FEATURES AND BENEFITS

Why DAOS?

- **Performance:** DAOS provides a very high performance using a modern software architecture and utilising latest generation hardware.
- **Scalable:** Scales from a few TB to hundreds of TB all-flash capacity without straining your budget. Of course without downtime, interruption or high step-fixed costs
- **Flexible:** Support for multiple access methods: File access through DAOS file system (DFS), block via NVMEoF or iSCSI, NFS/SMB (croit implementations), HDF5, MPI-IO, VeloC, Apache Spark, TensorFlow, NoSQL, Amazon S3
- **Adaptable:** With the DAOS Storage SDK, create own data structures and models to greatly improve application performance
- **Reliable:** Data placement accounting for fault domains; replica or erasure code based redundancy; end-to-end data integrity. Self-healing capabilities to recover from failed or corrupted storage.
- **Smart:** Data indexing and query capabilities and in-storage computing to reduce data movement and barrier between storage and compute nodes

* cf. IO500.org https://io500.org/list/sc22/ten

Why DAOS Management from croit?

- **Efficient:** High level of automation saves precious time for more important work
- **Fast:** With a few clicks and in a matter of minutes you can have a DAOS solution deployed and running ready to serve data to your applications.
- **Secure:** Audit-Log, Upgrade-System, Backup and more; FIPS and Common Criteria ready
- **User friendly:** Entire clusters are managed via a modern, attractive web interface
- **Comfortable:** Optimizable for performance, redundancy or cost; easy integration with APIs and event scripts
- **Clear:** Integrated statistics provide an overview at any time with comprehensive graphical evaluations
- **Appliance Model:** Operating system, DAOS and other services in one image - tested and suitably assembled by croit
- **Support & Consulting:** croit helps you to plan and implement your cluster based on proven best practices
- **Future-proof:** As Intel technology partner, we help to advance the development of DAOS based on customer expectations

