HDF5 and Data Format

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Workshop Goals

- Give training to the new users of HDF5 and help experienced users with performance tuning of HDF5 applications
- Share experience with using HDF5 features introduced during the ICALEPCS2015 HDF5 Workshop and identify improvements
- Update on new HDF5 development and upcoming releases
- Update on the HDF5 based software used at the different sites
- Discuss new requirements and future plans

Workshop Highlights

- 56 participants from 19 countries and 26 organizations
- Presentations
  - https://indico.esrf.fr/indico/event/12/
- General information about The HDF Group and HDF5
  - https://www.hdfgroup.org
- HDF5 Documentation and other resources
  - https://support.hdfgroup.org

Workshop Highlights

- Development and public releases of HDF5 dynamic compression and I/O optimizations, and SWMR and VDS features were made possible with funding from DLS, ESRF, DESY, and Soleil Centers
  - The features were widely adopted by other HDF5 communities
- The features showed to be a key for the enabling data acquisition with the high-speed speed detectors
- THG's prototype implementations of HDF5 REST APIs and h5serv proven to be useful for serving HDF5 files via Web interface
- Custom compressions including hardware compression are of special interest to the community

Workshop Conclusions

- Several enhancements were identified for the VDS and SWMR features
  - The HDF Group is committed to develop and release the enhanced functionality
- HDF5 is a critical element of the software stack for many organizations
  - Reduce the risk for your organization and help to sustain HDF5 by having Support Agreements with The HDF Group
- Training presented a challenge due to the different levels of HDF5 knowledge among the participants
  - Organizers will follow up with the survey to get feedback on the Workshop and suggestions for the next one
  - Survey link https://www.surveymonkey.com/r/ICALEPCS17Post