

HDF5 1.8.15

Version	HDF5 1.8.15
Release Date	2015-05-04
Download	/ftp/HDF5/releases/hdf5-1.8/hdf5-1.8.15/
Release Notes	Release Notes

Release Notes:

HDF5 version 1.8.15 released on 2015-05-04

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INTRODUCTION

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This document describes the differences between HDF5-1.8.14 and HDF5-1.8.15, and contains information on the platforms tested and known problems in HDF5-1.8.15.

Links to the HDF5 source code, documentation, and additional materials can be found on the HDF5 web page at:

<http://www.hdfgroup.org/products/hdf5/>

The HDF5 release can be obtained from:

<http://www.hdfgroup.org/HDF5/release/obtain5.html>

User documentation for HDF5 can be accessed directly at this location:

<http://www.hdfgroup.org/HDF5/doc/>

All new and modified APIs are listed in detail in the "HDF5 Software Changes from Release to Release" document at this location:

<http://www.hdfgroup.org/HDF5/doc/ADGuide/Changes.html>

If you have any questions or comments, please send them to the HDF Help Desk:

help@hdfgroup.org

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New Features

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Configuration

- CMake

Improvements made to the CMake build system.

The default options were changed to align with the Autotools configure defaults. CMake configure files now support components when packaged with CPack. Windows CPack supports WiX packaging, and will look for WiX and NSIS in the standard locations.

The CMake minimum has been changed to 3.1.

(ADB - 2015/04/01 HDEFFV-8074, 8968, 9006)

- cmakehdf5 for Cmake building.

Added configure options to support the building of Fortran or CXX API, to enable/disable testings. Use "cmakehdf5 --help" for details.

(AKC - 2014/12/09 HDEFFV-8932)

- Building Shared and Parallel Made Explicit

When --enable-parallel is specified, configure used to disable shared by default.

Removed the restriction for building shared when parallel is enabled. --disable-shared has to be used explicitly if user wishes to disable shared libraries.

(MSC - 2015/02/19 HDEFFV-9069)

- Inferring Parallel Compilers

configure was trying to infer if a compiler is a parallel compiler with MPI support and enable parallel even if the user did not explicitly enable parallel. This should not happen.

Disabled inferring parallel compilers to enable parallel HDF5 build. --enable-parallel has to be used explicitly to build parallel HDF5 regardless of the compiler type being used.

(MSC - 2015/02/19 HDEFFV-9068)

- Large File Support Configuration Option

Removed the option to enable or disable large file support. It will always be enabled.

(MSC - 2015/02/19 HDEFFV-9097)

- Removed Configuration Feature

When configure detected that the CodeWarrior compiler was being used it

would define a symbol that caused a test in test/tfile.c to be skipped due to a broken CodeWarrior open() command.

Since this only masks the problem instead of fixing it and we don't support CodeWarrior anyway, this functionality was removed.

(DER - 2015/02/21, HDFFV-9080)

- VMS Build/Test Files Have Been Removed

HDF5 no longer supports VMS, and the files were getting out of date. Since we have no access to a VMS machine, there is no way for us to maintain them.

A Subversion tag was created at:

https://svn.hdfgroup.uiuc.edu/tags/vms_last_support_1_8

immediately before removing the files.

(DER - 2015-02-26, HDFFV-9147)

- Removal of --with-default-vfd configure Option

In theory, this option was intended to allow setting a default VFD that would be used by the library. In practice, the feature only accepted the POSIX (SEC2) VFD (already the default) and the stdio VFD (a demo VFD not intended for production use). The inability to pass key VFD parameters at configure time limits the full implementation of this feature, so it was retired.

(DER - 2015-02-26, HDFFV-9081)

- Direct VFD configure Behavior

The configure options for Linux now allow the Direct VFD to build without passing additional compiler options/defines like `_GNU_SOURCE`. Passing `--enable-direct-vfd` is now all that is needed to enable the feature.

The Direct VFD is now disabled by default since it is intended for specialized audiences. It was previously enabled by default, but the configure script did not set correct POSIX levels, etc. making this a moot point.

Note that the Direct VFD can only be configured on Linux when the `O_DIRECT` flag to `open()/create()` and `posix_memalign()` function are available. This is unchanged from previous behavior.

(DER - 2015-02-26, HDFFV-9057, 7567, 9088, 7566)

- `_POSIX_C_SOURCE`, `_GNU_SOURCE`, and `_BSD_SOURCE` No Longer Exported to h5cc and Other Compiler Wrappers

The `_POSIX_C_SOURCE`, `_GNU_SOURCE`, and `_BSD_SOURCE` definitions are not required for using API functions and may conflict with user code requirements.

(DER - 2015-03-08, HDFFV-9152)

- Removed the `--enable-filters` Option from configure

This option allowed the user to disable selected internal filters, presumably to make the library smaller. It has been removed since it saved little space (the internal filters are small with respect to the overall library size) and was not generally extendible to the library at large due to the large number of `#ifdefs` that would be required.

Note that this features applied to internal filters such as `shuffle` and `n-bit` and not external filters like `gzip` or `Szip`. Those are still enabled or disabled via their own configure options.

(DER - 2015-03-08, HDFS-9086)

- Removed Obsolete Time Functionality from configure and the C Library

The library contained some residual functionality from obsolete time zone handling code. This has been removed, and the configure checks for the time functions have been cleaned up.

- * Lumped all the time functionality together in `configure.ac`. This was previously more spread out due to Solaris issues with the ordering of certain checks.

- * Removed processing that handles `__tm_gmtoff` members of struct `tm`. (`libc-4`)

- * Removed `BSDgettimeofday()`. (`IRIX 5.3`)

- * Removed `timezone` struct handling in `gettimeofday()` (considered harmful).

Note that the HDF5 Library stores timestamps in a platform-independent manner, so old files can still be read. This only affects converting system time to HDF5 timestamps.

The library currently uses the `tm_gmtoff` member of the `tm` struct (preferred, if available) or the `timezone` global variable to construct HDF5 timestamps.

(DER - 2015-03-09, HDFS-9083 and 9085)

- Added `-D_DEFAULT_SOURCE` to `CPPFLAGS` on Linux Systems

This is the replacement for `-D_BSD_SOURCE` in versions of `glibc` since 2.19. Since both are defined, it should work for all versions of `glibc`. Defining both suppresses the warning about defining `_BSD_SOURCE`.

(NAF - 2015-04-02, HDFS-9079)

Library

- Added Memory Allocation Functions that Use the Library's Allocator

HDF5 filters may need to allocate or resize the buffer that is passed to them from the library. If the filter has been compiled separately from the library, it and the library may use different memory

allocation libraries for the (re)allocation and free calls. This can cause heap corruption and crashes. This is particularly a problem on Windows since each C run-time library is implemented as a separate shared library, but can also show up on POSIX systems when debug or high-performance allocation libraries are in use.

