



First JARA-HPC Symposium

The first JARA-HPC Symposium took place in Aachen, Germany, from October 04–05, 2016. The symposium was jointly organized by the Forschungszentrum Jülich and RWTH Aachen University in the framework of the Jülich Aachen Research Alliance (JARA).

systems are increasingly used for data analytics and complex workflows. Successful application development requires collaboration between the domain scientists on one side, and computer science/HPC experts on the other.



The IT Center of RWTH Aachen University hosted the JARA-HPC Symposium 2016.

JARA-HPC is the High Performance Computing section of JARA. Its scientists combine the knowledge of massively parallel computing on supercomputers with the respective expert competences from different research fields.

JARA-HPC organized this symposium to motivate lively discussions on the various aspects of the development of HPC applications among experts. About 60 participants had the opportunity for an in-depth exchange with colleagues from different research fields who also make use of HPC systems in their scientific work.

Current HPC systems consist of complex configurations with a huge number of components, very likely heterogeneous, and typically with not enough memory. The hard- and software configuration can change dynamically due to fault recovery or power saving procedures. Deep software hierarchies of large, complex software components are needed to make efficient use of such systems. On the applications side, HPC

The program comprised a keynote by Victor Eijkhout of the Texas Advanced Computing Center (TACC), followed by two days of presentations on diverse topics in scientific computing. A topical focus was placed on Aeroacoustics and CFD in HPC during a mini-workshop on the second day. The symposium closed with a panel on software engineering in HPC.

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