HDF5 Library Update

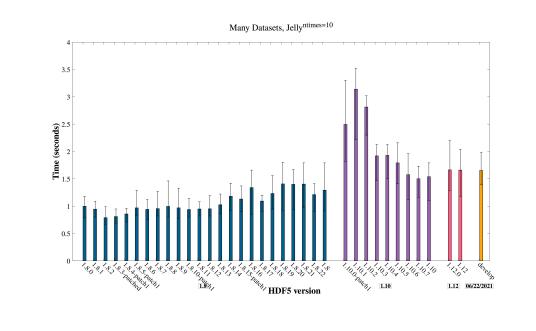


HDF5 Maintenance Releases

- <u>Latest HDF5 releases</u> are 1.8.22, 1.10.7 and 1.12.1
 - Bug fixes, CVEs
- Upcoming releases
 - Maintenance releases HDF5 1.10.8 and 1.8.23 (Summer Fall 2021)
 - "Unstable" line HDF5 1.13.* from the HDF5 develop branch
 - Goal: deliver new HDF5 capabilities for the next major HDF5 release 1.14.0
 - Fully tested releases
 - Caveat: APIs and File Format may change between versions
 1.13.X and 1.13.X+1

HDF5 Wish List

- Maintenance issues
 - Documentation
- Performance
 - VDS feature
 - 1.8.* vs. later releases
- Multi-threaded HDF5
- Full support for UTF-8 encoding
- Avoiding HDF5 file corruption



HDF5 Development (work toward 1.14.0)

- Enhancements to parallel compression (let is scale!)
- Enhancements in HDF5 VOL layer to support HDF5 VOL connectors
 - DAOS, Async, Cache, and REST VOL connectors
 - Dynamically loaded VFDs (Nvidia GPU VFD) OS ODJECT STOPE
 - Available in 1.13.0
- New features
 - Sub-filing, VFD SWMR, "Onion" VFD
 - Available in 1.13.1 or later
- Stay tuned for THG Webinar announcements on HDF5 VOLs and VFDs

€ S3 >

Building HDF5 Community

- HDF software is on GitHub now!
 - HDF5 RM (Doxygen) is hosted on S3
 - https://docs.hdfgroup.org/hdf5/develop/
 - https://docs.hdfgroup.org/hdf5/v1 12/
- THG runs h5py regression testing in house
- Please report any issues you found or propose improvements including Documentation; open an issue on GitHub or contact help@hdfgroup.org
- Participate in THG Clinic (every Tuesday), Webinars, HUG meeting on October 12-16, 2021