

API compatibility report for the **hdf5** library between **1.10.0-patch1** and **1.10.1** versions on **x86**

Binary	
Compatibility	Source
Compatibility	

Test Info

Library Name	hdf5
Version #1	1.10.0-patch1
Version #2	1.10.1
CPU Type	x86
GCC Version	4.1.2
Subject	Binary Compatibility

Test Results

Total Header Files	78
Total Shared Libraries	9
Total Symbols / Types	1749 / 559
Verdict	Incompatible (7.8%)

Problem Summary

	Severity	Count
Added Symbols	-	152
Removed Symbols	High	61
Problems with Data Types	High	8
	Medium	8
	Low	14
Problems with Symbols	High	18
	Medium	1
	Low	5

Problems with Constants	Low	19
Other Changes in Symbols	-	2
Other Changes in Constants	-	16

Added Symbols (152)

H5ArrayType.h, **libhdf5_cpp.so.101.0.0**

namespace H5

ArrayType::getArrayDims (hsize_t* *dims*) **const**

ArrayType::getArrayNDims () **const**

H5CompType.h, **libhdf5_cpp.so.101.0.0**

namespace H5

CompType::CompType [in-charge] (H5Location const& *loc*, char const* *name*)

CompType::CompType [not-in-charge] (H5Location const& *loc*, char const* *name*)

H5DataType.h, **libhdf5_cpp.so.101.0.0**

namespace H5

DataType::DataType [in-charge] (H5Location const& *loc*, char const* *name*)

DataType::DataType [in-charge] (H5Location const& *loc*, std::string const& *name*)

DataType::DataType [not-in-charge] (H5Location const& *loc*, char const* *name*)

DataType::DataType [not-in-charge] (H5Location const& *loc*, std::string const& *name*)

DataType::getCreatePlist () **const**

DataType::p_opentype (H5Location const& *loc*, char const* *dtype_name*) **const**

H5DcreatProp.h, **libhdf5_cpp.so.101.0.0**

namespace H5

DSetCreatPropList::allFiltersAvail () **const**

DSetCreatPropList::getAllocTime () **const**

DSetCreatPropList::getFillTime () **const**

DSetCreatPropList::isFillValueDefined () **const**

DSetCreatPropList::setAllocTime (H5D_alloc_time_t *alloc_time*) **const**

DSetCreatPropList::setFillTime (H5D_fill_time_t *fill_time*) **const**

DSetCreatPropList::setNbit () **const**

DSetCreatPropList::setVirtual (DataSpace const& *vspace*, char const* *src_fname*, char const* *src_dsname*, DataSpace const& *sspace*) **const**

DSetCreatPropList::setVirtual (DataSpace const& *vspace*, std::string const *src_fname*, std::string const *src_dsname*, DataSpace const& *sspace*) **const**

H5DxferProp.h, **libhdf5_cpp.so.101.0.0**

namespace H5

DSetMemXferPropList::getEDCCheck () **const**

DSetMemXferPropList::getHyperVectorSize () const
DSetMemXferPropList::getSmallDataBlockSize () const
DSetMemXferPropList::setEDCCheck (H5Z_EDC_t *check*) const
DSetMemXferPropList::setSmallDataBlockSize (hsize_t *size*) const

H5EnumType.h, libhdf5_cpp.so.101.0.0

namespace H5

EnumType::EnumType [in-charge] (H5Location const& *loc*, char const* *name*)
EnumType::EnumType [in-charge] (H5Location const& *loc*, std::string const& *name*)
EnumType::EnumType [not-in-charge] (H5Location const& *loc*, char const* *name*)
EnumType::EnumType [not-in-charge] (H5Location const& *loc*, std::string const& *name*)

H5Epubgen.h, libhdf5.so.101.0.0

H5E_CANTCLEAN_g [data]
H5E_CANTMARKCLEAN_g [data]
H5E_CANTMARKSERIALIZED_g [data]
H5E_CANTMARKUNSERIALIZED_g [data]
H5E_CANTUNSERIALIZE_g [data]
H5E_PAGEBUF_g [data]

