercomputer Berzelius, funded by the Knut and Alice Wallenberg Foundation and installed at the Linkoping University, has already enabled breakthroughs in a number of disciplines. For example, the system has been used to train the large-scale Swedish language model GPT-SW3, accelerated research on protein folding, trained new systems for computer vision, and generated synthetic medical images for the training of doctors.

> **Dr. Cédric Bourrasset, Head of HPC-AI and Quantum Computing, Eviden, Atos Group** said "We are honored by this new mark of trust from the Linkoping University, which relies once again on our teams to deliver a performance boost. Berzelius has been a key system in Europe to boost AI research since 2020 and this new upgrade will allow researchers to benefit from an expanded GPU architecture, helping to widen the possibilities of scientific breakthroughs."

Prof. Anders Ynnerman, WASP[1] Program Director, Professor of Scientific Visualization, Linkoping University said "In the fast-moving area of AI it is crucial for researchers to have access to state-of-the-art resources for machine learning integrated in the national infrastructure for supercomputing. I am very impressed by the speed at which this upgrade of Berzelius has materialized and am looking forward to research results it will enable."

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About Eviden[2]

Eviden is a next-gen technology leader in data-driven, trusted and sustainable digital transformation with a strong portfolio of patented technologies. With worldwide leading positions in advanced computing, security, AI, cloud and digital platforms, it provides deep expertise for all industries in more than 47 countries. Bringing together 47,000 world-class talents, Eviden expands the possibilities of data and technology across the digital continuum, now and for generations to come. Eviden is an Atos Group company with an annual revenue of c. € 5 billion.

About Atos

Atos is a global leader in digital transformation with c. 92,000 employees and annual revenue of c. € 10 billion. European number one in cybersecurity, cloud and high-performance computing, the Group provides tailored end-to-end solutions for all industries in 69 countries. A pioneer in decarbonization services and products, Atos is committed to a secure and decarbonized digital for its clients. Atos is a SE (Societas Europaea), and listed on Euronext Paris.

The purpose of Atos is to help design the future of the information space. Its expertise and services support the development of knowledge, education and research in a multicultural approach and contribute to the development of scientific and technological excellence. Across the world, the Group enables its customers and employees, and members of societies at large to live, work and develop sustainably, in a safe and secure information space.

About Linköping University

We all want to create a better world. At Linköping University, LiU, we use boundary-breaking research and innovative education to get there. To solve the challenges of the day, we are in continuous and close contact with industry and society. International rankings show that LiU is among the world's top universities. Our students are sought after in the labour market, and we are one of the most attractive employers in Sweden. We believe that all this stems from our courage to think freely and innovate in contexts large and small. LiU continues to give generations of curious individuals the opportunity to grow and contribute to a better world. We do this with the power of 40,400 students and 4,500 co-workers.

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[1] Wallenberg AI, Autonomous Systems and Software Program

[2] *Eviden business is operated through the following brands: AppCentrica, ATHEA, Cloudamize, Cloudreach, Cryptovision, DataSentics, Edifixio, Energy4U, Engage ESM, Evidian, Forensik, IDEAL GRP, In Fidem, Ipsotek, Maven Wave, Profit4SF, SEC Consult, Visual BI, Worldgrid, X-Perion. Eviden is a registered trademark.*
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