# 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.

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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 <a href="#">?JSC status</a> 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-cn25: Thermal issues within chassis slot (#2769)

#### **DAM nodes**

- dp-dam02: reserved for FPGA tests
- dp-dam13: failing healthcheck: memory\_not\_reclaimable
- · dp-dam16: testbed

# **ESB** nodes

- dp-esb[07]: wrong BIOS settings (<u>#2881</u>)
- dp-esb[17]: IB HCA issues (<u>#3140</u>)
- dp-esb[75]: Easybuild testbed (#3094)

### 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 might get overwritten when switching stages
- · leads to various modules not being detected / found correctly
- · re-setting the MODULEPATH manually might solve the issue, e.g. for the 2022 stage, please try:

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

# 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