

PRESS RELEASE

Anselm, the first supercomputer acquired by the IT4Innovations National Supercomputing Center, celebrates five years of activity.

Ostrava, 27 March, 2018 - IT4Innovations National Supercomputing Center has run the supercomputer Anselm since 2013, and almost all of its computing capacity is available to Czech and foreign scientists through open grant competitions. During its five years of operation, Anselm has served 441 users, helping them to solve 414 research projects. It has been involved in solving problems in many areas of research and development, such as new drug designs, understanding of high intensity laser acceleration, hydrological modelling and flood prediction, enzymatic reactions analysis, and many others.

IT4Innovations National Supercomputing Center signed a contract for delivery of its first cluster with Bull (now Atos) at the end of 2012. In March 2013, Anselm was installed in a mobile data centre located in a fenced area on the campus of VŠB - Technical University of Ostrava. After installation and testing, Anselm was made available to users in May 2013.

Anselm has a peak theoretical performance of 94 teraflops, which made it the most powerful computer in the public sphere in the Czech Republic at the time of its launch. Its 209 computing nodes are equipped with a total of 418 Intel Sandy Bridge eight-core processors. Its computational power is supported by 23 NVIDIA Tesla Kepler K20 GPU accelerators and four Xeon Phi 5110P accelerators by Intel. There is a capacity of 466 TiB available for storing data.

On the occasion of this anniversary, IT4Innovations is hosting a meeting of Bull supercomputers users which takes place in Ostrava on 27-28 March. This meeting is being attended by a number of experts from supercomputer centres and other prestigious organizations from several European countries - France, Spain, the Netherlands, Germany and Great Britain. During the two days they spend in Ostrava, they will discuss and share their experience with supercomputers, which, like Anselm, are based on Bull technology.

IT4Innovations National Supercomputing Center provides state-of-the-art supercomputer technologies and services to both Czech and international research teams from academia and industry. Currently, IT4Innovations runs two supercomputers - Anselm (installed in the summer of 2013) and Salomon (installed in the summer of 2015). IT4Innovations is also a research centre with strong international links. The core topics of IT4Innovations research are advanced data analysis, developing parallel scalable algorithms, solving challenging engineering tasks, and modelling for nanotechnology.

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