

Previous event

This introductory course is especially recommended for new LOEWE-CSC and FUCHS cluster users.



Thursday, March 09

⌚ 10:00 - 14:00

Module 0: Cluster Computing Workshop

HKHLR STAFF

ROOM N 310 02.114
BUILDING N 310 (PHYSICS)
MAX-VON-LAUE-STRASSE 1, 60438 FRANKFURT

Introduction to LOEWE-CSC & FUCHS cluster

- Hardware resources
- File system
- Environments modules
- Partitions on the cluster
- Architecture of the partitions
- Batch system

NO ATTENDANCE FEE

Agenda

Monday - Wednesday,
March 13-15

⌚ 08:30 - 18:00

Module 1: Parallelization with MPI and OpenMP

DR. R. RABENSEIFNER (HLRS) AND STAFF

ROOM N 100 0.12 A+B BCC BEILSTEIN COMPUTER CENTER
BUILDING N 100 (BIOZENTRUM)
MAX-VON-LAUE-STRASSE 9, 60438 FRANKFURT

The focus of this three-day workshop is on the programming models MPI and OpenMP. Hands-on sessions (in C and Fortran) will allow users to immediately test and understand the basic constructs of the Message Passing Interface (MPI) and the shared memory directives of OpenMP. Content Level: 70% for beginners, 30% advanced.

- Hardware architectures and parallel programming models
- Parallel programming with Message Passing Interface (MPI-3) and OpenMP
- Tools for performance optimization and parallel debugging
- Short introduction to Portable, Extensible Tool kit for Scientific Computation (PETSc)

Prerequisites: Unix / C or Fortran

ATTENDANCE FEE: 50,00 €
INCL. EVENING EVENT (MONDAY)

Evening event

Monday,
March 13

⌚ 18:30

Guided tour

Monday,
March 13

⌚ 20:00

Dinner

HiPerCH 7

Thursday, March 16

⌚ 09:00 - 15:00

Module 2: Introduction to the TotalView Debugger

HKHLR STAFF

ROOM N 100 1.14
BUILDING N 100 (BIOZENTRUM)
MAX-VON-LAUE-STRASSE 9, 60438 FRANKFURT

This course consists of lectures supplemented with practical exercises.

PREREQUISITES: For the tutorials all participants are kindly asked to use their own laptop (Eduroam WLAN access is available).

NO ATTENDANCE FEE

All modules can be booked separately.

HiPerCH 7 Goethe University Frankfurt

Location: University Campus Riedberg
Beilstein Computer Center - BCC
Max-von-Laue-Straße 9
Building N 100, Room 0.12 a + b
60438 Frankfurt am Main



Directions to Goethe University Frankfurt

Travel by public transport:

From main railway station "Hauptbahnhof" with one of the suburban trains (S-Bahn) S1 - S9 to "Hauptwache", then with the subway (U-Bahn) U8 (direction Riedberg) to "Uni Campus Riedberg".

Travel by car:

- Leave **A66** at "Miquelallee/Rosa-Luxemburg-Straße/Marie-Curie-Straße" in direction "Riedberg/Universität/MPI/Altenhöferallee"
- or leave **A661** in direction Bad Homburg at "Mertonviertel/Riedberg/Universität/Marie-Curie-Straße" in direction "Riedberg/Universität/MPI/Altenhöferallee". Please be aware that there is only restricted place for parking.



Introduction to High
Performance Computing
March 13-16, 2017
Frankfurt am Main

HiPerCH 7
High Performance Computing
Hessen

Hessisches Kompetenzzentrum
für Hochleistungsrechnen



HiPerCH 7

All presentations will be in **English**.

This workshop is targeted at students and scientists from Hessen, Mainz, and Kaiserlautern with interest in programming modern HPC hardware. You can book each module by itself.

Registration: Please register on our webpage. URL: <http://www.hpc-hessen.de/en/user-support/regular-events/hiperch-7/>

Attendance fee: There is an attendance fee that depends on the different modules. This fee includes lunch and coffee breaks as well as the evening event. Bachelor and Master students (certificate of study is necessary) receive a 50% discount. After your registration you will receive a bill for this workshop end of February. Please pay by February 12, 2017:

Sparkasse Darmstadt
IBAN: DE 36 5085 0150 0000 7043 00, BIC: HELADEF1DAS
Reason for payment: SC 582 00346, HiPerCH 7, "your name", "your university"

For further information, please visit our webpage.
URL: <http://www.hpc-hessen.de>

