Announcement of new command: DataConvert3 at the SACLA HPC

1 Overview

This is an announcement of new command at the SACLA HPC. We have released new command: "DataConvert3". DataConvert3 is an upgrade of the command "DataConvert" which is called DataConvert2. You can download your experimental data to your storage space as an HDF5 file at the HPC by using this command. Compared with the old DataConvert, DataConvert3 can output signals of equipment in the experimental hatches and the information of accelerator and light source into an HDF5 file.

2 Conceptual specification

The HDF files created by DataConvert3 are designed to provide full dataset which includes data of detectors, signals of equipment in the experimental hatches, and the information of accelerator and light source. According to this design, the structure of HDF5 tree, the registered signal names and their datatype are optimized.

3 Note

The structure of HDF5 tree, the registered signal names, and their datatype in the HDF5 file generated by "DataConvert3" is incompatible with ones generated by "DataConvert". The support for the command "DataConvert" is scheduled to end in March 2013. The early transition from "DataConvert" to "DataConvert3" is recommended.

4 Example of use

You can generate test data by using the command “DataConvert3” as described below.

- Type “mkdir ~/data/hdf5_test”.
- Type “ssh xfer1 DataConvert3 -r 97027 -dir ~/data/hdf5_test -o 97027_db_only.h5 -mode 10”.
- Type “ssh xfer1 DataConvert3 -r 97027 -dir ~/data/hdf5_test -o 97027_cameras.h5 -mode 10 –each”.

For more detail, you can see the online manual of “DataConvert3” by typing;
“ssh xfer1 DataConvert3 -help”.

5 Difference from DataConvert

See the document of “Appendix of new command: DataConvert3 at the SACLA HPC”.