HPC working seminar
for physicists

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bi-weekly meeting – 14.9.2021

Bi-weekly working seminar

- intendent for all students and postdocs on Himster 2
- beginners and experts
- compact (!): 15 mins (+15 for presentations)

- possible topics:
    - best analysis practices
    - news from the maintainer side
    - and all others you suggest

- bring people together tackling the same problems

Today and news

- Today maintenance day, no demos

- GPFS-fileserver will be retired at some point.
  - /project
  - compute node: 16.9.: read-only, 5.10.: gone
  - Login nodes: 16.9.: read-only

- New:
  - help for activation or reset of privacyidea by us

Hot Topics we are working on

- Singularity containers for anaylsis (BES, Panda)

- Lustre mount GSI <-> HIM via T-Bit Link
  - Test IP-connection with 10GBit/s
  - Lustre mount on special head nodes
  - next: user mapping

- visualisation of usage statistics via Elastic Search
  - together with ZDV

Software (1/2): Modules on Himster

- echo $MODULEPATH
- export MODULEPATH=$MODULEPATH:/cluster/him/modulefiles/
- module avail
  - Remarks: D = standard module, aliases exist, L = loaded

- module avail 2>&1 | wc -l
- module load tools/Singularity/
- module list

Software (2/2): cvmfs

Always lastest software from GSI and CERN:

- cd /cmvfs
- tree -L 2 bes3.ihep.ac.cn fairsoft.gsi.de geant4.cern.ch panda.gsi.de | more

- ready to run natively on Himster 2 or via Singularity

Next

- Next meeting on 28.9.
  - presentation of our users
  - singulalrity usage for EMP
  - hand in your topics!

- Next scheduled maintanance 5.10.

Present your work group

work group title	
working on:	detector simulation / data analysis / …
picture	
all involved:	• names • project headline • technique (group internal analysis framework / python scripts / fancy algorithms / …)

• Please return until end of next week