

Table of Contents

Latest news on the DEEP-EST prototype system	2
System hardware	2
ESB nodes	2
DAM nodes	2
Network Federation Gateways	2
Global resources	2
NAM	2
File Systems	2
System software	2
SW updates	2
User management	2
BeeGFS Quotas	2

Latest news on the DEEP-EST prototype system

This is a summary of the latest news concerning the system. For a list of known problems related to the system, please refer to [this page](#).

Last update: 2020-12-03

Due to JUST problems there is currently no login possible !

System hardware

ESB nodes

- in CW51 the first ESB rack will be updated to use Extoll network (instead of IB)

DAM nodes

- Persistent memory for nodes dp-dam[03-16] will be extended to 3 TB with next maintenance (CW51)

Network Federation Gateways

- Gateway nodes will be completed in CW51 to the final layout:
- 2 NF-GW EDR/Fabri3
- 2x NF-GW 40GbE/Fabri3
- 2x NF-GW EDR/40GbE
- for an example on how to use the gateway nodes and for further information, please refer to the [batchsystem](#) wiki page.

Global resources

NAM

- a NAM SW implementation has been done, a test environment on the DAM is being set up (using dp-dam[03,04])

File Systems

- **a new All Flash Storage Module (AFSM) is going to be added to the system in January 2020**
- DEEP-EST storage has been rebuilt for performance reasons
 - BeeGFS servers and clients have been updated
 - the SDV is de-coupled now meaning that the SDV nodes do not mount /work anymore and the DEEP-EST (CM,DAM,ESB) nodes only mount /work (not /sdv-work)
- BeeGFS (/work) user quotas is in place now (see section "User management")
- It is possible to access the \$ARCHIVE file system from the deepv login node under /arch. For more information about \$ARCHIVE, please refer to the [Filesystems page](#) and see also the hint in the MOTD for efficient usage of the archive filesystem
- DCPMM usage within BeeGFS currently being tested on dp-dam03
 - more tests (with different kernel versions) being done

System software

SW updates

- new SLURM features are being integrated and will be rolled out in near future:
 - extended logging and improved resource management for jobs within a workflow
 - burst buffer pluggin
- 2020 Easybuild stage is currently being set up
- Intel oneAPI Beta 10 version has been installed to /usr/local/intel/oneapi

User management

BeeGFS Quotas

- a quota for the BeeGFS file system (mounted to /work) has been implemented
 - thresholds still to be defined