H5Exception.h, libhdf5_cpp.so.101.0.0

namespace H5

ObjHeaderIException::ObjHeaderIException [in-charge] ()
ObjHeaderIException::ObjHeaderIException [in-charge] (std::string const& *func_name*, std::string const& *message*)
ObjHeaderIException::ObjHeaderIException [not-in-charge] ()
ObjHeaderIException::ObjHeaderIException [not-in-charge] (std::string const& *func_name*, std::string const& *message*)
ObjHeaderIException::~ObjHeaderIException [in-charge-deleting] ()
ObjHeaderIException::~ObjHeaderIException [in-charge] ()
ObjHeaderIException::~ObjHeaderIException [not-in-charge] ()

H5FaccProp.h, libhdf5_cpp.so.101.0.0

namespace H5

FileAccPropList::getFcloseDegree () const
FileAccPropList::setFcloseDegree (H5F_close_degree_t *degree*) const

H5FcreatProp.h, libhdf5_cpp.so.101.0.0

namespace H5

FileCreatPropList::getFileSpacePagesize () const
FileCreatPropList::getFileSpaceStrategy (H5F_fspace_strategy_t& *strategy*, hbool_t& *persist*, hsize_t& *threshold*) const
FileCreatPropList::setFileSpacePagesize (hsize_t *fsp_psize*) const
FileCreatPropList::setFileSpaceStrategy (H5F_fspace_strategy_t *strategy*, hbool_t *persist*, hsize_t *threshold*) const

H5File.h, libhdf5_cpp.so.101.0.0

namespace H5

H5File::getFileInfo (H5F_info2_t& *file_info*) **const**

H5FloatType.h, libhdf5_cpp.so.101.0.0

namespace H5

FloatType::FloatType [in-charge] (H5Location const& *loc*, char const* *name*)

FloatType::FloatType [in-charge] (H5Location const& *loc*, std::string const& *name*)

FloatType::FloatType [not-in-charge] (H5Location const& *loc*, char const* *name*)

FloatType::FloatType [not-in-charge] (H5Location const& *loc*, std::string const& *name*)

H5Fpublic.h, libhdf5.so.101.0.0

H5Fget_mdc_image_info (hid_t *file_id*, unsigned long* *image_addr*, hsize_t* *image_size*)

H5Fget_page_buffering_stats (hid_t *file_id*, unsigned int* *accesses*, unsigned int* *hits*, unsigned int* *misses*, unsigned int* *evictions*, unsigned int* *bypasses*)

H5Freset_page_buffering_stats (hid_t *file_id*)

H5Fset_latest_format (hid_t *file_id*, hbool_t *latest_format*)

H5Group.h, libhdf5_cpp.so.101.0.0

namespace H5

Group::getNumObjs () **const**

Group::getObjId (char const* *name*, PropList const& *plist*) **const**

Group::getObjId (std::string const& *name*, PropList const& *plist*) **const**

H5IdComponent.h, libhdf5_cpp.so.101.0.0

namespace H5

IdComponent::getNumMembers (H5I_type_t *type*) [static]

IdComponent::typeExists (H5I_type_t *type*) [static]

H5IntType.h, libhdf5_cpp.so.101.0.0

namespace H5

IntType::IntType [in-charge] (H5Location const& *loc*, char const* *name*)

IntType::IntType [in-charge] (H5Location const& *loc*, std::string const& *name*)

IntType::IntType [not-in-charge] (H5Location const& *loc*, char const* *name*)

IntType::IntType [not-in-charge] (H5Location const& *loc*, std::string const& *name*)

H5LaccProp.h, libhdf5_cpp.so.101.0.0

namespace H5

LinkAccPropList::DEFAULT [data]

LinkAccPropList::deleteConstants () [static]

LinkAccPropList::fromClass () **const**

LinkAccPropList::getNumLinks () **const**

LinkAccPropList::LinkAccPropList [in-charge] ()

