

How far can COTS HPC go?

Wednesday, 12 October 2016 12:45 (15 minutes)

COTS HPC has evolved for two decades to become an undeniable mainstream computing solution. It represents a major shift away from yesterday's proprietary, vector-based processors and architectures to modern supercomputing clusters built on open industry standard hardware. This shift enabled the Industry with a cost-effective path to high-performance, scalable and flexible supercomputers (from very simple to extremely complex clusters) to accelerate research & engineering.

Today the landscape is undergoing a new change. New technologies have evolved once again including accelerators, higher speed interconnect, faster memory and wider IO architecture and could break the economies of scale engine driving the COTS model. Even with these remarkable improvements, path to Exascale is a difficult challenge with power consumption an additional glaring constraint. How do we approach a new era in supercomputing with the COTS model? How far can COTS HPC go?

Tertiary Keyword (Optional)

Secondary Keyword (Optional)

Primary Keyword (Mandatory)

Computing facilities

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Session Classification: Track 6: Infrastructures

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