

experts in September, 2015. At that time, Salomon ranked 40th in the TOP 500 list of the most powerful supercomputers in the world and 14th most powerful supercomputing system in Europe. , Salomon is currently ranked as the 55th most powerful supercomputer.

Technical specifications of the Salomon supercomputer:

- 2 PFLOPS theoretical peak performance
- 1008 compute nodes with 24,192 Intel Xeon (Haswell EP) compute cores and 129 TB RAM
- 864 Intel Xeon Phi 7120 accelerators with 52,704 cores and 13.8 TB RAM in 432 accelerated compute nodes
- Shared disk storages of HOME with 500 TB and SCRATCH with 1.69 PB data storage capacity
- FDR InfiniBand computer network with the total bandwidth of 56 GB/s and the topology of 7D SGI Enhanced hypercube
- 3 000 TB tape capacity for backup
- 2 dedicated nodes for accelerated remote visualizations
- SMP/NUMA SGI UV2000 compute node with 3.25 TB RAM, 112 compute cores and 3 TFLOPS theoretical peak performance
- 40 GB/s redundant Internet connection
- CentOS and RHEL distribution
- PBS Professional workload manager and job scheduler

IT4Innovations National Supercomputing Center provides Czech and foreign research teams, from both academia and industry, with state-of-the-art HPC technologies and services. IT4Innovations currently operates two supercomputers - Anselm (94 TFLOPS, installed in Summer 2013) and Salomon (2 PFLOPS, installed in Summer 2015). IT4Innovations is also a research center with strong international connections. The key research areas of IT4Innovations are big-data processing and analysis, development of parallel scalable algorithms, engineering problems, and nanotechnologies.

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