HPC Trends – from today towards "The Machine" and Exascale

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Abstract

Today's HPC landscape can be covered with a few well-understood metrics. But it is clear that technological barriers and economic challenges will enforce major architectural and conceptual changes. This talk will assess today's trends and show what is and what is not on the plate going forward. A new classification scheme for the Exascale area will also be introduced as well as some open issues specifically in the scalable software area.