Wikiprint Book

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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.

Last update: 2023-10-11

Please, use the support mailing list sup(at)deep-sea-project.eu to report any issues

Please refer to the <u>Project News Page</u>. Also, please pay attention to the information contained in the "Message of the day" displayed when logging onto the system. The system status is reported on <u>?JSC status</u> as well.

Login node

• Time limit for user processes enforced on deepv login: Processes will be killed after 24 hours In case of problems, please contact niessen@?

Detected HW and node issues

Cooling issues

- pump in JSC cooling loop is running in manual mode: frequently running HPL jobs (with low priority) to create some load (waste heat)
 - HPL jobs can be killed on demand: in case of problems (your jobs being blocked by HPL runs), please contact j.kreutz@? or niessen@?

CM nodes

```
    dp-cn03: #2374 - Kernel update
    dp-cn25: #2769 - SEL Problems
    dp-cn50: #2769 - Testbed for beegfs
```

DAM nodes

```
dp-dam02: #2874 - Reserved for FPGA tests
dp-dam16: #3231 - ECC Memory
```

ESB nodes

• dp-esb[17]: #3196 - Energy meter not working

SDV nodes

- deeper-sdv cluster nodes (Haswell) have been taken offline: deeper-sdv[01-16]
 - not included in SLURM anymore
 - deeper-sdv[09-10] used for testing (please contact j.kreutz(at)fz-juelich.de if you would like to get access
- · knl01: serves as golden client for imaging only
- dp-sdv-esb[01,02]: will only be powered on demand

Software issues

Cuda and Rocky 8.6

New CUDA drivers on the compute nodes. In case of problems, please manually prepend your LD_LIBRARY_PATH (first for libcuda, second for libcublas, fft, etc.):

```
ln -s /usr/lib64/libcuda.so.1 .
ln -s /usr/lib64/libnvidia-ml.so.1 .
LD_LIBRARY_PATH=.:/usr/local/cuda/lib64:$LD_LIBRARY_PATH srun <srun_args> <exe> <exe_args>
```

nvidia driver mismatch

• loading CUDA module and trying to run nvidia-smi (or any application trying to use the GPU) leads to

```
Failed to initialize NVML: Driver/library version mismatch
```

- workaround is to unload the unload the driver module: ml -nvidia-driver/.default
- for furhter information, please also see ?here

nvidia profiling tools

• to launch the tools on a compute node using X-Forwarding another SSH session is needed:

```
srun --forward-x -p dp-esb -N 1 -n 1 --pty /bin/bash -i ssh -X -J <your account>@deep.zam.kfa-juelich.de <your account>@<the node you received>
```

• you will still see a warning "OpenGL Version check failed. Falling back to Mesa software rendering.", but the profling tool (e.g. nsight-sys) should start up