Summary of Software Using HDF5 by Name - Abridged (January 2017)

Name (with Product URL)	Short Description
ActivePapers (http://www.activ...	File format for storing computations.
Adaptive Entropy Encoding Libr...	Freely available SZIP implementation available from the German Climate Computing Center
ADIOS	IO componentization of different IO transport methods
Adxv	Software for the display and analysis of X-Ray diffraction images
Alembic	Computer graphics interchange framework
Amelet-HDF	API to provide standard for working with electromagnetic data
Bathymetric Attributed Grid Data Format	File format for storing bathymetric data
BEAM	Basic ENVISAT Toolbox for (A)ATSR and MERIS data
Bear	Bers slices and holomy representations
BEAT	Toolkit for working w/atmospheric data
Cactus	Problem solving environment
Ceemple	Rapid C++ technical computing environment,with built-in HDF support
CGNS	Software for working with CFD Analysis data
Chombo	Tools for working with partial differential equations

CSP	Command-line tool to convert/plot a Perkin Elmer sp3 spectra file into HDF5
Data Visualizer for O-Matrix	O-Matrix command-line interface that works with Intel Array Visualizer
Dawn	Visualization and Analysis platform for synchrotron data
Derby	Data browser for exploring product types from GCM
DIAdem (HDF5 DataPlugin)	Helps engineers and scientists to quickly locate, inspect, analyze, and report on measurement data
DREAM.3D	A software environment for analyzing digital microstructure dataA
dxhdf5	Import HDF5 data into Open DX
EnSight	Tools for engineering and scientific simulation
Fiberbundle HDF5 (F5)	I/O library that implements a common data model for scientific visualization
Field3D	Library/format for storing voxel data
FLASH	Code for simulation of thermonuclear flashes
Galacticus	A semi-analytic model of galaxy formation
Geomatica	Integrated software system for remote sensing and image processing
Globe Claritas	Seismic processing software (geophysics)
GNU Octave	MATLAB-like tool
GriKSL	Develop grid-based simulation and viz techniques for CACTUS
h5check	A tool to check the validity of an HDF5 file

h5edit	Command-line tool to edit HDF5 files. Currently limited to operations on attributes
H5hut	High performance I/O library for particle based simulations.
h5labview	Interface between NI LabVIEW and HDF5
H5MD	File format specification for efficient and portable storage of molecular data
h5py	Python interface to HDF5
H5utils	Conversion and Visualization tools for HDF5
H5WS API	API that allows remote HDF5 data access using Web Services.
HDF Compass	A visual tool to navigate HDF5 files
HDF Explorer	Data Visualization program for HDF and HDF5
HDF Java Products	Java API for HDF and HDF5 and HDFView tool
HDF Server	Python-based web service to send/receive HDF5 data using HTTP-based REST interface
HDF4 to HDF5 Conversion Library	Library and tools to convert HDF4 files to HDF5 files
HDF5 and .NET	P/Invoke declarations for core HDF5 C-API
HDF5 bindings for Delphi	Delphi module with HDF5 bindings
HDF5 High Level APIs	High Level APIs that come with HDF5 to simplify code and provide standards
HDF5 Indexing Prototype	Prototype for storing bitmap and projection indices in HDF5
HDF5 Mesh API	Prototype for storing structured and unstructured grids in HDF5

[HDF5 Plugin for ImageJ and Fiji](#)	Java plugin for ImageJ and Fij image processing package
[HDF5 Utilities](#)	Utilities that come with HDF5 for analyzing and converting HDF5 files and compiling HDF5 applications
[HDF5 XML](#)	An HDF5 DTD and tool
[HDF5-FastQuery](#)	APIs to extend HDF5 selection and accelerate queries
[hdf5read](#)	Module to read selected datasets and attributes from HDF5/HDF-EOS data files
[HDF-EOS](#)	Software for working with remote-sensed data from Earth Observing System
[HDFView](#)	Java-based tool for viewing and editing HDF and HDF5 files
[HL-HDF](#)	C & Python high level library for scientific data in HDF5
[HydroVISH](#)	Visualization framework built on top of Vish for lidar and multisensor mass data
[IDL](#)	Visualize and analyze HDF data with IDL. Query, read HDF files.
[Igor Pro](#)	Visualize/analyze 1D, 2D, 3D data
[Intel Array Visualizer](#)	Windows app to read, write, display array data from HDF4, HDF5, others
[ITK](#)	Toolkit for performing registration and segmentation of medical images
[JHDF5](#)	High Level Java API for HDF5
[LIBGPIV](#)	Library for (Digital) Particle Image Velocimetry Technique
[lvhdf5](#)	HDF5 API for Labview
[Mathematica](#)	Environment for technical tasks ranging from computations to visualizing or modeling data