Two new functions (`H5allocate_memory()` and `H5resize_memory()`) were added to the HDF5 C library. These functions have the same semantics as `malloc/calloc` and `realloc`, respectively. Their primary purpose is to allow filter authors to allocate or resize memory using the same memory allocation library as the HDF5 library. Filter authors are highly encouraged to use these new functions in place of `malloc`, `calloc`, and `realloc`. They should also use the `H5free_memory()` call when freeing memory.

Note that the filters provided with the library (`zlib`, `szip`, etc.) do not experience the problems that these new functions are intended to fix. This work only applies to third-party filters that are compiled separately from the library.

(DER - 2015-04-01, H5FFV-9100)

- `H5Pset_istore_k` and `H5Pset_sym_k`

These two functions didn't check the value of the input parameter "ik". When `2*ik` exceeded 2 bytes of storage, data was lost in the file; for example, some chunks would be overwritten.

Added validation of "ik" to not exceed the max v1 btree entries (2 bytes) to these two routines.

(VC - 2015-03-24, H5FFV-9173)

- Added Functions to Control the Value of `H5PL_no_plugin_g` without Using an Environment Variable

Sometimes it is necessary for an application to disable the use of dynamically loaded plugin libraries without requiring the library to be built with plugin support disabled or to set an environment variable to disable plugin support globally.

Two new functions (`H5PLset_loading_state()` and `H5PLget_loading_state()`) were added to the HDF5 C Library. These functions require a parameter that indicates which type of dynamically loaded plugin is enabled or disabled.

(ADB - 2015-03-17, H5FFV-8520)

Parallel Library

- `MPI_Finalize` and HDF5 Library Shutdown

Calling HDF5 routines after `MPI_Finalize` has been closed should not be done, since those routines might call MPI functions that would not be possible to do after finalizing the MPI library.

Attached an attribute destroy callback to `MPI_COMM_SELF` that shuts down the HDF5 library when `MPI_COMM_SELF` is destroyed, in other words, on `MPI_Finalize`. This should fix several issues

that users see when they forget to close HDF5 objects before calling `MPI_Finalize()`.

(MSC - 2015/02/25, HDFS-883)

Tools

- None

High-Level APIs

- None

Fortran API

- Added Global Variables

These new global variables are equivalent to the C definitions without the '_F':

```
H5G_UDLINK_F
H5G_SAME_LOC_F
H5O_TYPE_UNKNOWN_F
H5O_TYPE_GROUP_F
H5O_TYPE_DATASET_F
H5O_NAMED_DATATYPE_F
H5O_TYPE_NTYPES_F
```

(MSB - 2015/02/03, HDFS-9040)

C++ API

- New Wrappers for C Functions `H5P[s/g]et_libver_bounds`

Wrappers were added to class `H5::FileAccPropList` for the C Functions `H5Pget_libver_bounds` and `H5Pset_libver_bounds`.

(BMR, 2015/04/06, Part of HDFS-9167)

- New Wrappers to Get the Object Header's Version

The following wrappers are added to class `H5::CommonFG`
Returns the object header version of an object in a file or group, given the object's name.

```
unsigned childObjVersion(const char* objname) const;
unsigned childObjVersion(const H5std_string& objname) const;
```

(BMR, 2015/04/06)

- New DataType Constructor

Added a `DataType` constructor that takes a `PredType` object, and this constructor will invoke `H5Tcopy` to generate another datatype id from a predefined datatype.

(BMR, 2015/04/06)

Support for New Platforms, Languages, and Compilers

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- Support for Linux 3.10.0-123.20.1.el7 added (LK - 2015/04/01)
- Support for Mac OS X Yosemite 10.10 added (AKC - 2015/03/04, HDFV-9007)
- Support for AIX 6.1 added and AIX 5.3 is retired. (AKC - 2015/01/09)

Bug Fixes since HDF5-1.8.14

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Configuration

- Make uninstall generated "test: argument expected".
The error is due to \$EXAMPLETOPDIR is used without setting a value first.

Fixed by assign it with the proper value.

(AKC - 2015/04/29, HDFV-9298)

- Windows Installer Incorrect Display of PATH Environment Variable

In the Windows installer, the dialog box where the user can elect to add the product's bin path to the %PATH% environment variable displayed an incorrect path. This path was missing the C:\Program Files part and used the POSIX file separator '/' before the bin (<path>/bin, instead of <path>\bin).

The dialog box text was changed to simply say that the product's bin path would be added instead of explicitly displaying the path. This is in line with most installers. The reason for not fixing the displayed path instead is that it is difficult to pass the correct path from CPack to the NSIS installer for display.

Note that this was never a code issue - it was just a display problem. The installer always did the right thing when updating the environment variable.

(DER - 2014/11/14, HDFV-9016)

Library

- Incorrect Usage of List in CMake COMPILE_DEFINITIONS set_property

The CMake command set_property with COMPILE_DEFINITIONS property needs a quoted semi-colon separated list of values. CMake will transform the list to a series of -D{value} for the compile.

(ADB - 2014/12/09, HDFV-9041)

- Fixed Compile Errors on Windows w/ Visual Studio and CMake When UNICODE is Defined

The HDF5 Library could not be built on Windows with Visual Studio when UNICODE was defined. This was due to the incorrect use of the TEXT() macro and some Win32 API functions that take TCHAR parameters. The faulty code was a part of the filter plugin functionality. This was a compile-time error that only affected users who build HDF5 from source and define UNICODE, usually when HDF5 is being built as a part of a larger product. There were no run-time effects.

These errors caused no problems when UNICODE was not defined. HDF5 is normally not built with UNICODE defined and the binaries were unaffected.

The fix was to remove the TEXT() macro and explicitly use the 'A' form of the Win32 API calls, which expect char strings instead of wchar_t strings.

Note that HDF5 currently does not support Unicode file paths on Windows.

(DER - 2015/02/22, HDEFFV-8927)

- Addition of Error Tracing Functionality to Several C API Calls

A bug in a text processing script caused API calls that return a pointer to not receive error tracing macros/functionality.

The bug has been corrected and error tracing functionality has been added to the affected API calls. These functions will now correctly print trace information when library errors are encountered.

(DER - 2015/02/26, HDEFFV-9141)

- H5Rdereference Now Checks for HADDR_UNDEF or Uninitialized References

When passed HADDR_UNDEF or uninitialized references, the previous behavior of H5Rdereference was to continue to process the reference as a valid address.

H5Rdereference was changed to return immediately (with an error message) if the references are HADDR_UNDEF or uninitialized.

(MSB - 2015/3/10, HDEFFV-7959)

- Fixed Bugs in H5Sextent_copy

H5Sextent_copy would not free the previous extent, resulting in a memory leak. Also, H5Sextent_copy would not update the number of elements selected if the selection was "all", causing various problems. These issues have been fixed.