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

```
LinkAccPropList::LinkAccPropList [not-in-charge] ( )
LinkAccPropList::LinkAccPropList [not-in-charge] ( LinkAccPropList const& original )
LinkAccPropList::~LinkAccPropList [in-charge-deleting] ( )
LinkAccPropList::~LinkAccPropList [in-charge] ( )
LinkAccPropList::~LinkAccPropList [not-in-charge] ( )
```

H5Location.h, libhdf5_cpp.so.101.0.0

namespace H5

```
H5Location::childObjType ( char const* objname ) const
H5Location::childObjType ( hsize_t index, H5_index_t index_type, enum
H5_iter_order_t order, char const* objname ) const
H5Location::childObjType ( std::string const& objname ) const
H5Location::childObjVersion ( char const* objname ) const
H5Location::childObjVersion ( std::string const& objname ) const
H5Location::createDataSet ( char const* name, DataType const& data_type,
DataSpace const& data_space, DSetCreatPropList const& create_plist ) const
H5Location::createDataSet ( std::string const& name, DataType const& data_type,
DataSpace const& data_space, DSetCreatPropList const& create_plist ) const
H5Location::exists ( char const* name, LinkAccPropList const& lapl ) const
H5Location::exists ( std::string const& name, LinkAccPropList const& lapl ) const
H5Location::getObjinfo ( char const* name, H5G_stat_t& statbuf ) const
H5Location::getObjinfo ( char const* name, hbool_t follow_link, H5G_stat_t& statbuf )
const
H5Location::getObjinfo ( std::string const& name, H5G_stat_t& statbuf ) const
H5Location::getObjinfo ( std::string const& name, hbool_t follow_link, H5G_stat_t&
statbuf ) const
H5Location::getObjnameByIdx ( hsize_t idx ) const
H5Location::getObjTypeByIdx ( hsize_t idx ) const
H5Location::getObjTypeByIdx ( hsize_t idx, char* type_name ) const
H5Location::getObjTypeByIdx ( hsize_t idx, std::string& type_name ) const
H5Location::link ( enum H5L_type_t link_type, char const* curr_name, char const*
new_name ) const
H5Location::link ( enum H5L_type_t link_type, std::string const& curr_name,
std::string const& new_name ) const
H5Location::mount ( char const* name, H5File const& child, PropList const& plist )
const
H5Location::mount ( std::string const& name, H5File const& child, PropList const&
plist ) const
H5Location::move ( char const* src, char const* dst ) const
H5Location::move ( std::string const& src, std::string const& dst ) const
H5Location::openDataSet ( char const* name ) const
H5Location::openDataSet ( std::string const& name ) const
H5Location::openGroup ( char const* name ) const
H5Location::openGroup ( std::string const& name ) const
```

H5Location::throwException (std::string const& *func_name*, std::string const& *msg*)
const
H5Location::unlink (char const* *name*) const
H5Location::unlink (std::string const& *name*) const
H5Location::unmount (char const* *name*) const
H5Location::unmount (std::string const& *name*) const

H5Object.h, libhdf5_cpp.so.101.0.0

namespace H5

H5Object::attrExists (char const* *name*) const
H5Object::attrExists (std::string const& *name*) const
H5Object::createAttribute (char const* *name*, DataType const& *type*, DataSpace const& *space*, PropList const& *create_plist*) const
H5Object::createAttribute (std::string const& *name*, DataType const& *type*, DataSpace const& *space*, PropList const& *create_plist*) const
H5Object::iterateAttrs (void(**user_op*)(H5Object&, std::string, void*), unsigned int* *idx*, void* *op_data*)
H5Object::objVersion () const
H5Object::openAttribute (char const* *name*) const
H5Object::openAttribute (std::string const& *name*) const
H5Object::openAttribute (unsigned int const *idx*) const
H5Object::removeAttr (char const* *name*) const
H5Object::removeAttr (std::string const& *name*) const
H5Object::renameAttr (char const* *oldname*, char const* *newname*) const
H5Object::renameAttr (std::string const& *oldname*, std::string const& *newname*)
const

