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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: 2021-09-08

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, but due to delivery time unlikely to be performed this year

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 TAMPI 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

- transition from CentOS to Rocky Linux currently being investigated
  - a second login node running rocky linux 8.4 has been provided for testing: `ssh -l your_judoor_id zam906`
  - few CM nodes can be used as rocky linux testbed: `dp-cn[47-50]`
  - please get in contact with `niessen(at)par-tec.com` if you would like to get access
- 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
  - as of 2021-09-08 the default stage is `2020` (was `2019a` before)
- 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