

The Hessian Competence Center for High Performance Computing **HPC Hessen**

Brainware for Science

The Hessian Competence Center for High Performance Computing (HPC Hessen) supports scientists striving for the efficient and sustainable use of modern HPC systems. HPC systems are in use at all universities in Hesse and accessible statewide.

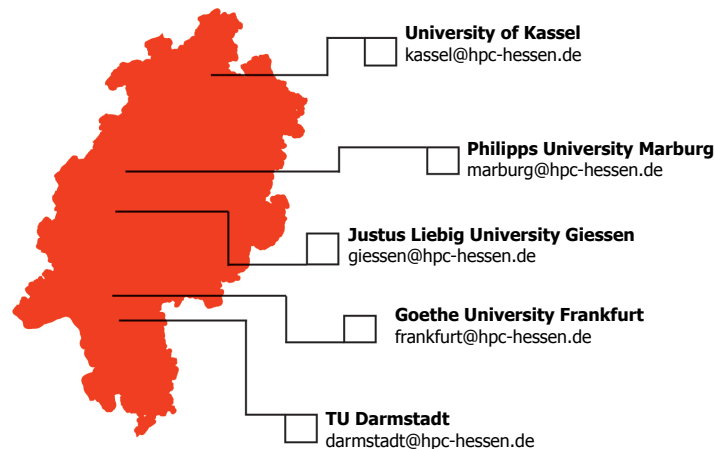
To this end, HPC Hessen offers workshops, consulting, and HPC user support. HPC experts support users locally at each university, but also coordinate their efforts.

Our services include the installation of a central monitoring infrastructure, cooperative support in using performance analysis tools, preparation and execution of workshops, and monthly internal workshops to discuss and learn from new local experiences.

HPC Hessen was founded in 2014 by the universities of Darmstadt, Frankfurt, Gießen, Kassel, and Marburg with initial funding by the Hessian State Ministry of Higher Education, Research and the Arts.

www.hpc-hessen.de

Local support:



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Support for your research

High performance computing (HPC) is a key technology for scientific progress. Typically scientists who perform simulations on the clusters are experts in their own domain, but not experts in HPC.

HPC Hessen (Hessisches Kompetenzzentrum für Hochleistungsrechnen) was founded to close the HPC software gap in Hesse. HPC experts offer instructions, support, and counseling to improve code efficiency.

When each user pursues the goal of using the computers efficiently, then each group's contingent will last longer. Efficient use of computers saves time and energy.

The Hessian Competence Center for High Performance Computing HPC Hessen (www.hpc-hessen.de)

Introductory meetings

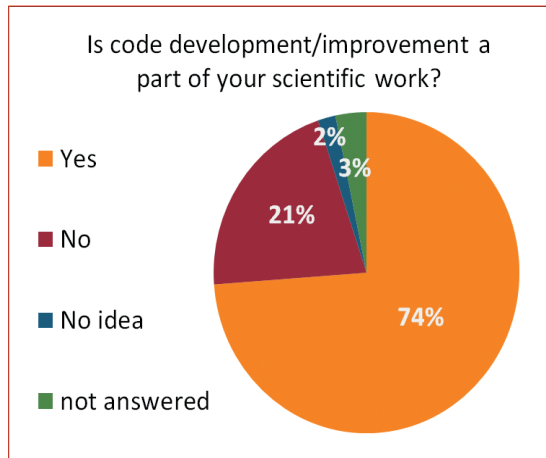
The Hessian Competence Center for High Performance Computing offers introductions to the use of high performance computers at Hessian universities.

For users of the Lichtenberg cluster, a monthly introduction takes place in Darmstadt. The hardware and the use of the batch-system are introduced. Upcoming dates will be announced on the HPC Hessen website: www.hpc-hessen.de.

For the other Hessian high performance computers introductions are offered as needed. Please contact:

- frankfurt@hpc-hessen.de for an introduction to the Frankfurt HPC LOEWE-CSC and Fuchs,
- giessen@hpc-hessen.de for Skylla and Yacana at Justus Liebig University Giessen,
- kassel@hpc-hessen.de for the cluster at the University of Kassel, and
- marburg@hpc-hessen.de for the MaRC2 at University Marburg.

Participation is free of charge.



Performance analysis

The performance analysis tool 'Vampir' was purchased by HPC Hessen with funding from the Hessian State Ministry of Higher Education, Research and the Arts.

Utilization monitoring

Monitoring usage of the Hessian high performance computers gives HPC Hessen information about 'power users' and possible candidates for code optimization. On LOEWE-CSC, users receive an "efficiency grade" for their computing jobs.

User support

Each facility has local staff members to support researchers individually with questions about using the high performance computers efficiently.

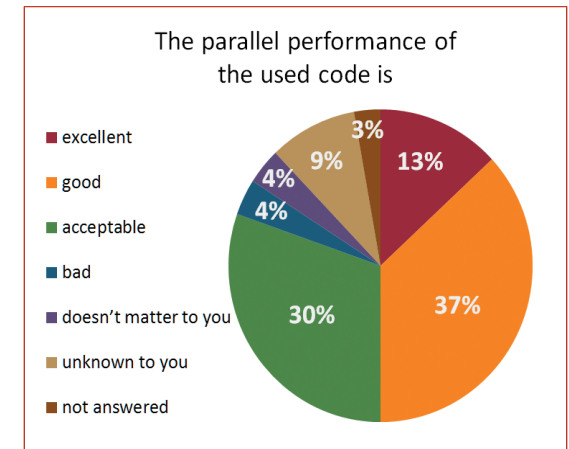
To receive regular information, subscribe to our newsletter: hpc@lists.tu-darmstadt.de.

HiPerCH

The workshop series HiPerCH - High Performance computing in Hesse - provides introductory and advanced courses to all clusters in Hesse. The workshops take place twice a year at alternating locations. In general, the workshops are in English with hands-on sessions.

Survey

Each year, we ask our users about their current needs in a survey. Results of the user survey 2015 are shown below, based on n=228 responses.



Which topics for workshops are of interest to you?

