



SGI and IT4Innovations Announce a TOP 500 Supercomputer in Europe – Salomon

Salomon, the 14th Most Powerful System in Europe, Unveiled at VŠB - Technical University of Ostrava, Today

Milpitas, CA and OSTRAVA, Czech Republic – September 15, 2015 – SGI (NASDAQ: SGI), a global leader in high-performance solutions for compute, data analytics and data management, and IT4Innovations national supercomputing center in the Czech Republic, announced the deployment of the Salomon supercomputer, ranked 40th among the most powerful supercomputers on the prestigious [TOP500 list](#). The Salomon supercomputer, an SGI system, which is operated by IT4Innovations national supercomputing center at VSB - Technical University of Ostrava (VSB-TUO), is hosting an unveiling ceremony that will take place today.

"Thanks to VSB's supercomputers, the center has put the Moravian-Silesian region on the world map of research centers. It has attracted experts from abroad into the region and strengthened cooperation with Czech and foreign research institutions," said Ivo Vondrák, rector, Technical University of Ostrava. "Our first supercomputer Anselm no longer provided the compute power for the high-quality scientific projects we conduct. As a result, we have eagerly awaited the launch of the Salomon supercomputer

With a theoretical computing performance of two petaflops, the new Salomon supercomputer exceeds the previous supercomputer, Anselm, by more than 20 times. Based on the [SGI® ICE™ X](#) system and with the latest Intel® Xeon® processors and Intel Xeon Phi coprocessors, it is the most powerful supercomputer in Europe running on the Xeon Phi® coprocessors.

"With the launch of the Salomon supercomputer, the 14th most powerful in Europe, the Czech Republic now ranks among the supercomputing elite. The scientific community in the Czech Republic gained a premium scientific tool and I believe that in the medium and long term it will benefit not only the research community but also the industry and the Czech economy," said Martin Palkovič, director of the IT4Innovations national supercomputing center.

Salomon supercomputer supports a variety of research projects in many fields, including cosmology, astronomy, engineering and structural mechanics of liquids, geophysics, climatology, molecular modeling, plasma and particle physics, computer science and applied mathematics.

"The availability of supercomputing promotes innovation and economic growth," said Gabriel Broner, vice president and general manager, High Performance Computing Business Unit, SGI. "SGI is pleased to enable the IT4Innovations national supercomputing center to deploy one of the largest production supercomputers in Europe, which will benefit the scientific community, industry and economy in the Czech Republic."

Technical parameters of the SGI ICE X supercomputer

- Theoretical computing power of 2 petaflops,
- 24,192 CPU cores of Intel® Xeon™ E5 2680 v3 with 129 terabytes (TBs) of RAM,
- 52,704 cores acceleration coprocessors of Intel® Xeon™ Phi 7120P with 13.8 TB of RAM,
- Two petabytes (PB) disk capacity and three PB backup tape capacity.

About IT4Innovations national supercomputing center

IT4Innovations national supercomputing center carries out research mainly in the fields of supercomputing and embedded computing systems. It operates the most advanced technologies and services in this area and makes them available to Czech and foreign research teams from both academia and industry. Since its inception, it is part of an international network of PRACE supercomputing centers. The Center operates two supercomputers - Anselm and Salomon. The Salomon supercomputer was put into the operation in July and is the 40th most powerful supercomputer

in the world.

IT4Innovations is financed through the project of Operational Programme Research and Development for Innovation, 85 percent funded by the European Union and 15 percent from the state budget of the Czech Republic. Project partners are VSB - Technical University of Ostrava, University of Ostrava, Silesian University in Opava, Institute of Geonics of the Academy of Sciences of the Czech Republic and Brno University of Technology.

About SGI

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