



Contribution ID: 238

Type: **Plenary**

Making Supercomputers Smart: the Moscow State University Experience

Monday 30 September 2019 16:30 (30 minutes)

Just after the computer era has been started, the Research Computing Center of the Moscow State University was equipped with the most modern computing hardware. These days RCC MSU still operates large scale supercomputers including Lomonosov and Lomonosov-2. Supercomputers are open for research and education society supporting hundreds of projects. The huge number of hardware and software components and parameters together with the complexity of architectures implemented arise an extremely important question - how efficiently the supercomputers are used? The efficiency study requires deep monitoring and analysis of all processes withing supercomputers. To improve the efficiency, a set of tools and techniques should be created to make a quick and automated decisions in all sides of supercomputer functioning. The talk will share RCC MSU experience in supercomputers productivity improving by use of smart software and analytical techniques.

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Session Classification: Plenary