Wikiprint Book

Title: User Guide for the DEEP system

Subject: DEEP - Public/User_Guide

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User Guide for the DEEP system

News, current problems and solutions

- News about the system
- Known issues and solutions (workarounds)

Tutorial for new users

This tutorial will help you with your first steps on our project prototype:

- First steps tutorial
- Performance analysing and tuning tutorial

System overview

- System Overview
- Filesystems

Access the system

- Get an account
- Information about the batchsystem

How to use certain partitions and nodes

- DEEP-EST Cluster Module (dp-cn)
- DEEP-EST Data Analytics Module (dp-dam)
- DEEP-EST Extreme Scale Booster (dp-esb)
- Heterogeneous and modular jobs

Information on software and tools

- Available software and Modules environment
- Easybuild userspace installations
- Programming with OmpSs-2
- Usage of TAMPI
- Offloading Hybrid Applications' Tasks to GPUs (MPI + OpenMP/OmpSs-2)
- Accessing Network Attached Memory (NAM) from Tasks using TAMPI
- Parallel I/O with SIONlib
- Resiliency:
  - Usage of SCR (Scalable Checkpoint Restart)
  - Using FTI (Fault Tolerance Interface)
  - Usage of OpenCHK
- Intel Advisor XE (Vectorisation analysis)
- Integrate applications in JUBE
- Using the Benchmark Suite
- ParaStation MPI
- Energy Measurement

Reporting Problems

- For general application problems or running jobs please write an email to the support list: sup(at)deep-sea-project.eu
- Problems at DEEP with system management in general or other unspecified issues should be reported by creating a ticket. To do so please send a mail to deeptrac(at)par-tec.com
- Chat: chat.freenode.net, port 6667, Channel #DEEP_User