MATLAB	Numeric computation, advanced graphics and visualization. Query, read HDF files
MDSplus	Tools for data acquisition and storage; methodology for management of complex scientific data
MED	Standard for storing and recovering data associated with numerical meshes and fields.
MeteoInfo	Software to view and analyze meteorological and spatial data interactively
Million Song Dataset	Collection of audio features and metadata for a million contemporary music tracks
Mirador	Earth Science Data Search Tool
MOAB	Component for representing and evaluating mesh data
Mosaik	A flexible smart grid co-simulation framework
MultiSpec	Remote sensing analysis application for multispectral and hyperspectral data
MXA	File format and API for managing data from scientific experiments using XML
mz5	Space- and time-efficient storage of mass spectrometry data sets
NCL (NCAR Command Language)	Interpreted language for sci data analysis and visualization
NetCDF-4	Set of interfaces for array-oriented data access
NeuroHDF	Software to manage neuroscience data
NeXus	Common data format for neutron, x-ray and muon science
NI-HWS	Uses limited subset of HDF5 for storage and retrieval of waveforms and attributes
O-Matrix	Interpreted matrix language for data analysis and visualization

OpenCV	Computer vision and machine learning software library
OPeNDAP	Software framework for remote scientific data transfer and access
Opticks	Expandable remote sensing and imagery analysis platform
OpticsBenchUI	Demo of integrated solution to manage a simple optics bench of cameras, motors and DACs
OSSIM	Open Source Software Image Map library for geospatial image processing
PAM-CRASH	ESI's open HDF5 database format to store results of FEM-based simulations
pandas (http://pandas.pydata.o	Python Data Analysis Library
Paramesh	Fortran subroutines to extend serial AMR code to parallel
ParaView	Visualize large data sets in serial or parallel environments, using VTK
pconvert	Command-line tool to convert BEAM and ENVISAT products to HDF5
PhDC4D	Software for maintenance management of ships, offshore structures and static equipment
Pomegranate	Web service software, web API, library and command line tool
PSH5X	Windows powershell module for HDF5
PV-WAVE	Visualization and Analysis language and environment
PyHexad	Python-based Excel add-in for HDF5
pyqt-h5browser	HDF5 Python browser
pyrat	Simplifies handling of large multi-frequency radio interferometric visibility datasets and images

PyTables	Python API to organize and manipulate scientific data tables and other numeric objects
Q5Cost	Library and interface used in Quantum Chemistry
R	System for statistical computation and graphics, has HDF5 interface
RAMS	Atmospheric Modeling System
RESQML	Exchange standard for subsurface data
Rybo Geo Data	Processing of Airborne Geophysical Data
Salome	A journaling filesystem driver for HDF5 based on SEC2 driver
Salome	CAD/CAE integration and development platform
Scilab	Scientific software package for numerical computations
SCiLS Lab	Software for statistical analysis of MALDI imaging data
SeisHDF plug-in	Plug-in for Petrel 2013 for exporting to and importing from HDF5 files.
Silo	A mesh and field I/O library and scientific database
SLh5	Open source HDF5 module for S-Lang
SPDLib	Software for processing laser scanning data (i.e., LiDAR)
STAR-CCM+	CFD software
Swarm	Simulator for fine-grained, composable scheduling
SWX	Space Weather Explorer to visualize space weather model output in 3D

SYSTEMA / THERMICA	Spacecraft modeler and thermal analyser
Tecplot	Interactive visualization program
THESEUS-FE	Simulation software based on Finite-Element solver methodology for handling thermal radiation
TPC5	HDF5-based format for multi-channel data acquisition
Veusz	Scientific plotting and graphing package to provide publication-ready output and edit/view data.
VisAD	Java toolkit for interactive and collaborative viz and analysis
Vish	Flexible software environment for processing and visualizing spatio-temporal data (uses F5)
VisIt	Tool for visualizing fields in 2D and 3D meshes
ViTables	PyTables and HDF5 file viewer and editor
VSIM	PIC (particle-in-cell) simulation tool to run plasma, electromagnetic and electrostatic problems
WaveCut	Application with GUI for analyzing large amounts of signal waveform data
XDMF	Data format and library using XML and HDF5 in High Performance Computing
Yorick	Interpreted programming language
Zori	Calculate properties of atoms/molecules using quantum Monte Carlo methods