(NAF - 2015/04/02)

Parallel Library

- Fixed a Potential Memory Error

Fixed a potential memory error when performing parallel I/O on a dataset with a single chunk, and at least one process has nothing to do.

(NAF - 2015/02/16)

- Parallel Test Problem Fixed

Fixed problem with parallel tests where they failed beyond a certain number of ranks. All tests should work for any arbitrary

number of ranks.

(MSC - 2014/11/06, HДФFV-1027,8962,8963)

- MPE Support

Enabling MPE was causing HDF5 build to fail. Support for it was dropped at some point in time.

Fixed problem with enabling MPE. Users should use the community maintained MPE on github (<http://git.mpich.org/mpe.git/>).

(MSC - 2015/02/20, HДФFV-9135)

Performance

- None

Tools

- h5repack crashed on enumerated 8-bit type.

Previous version 1.8.14 introduced an error that caused the reading of enumerated 8-bit type nested in compound type to fail.

Fixed library code responsible for reading the particular type.

(AKC - 2015.03/31, HДФFV-8667)

- h52gif crashed non-8bit images.

h52gif crashed if instructed to convert images other than 8bit images.

h52gif could handle only 8bit images. Added code to detect non-8bit images and flag them as failure. Update tool document page to reflect the limit.

(AKC - 2015/03/31, HДФFV-8957)

- perform/benchpar.c retired.

benchpar.c has not been built for a long time and its original purpose is not needed any more.

(AKC - 2014/12/19, HДФFV-8156)

- Source perform/ directory moved to tools/perform.

The perform directory is moved to tools/perform for easier maintenance.

(AKC - 2014/12/17, HДФFV-9046)

Fortran API

- Fortran Fails with --enable-fortran2003 and Intel 15.x Compilers

Added BIND(C) to the offending APIs.

The Fortran Library (--enable-fortran2003) now works using Intel 15.x without the need for any additional compilers flags.

(MSB - 2015/1/26, HДФFV-9049)

- h5tenum_insert_f Does Not Work with Default 8 Byte Integers

(xlf compiler)

In the Fortran 90 API, 'value' is no longer cast into the C int type. Therefore, if h5tenum_insert_f is passed an 8 byte integer (via -i8) then 'value' is written as the same type as the default Fortran integer type (which can be 8 bytes).

A new Fortran 2003 API was added which is more in line with the C API and users are strongly encouraged to use the Fortran 2003 API instead of the Fortran 90 API.

```
SUBROUTINE h5tenum_insert_f(type_id, name, value, hdferr)
  INTEGER(HID_T)  , INTENT(IN)  :: type_id
  CHARACTER(LEN=*) , INTENT(IN) :: name
  TYPE(C_PTR)     , INTENT(IN)  :: value
  INTEGER, INTENT(OUT) :: hdferr
```

(MSB - 2015/2/19, HDFS-8908)

- Some Fortran APIs Never Returned the Error State

Some Fortran APIs never returned the error state: they would always return a positive number. The APIs include the following:

```
h5fget_file_image_f
h5lget_name_by_idx_f
h5oget_comment_by_name_f
```

They were corrected to return a negative number as described in the Reference Manual if an error occurred.

(MSB - 2015/3/19, HDF5-239)

- Fixed h5pget_class_f

h5pget_class_f never correlated the class identifier to the property list class name as indicated in the HDF5 Reference Manual; it instead returned a property list class identifier as an INTEGER. The INTEGER needed to be of type INTEGER(HID_T) to be correct.

The h5pget_class_f API was changed to return an INTEGER(HID_T) property list class identifier instead of an INTEGER. This mimics the intended behavior of the C API.

(MSB - 2015/3/16, HDFS-9162)

C++ API

- Combined Two H5File::getObjCount Overloaded Methods

The following two methods

```
ssize_t getObjCount(unsigned types) const;
ssize_t getObjCount() const;
```

were combined into one:

```
ssize_t getObjCount(unsigned types = H5F_OBJ_ALL) const;
```

(BMR - 2015/04/06)

- Many Warnings Were Removed

Many warnings such as conversion, unused variables, missing base class initialization, and initializing base classes in wrong order were removed.

(BMR, 2015/04/06)

- Functionality Deprecation

The following two constructors of classes AbstractDs, IdComponent, H5Location, and H5Object are no longer appropriate after the data member "id" had been moved from IdComponent to the sub-classes in previous releases.

```
<Classname>(const hid_t h5_id);  
<Classname>(const <Classname>& original);
```

The copy constructors were no-op and removed in 1.8.15. The other constructors will be removed from 1.10 release, and then from 1.8.17 if their removal does not cause any problems.

(BMR, 2015-04-06)

High-Level APIs:

- Suppress Warnings from Flex/Bison-generated Code

Warning suppression #pragmas, etc. have been added to H5LTparse.c and H5LTanalyze.c. We have no control over this code since it's created by a generator.

(DER - 2015/03/08 - H5FFV-9149)

- Changed hdf5_hl.h to Include the HDF5 Main Library "hdf5.h"

User's no longer need to include both hdf5_hl.h and hdf5.h

(MSB - 2015/2/14, H5FFV-8685)

- H5PTcreate_fl Does Not Convert to Memory Datatype

H5PTcreate_fl now converts to the table's native memory datatype to fix the problem of handling BE and LE packet tables.

(MSB - 2015/2/26 - H5FFV-9042)

- Fix for H5LT Attribute Functions

H5LT attribute functions fail to create attributes whose name is a substring of an existing attribute.

H5LT attribute functions can now create attributes whose name is a substring of an existing attribute.

(MSB - 2015/2/24, HДФFV-9132)

Fortran High-Level APIs:

- Internal Library Fix for Missing Argument Declaration

In Interface block for h5tbmake_table_c, "max_char_size_field_names" is listed as an input, but in the argument definitions it is "INTEGER :: max_char_size". This caused no known problems with the Fortran HL API.

Fixed missing argument definition.

(MSB - 2015/2/18, HДФFV-8559)

Testing

- None

Supported Platforms

=====

The following platforms are supported and have been tested for this release. They are built with the configure process unless specified otherwise.

