

Newsletter #145

May 15, 2015

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Release of HDF5-1.8.15

The HDF5-1.8.15 release is now available and can be downloaded from The HDF Group Downloads page:

<https://support.hdfgroup.org/downloads/>

It can also be obtained from:

<https://support.hdfgroup.org/HDF5/release/obtain5.html>

HDF5-1.8.15 is a minor release with a few new features and changes. Important changes include:

- Support was added for the following platforms:
 - Linux 3.10
 - Mac OS X Yosemite 10.10
 - AIX 6.1
- Several new C functions were added to HDF5:
 - H5allocate_memory() and H5resize_memory() were added to resolve heap corruption issues and crashes (especially on Windows). They allow filter authors to allocate or resize memory using the same memory allocation library that HDF5 uses.
 - H5PLset_loading_state() and H5PLget_loading_state() were added for improving control of dynamically loaded plugin libraries.
- Numerous changes and improvements were made to the C++, Fortran, and High Level APIs.
- Many configuration changes were made in this release. They include the following:
 - Old (or unused) options and platform files were removed, including those for VMS.
 - The minimum CMake version was moved to 3.1.

- WiX packaging was added for CMake on Windows.

This release contains many other changes that are not listed here. Please be sure to read the Release Notes for a comprehensive list of new features and changes:

<https://support.hdfgroup.org/ftp/HDF5/releases/hdf5-1.8.15/src/hdf5-1.8.15-RELEASE.txt>

Changes that affect maintainers of HDF5-dependent applications are listed on the HDF5 Software Changes from Release to Release page. See:

<https://support.hdfgroup.org/HDF5/doc/ADGuide/Changes.html>

Highlights

The following items of interest came up since the last newsletter.

- The HDF Blog was launched in March and numerous articles have already been posted. Be sure to check it out: <https://www.hdfgroup.org/blog/>
- A new O'Reilly book "Effective Computation in Physics" has a chapter on HDF5: <http://shop.oreilly.com/product/0636920033424.do>

Following is an interesting user:

- Galacticus is an open source semi-analytic model of galaxy formation that uses HDF5: <http://sites.google.com/site/galacticusmodel/>

Although The HDF Group does not endorse any particular product, we are pleased that these products and efforts support HDF. We are always interested in learning about applications that use the HDF technologies. Please do let us know about your software or project if you have not already done so. You can fill out a registration form (or send a message to the HDF Helpdesk):

<https://support.hdfgroup.org/downloads/registration.php>