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Future trends and challenges in scientific computing

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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.

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