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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.

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

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. The system status is reported on ?JSC status as well.

Detected HW and node issues

Cooling issues

- pump failures for JSC cooling loop have been detected
- root cause still to be idedtified
- considering manual mode to allow for operation of CM and ESB nodes in the meantime

CM nodes

- dp-cn25: SEL ProblemsFW issues (#2769)

DAM nodes

- dp-dam02: reserved for FPGA tests
- dp-dam16: testbed

ESB nodes

- dp-esb[11]: memory issues (#2857)
- dp-esb[31]: GPU issues (#2949)

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

MODULEPATH

- MODULEPATH variable seems to get overwritten though being set correctly in `/etc/profile.d/modules.sh`
- leads to various modules not being detected / found correctly
- re-setting the MODULEPATH manually might solve the issue, please try:

```
export MODULEPATH=/usr/local/software/skylake/Stages/2022/modules/all/Compiler/sidecompiler/GCCcore/11.2.0:/usr/local/so
```

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