

Wikiprint Book

Title: Latest news on the DEEP-EST prototype system

Subject: DEEP - Public/User_Guide/News

Version: 37

Date: 01.09.2024 08:27:53

Table of Contents

Latest news on the DEEP-EST prototype system	3
System hardware	3
ESB nodes	3
DAM nodes	3
Network Federation Gateways	3
Global resources	3
NAM	3
File Systems	3
System software	3
SW updates	3
User management	4
BeeGFS Quotas	4

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 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

- 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@? 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