AIX 6.1 (NASA G-ADA)	xlc/xlc_r 10.1.0.5 xlC/xlC_r 10.1.0.5 xlf90/xlf90_r 12.1.0.6
Linux 2.6.18-308.13.1.el5PAE #1 SMP i686 i686 i386 (jam)	GNU C (gcc), Fortran (gfortran), C++ (g++) compilers for 32-bit applications; Version 4.1.2 20080704 (Red Hat 4.1.2-55) Version 4.8.4, 4.9.2 PGI C, Fortran, C++ Compilers for 32-bit applications; Version 14.10-0 Intel(R) C, C++, Fortran Compiler for 32-bit applications; Version 15.0.1.133 (Build 20141023)
Linux 2.6.18-371.6.1.el5 #1 SMP x86_64 GNU/Linux (koala)	GNU C (gcc), Fortran (gfortran), C++ (g++) compilers for 64-bit applications; Version 4.1.2 20080704 (Red Hat 4.1.2-55) Version 4.8.4, 4.9.2 Intel(R) C, C++, Fortran Compilers for applications running on Intel(R) 64; Version 15.0.1.133 Build 20141023
Linux 2.6.32-431.11.2.el6 #1 SMP x86_64 GNU/Linux (platypus)	GNU C (gcc), Fortran (gfortran), C++ (g++) compilers: Version 4.4.7 20120313 Version 4.8.2, Version 4.9.2 PGI C, Fortran, C++ for 64-bit target on x86-64; Version 14.10-0

	Intel(R) C (icc), C++ (icpc), Fortran (icc) compilers: Version 15.0.1.133 Build 20141023
Linux 3.10.0-123.20.1.el7 #1 SMP x86_64 GNU/Linux (moohan)	GNU C (gcc), Fortran (gfortran), C++ (g++) compilers: Version 4.8.2 20140120 (Red Hat 4.8.2-16) Intel(R) C Intel(R) 64 Compiler XE for applications running on Intel(R) 64, Version 15.0.1.133 Build 20141023
Linux 2.6.32-431.29.2.el6.ppc64 #1 SMP ppc64 GNU/Linux (ostrich)	gcc (GCC) 4.4.7 20120313 (Red Hat 4.4.7-4) g++ (GCC) 4.4.7 20120313 (Red Hat 4.4.7-4) GNU Fortran (GCC) 4.4.7 20120313 (Red Hat 4.4.7-4) IBM XL C/C++ V13.1 IBM XL Fortran V15.1
SunOS 5.11 32- and 64-bit (emu)	Sun C 5.12 SunOS_sparc Sun Fortran 95 8.6 SunOS_sparc Sun C++ 5.12 SunOS_sparc
Windows 7	Visual Studio 2008 (cmake) Visual Studio 2010 w/ Intel Fortran 14 (cmake) Visual Studio 2012 w/ Intel Fortran 15 (cmake) Visual Studio 2013 w/ Intel Fortran 15 (cmake) Cygwin(CYGWIN_NT-6.1 1.7.34(0.285/5/3) gcc(4.9.2)
compiler and gfortran)	(cmake and autotools)
Windows 7 x64	Visual Studio 2008 (cmake) Visual Studio 2010 w/ Intel Fortran 14 (cmake) Visual Studio 2012 w/ Intel Fortran 15 (cmake) Visual Studio 2013 w/ Intel Fortran 15 (cmake)
Windows 8.1	Visual Studio 2012 w/ Intel Fortran 15 (cmake) Visual Studio 2013 w/ Intel Fortran 15 (cmake)
Windows 8.1 x64	Visual Studio 2012 w/ Intel Fortran 15 (cmake) Visual Studio 2013 w/ Intel Fortran 15 (cmake)
Mac OS X Mt. Lion 10.8.5 64-bit (swallow/kite)	Apple clang/clang++ version 5.1 from Xcode 5.1 gfortran GNU Fortran (GCC) 4.8.2 Intel icc/icpc/ifort version 14.0.2
Mac OS X Mavericks 10.9.5 64-bit (wren/quail)	Apple clang/clang++ version 6.0 from Xcode 6.1.1 gfortran GNU Fortran (GCC) 4.8.2 Intel icc/icpc/ifort version 14.0.2
Mac OS X Yosemite 10.10.2 64-bit (osx1010dev/osx1010test)	Apple clang/clang++ version 6.0 from Xcode 6.1.1 gfortran GNU Fortran (GCC) 4.9.2 Intel icc/icpc/ifort version 15.0.1

Tested Configuration Features Summary

=====

In the tables below

y = tested

n = not tested in this release

C = Cluster
 W = Workstation
 x = not working in this release
 dna = does not apply
 () = footnote appears below second table
 <blank> = testing incomplete on this feature or platform

Platform	C	F90/ parallel	F90 F2003 parallel	C++	zlib	SZIP
SunOS 5.11 32-bit	n	y/y	n	y	y	y
SunOS 5.11 64-bit	n	y/y	n	y	y	y
Windows 7	y	y/y	n	y	y	y
Windows 7 x64	y	y/y	n	y	y	y
Windows 7 Cygwin	n	y/y	n	y	y	n
Windows 8.1	n	y/y	n	y	y	y
Windows 8.1 x64	n	y/y	n	y	y	y
Mac OS X Mountain Lion 10.8.5 64-bit	n	y/y	n	y	y	y
Mac OS X Mavericks 10.9.5 64-bit	n	y/y	n	y	y	y
Mac OS X Yosemite 10.10.2 64-bit	n	y/y	n	y	y	y
AIX 6.1 32- and 64-bit	n	y/n	n	y	y	y
CentOS 5.9 Linux 2.6.18-308 i686 GNU	y	y/y	y	y	y	y
CentOS 5.9 Linux 2.6.18-308 i686 Intel	n	y/y	n	y	y	y
CentOS 5.9 Linux 2.6.18-308 i686 PGI	n	y/y	n	y	y	y
CentOS 5.9 Linux 2.6.18 x86_64 GNU	n	y/y	n	y	y	y
CentOS 5.9 Linux 2.6.18 x86_64 Intel	n	y/y	n	y	y	y
CentOS 6.4 Linux 2.6.32 x86_64 GNU	y	y/y	y	y	y	y
CentOS 6.4 Linux 2.6.32 x86_64 Intel	n	y/y	n	y	y	y
CentOS 6.4 Linux 2.6.32 x86_64 PGI	n	y/y	n	y	y	y
CentOS 7.0 Linux 3.10.0 x86_64 GNU	y	y/y	y	y	y	y
CentOS 7.0 Linux 3.10.0 x86_64 Intel	n	y/y	n	y	y	y
Linux 2.6.32-431.11.2.el6.ppc64	n	y/n	n	y	y	y

