

SUPERHEROES 4SCIENCE



SALOMON CZECH REPUBLIC

Scientists in the Czech Republic can utilize the supercomputer Salomon, which was put into operation in 2015. Its computational power is 2 Petaflops.

What does it mean, 2 Petaflops? Having the theoretical peak performance of 2 011 000 000 000 000 operations per second, Salomon has, compared to a laptop (processor i5, 4 x 2.3 GHz), 13 230 times higher computational power, a 17 856 times bigger RAM, and a 3 800 times bigger and 300 times faster disc.



In the case of a power outage, supercomputers and their support technology are powered by an emergency backup diesel generator. This temporary power source can supply energy to Salomon and the entire IT4Innovations building for about 60 hours.

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Salomon consists of 1 009 extremely powerful computers, of which over half are additionally accelerated by the powerful coprocessor Intel Xeon Phi. The computers are connected through a very fast network called Infiniband. It is capable of transferring an amount of data equivalent to 1 DVD per second.

