Wikiprint Book

Title: Public/User_Guide/PaS

Subject: DEEP - Public/User_Guide/PaS

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This page is intended to give a short overview on known issues and to provide potential solutions and workarounds to the issues seen.

To stay informed, please refer to the News page. Also, please pay attention to the information contained in the "Message of the day" displayed when logging onto the system.

2020-05-12: Currently no login possible

Detected HW and node issues

CM nodes

- dp-cn09 - dp-cn16: nodes currently reservedfor special use case during working hours
- dp-cn49: node currently reserved for special use case

DAM nodes

- dp-dam03: node currently reserved for special use case
- dp-dam04: showing low streams performance (#2401)
- dp-dam05: node currently reserved for special use case
- dp-dam07: showing problems with its FPGA (#2353)
- dp-dam08: issues with second socket CPU seen (#2304)

ESB nodes

- dp-esb08: GPU shows PCIe x8 connection only (#2370)
- dp-esb11: no GPU device detected, under repair (#2358)
- dp-esb23: MCE problems (#2350)
- dp-esb24: used for oneAPI testing (#2396)

SDV ESB nodes

- dp-sdv-esb[01,02]: replacement of V100 cards

Software issues

LDAP error message during login

- seeing frequent failovers between the master nodes that are being investigated
- currrntly, a failover might lead to seeing the following or a similar error message during login:

```
Error: ldap_search: failed to open connection to LDAP server(s) and search. Exception: socket connection error while openi
```

- the message usually can be ignored
- in addition, some of the environment variables, e.g. `$PROJECT` are not set (properly)
- if you see further issues or cannot login at all, please write an email to the support list: `sup(at)deep-est.eu`

SLURM jobs

- due to introduction of accounting with the start of the early access program there is some re-configuration of user accounts needed within SLURM to assign the correct QOS levels and priorities for the jobs
- this might lead to (temporary) failing job starts for certain users
- if you cannot start jobs via SLURM, please write an email to the support list: `sup(at)deep-est.eu`

/sdv-work corrupted

- due to failing disks the SDV work filesystem mounted to `/sdv-work` got corrupted and has to be rebuild
- meta data still seems to be ok, so directories and files can be seen, but no file access is possible
- not sure if any data can be recovered since work filesystems are not in backup

GPU direct usage with IB on ESB

- currently only available via Developer stage, for testing load:

```
module --force purge
module use $OTHERSTAGES
module load Stages/Devel-2019a
module load GCC/8.3.0 or module load Intel
module load ParaStationMPI
```

- use `PSP_CUDA=1` and `PSP_UCP=1`

GPU direct usage with Extoll on DAM

- new Extoll driver for GPU direct over Extoll currently being tested on the DAM nodes
- only available via Developer stage, for testing load:

```
module --force purge
module use $OTHERSTAGES
module load Stages/Devel-2019a
module load GCC/8.3.0 or module load Intel
module load ParaStationMPI
```

- expect performance and stability issues

Horovod

- currently only working with the developer stage

slurmtop

The `slurmtop` tool is not working properly, a workaround is to call it via

```
slurmtop 2> /dev/null
```