

Wikiprint Book

Title: User Guide for the DEEP system

Subject: DEEP - Public/User_Guide

Version: 38

Date: 03.05.2024 01:45:43

Table of Contents

User Guide for the DEEP system	3
News, current problems and solutions	3
Tutorial for new users	3
System overview	3
Access the system	3
How to use certain partitions and nodes	3
Information on software and tools	3
Reporting Problems	3

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](mailto: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](mailto:deeptrac(at)par-tec.com)
- Chat: [?https://chat.fz-juelich.de/group/jsc_deep](https://chat.fz-juelich.de/group/jsc_deep)