Contribution ID: **133**   Type: **not specified**

Future trends and challenges in scientific computing

Thursday 4 September 2014 09:00 (35 minutes)

The future and limits of computing in physics are largely dependent on the
ever changing capabilities of the contemporary supercomputers. In this
contribution, we focus on current and near future computer architectures,
their limits and capabilities, in context of scientific computations.
Further we discuss trends in high performance computing and their impact on
the physics codes. The accelerated, multi-node, many-core architectures
offer outstanding computational performance. However, the performance is
coming at a cost of encountering unique challenges in efficient utilization
of the contemporary and future computational resources.

Primary author: JANSIK, Branislav (I)

Presenter: JANSIK, Branislav (I)

Session Classification: Plenary

Track Classification: Computing Technology for Physics Research