H5PLextern.h, libdynlibvers.so

H5PLget_plugin_info ()
H5PLget_plugin_type ()

H5PLpublic.h, libhdf5.so.101.0.0

H5PLappend (char const* *plugin_path*)
H5PLget (unsigned int *index*, char* *pathname*, size_t *size*)
H5PLinsert (char const* *plugin_path*, unsigned int *index*)
H5PLprepend (char const* *plugin_path*)
H5PLremove (unsigned int *index*)
H5PLreplace (char const* *plugin_path*, unsigned int *index*)
H5PLsize (unsigned int* *listsize*)

H5Ppublic.h, libhdf5.so.101.0.0

H5Pget_evict_on_close (hid_t *fapl_id*, hbool_t* *evict_on_close*)
H5Pget_file_space_page_size (hid_t *plist_id*, hsize_t* *fsp_size*)
H5Pget_file_space_strategy (hid_t *plist_id*, H5F_fspace_strategy_t* *strategy*, hbool_t* *persist*, hsize_t* *threshold*)
H5Pget_mdc_image_config (hid_t *plist_id*, H5AC_cache_image_config_t* *config_ptr*)

H5Pget_page_buffer_size (hid_t *plist_id*, size_t* *buf_size*, unsigned int* *min_meta_per*, unsigned int* *min_raw_per*)
H5Pset_evict_on_close (hid_t *fapl_id*, hbool_t *evict_on_close*)
H5Pset_file_space_page_size (hid_t *plist_id*, hsize_t *fsp_size*)
H5Pset_file_space_strategy (hid_t *plist_id*, H5F_fspace_strategy_t *strategy*, hbool_t *persist*, hsize_t *threshold*)
H5Pset_mdc_image_config (hid_t *plist_id*, H5AC_cache_image_config_t* *config_ptr*)
H5Pset_page_buffer_size (hid_t *plist_id*, size_t *buf_size*, unsigned int *min_meta_per*, unsigned int *min_raw_per*)

H5PropList.h, libhdf5_cpp.so.101.0.0

namespace H5

PropList::setProperty (char const* *name*, std::string const& *strg*) const
PropList::setProperty (char const* *name*, void const* *value*) const
PropList::setProperty (std::string const& *name*, std::string const& *strg*) const
PropList::setProperty (std::string const& *name*, void const* *value*) const

H5StrType.h, libhdf5_cpp.so.101.0.0

namespace H5

StrType::StrType [in-charge] (H5Location const& *loc*, char const* *name*)
StrType::StrType [in-charge] (H5Location const& *loc*, std::string const& *name*)
StrType::StrType [not-in-charge] (H5Location const& *loc*, char const* *name*)
StrType::StrType [not-in-charge] (H5Location const& *loc*, std::string const& *name*)

H5VarLenType.h, libhdf5_cpp.so.101.0.0

namespace H5

VarLenType::VarLenType [in-charge] (H5Location const& *loc*, char const* *name*)
VarLenType::VarLenType [in-charge] (H5Location const& *loc*, std::string const& *name*)
VarLenType::VarLenType [not-in-charge] (H5Location const& *loc*, char const* *name*)
VarLenType::VarLenType [not-in-charge] (H5Location const& *loc*, std::string const& *name*)

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Removed Symbols (61)

H5ArrayType.h, libhdf5_cpp.so.100.0.0

namespace H5

ArrayType::getArrayDims (hsize_t* *dims*)
ArrayType::getArrayNDims ()
ArrayType::setArrayInfo ()

H5Attribute.h, libhdf5_cpp.so.100.0.0

namespace H5

Attribute::flush (H5F_scope_t *scope*) const

H5CommonFG.h, libhdf5_cpp.so.100.0.0

namespace H5

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

CommonFG::childObjType (hsize_t *index*, H5_index_t *index_type*, enum H5_iter_order_t *order*, char const* *objname*) const

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

CommonFG::createDataSet (char const* *name*, DataType const& *data_type*, DataSpace const& *data_space*, DSetCreatPropList const& *create_plist*) const

