

## 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](#)
- [SAGE](#)

### 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](#)

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## 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 [deeptac\(at\)support.par-tec.com](mailto:deeptac(at)support.par-tec.com)

- Chat: [https://chat.fz-juelich.de/group/jsc\\_deep](https://chat.fz-juelich.de/group/jsc_deep)