

HPC working seminar for physicists

Scientific Computing Department at HIM

Dr. Dalibor Djukanovic

Dr. Peter-Bernd Otte

bi-weekly meeting – 13.9.2022



Today's Topics

1. Current implications
2. Outlook
3. ML
4. your questions

- compact in time (20mins + user questions/discussion).
- bring people together tackling the same problems
- minutes: <https://www.hi-mainz.de/research/computing/hpc-working-seminar/>

1) Current implications: large MPI jobs on Mogon 2

1. on Broadwell nodes (z...) currently only small MPI jobs
 - due to problem with network card

2) Outlook into the future

1. energy savings
 - Clover: 200kW, Mogon 2: 750kW, cross check: MAMI
2. “Nationales Hochleistungsrechnen” (NHR Süd-West),
 - U Mainz, TU Kaiserslautern, U Frankfurt und U Saarland
 - Entitled to apply for resources
 - 124M€/10a
 - Includes more training and networking for users
 - <https://www.nhr-verein.de/unsere-mitglieder>
3. Mogon 3
 - Actually under construction at Natfak, commissioning end of 2022?
 - GPU cluster
 - No HIM-physics share

3) ML in your thesis or workgroup

- Collection on best practices
- ML for physics analysis, modelling or slow control surveillance.
- Topic of your theses? Please let me know!

your questions / discussion /
requests to the maintainers?