CommonFG::getNumObjs () const

CommonFG::getObjInfo (char const* *name*, H5G_stat_t& *statbuf*) const

CommonFG::getObjInfo (char const* *name*, hbool_t *follow_link*, H5G_stat_t& *statbuf*) const

CommonFG::getObjTypeByIdx (hsize_t *idx*) const

CommonFG::getObjTypeByIdx (hsize_t *idx*, char* *type_name*) const

CommonFG::link (enum H5L_type_t *link_type*, char const* *curr_name*, char const* *new_name*) const

CommonFG::mount (char const* *name*, H5File const& *child*, PropList const& *plist*) const

CommonFG::mount (char const* *name*, H5File& *child*, PropList& *plist*) const

CommonFG::move (char const* *src*, char const* *dst*) const

CommonFG::openDataSet (char const* *name*) const

CommonFG::openGroup (char const* *name*) const

CommonFG::unlink (char const* *name*) const

CommonFG::unmount (char const* *name*) const

H5DataSet.h, libhdf5_cpp.so.100.0.0

namespace H5

DataSet::fillMemBuf (void const* *fill*, DataType& *fill_type*, void* *buf*, DataType& *buf_type*, DataSpace& *space*)

DataSet::fillMemBuf (void* *buf*, DataType& *buf_type*, DataSpace& *space*)

DataSet::getVlenBufSize (DataType& *type*, DataSpace& *space*) const

H5DataSpace.h, libhdf5_cpp.so.100.0.0

namespace H5

DataSpace::extentCopy (DataSpace& *dest_space*) const

H5DataType.h, libhdf5_cpp.so.100.0.0

namespace H5

DataType::commit (H5Location& *loc*, char const* *name*)

DataType::commit (H5Location& *loc*, std::string const& *name*)

DataType::DataType [in-charge] (Attribute const& *attr*, void const* *ref*, enum H5R_type_t *ref_type*, PropList const& *plist*)

DataType::DataType [not-in-charge] (Attribute const& *attr*, void const* *ref*, enum H5R_type_t *ref_type*, PropList const& *plist*)

H5DcreatProp.h, libhdf5_cpp.so.100.0.0

namespace H5

DSetCreatPropList::allFiltersAvail ()

DSetCreatPropList::getAllocTime ()

DSetCreatPropList::getFillTime ()

DSetCreatPropList::isFillValueDefined ()

DSetCreatPropList::setAllocTime (H5D_alloc_time_t *alloc_time*)

DSetCreatPropList::setFillTime (H5D_fill_time_t *fill_time*)

H5DxferProp.h, libhdf5_cpp.so.100.0.0

namespace H5

DSetMemXferPropList::getEDCCheck ()

DSetMemXferPropList::getHyperVectorSize ()

DSetMemXferPropList::getSmallDataBlockSize ()

DSetMemXferPropList::setEDCCheck (H5Z_EDC_t *check*)

DSetMemXferPropList::setSmallDataBlockSize (hsize_t *size*)

H5FaccProp.h, libhdf5_cpp.so.100.0.0

namespace H5

FileAccPropList::getFcloseDegree ()

FileAccPropList::setFcloseDegree (H5F_close_degree_t *degree*)

FileAccPropList::setSplit (FileAccPropList& *meta_plist*, FileAccPropList& *raw_plist*, char const* *meta_ext*, char const* *raw_ext*) **const**

FileAccPropList::setSplit (FileAccPropList& *meta_plist*, FileAccPropList& *raw_plist*, std::string const& *meta_ext*, std::string const& *raw_ext*) **const**

H5File.h, libhdf5_cpp.so.100.0.0

namespace H5

H5File::getVFDHandle (FileAccPropList& *fapl*, void** *file_handle*) **const**

H5Group.h, libhdf5_cpp.so.100.0.0

namespace H5

Group::Group [in-charge] (Attribute const& *attr*, void const* *ref*, enum H5R_type_t *ref_type*, PropList const& *plist*)

Group::Group [not-in-charge] (Attribute const& *attr*, void const* *ref*, enum H5R_type_t *ref_type*, PropList const& *plist*)

