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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: 2021-08-19

System hardware

ESB nodes

the first ESB rack (nodes dp-esb[01-25]) is planned to be revised to use IB again (instead of Extoll interconnect)

- date for the HW intervention not yet fixed

DAM nodes

- along with first ESB rack also the DAM nodes will move to IB (instead of using 40 GbE and Extoll)

Network Federation Gateways

- with aiming for an "all IB" solution the NFGWs will become obsolete
- current status is
 - 2x NF-GW EDR/Extoll (1 x Fabri3, 1 x Tourmalet)
 - 2x NF-GW 40GbE/Extoll (1 x Fabri3, 1 x Tourmalet)
 - 2x NF-GW EDR/40GbE
 - the NF-GWs equipped with Fabri3 PCIe cards are not in operation
 - 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 has been set up on dp-dam[09-16].
- for more information on NAM usage and an example, please refer to [NAM with TAMP!](#) page

File Systems

please refer to the [Filesystems](#) overview

- recent changes:
 - a new All Flash Storage Module (AFSM) is in place and provides fast work file system mounted to /work on compute nodes and login node (deepv)
 - the older System Services and Storage Module (SSSM) still serves the /usr/local file system
 - SSSM storage has been rebuilt for performance reasons
 - BeeGFS servers and clients have been updated
 - 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. See hint in the MOTD for efficient usage of the archive filesystem

System software

SW updates

- new SLURM version has been installed: 20.11.8.
 - please use --interactive flag for interactive sessions now (see MOTD hint)
- 2021 Easybuild stage is being set up
- latest Intel oneAPI version is available in /usr/local/intel/oneapi

User management

BeeGFS Quotas

- a quota for the BeeGFS file system (mounted to /work) has been implemented
 - no need to activate thresholds yet