High Performance Computing in Hessen

Local support:

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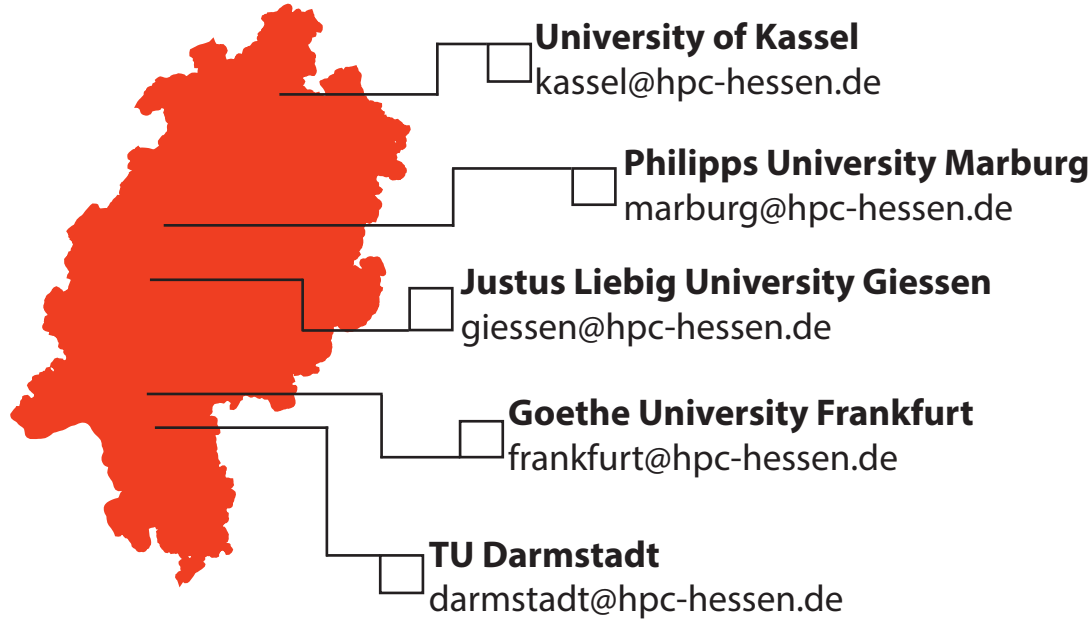**brain** ware
for **science**

educate

We offer periodic training courses on high performance computing at all Hessian locations

investigate

An overview of our research results is available on

www.hpc-hessen.de

apply

We support users in accessing Hessian high performance computers

support

Our team will advise users individually

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Hessisches Kompetenzzentrum
für Hochleistungsrechnen

How researchers benefit from HKHLR:

Demands **Online surveys**: With our yearly surveys, we monitor user demands for support, training, and hardware infrastructure. **Monitoring**: Continuous monitoring of the cluster usage of the Hessian high performance computers helps to find free resources in case of your urgent demands. Futhermore, deficient usage of hardware can be detected and matching support can be provided.

Basic user support **Introductory courses**: New users of the Hessian HPC clusters receive information about general access, available hardware and usage, and may discuss their special demands with experts from the local systems. **Quick reference cards**: HKHLR collects and publishes important information about the Hessian clusters. **Ticket system**: With the local ticket systems of the clusters, you can directly receive help for HPC relevant questions from the staff member of HKHLR. **Web site**: On our Web site, you will find basic information and helpful links: www.hpc-hessen.de.

Performance tuning and analysis **Software Tools**: With the funding of the HMWK, we organize the availabilty of the performance analysing tool *Vampir* and the debugger *Totalview*. **Advanced user support**: Our staff members help to analyze and tune your parallelized codes. **Trainings**: Local courses empower you in the use of these tools.

HPC competence **Workshops**: With the workshop series HiPerCH (High Performance Computing in Hessen), we offer courses and lectures for beginners and advanced users of high performance computing. **Individual user support**: Our staff members offer help, for example, with recommendations which hardware is most suitable to your research.

Networking **HiPerCH**: Attending our workshops offers the opportunity to enlarge your network of researchers using high performance computers - across the boarders of your discipline and university. **Special software user meetings**: On demand, HKHLR can help to organize user meetings for your specific HPC software. **Network of HKHLR staff and administrators of the cluster**: Sharing experience result in improvements to our service and in the end in your ability to cope with Hessian HPC systems.