H5Library.h, libhdf5_cpp.so.100.0.0

namespace H5

H5Library::need_cleanup [data]

H5Location.h, libhdf5_cpp.so.100.0.0

namespace H5

H5Location::attrExists (char const* *name*) **const**

H5Location::attrExists (std::string const& *name*) **const**

H5Location::createAttribute (char const* *name*, DataType const& *type*, DataSpace const& *space*, PropList const& *create_plist*) **const**
H5Location::createAttribute (std::string const& *name*, DataType const& *type*, DataSpace const& *space*, PropList const& *create_plist*) **const**
H5Location::dereference (Attribute const& *attr*, void const* *ref*, enum H5R_type_t *ref_type*, PropList const& *plist*)
H5Location::iterateAttrs (void(**user_op*)(H5Location&, std::string, void*), unsigned int* *idx*, void* *op_data*)
H5Location::openAttribute (char const* *name*) **const**
H5Location::openAttribute (std::string const& *name*) **const**
H5Location::openAttribute (unsigned int const *idx*) **const**
H5Location::removeAttr (char const* *name*) **const**
H5Location::removeAttr (std::string const& *name*) **const**
H5Location::renameAttr (char const* *oldname*, char const* *newname*) **const**
H5Location::renameAttr (std::string const& *oldname*, std::string const& *newname*) **const**

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Problems with Data Types, High Severity (8)

H5FDpublic.h

[+] struct **H5FD_t** (1)

	Change	Effect
1	Field swmr_read has been removed from the middle position of this structural type.	1) Previous accesses of applications to the field will be incorrect. 2) Layout of structure fields has been changed. Fields at higher positions of the structure definition may be accessed by applications.

H5File.h

namespace **H5**

[+] class **H5File** (3)

	Change	Effect
1	Base class Group has been added.	1) The layout of v-table in this class has been changed. 2) Size of the class has been changed from 16 bytes to 24 bytes. 3) The memory layout in this class has been changed.
2	Base class CommonFG has been removed.	1) The layout of v-table in this class has been changed. 2) Size of the class has been changed from 16 bytes to 24 bytes. 3) The memory layout in this class has been changed.
3	Size of this class has been increased from 16 bytes to 24 bytes.	1) An object of this class can be allocated with a size that will be hardcoded at the compile time. If a constructor will break the memory of neighboring objects on the heap.

2) The memory layout and size of subclass

Offset	Virtual Table (Old) - 17 entries	Virtual Table (New) - 17 entries
0	(int (*)(...))0	(int (*)(...))0
4	(int (*)(...))(& typeinfo)	(int (*)(...))(& typeinfo)
8	H5File::getIid	H5File::getIid
12	H5File::close	H5File::close
16	H5File::fromClass	H5File::fromClass
20	~H5File	~H5File
24	~H5File	~H5File
28	H5File::p_setIid	H5File::p_setIid
32	H5File::getLocId	H5File::throwException
36	H5File::throwException	H5File::getLocId
40	(int (*)(...))-0x000000004	(int (*)(...))-0x000000004
44	(int (*)(...))(& typeinfo)	(int (*)(...))(& typeinfo)
48	non-virtual thunk	non-virtual thunk
52	__cxa_pure_virtual	__cxa_pure_virtual
56	non-virtual thunk	non-virtual thunk
60	non-virtual thunk	non-virtual thunk
64	non-virtual thunk	non-virtual thunk

H5Location.h

namespace H5

[+] class H5Location (1)

	Change	Effect
1	Pure virtual method H5Location::p_setIid (hid_t const) has been removed from this class.	The layout of v-table has been changed. C any virtual method at higher position in this result in crash or incorrect behavior of appl

Offset	Virtual Table (Old) - 8 entries	Virtual Table (New) - 9 entries
0	(int (*)(...))0	(int (*)(...))0

