

Alexander Ayriyan / Heterogeneous computing platform HybriLIT

Thursday, November 21, 2019 3:00 PM (30 minutes)

Heterogeneous computing platform HybriLIT is a part of the Multifunctional information and computing complex (MICC) of the Laboratory of Information Technologies of JINR. The platform consists of “Govorun” supercomputer and HybriLIT cluster as an education, scientific and testing polygon. It is based on heterogeneous structure of computation nodes and allows developing parallel applications for carrying out data analysis and computation using various computing architectures such as multicore CPUs, Intel Xeon Phi coprocessors, and NVIDIA (Tesla K40, K80, V100) GPUs. Therefore, the platform provides the unified software and information environment and ecosystems for parallel computations and for ML/DL. It also provides a possibility to hold tutorials in parallel programming technologies that help students and scientists to learn new computing architectures.