

Intermediate Course 2023/03/30: Advanced HPC and Data Management Topics@KIT

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All KIT, SCC



Before Starting:

- List of attendance:
 - Write your name, university and sign it
 - Entitlement of bwUniCluster → no **or**
Access to HoreKa → no
 - Write under „Notes“: „no access“

Before Leaving:

- Please fill the evaluation form:

The screenshot shows an evaluation form titled "HPC in Baden-Württemberg" by Dr. Robert Barthel. It is for an introductory course on HPC and Data Management. The form is divided into several sections:

- Header:** Includes logos for the Leibniz Centre for Computing, the Karlsruhe Institute of Technology (KIT), and the Leibniz Institute for Technology.
- Marking:** Options for "Mark" and "Correction".
- Lecture Evaluation:** A section titled "Please rate the 'lecture for beginners' regarding the following aspects" with 8 questions. Each question has a 5-point Likert scale (very good to very bad) and a checkbox for "not at all".
- Tutorial Evaluation:** A section titled "Please rate the 'tutorials for beginners' regarding the following aspects" with 8 questions, identical in format to the lecture section.
- General Commentaries:** Two text boxes for "In particular, I liked:" and "In particular, I did not like:". Below these is a question "Would you recommend this course to others?" with a 5-point scale.
- Organisation:** A section with 4 questions about registration, service, coffee breaks, and information sources, each with a 5-point scale.
- Final Questions:** A question about providing more information and a final affiliation question with checkboxes for "student", "PHD student", and "employee (but not PHD student)".

Access Pool Computers (1)

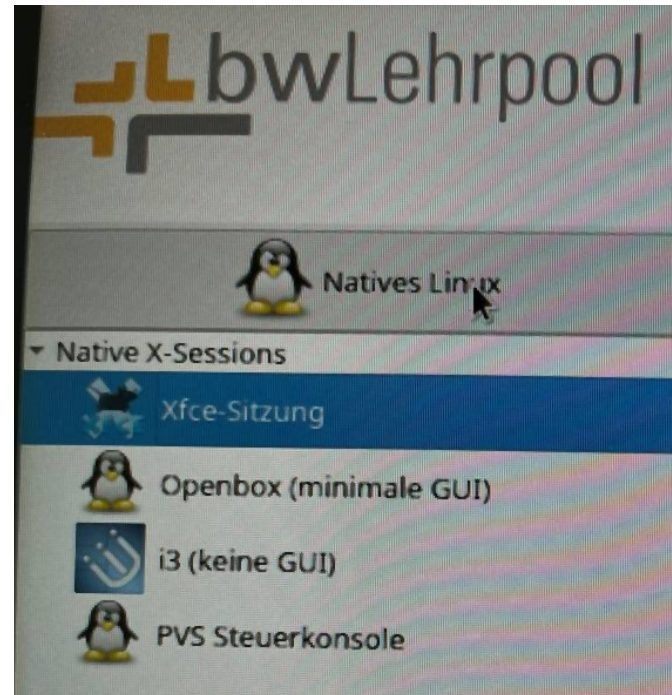
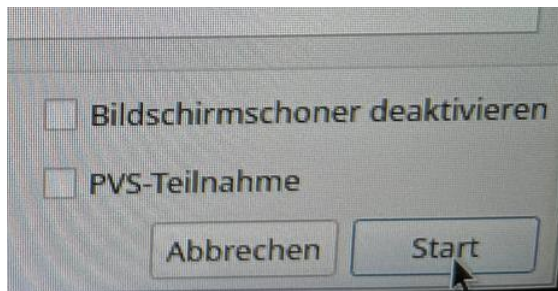
1. Reboot pool computer
2. Log in with your „User ID“ and home organization „password“
 - User ID = <unversity_accountname@<email-domain>
 - e.g.: KIT: `xy1234@kit.edu`
 - e.g.: Uni Stuttgart `ac123456@uni-stuttgart.de`



Access Pool Computers (2)

3. Choose „Natives Linux“
4. Choose from „Native X-Sessions“:
 - „Xfce-Sitzung“

5. Start Session



Where to get the slides and exercises?

■ https://indico.scc.kit.edu/indico/e/hpc_course_2023-03-30

bwUniCluster: /opt/bwhpc/common/workshops/2023-03-30

HoreKa: /software/all/workshops/2023-03-30

- exercises
- slides

Overview

Agenda

Registration

Contact

✉ courses@bwhpc.de

Das Steinbuch Centre for Performance Computing (SCPC) is a research center for high-performance computing (HPC) and data management (DM) at the University of Karlsruhe (KIT). The center provides a wide range of services and resources for researchers and students. The center is located at the Steinbuch Center for Performance Computing, 76131 Karlsruhe, Germany.

The Steinbuch Centre for Performance Computing course is aimed at (1) providing information about advanced HPC and DM techniques, and (2) providing hands-on experience with HPC and DM.

Starts 21 Oct 2023
Ends 21 Oct 2023
Europe/Berlin

exercises

slides

Course Agenda - March 30th 2023

09:30	→ 10:50	Advanced Bash Scripting + Exercises
10:50	→ 11:00	Break
11:00	→ 12:30	Advanced Job Scripting + Exercises
12:30	→ 13:30	Lunch Break
13:30	→ 14:30	Adv. topics - Usage of bwHPC & HoreKa clusters
14:30	→ 14:45	Break
14:45	→ 16:00	Batch system: Best Practices (incl. parallel jobs)