



Intermediate Course: High Performance Computing (HPC) *in Baden-Württemberg*

R. Barthel, S. Braun, H. Häfner
SCC, KIT



UNIVERSITÄT
HEIDELBERG
ZUKUNFT
SEIT 1386

Hochschule Esslingen
University of Applied Sciences

Universität
Konstanz



UNIVERSITÄT
MANNHEIM



Universität Stuttgart

EBERHARD KARLS
UNIVERSITÄT
TÜBINGEN



KIT
Karlsruher Institut für Technologie



ulm university universität
uulm



Baden-Württemberg
MINISTERIUM FÜR WISSENSCHAFT, FORSCHUNG UND KUNST

Funding:

www.bwhpc.de

Before starting:

- List of attendance
 - Sign your name on list
 - Add your university account
 - Why? To include your account to access compute node reservation on bwUniCluster

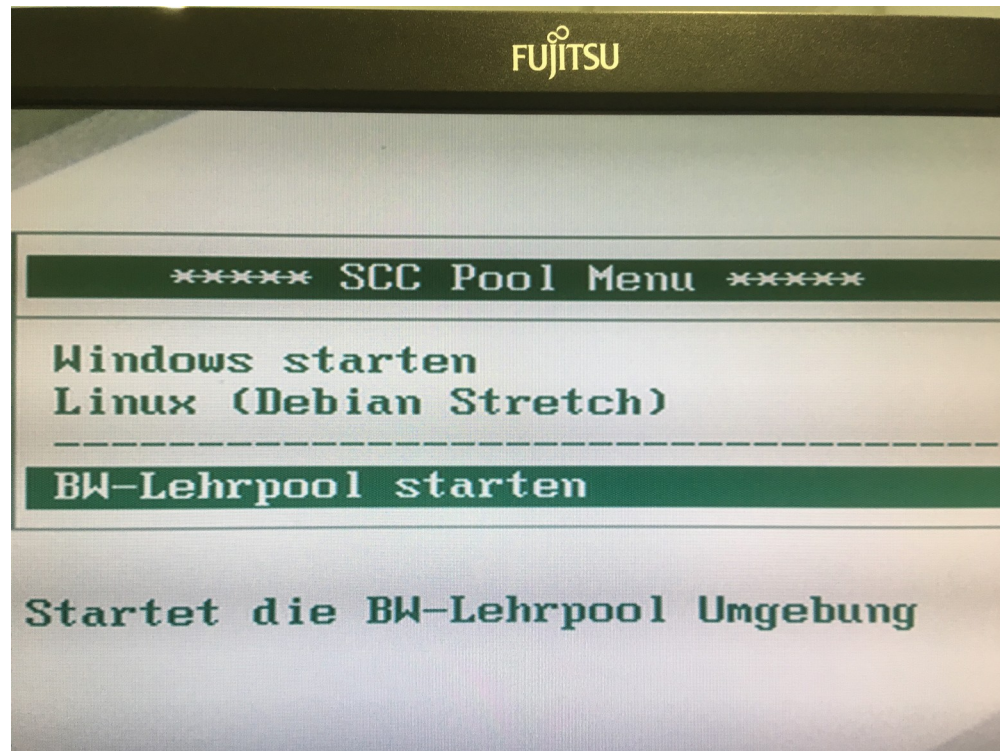
Before leaving:

- Please fill the evaluation form

Access Pool computers (1)

1. Reboot pool computer

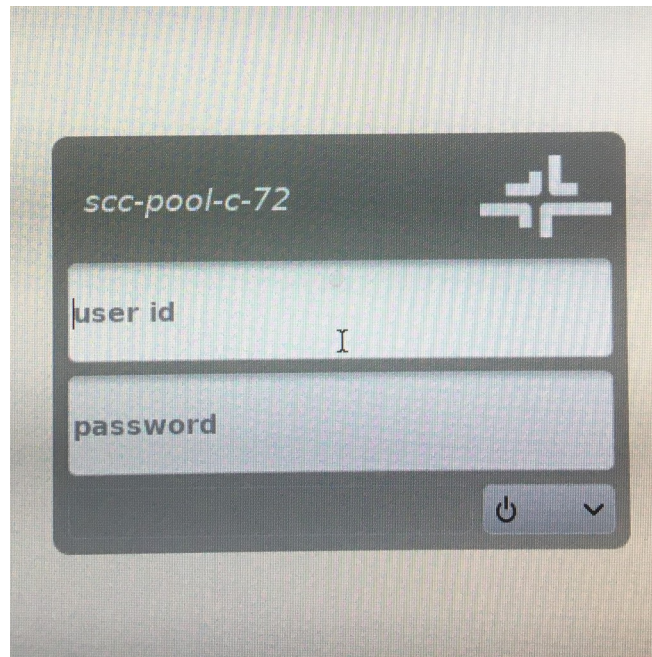
- At boot screen choose: „BW-Lehrpool starten“