Platform	Shared C libs	Shared F90 libs	Shared C++ libs	Thread- safe
SunOS 5.11 32-bit	y	y	y	y
SunOS 5.11 64-bit	y	y	y	y
Windows 7	y	y	y	y
Windows 7 x64	y	y	y	y
Windows 7 Cygwin	n	n	n	y
Windows 8.1	y	y	y	y
Windows 8.1 x64	y	y	y	y
Mac OS X Mountain Lion 10.8.5 64-bit	y	n	y	y
Mac OS X Mavericks 10.9.5 64-bit	y	n	y	y
Mac OS X Yosemite 10.10.2 64-bit	y	n	y	y
AIX 6.1 32- and 64-bit	y	n	n	y
CentOS 5.9 Linux 2.6.18-308 i686 GNU	y	y	y	y
CentOS 5.9 Linux 2.6.18-308 i686 Intel	y	y	y	n
CentOS 5.9 Linux 2.6.18-308 i686 PGI	y	y	y	n
CentOS 5.9 Linux 2.6.18 x86_64 GNU	y	y	y	y
CentOS 5.9 Linux 2.6.18 x86_64 Intel	y	y	y	n
CentOS 6.4 Linux 2.6.32 x86_64 GNU	y	y	y	n
CentOS 6.4 Linux 2.6.32 x86_64 Intel	y	y	y	n
CentOS 6.4 Linux 2.6.32 x86_64 PGI	y	y	y	n
CentOS 7.0 Linux 3.10.0 x86_64 GNU	y	y	y	n
CentOS 7.0 Linux 3.10.0 x86_64 Intel	y	y	y	n
Linux 2.6.32-431.11.2.el6.ppc64	y	y	y	n

Compiler versions for each platform are listed in the preceding
 "Supported Platforms" table.

More Tested Platforms

=====

The following platforms are not supported but have been tested for this release.

Linux 2.6.18-308.13.1.el5PAE #1 SMP i686 i686 i386 (jam)	MPICH mpich 3.1.3 compiled with gcc 4.9.2 and gfortran 4.9.2 g95 (GCC 4.0.3 (g95 0.94!))
Linux 2.6.18-431.11.2.el6 #1 SMP x86_64 GNU/Linux (platypus)	MPICH mpich 3.1.3 compiled with gcc 4.9.2 and gfortran 4.9.2 g95 (GCC 4.0.3 (g95 0.94!))
FreeBSD 8.2-STABLE i386 (loyalty)	gcc 4.5.4 [FreeBSD] 20110526 gcc 4.6.1 20110527 g++ 4.6.1 20110527 gfortran 4.6.1 20110527
FreeBSD 8.2-STABLE amd64 (freedom)	gcc 4.5.4 [FreeBSD] 20110526 gcc 4.6.1 20110527 g++ 4.6.1 20110527 gfortran 4.6.1 20110527
Debian7.5.0 3.2.0-4-amd64 #1 SMP Debian 3.2.51-1 x86_64 GNU/Linux	gcc (Debian 4.7.2-5) 4.7.2 GNU Fortran (Debian 4.7.2-5) 4.7.2 (cmake and autotools)
Fedora20 3.15.3-200.fc20.x86_64 #1 SMP x86_64 x86_64 x86_64 GNU/Linux	gcc (GCC) 4.8.3 20140624 (Red Hat 4.8.3-1) GNU Fortran (GCC) 4.8.3 20140624 (Red Hat 4.8.3-1) (cmake and autotools)
SUSE 13.1 3.11.10-17-desktop #1 SMP PREEMPT x86_64 x86_64 x86_64 GNU/Linux	gcc (SUSE Linux) 4.8.1 GNU Fortran (SUSE Linux) 4.8.1 (cmake and autotools)
Ubuntu 14.04 3.13.0-35-generic #62-Ubuntu SMP x86_64 GNU/Linux	gcc (Ubuntu/Linaro 4.9.1-0ubuntu1) 4.9.1 GNU Fortran (Ubuntu/Linaro 4.9.1-0ubuntu1) 4.9.1 (cmake and autotools)
hopper.nersc.gov	PrgEnv-gnu/5.2.40 gcc (GCC) 4.9.2 20141030 (Cray Inc.) GNU Fortran (GCC) 4.9.2 20141030 (Cray Inc.) g++ (GCC) 4.9.2 20141030 (Cray Inc.)

Known Problems

=====

- * On Windows platforms in debug configurations, the VFD flush1 tests will fail with the split and multi VFD drivers. These tests will display a modal debug dialog which must be answered or wait for the test timeout to expire.
(ADB - 2014/06/23 - HDIFFV-8851)
- * CLANG compiler with the options `-fcatch-undefined-behavior` and `-ftrapv` catches some undefined behavior in the alignment algorithm of the macro `DETECT_I`

in H5detect.c (Issue 8147). Since the algorithm is trying to detect the alignment of integers, ideally the flag `-fcatch-undefined-behavior` shouldn't to be used for H5detect.c. In the future, we can separate flags for H5detect.c from the rest of the library. (SLU - 2013/10/16)

- * Make provided by Solaris fails in "make check". Solaris users should use `gmake` to build and install the HDF5 software. (AKC - 2013/10/08 - HDFS-8534)
- * The C++ and FORTRAN bindings are not currently working on FreeBSD with the native release 8.2 compilers (4.2.1), but are working with `gcc 4.6` from the ports (and probably `gcc` releases after that). (QAK - 2012/10/19)
- * The following `h5dump` test case fails in BG/P machines (and potentially other machines that use a command script to launch executables):

```
h5dump --no-compact-subset -d "AHFINDERDIRECT::ah_centroid_t[0] it=0 tl=0"
tno-subset.h5
```

This is due to the embedded spaces in the dataset name being interpreted by the command script launcher as meta-characters, thus passing three arguments to `h5dump`'s `-d` flag. The command passes if run by hand, just not via the test script. (AKC - 2012/05/03)

- * The `STDIO VFD` does not work on some architectures, possibly due to 32/64 bit or large file issues. The basic `STDIO VFD` test is known to fail on 64-bit SunOS 5.10 on SPARC when built with `-m64` and 32-bit OS X/Darwin 10.7.0. The `STDIO VFD` test has been disabled while we investigate and a fix should appear in a future release. (DER - 2011/10/14 - HDFS-8235)
- * `h5diff` can report inconsistent results when comparing datasets of enum type that contain invalid values. This is due to how enum types are handled in the library and will be addressed in a future release. (DER - 2011/10/14 - HDFS-7527)
- * The `links` test can fail under the `stdio VFD` due to some issues with external links. This will be investigated and fixed in a future release. (DER - 2011/10/14 - HDFS-7768)
- * After the shared library support was fixed for some bugs, it was discovered that `"make prefix=XXX install"` no longer works for shared libraries. It still works correctly for static libraries. Therefore, if you want to install the HDF5 shared libraries in a location such as `/usr/local/hdf5`, you need to specify the location via the `--prefix` option during configure time. E.g, `./configure --prefix=/usr/local/hdf5 ...` (AKC - 2011/05/07 - HDFS-7583)
- * The parallel test, `t_shapesome`, in `testpar/`, may run for a long time and may be terminated by the alarm signal. If that happens, one can increase the alarm seconds (default is 1200 seconds = 20 minutes) by setting the environment variable, `$HDF5_ALARM_SECONDS`, to a larger value such as 3600 (60 minutes). Note that the `t_shapesome` test may fail in some systems (see the "While working on the 1.8.6 release..." problem below). If it does, it will waste more time if `$HDF5_ALARM_SECONDS` is set to a larger value. (AKC - 2011/05/07)

- * Shared Fortran libraries are not quite working on AIX. While they are generated when `--enable-shared` is specified, the fortran and hl/fortran tests fail. the issue. HL and C++ shared libraries should now be working as intended, however.
(MAM - 2011/04/20)

- * While working on the 1.8.6 release of HDF5, a bug was discovered that can occur when reading from a dataset in parallel shortly after it has been written to collectively. The issue was exposed by a new test in the parallel HDF5 test suite, but had existed before that. We believe the problem lies with certain MPI implementations and/or file systems.