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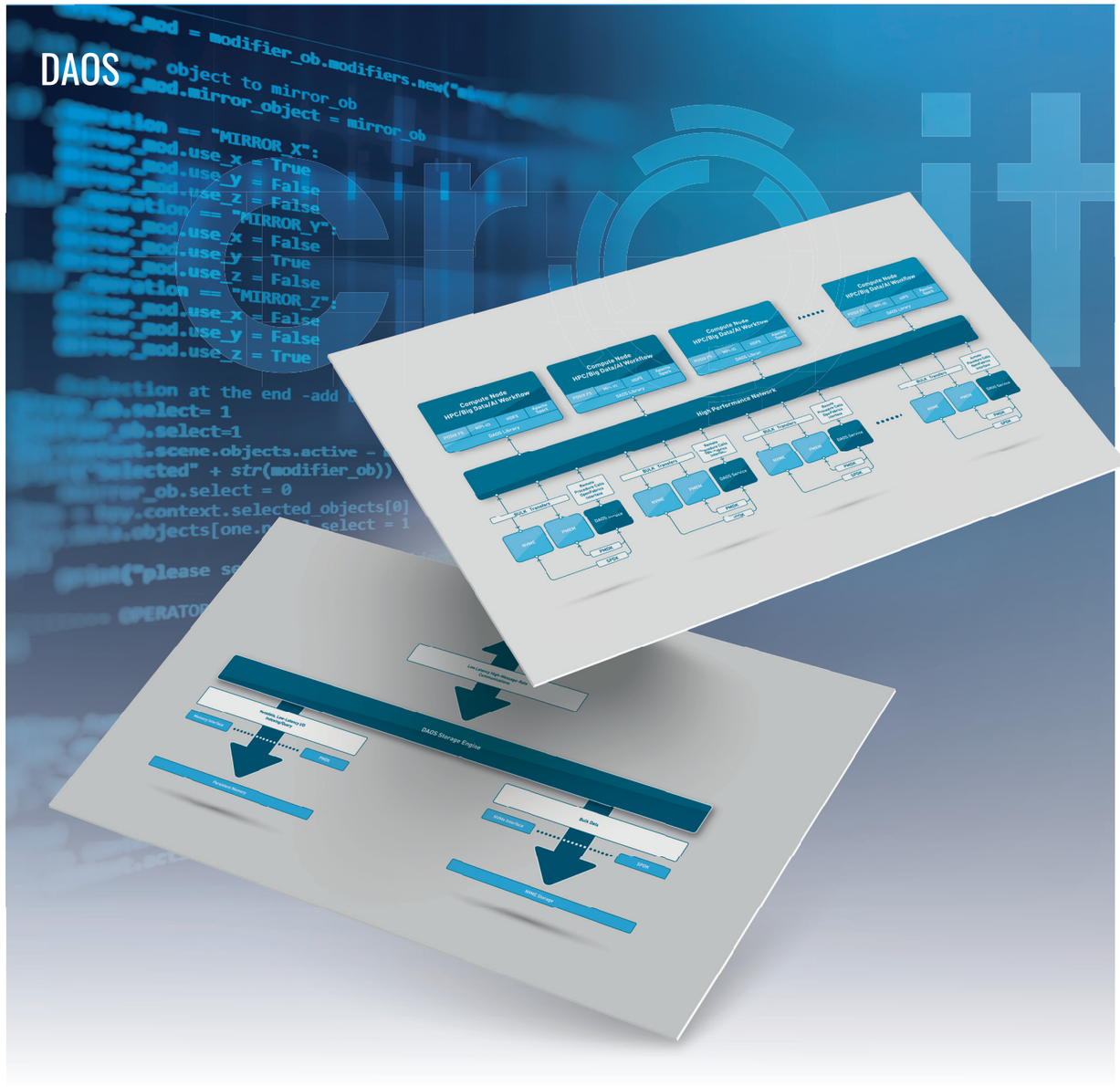
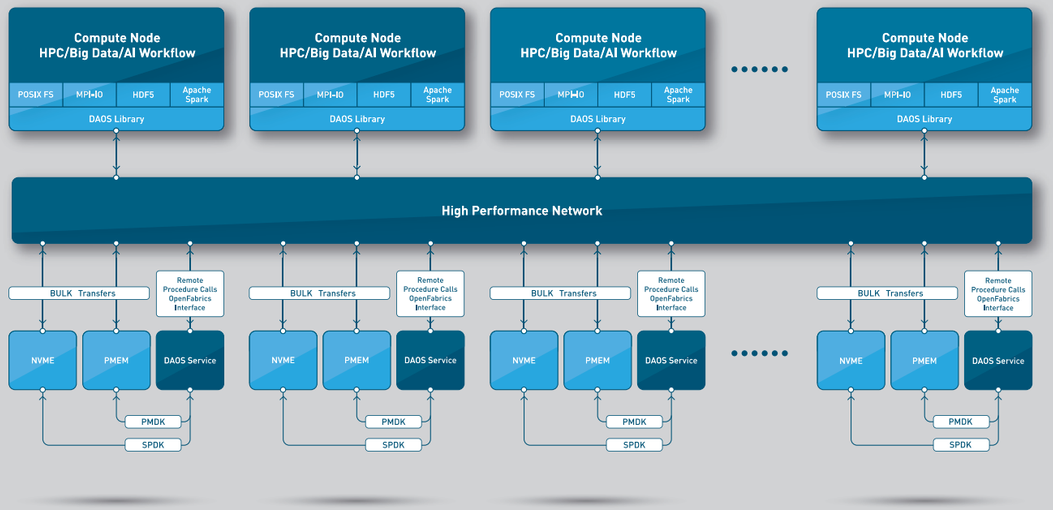


