JUNE 1, 2018 | 14:30-15:30 | LRZ, SEMINARRAUM 2

„UNITED STATES EXASCALE COMPUTING PROJECT (ECP) OVERVIEW AND STATUS WITH A FOCUS ON FACILITY INTEGRATION"

THIS TALK WILL BE PRESENTED IN ENGLISH

Joint special lecture hosted by LRZ and TUM Chair I10 (Computer Architecture and Parallel Systems)

SPEAKER

David Montoya
HPC Design Group
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Mr. Montoya is the Technology Futures Lead for Software Environments in the HPC organization at Los Alamos National Laboratory. He has been involved with the HPC tools community for many years and has coordinated the U.S. Department of Energy's NNSA tri-lab Common Computing Environment (CCE) project.
He is currently the lead for the Software Deployment at Facilities project within the U.S. National Exascale Computing Project.
His recent work includes workflow characterization, integrated application performance metrics, and application/system workflow assessment.

David holds a Masters of Business Administration from the University of Rochester, NY and a BA in Systems Analysis from New Mexico State University.

ABSTRACT

The U.S. ECP is a collaborative effort of two U.S. Department of Energy (DOE) organizations – the Office of Science (DOE-SC) and the National Nuclear Security Administration (NNSA). The project has been underway for several years with a target outcome of accelerated delivery of a capable exascale computing ecosystem providing breakthrough solutions addressing our most critical challenges in scientific discovery, energy assurance, economic competitiveness, and national security. It targets exascale systems in 2021-2022.

This is a large multi-faceted effort with many government and commercial organizations involved and a large project portfolio. It is evolving as alignment across efforts and focus are refined. There are targeted goals for ECP-selected applications for delivery of mission and science results, next generation software technologies that provide capabilities for exascale applications and platforms, and integrated deployment of application and software technologies to targeted computing facilities.

This talk will provide a current update on the structure and focus of the project with a more detailed description on the approach being taken in regard to the facilities integration effort with ECP computational facilities.

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