Access Pool computers (2)

2. Log in with your „user id“ and „password“

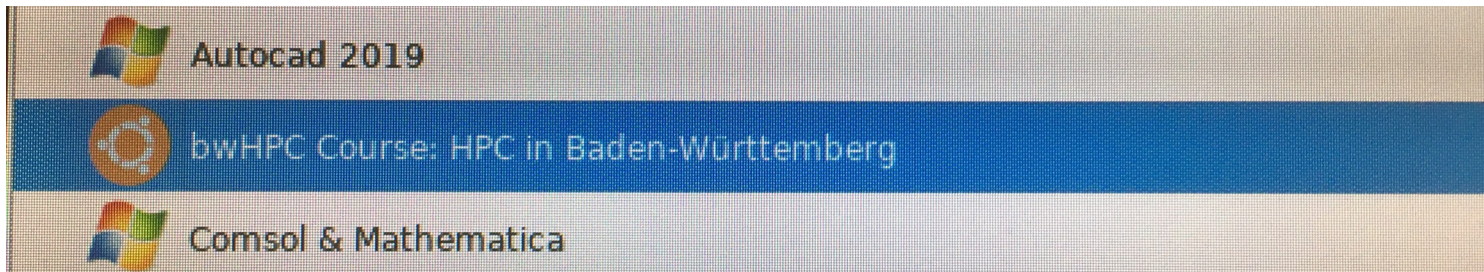
- User id: <university_accountname>@<email-domain>
 - e.g. KIT: xy1234@kit.edu
 - e.g. Uni Stuttgart: ac123456@uni-stuttgart.de



Access Pool computers (3)

3. Select & Load virtual machine „bwHPC Course“

→ Operational system is Ubuntu 18.10



→ Be patient: Starting may take longer since the whole OS is loaded from network

Where to get the slides and exercises?

- https://indico.scc.kit.edu/indico/e/bwhpc_course_2019-04-10 or
bwUniCluster: /pfs/data1/software_uc1/bwhpc/kit/workshop/2019-04-10

- Slides
- Exercises

Überblick / Overview

Agenda

Registrierung / Registration

Formular / Form

Das Steinbuch Center for Computing (HPC) is a high-performance computing (HPC) center at the University of Karlsruhe (KIT). It provides access to HPC resources (bwUniCluster, bwUniCloud) and offers training courses for HPC users. The next course is on December 6th, 2019, from 9:00 AM to 12:00 PM. The course is for beginners and the number of participants is limited to 35. No fee.

The Steinbuch Center for computing (HPC) is a high-performance computing (HPC) center at the University of Karlsruhe (KIT). It provides access to HPC resources (bwUniCluster, bwUniCloud) and offers training courses for HPC users. The next course is on December 6th, 2019, from 9:00 AM to 12:00 PM. The course is for beginners and the number of participants is limited to 35. No fee.

Starts 6 Dec
Ends 6 Dec
Europe/Berlin

Slides exercises

Course Agenda – April 10th 2019

Time	Presenter	Title
09:30	R. Barthel	Advanced Bash Scripting incl. Exercises
10:45		Coffee break
11:00	R. Barthel	Advanced Job Scripting incl. Exercises
12:15		Lunch break
13:15	S. Braun	Adv. Topics – Usage of bwHPC & ForHLR clusters
13:45	R. Barthel	Batch System: Best Practices (incl. parallel jobs)
14:30		Coffee break
14:45	H. Häfner	Compile, Makefile
15:30		End