

Talks

- ▶ Spack Package Manager: Basic Functionality and Best Practices, Max Planck Institute for the Structure and Dynamics of Matter, Hamburg, Germany, 2021-03-26
- ▶ Parallel Computing and I/O - Herausforderungen des datenintensiven Hochleistungsrechnens, Inaugural Lecture, Magdeburg, Germany, 2021-02-03
- ▶ Coupling Storage Systems and Self-Describing Data Formats for Global Metadata Management (Michael Kuhn), CSCI 2020, Las Vegas, USA (Virtual), 2020-12-18
- ▶ Converging Storage Technologies Using a Flexible HPC Storage Framework (Michael Kuhn), CHPC National Conference, Virtual, 2020-12-02
- ▶ Improving Energy Efficiency in High Performance Computing by Powering Down Unused Resources (Michael Kuhn), Panel c Energy Data and Adaptive Consumption at ENERGY 2020, Lisbon, Portugal (Virtual), 2020-09-28-2020-10-01
- ▶ Improving Energy Efficiency of Scientific Data Compression with Decision Trees (Michael Kuhn), ENERGY 2020, Lisbon, Portugal (Virtual), 2020-09-28-2020-10-01
- ▶ Coupled Storage System for Efficient Management of Self-Describing Data Formats (CoSEMoS) (Michael Kuhn), ISC High Performance 2020, Frankfurt, Germany (Virtual), 2020-06-23
- ▶ Storage and I/O (Michael Kuhn), Lecture "Hardware Architecture of HPC Systems" at Helmut Schmidt University, Hamburg, Germany (Virtual), 2020-06-10
- ▶ Spack Package Manager: Introduction and Best Practices (Michael Kuhn), European XFEL, Hamburg, Germany, 2020-03-12
- ▶ Storage and I/O (Michael Kuhn), Lecture "Hardware Architecture of HPC Systems" at Helmut Schmidt University, Hamburg, Germany, 2019-11-26
- ▶ Spack Community BoF (Todd Gamblin, Gregory Becker, Massimiliano Culpò, Michael Kuhn), Birds of a Feather at ISC High Performance 2019, Frankfurt, Germany, 2019-06-18
- ▶ Managing HPC Software Complexity with Spack (Todd Gamblin, Gregory Becker, Massimiliano Culpò, Michael Kuhn), Tutori at ISC High Performance 2019, Frankfurt, Germany, 2019-06-16
- ▶ CATO - Compiler assisted source-to-source transformation of OpenMP kernels to utilise distributed memory (Jannek Squar, Michael Blesel, Tim Jammer, Michael Kuhn, Thomas Ludwig), OpenMPCon 2018, Barcelona, Spain, 2018-09-25
- ▶ Data-Intensive High-Performance Computing (Michael Kuhn), Gauß-Allianz Booth at ISC High Performance 2018, Frankfurt, Germany, 2018-06-26
- ▶ Convergence of High Performance Computing and Big Data (Michael Kuhn), DKRZ Tour "Computational Sciences in Engineering", Hamburg, Germany, 2018-05-23
- ▶ High Performance Computing and I/O (Michael Kuhn), PIER Graduate Week 2017, Hamburg, Germany, 2017-10-09
- ▶ Accelerating Storage System Research Through a Common Framework (Michael Kuhn), 6th International LSDMA Symposium Karlsruhe, Germany, 2017-08-29
- ▶ JULEA: A Flexible Storage Framework for HPC (Michael Kuhn), Workshop on Performance and Scalability of Storage System (WOPSSS), Frankfurt, Germany, 2017-06-22
- ▶ High Performance I/O (Michael Kuhn), DKRZ Tour "Computational Sciences in Engineering", Hamburg, Germany, 2017-06-0
- ▶ The Case for a Flexible HPC Storage Framework (Michael Kuhn), Dagstuhl Seminar "Challenges and Opportunities of User-Level File Systems for HPC" (17202), Wadern, Germany, 2017-05-18
- ▶ BigStorage (Michael Kuhn), LSDMA Technical Forum, Karlsruhe, Germany, 2016-10-06
- ▶ Lustre usage and compression at DKRZ (Michael Kuhn), Lustre Administrator and Developer Workshop 2016, Paris, France, 2016-09-21
- ▶ Enhanced Adaptive Compression in Lustre (Michael Kuhn), LSDMA Spring Meeting 2016, Technical Forum, Darmstadt,

- Germany, 2016-03-09
- ▶ Storage expenses and data reduction techniques (Michael Kuhn), BigStorage Initial Training School, Barcelona, Spain, 2016-03-04
 - ▶ Parallel distributed file systems (Michael Kuhn), BigStorage Initial Training School, Barcelona, Spain, 2016-03-03

 - ▶ Exploiting Semantical Information for Performance Optimization and Data Reduction (Michael Kuhn), CluStor 2015, Hamburg, Germany, 2015-07-30
 - ▶ A Best Practice Analysis of HDF5 and NetCDF-4 Using Lustre (Michael Kuhn), ISC High Performance 2015, Frankfurt, Germany, 2015-07-15
 - ▶ Dynamically Adaptable I/O Semantics for High Performance Computing (Michael Kuhn), ISC High Performance 2015, Frankfurt, Germany, 2015-07-14
 - ▶ I/O Semantics for Future Storage Systems (Michael Kuhn), 14th HLRS/hww Workshop on Scalable Global Parallel File Systems, Stuttgart, Germany, 2015-04-29

 - ▶ Compression By Default – Reducing Total Cost of Ownership of Storage Systems (Michael Kuhn), International Supercomputing Conference 2014, Leipzig, Germany, 2014-06-23
 - ▶ Exascale Storage Systems – An Analytical Study of Expenses (Michael Kuhn), CluStor 2014, Hamburg, Germany, 2014-06-18

 - ▶ A Semantics-Aware I/O Interface for High Performance Computing (Michael Kuhn), International Supercomputing Conference 2013, Leipzig, Germany, 2013-06-18

 - ▶ A Semantics-Aware I/O Interface (Michael Kuhn), HPC Workshop, Leogang, Austria, 2012-02-29
 - ▶ Scientific Computing: Performance and Efficiency in Climate Models (Michael Kuhn), PDP 2012, Munich, Germany, 2012-02-17
 - ▶ Evaluating the Influence of File System Interfaces and Semantics on I/O Throughput in High Performance Computing (Michael Kuhn), PDP 2012, Munich, Germany, 2012-02-17
 - ▶ Simulation-Aided Performance Evaluation of Server-Side Input/Output Optimizations (Michael Kuhn), PDP 2012, Munich, Germany, 2012-02-16

 - ▶ Optimizations for Two-Phase Collective I/O (Michael Kuhn), ParCo 2011, Ghent, Belgium, 2011-09-02

 - ▶ Directory-Based Metadata Optimizations for Small Files in PVFS (Michael Kuhn), Euro-Par 2008, Gran Canaria, Spain, 2008-08-29

 - ▶ File Systems for Mass Storage of Image Data in Bioinformatics (Michael Kuhn, Christian Lohse), CluStor 2006, Heidelberg, Germany, 2006-09-21