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Intel in HPC: Innovation Beyond the Core ^[1]

Date:

Monday, 29 February, 2016 - 14:00 to 15:00

Location:

CERN Council Chamber (503-1-001) ^[2]

Fifty years of Moore's Law and decades, accompanied by unrelenting system and software advances, have helped drive decades of unwavering progress in High Performance Computing (HPC). But, the advances in compute have outpaced the respective advances in many other system components. As a result, accelerated innovation beyond the CPU core is becoming critical to allow HPC's ongoing advancement. In this talk, Bill will discuss Intel's recent advances in computing cores but also focus on its progress and plans in memory, storage, networking, and software.

About the speaker

William Magro is an Intel Fellow in the Software and Services Group and the Chief Technologist for High Performance Computing software (HPC) at Intel Corporation. He serves as the technical lead and strategist for Intel's HPC software and HPC software requirements for Intel product roadmaps.

Magro joined Intel in 2000 with the acquisition of Kuck & Associates Inc. (KAI). He began his Intel career as director of the Parallel Applications Center, where he was responsible for enabling parallel applications to use Intel's emerging multi-core technology. From 2006 to 2010, he served as director of HPC software solutions and led Intel's efforts in HPC software products. Magro's work in HPC and parallel computing has earned him two Intel Achievement Awards.

Before joining KAI in 1997, Magro spent 3 years as a post-doctoral fellow and staff member at the Cornell Theory Center at Cornell University, where he performed research in quantum physics and evaluated future supercomputing systems.

A recognized expert in HPC, Magro has authored numerous articles published in technical and academic journals and holds six patents, with another six patents pending. He is a member of the Association for Computing Machinery and the co-chair of the InfiniBand Trade Association Technical Working Group. Magro holds a BSc in Applied and Engineering Physics from Cornell University and an MSc and PhD in Physics from the University of Illinois at Urbana-Champaign.

Indico or other event webpage:

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