4	(int (*)(...))(& typeinfo)	(int (*)(...))(& typeinfo)
8	__cxa_pure_virtual	__cxa_pure_virtual
12	__cxa_pure_virtual	__cxa_pure_virtual
16	IdComponent::fromClass	IdComponent::fromClass
20	~H5Location	~H5Location
24	~H5Location	~H5Location
28	__cxa_pure_virtual	__cxa_pure_virtual
32		H5Location::throwException

H5Object.h

namespace H5

[+] class H5Object (2)

	Change	Effect
1	Pure virtual method H5Object::getId () const has been added to this class.	1) Applications will not provide the implementation method and therefore cause a crash in the method. 2) The layout of v-table has been changed. higher position in this class or its subclasses. incorrect behavior of applications.
2	Pure virtual method H5Object::p_setId (hid_t const) has been added to this class.	1) Applications will not provide the implementation method and therefore cause a crash in the method. 2) The layout of v-table has been changed. higher position in this class or its subclasses. incorrect behavior of applications.

Offset	Virtual Table (Old) - 8 entries	Virtual Table (New) - 9 entries
0	(int (*)(...))0	(int (*)(...))0
4	(int (*)(...))(& typeinfo)	(int (*)(...))(& typeinfo)
8	__cxa_pure_virtual	__cxa_pure_virtual
12	__cxa_pure_virtual	__cxa_pure_virtual
16	IdComponent::fromClass	IdComponent::fromClass
20	~H5Object	~H5Object
24	~H5Object	~H5Object

28	__cxa_pure_virtual	__cxa_pure_virtual
32		H5Location::throwException

H5public.h

[+] typedef **haddr_t** (1)

	Change	Effect
1	Size of this type has been changed from 8 bytes to 4 bytes.	Layout of parameter's stack of several functions therefore parameters at higher positions in stack are not initialized by applications.

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Problems with Symbols, High Severity (18)

H5ArrayType.h, libhdf5_cpp.so.100.0.0

namespace H5

[+] **ArrayType::getArrayDims** (hsize_t* *dims*) (1)

	Change	Effect
1	Method became const .	The name of the appropriate symbol for this function has been changed from <code>_ZN2H59ArrayType12getArrayDimsEPKv12</code> to <code>_ZNK2H59ArrayType12getArrayDimsEPKv12</code> "reference" linker error in old client applications

[+] **ArrayType::getArrayNDims** () (1)

	Change	Effect
1	Method became const .	The name of the appropriate symbol for this function has been changed from <code>_ZN2H59ArrayType13getArrayNDimsEPKv13</code> to <code>_ZNK2H59ArrayType13getArrayNDimsEPKv13</code> "reference" linker error in old client applications

H5DataType.h, libhdf5_cpp.so.100.0.0

namespace H5

[+] **DataType::DataType** [in-charge] (Attribute const& *attr*, void const* *ref*, enum

H5R_type_t *ref_type*, PropList const& *plist*) (1)

	Change	Effect
1	Parameters list has been changed.	The name of the appropriate symbol for this function has been changed from <code>_ZN2H58DataTypeC1ERKNS_9AttributeEPKv10H5R_type_t10PropListEPKv10</code> to <code>_ZN2H58DataTypeC1ERKNS_10H5LocationEPKv10</code> "undefined reference" linker error in old client applications

[+] **DataType::DataType** [not-in-charge] (Attribute const& *attr*, void const* *ref*, enum

H5R_type_t *ref_type*, PropList const& *plist*) (1)

	Change	Effect
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1	Parameters list has been changed.	The name of the appropriate symbol for this function changed from <code>_ZN2H58DataTypeC2ERKNS_9AttributeEPKv10H5</code> to <code>_ZN2H58DataTypeC2ERKNS_10H5LocationEPKv10H5</code> . This may cause "undefined reference" linker error in old client applications.
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H5DcreatProp.h, **libhdf5_cpp.so.100.0.0**
namespace **H5**

[+] DSetCreatPropList::allFiltersAvail () (1)

	Change	Effect
1	Method became const .	The name of the appropriate symbol for this function has been changed from <code>_ZN2H517DSetCreatPropList15allFiltersAvail</code> to <code>_ZNK2H517DSetCreatPropList15allFiltersAvail</code> . This may cause "undefined reference" linker error in old client applications.

