

Challenges

- Achieving high performance
- Understanding observed behavior (and performance)
 - ▶ The I/O hardware/software stack is very complex – even for experts
- Tuning system settings and configurations
- Enabling performance portability
- Managing files and (data-intense) workflows
- Utilizing heterogenous storage landscapes

These are opportunities for tools and method development!

- Diagnosing causes, predicting performance, prescribing settings
- Smarter ways of data handling