

Hierarchical Data Format (HDF5)

- A HDF5 file is a smart container
 - Capable of storing multidimensional datasets, Images, text, measurement parameters, etc.
 - Contents organized like traditional folders and files
 - **Groups** - Analogous to file folders
 - **Dataset** – 1 to N dimensional data
 - Integer, floating point, complex numbers etc
 - **Attributes** – {Key : value} pairs useful for describing data and experimental parameters, etc.
- Easily accessible – C, C++, python, Java....
- Tree structure + nomenclature + attributes are **records of workflow** applied to dataset
- Parallel read / write, HPC & cloud compatible

