



Achieving High Performance I/O with HDF5

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Foundations of HDF5

- Introduction to HDF5 data model, file format, and architecture
- Introduction to HDF5 APIs to store and organize data
- Introduction to HDF5 I/O

Parallel I/O with HDF5

- Overview of parallel file systems, MPI I/O,
- Parallel HDF5 architecture and HDF5 parallel capabilities
- Using HDF5 to write to shared files with different access patterns
- Understanding I/O performance and debugging
- Parallel I/O tuning techniques

ExaHDF5 - Features developed in ECP

- Virtual Object Layer (VOL)
- Asynchronous I/O
- Subfiling
- Using new storage layers (Data Elevator and UnifyFS)
- Querying
- ECP Application support

Live Google doc discussion - tinyurl.com/uoxkwaq