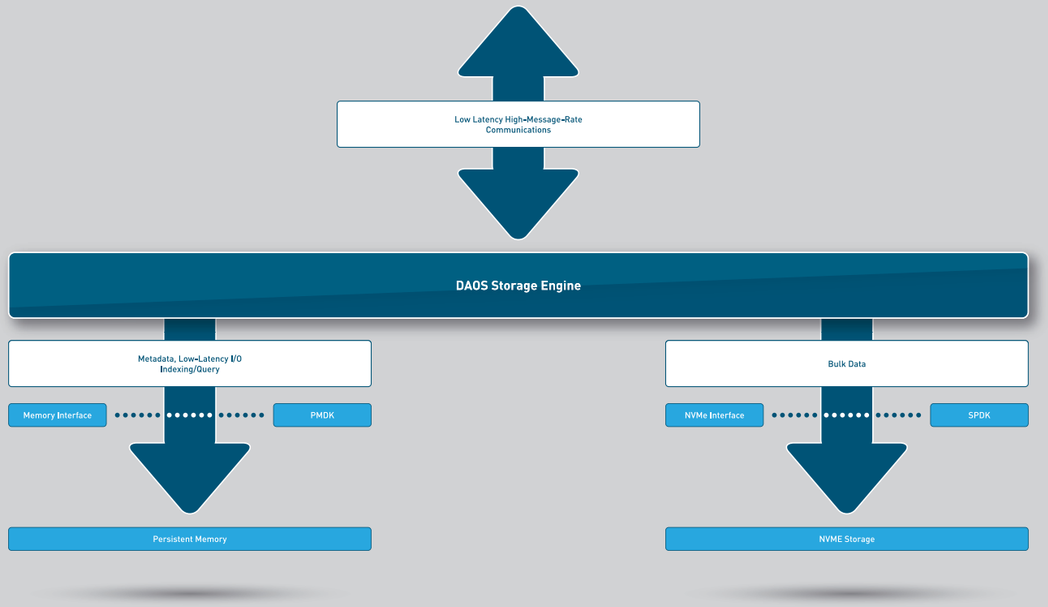
CROIT STORAGE PLATFORM FOR DAOS

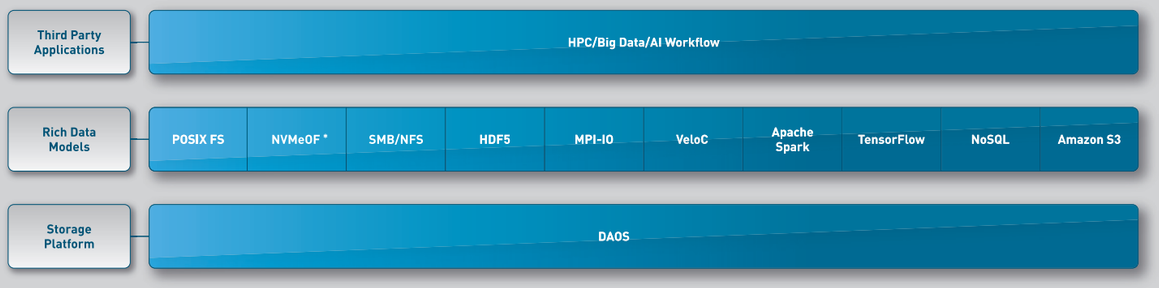
Ultra High Performance Storage

Smart Technologies Made Easy

croit







* Developed and provided by croit

CROIT STORAGE PLATFORM FOR DAOS

What is DAOS?

- Scale-out storage solution offering high-performance distributed parallel file system and key/value store
- DAOS uses next generation hardware: Persistent Memory and NVMe
- Provides end-to-end data integrity and data redundancys
- Advanced data protection through self-healing mechanisms
- Networking via TCP Sockets (Ethernet) or RDMA (Infiniband, Omnipath)
- Transactional non-blocking I/O
- Data indexing and query capabilities
- Offers a Storage SDK to write specific structures and models which can help you to greatly improve performance of your application

What is the croit Storage Platform for DAOS?

- Integrated on-premise management platform
- From bare metal to production
- Automated deployment tools
- Full graphical interface with cluster visualization and management
- Advanced monitoring and diagnostic features
- Additional services like NVMeOF/NFS/SMB easily deployed and configured

croit Services:

- SLA-backed technical support
- Consulting (planning and sizing of storage solutions)
- Professional Services
- Training
- Named engineer support

Highlights

- High-bandwidth, low latency and high IOPS
- Accessible as Filesystem and block over NVMEoF/iSCSI, NFS/SMB (croit implementations)
- Many other integrations: HDF5, MPI-IO, POSIX, Apache Spark
- Accommodates block, file and object
- Provides an SDK to create own data structures and speed up application performance

About croit

- Founded in 2017
- Employees and follow the sun support team spread around the globe in multiple locations
  - in 10 countries
  - on 5 continents
- Intel DAOS Technology Partner
  - Software Development
  - 3rd party support
- Member of the Linux Foundation
- Founding member of the Ceph Foundation

croit is one of
the top Innovators
in Germany

TOP 100 top100.de Top-Innovator 2023

Deloitte.

Winner
Technology Fast 50 Award 2022
Powerful Connections

50 Technology Fast 50 2022 Deloitte.

croit on Youtube

Our channel

croit/Intel partnership video