We have provided a pure MPI test program, as well as a standalone HDF5 program, that can be used to determine if this is an issue on your system. They should be run across multiple nodes with a varying number of processes. These programs can be found at:
http://www.hdfgroup.org/ftp/HDF5/examples/known_problems/
(NAF - 2011/01/19)

- * All the VFL drivers aren't backward compatible. In `H5FDpublic.h`, the structure `H5FD_class_t` changed in 1.8. There is new parameter added to `get_eoa` and `set_eoa` callback functions. A new callback function `get_type_map` was added in. The public function `H5FDrealloc` was taken out in 1.8. The problem only happens when users define their own driver for 1.6 and try to plug in 1.8 library. Because there's only one user complaining about it, we (Elena, Quincey, and I) decided to leave it as it is (see bug report #1279). Quincey will make a plan for 1.10.
(SLU - 2010/02/02)

- * The `--enable-static-exec` configure flag will only statically link libraries if the static version of that library is present. If only the shared version of a library exists (i.e., most system libraries on Solaris, AIX, and Mac, for example, only have shared versions), the flag should still result in a successful compilation, but note that the installed executables will not be fully static. Thus, the only guarantee on these systems is that the executable is statically linked with just the HDF5 library.
(MAM - 2009/11/04)

- * A dataset created or rewritten with a v1.6.3 library or after cannot be read with the v1.6.2 library or before when the Fletcher32 EDC filter is enabled. There was a bug in the calculation of the Fletcher32 checksum in the library before v1.6.3; the checksum value was not consistent between big-endian and little-endian systems. This bug was fixed in Release 1.6.3. However, after fixing the bug, the checksum value was no longer the same as before on little-endian system. Library releases after 1.6.4 can still read

datasets created or rewritten with an HDF5 library of v1.6.2 or before.
(SLU - 2005/06/30)

Compatibility

hdf5: 1.8.14 to 1.8.15 compatibility report

API compatibility report for the [hdf5](#) library between **1.8.14** and **1.8.15** version

Binary Compatibility	Source Compatibility	
Test Info		
Library Name	hdf5	
Version #1	1.8.14	
Version #2	1.8.15	
CPU Type	x86	
GCC Version	4.1.2	
Subject	Binary Compatibility	
Test Results		
Total Header Files	75	
Total Shared Libraries	6	
Total Symbols / Types	1776 / 537	
Verdict	Incompatible (3.7%)	
Problem Summary		
	Severity	Count
Added Symbols	-	15
Removed Symbols	High	9
Problems with Data Types	High	2
	Medium	0
	Low	0
	High	0

Problems with Symbols	Medium	0
	Low	2
Problems with Constants	Low	20
Other Changes in Symbols	-	5
Other Changes in Constants	-	5

Added Symbols (15)

H5Attribute.h, libhdf5_cpp.so.10.0.0

namespace H5

f_Attribute_setId (Attribute* *attr*, hid_t *new_id*)

H5CommonFG.h, libhdf5_cpp.so.10.0.0

namespace H5

CommonFG::childObjVersion (char const* *objname*) const

H5DataSet.h, libhdf5_cpp.so.10.0.0

namespace H5

f_DataSet_setId (DataSet* *dset*, hid_t *new_id*)

H5DataSpace.h, libhdf5_cpp.so.10.0.0

namespace H5

f_DataSpace_setId (DataSpace* *dspace*, hid_t *new_id*)

H5DataType.h, libhdf5_cpp.so.10.0.0

namespace H5

DataType::DataType [in-charge] (PredType const& *pred_type*)

DataType::DataType [not-in-charge] (PredType const& *pred_type*)

f_DataType_setId (DataType* *dtype*, hid_t *new_id*)

H5FaccProp.h, libhdf5_cpp.so.10.0.0

namespace H5

FileAccPropList::getLibverBounds (H5F_libver_t& *libver_low*, H5F_libver_t& *libver_high*) const

FileAccPropList::setLibverBounds (H5F_libver_t *libver_low*, H5F_libver_t *libver_high*) const

H5File.h, libhdf5_cpp.so.10.0.0

namespace H5

H5File::H5File [in-charge] (hid_t *existing_id*)

H5File::H5File [not-in-charge] (hid_t *existing_id*)

H5PLpublic.h, libhdf5.so.10.0.0

H5PLget_loading_state (unsigned int* *plugin_type*)

H5PLset_loading_state (unsigned int *plugin_type*)

H5public.h, libhdf5.so.10.0.0

H5allocate_memory (size_t *size*, hbool_t *clear*)

H5resize_memory (void* *mem*, size_t *size*)

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Removed Symbols (9)

H5AbstractDs.h, libhdf5_cpp.so.9.0.0

namespace H5

AbstractDs::AbstractDs [in-charge] (AbstractDs const& *original*)

AbstractDs::AbstractDs [not-in-charge] (AbstractDs const& *original*)

H5File.h, libhdf5_cpp.so.9.0.0

namespace H5

H5File::getObjCount () const

H5IdComponent.h, libhdf5_cpp.so.9.0.0

namespace H5

IdComponent::IdComponent [in-charge] (IdComponent const& *original*)

IdComponent::IdComponent [not-in-charge] (IdComponent const& *original*)

H5Location.h, libhdf5_cpp.so.9.0.0

namespace H5

H5Location::H5Location [in-charge] (H5Location const& *original*)

H5Location::H5Location [not-in-charge] (H5Location const& *original*)

H5Object.h, libhdf5_cpp.so.9.0.0

namespace H5

H5Object::H5Object [in-charge] (H5Object const& *original*)

H5Object::H5Object [not-in-charge] (H5Object const& *original*)

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Problems with Data Types, High Severity (2)

H5AbstractDs.h

namespace H5

[+] class **AbstractDs** (1)

H5CommonFG.h

namespace H5

[+] class **CommonFG** (1)

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Problems with Symbols, Low Severity (2)

H5AbstractDs.h, libhdf5_cpp.so.9.0.0

namespace H5

- [+] **AbstractDs::AbstractDs** [not-in-charge] (hid_t const *ds_id*) (1)
- [+] **AbstractDs::AbstractDs** [in-charge] (hid_t const *ds_id*) (1)

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Problems with Constants, Low Severity (20)

H5pubconf.h

- [+] **H5_FP_TO_ULLONG_ACCURATE**
- [+] **H5_FP_TO_ULLONG_RIGHT_MAXIMUM**
- [+] **H5_GETTIMEOFDAY_GIVES_TZ**
- [+] **H5_HAVE_FILTER_FLETCHER32**
- [+] **H5_HAVE_FILTER_NBIT**
- [+] **H5_HAVE_FILTER_SCALEOFFSET**
- [+] **H5_HAVE_FILTER_SHUFFLE**
- [+] **H5_HAVE_STRUCT_TIMEZONE**
- [+] **H5_HAVE_STRUCT_TM_TM_ZONE**
- [+] **H5_HAVE_TM_ZONE**
- [+] **H5_INTEGER_TO_LDOUBLE_ACCURATE**
- [+] **H5_LDOUBLE_TO_INTEGER_ACCURATE**
- [+] **H5_LDOUBLE_TO_INTEGER_WORKS**
- [+] **H5_LDOUBLE_TO_UINT_ACCURATE**
- [+] **H5_LLONG_TO_FP_CAST_WORKS**
- [+] **H5_ULLONG_TO_FP_CAST_WORKS**
- [+] **H5_ULLONG_TO_LDOUBLE_PRECISION**
- [+] **H5_ULONG_TO_FLOAT_ACCURATE**
- [+] **H5_ULONG_TO_FP_BOTTOM_BIT_ACCURATE**
- [+] **H5_VSNPRINTF_WORKS**

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Other Changes in Symbols (5)

H5ArrayType.h, libhdf5_cpp.so.9.0.0

namespace H5

- [+] **ArrayType::ArrayType** [in-charge] () (1)
- [+] **ArrayType::ArrayType** [not-in-charge] () (1)

H5File.h, libhdf5_cpp.so.9.0.0

namespace H5

- [+] **H5File::getObjCount** (unsigned int *types*) const (1)

H5VarLenType.h, libhdf5_cpp.so.9.0.0

namespace H5

- [+] **VarLenType::VarLenType** [in-charge] () (1)

[+] **VarLenType::VarLenType** [not-in-charge] () (1)

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Other Changes in Constants (5)

H5FDpublic.h

[+] **H5FD_FEAT_ALLOCATE_EARLY**

[+] **H5FD_FEAT_HAS_MPI**

H5PLpublic.h

[+] **H5PL_ALL_PLUGIN**

[+] **H5PL_FILTER_PLUGIN**

H5pubconf.h

[+] **H5_HAVE_TIMEZONE**

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Header Files (75)

H5AbstractDs.h

H5ACpublic.h

H5api_adpt.h

H5Apublic.h

H5ArrayType.h

H5AtomType.h

H5Attribute.h

H5Classes.h

H5CommonFG.h

H5CompType.h

H5Cpp.h

H5CppDoc.h

H5Cpublic.h

H5DataSet.h

H5DataSpace.h

H5DataType.h

H5DcreatProp.h

H5DOpublic.h

H5Dpublic.h

H5DSpublic.h

H5DxferProp.h

H5EnumType.h

H5Epubgen.h

H5Epublic.h

H5Exception.h

H5f90i.h

H5f90i_gen.h

H5FaccProp.h

H5FcreatProp.h
H5FDcore.h
H5FDdirect.h
H5FDfamily.h
H5FDlog.h
H5FDmpi.h
H5FDmpio.h
H5FDmulti.h
H5FDpublic.h
H5FDsec2.h
H5FDstdio.h
H5File.h
H5FloatType.h
H5Fpublic.h
H5Gpublic.h
H5Group.h
H5IdComponent.h
H5IMpublic.h
H5Include.h
H5IntType.h
H5Ipublic.h
H5Library.h
H5Location.h
H5Lpublic.h
H5LTpublic.h
H5MMpublic.h
H5Object.h
H5Opublic.h
H5overflow.h
H5PacketTable.h
H5PLextern.h
H5Ppublic.h
H5PredType.h
H5PropList.h
H5PTpublic.h
H5pubconf.h
H5public.h
H5Rpublic.h
H5Spublic.h
H5StrType.h
H5TBpublic.h
H5Tpublic.h
H5VarLenType.h
H5version.h
H5Zpublic.h
hdf5.h
hdf5_hl.h

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Shared Libraries (6)

libhdf5.so.9.0.0
libhdf5_cpp.so.9.0.0
libhdf5_fortran.so.9.0.0
libhdf5_hl.so.9.0.0
libhdf5_hl_cpp.so.9.0.0
libhdf5hl_fortran.so.9.0.0

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Test Info

Library Name	hdf5
Version #1	1.8.14
Version #2	1.8.15
CPU Type	x86
GCC Version	4.1.2
Subject	Source Compatibility

Test Results

Total Header Files	75
Total Shared Libraries	6
Total Symbols / Types	1811 / 540
Verdict	Incompatible (4.5%)

Problem Summary

	Severity	Count
Added Symbols	-	17
Removed Symbols	High	9
Problems with Data Types	High	2
	Medium	0
	Low	0
Problems with Symbols	High	0
	Medium	0

	Low	0
Problems with Constants	Low	26
Other Changes in Symbols	-	7
Other Changes in Constants	-	13

Added Symbols (17)

H5Attribute.h

namespace H5

Attribute::getSpace () const

f_Attribute_setId (Attribute* *attr*, hid_t *new_id*)

H5CommonFG.h

namespace H5

CommonFG::childObjVersion (char const* *objname*) const

CommonFG::childObjVersion (int const *H5std_string*) const

H5DataSet.h

namespace H5

f_DataSet_setId (DataSet* *dset*, hid_t *new_id*)

H5DataSpace.h

namespace H5

f_DataSpace_setId (DataSpace* *dspace*, hid_t *new_id*)

H5DataType.h

namespace H5

DataType::DataType [in-charge] (PredType const& *pred_type*)

DataType::DataType [not-in-charge] (PredType const& *pred_type*)

f_DataType_setId (DataType* *dtype*, hid_t *new_id*)

H5FaccProp.h

namespace H5

FileAccPropList::getLibverBounds (H5F_libver_t& *libver_low*, H5F_libver_t& *libver_high*) const

FileAccPropList::setLibverBounds (H5F_libver_t *libver_low*, H5F_libver_t *libver_high*) const

H5File.h

namespace H5

H5File::H5File [in-charge] (hid_t *existing_id*)

H5File::H5File [not-in-charge] (hid_t *existing_id*)

H5PLpublic.h

H5PLget_loading_state (unsigned int* *plugin_type*)

H5PLset_loading_state (unsigned int *plugin_type*)

H5public.h

H5allocate_memory (size_t *size*, hbool_t *clear*)

H5resize_memory (void* *mem*, size_t *size*)

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Removed Symbols (9)

H5AbstractDs.h

namespace **H5**

AbstractDs::AbstractDs [in-charge] (AbstractDs const& *original*)

AbstractDs::AbstractDs [not-in-charge] (AbstractDs const& *original*)

H5File.h

namespace **H5**

H5File::getObjCount () const

H5IdComponent.h

namespace **H5**

IdComponent::IdComponent [in-charge] (IdComponent const& *original*)

IdComponent::IdComponent [not-in-charge] (IdComponent const& *original*)

H5Location.h

namespace **H5**

H5Location::H5Location [in-charge] (H5Location const& *original*)

H5Location::H5Location [not-in-charge] (H5Location const& *original*)

H5Object.h

namespace **H5**

H5Object::H5Object [in-charge] (H5Object const& *original*)

H5Object::H5Object [not-in-charge] (H5Object const& *original*)

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Problems with Data Types, High Severity (2)

H5AbstractDs.h

namespace **H5**

[+] class **AbstractDs** (1)

H5CommonFG.h

namespace **H5**

[+] class **CommonFG** (1)

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Problems with Constants, Low Severity (26)

H5pubconf.h

- [+] **H5_DEFAULT_VFD**
- [+] **H5_FP_TO_ULLONG_ACCURATE**
- [+] **H5_FP_TO_ULLONG_RIGHT_MAXIMUM**
- [+] **H5_GETTIMEOFDAY_GIVES_TZ**
- [+] **H5_HAVE_FILTER_FLETCHER32**
- [+] **H5_HAVE_FILTER_NBIT**
- [+] **H5_HAVE_FILTER_SCALEOFFSET**
- [+] **H5_HAVE_FILTER_SHUFFLE**
- [+] **H5_HAVE_STRUCT_TIMEZONE**
- [+] **H5_HAVE_STRUCT_TM_TM_ZONE**
- [+] **H5_HAVE_TM_ZONE**
- [+] **H5_INTEGER_TO_LDOUBLE_ACCURATE**
- [+] **H5_LDOUBLE_TO_INTEGER_ACCURATE**
- [+] **H5_LDOUBLE_TO_INTEGER_WORKS**
- [+] **H5_LDOUBLE_TO_UINT_ACCURATE**
- [+] **H5_LLONG_TO_FP_CAST_WORKS**
- [+] **H5_PACKAGE_STRING**
- [+] **H5_PACKAGE_VERSION**
- [+] **H5_ULLONG_TO_FP_CAST_WORKS**
- [+] **H5_ULLONG_TO_LDOUBLE_PRECISION**
- [+] **H5_ULONG_TO_FLOAT_ACCURATE**
- [+] **H5_ULONG_TO_FP_BOTTOM_BIT_ACCURATE**
- [+] **H5_VERSION**
- [+] **H5_VSNPRINTF_WORKS**

H5public.h

- [+] **H5_VERS_INFO**
- [+] **H5_VERS_RELEASE**

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Other Changes in Symbols (7)

H5AbstractDs.h

namespace **H5**

- [+] **AbstractDs::AbstractDs** [not-in-charge] (hid_t const *ds_id*) (1)
- [+] **AbstractDs::AbstractDs** [in-charge] (hid_t const *ds_id*) (1)

H5ArrayType.h

namespace **H5**

- [+] **ArrayType::ArrayType** [in-charge] () (1)
- [+] **ArrayType::ArrayType** [not-in-charge] () (1)

H5File.h

namespace **H5**

- [+] **H5File::getObjCount** (unsigned int *types*) **const** (1)

H5VarLenType.h

namespace H5

- [+] **VarLenType::VarLenType** [in-charge] () (1)
- [+] **VarLenType::VarLenType** [not-in-charge] () (1)

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Other Changes in Constants (13)

H5api_adpt.h

- [+] **H5_DLLCPPVAR**
- [+] **H5_HLCPDLLVAR**
- [+] **H5_HLDLLVAR**
- [+] **HDF5_HL_F90CSTUBDLLVAR**

H5f90i_gen.h

- [+] **c_hsize_t_8**
- [+] **c_size_t_4**

H5FDpublic.h

- [+] **H5FD_FEAT_ALLOCATE_EARLY**
- [+] **H5FD_FEAT_HAS_MPI**

H5Include.h

- [+] **H5O_VERSION_1**
- [+] **H5O_VERSION_2**

H5PLpublic.h

- [+] **H5PL_ALL_PLUGIN**
- [+] **H5PL_FILTER_PLUGIN**

H5pubconf.h

- [+] **H5_HAVE_TIMEZONE**

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Header Files (75)

H5AbstractDs.h
H5ACpublic.h
H5api_adpt.h
H5Apublic.h
H5ArrayType.h
H5AtomType.h
H5Attribute.h
H5Classes.h
H5CommonFG.h
H5CompType.h
H5Cpp.h

H5CppDoc.h
H5Cpublic.h
H5DataSet.h
H5DataSpace.h
H5DataType.h
H5DcreatProp.h
H5DOPublic.h
H5Dpublic.h
H5DSpublic.h
H5DxferProp.h
H5EnumType.h
H5Epubgen.h
H5Epublic.h
H5Exception.h
H5f90i.h
H5f90i_gen.h
H5FaccProp.h
H5FcreatProp.h
H5FDcore.h
H5FDdirect.h
H5FDfamily.h
H5FDlog.h
H5FDmpi.h
H5FDmpio.h
H5FDmulti.h
H5FDpublic.h
H5FDsec2.h
H5FDstdio.h
H5File.h
H5FloatType.h
H5Fpublic.h
H5Gpublic.h
H5Group.h
H5IdComponent.h
H5IMpublic.h
H5Include.h
H5IntType.h
H5Ipublic.h
H5Library.h
H5Location.h
H5Lpublic.h
H5LTpublic.h
H5MMpublic.h
H5Object.h
H5Opublic.h
H5overflow.h
H5PacketTable.h
H5PLextern.h
H5Ppublic.h
H5PredType.h
H5PropList.h

H5PTpublic.h
H5pubconf.h
H5public.h
H5Rpublic.h
H5Spublic.h
H5StrType.h
H5TBpublic.h
H5Tpublic.h
H5VarLenType.h
H5version.h
H5Zpublic.h
hdf5.h
hdf5_hl.h

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Shared Libraries (6)

libhdf5.so.9.0.0
libhdf5_cpp.so.9.0.0
libhdf5_fortran.so.9.0.0
libhdf5_hl.so.9.0.0
libhdf5_hl_cpp.so.9.0.0
libhdf5hl_fortran.so.9.0.0

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