[+] DSetCreatPropList::getAllocTime () (1)

	Change	Effect
1	Method became const .	The name of the appropriate symbol for this function has been changed from <code>_ZN2H517DSetCreatPropList12getAllocTime</code> to <code>_ZNK2H517DSetCreatPropList12getAllocTime</code> . This may cause "undefined reference" linker error in old client applications.

[+] DSetCreatPropList::getFillTime () (1)

	Change	Effect
1	Method became const .	The name of the appropriate symbol for this function has been changed from <code>_ZN2H517DSetCreatPropList11getFillTime</code> to <code>_ZNK2H517DSetCreatPropList11getFillTime</code> . This may cause "undefined reference" linker error in old client applications.

[+] DSetCreatPropList::isFillValueDefined () (1)

	Change	Effect
1	Method became const .	The name of the appropriate symbol for this function has been changed from <code>_ZN2H517DSetCreatPropList18isFillValueDefined</code> to <code>_ZNK2H517DSetCreatPropList18isFillValueDefined</code> . This may cause "undefined reference" linker error in old client applications.

[+] DSetCreatPropList::setAllocTime (H5D_alloc_time_t *alloc_time*) (1)

	Change	Effect
1	Method became const .	The name of the appropriate symbol for this function has been changed from <code>_ZN2H517DSetCreatPropList12setAllocTime</code> to <code>_ZNK2H517DSetCreatPropList12setAllocTime</code> . This may cause "undefined reference" linker error in old client applications.

[+] DSetCreatPropList::setFillTime (H5D_fill_time_t *fill_time*) (1)

	Change		Effect
1	Method became const .		The name of the appropriate symbol for this method has been changed from <code>_ZN2H517DSetCreatPropList11setFillTime</code> to <code>_ZNK2H517DSetCreatPropList11setFillTime</code> . This may cause "undefined reference" linker error in applications.

H5DxferProp.h, **libhdf5_cpp.so.100.0.0**
namespace **H5**

[+] **DSetMemXferPropList::getEDCCheck () (1)**

	Change		Effect
1	Method became const .		The name of the appropriate symbol for this method has been changed from <code>_ZN2H519DSetMemXferPropList11getEDCCheck</code> to <code>_ZNK2H519DSetMemXferPropList11getEDCCheck</code> . This may cause "undefined reference" linker error in applications.

[+] **DSetMemXferPropList::getHyperVectorSize () (1)**

	Change		Effect
1	Method became const .		The name of the appropriate symbol for this method has been changed from <code>_ZN2H519DSetMemXferPropList18getHyperVectorSize</code> to <code>_ZNK2H519DSetMemXferPropList18getHyperVectorSize</code> . This may cause "undefined reference" linker error in applications.

[+] **DSetMemXferPropList::getSmallDataBlockSize () (1)**

	Change		Effect
1	Method became const .		The name of the appropriate symbol for this method has been changed from <code>_ZN2H519DSetMemXferPropList21getSmallDataBlockSize</code> to <code>_ZNK2H519DSetMemXferPropList21getSmallDataBlockSize</code> . This may cause "undefined reference" linker error in applications.

[+] **DSetMemXferPropList::setEDCCheck (H5Z_EDC_t *check*) (1)**

	Change		Effect
1	Method became const .		The name of the appropriate symbol for this method has been changed from <code>_ZN2H519DSetMemXferPropList11setEDCCheck</code> to <code>_ZNK2H519DSetMemXferPropList11setEDCCheck</code> . This may cause "undefined reference" linker error in applications.

[+] **DSetMemXferPropList::setSmallDataBlockSize (hsize_t *size*) (1)**

	Change		Effect
1	Method became const .		The name of the appropriate symbol for this method has been changed from <code>_ZN2H519DSetMemXferPropList11setSmallDataBlockSize</code> to <code>_ZNK2H519DSetMemXferPropList11setSmallDataBlockSize</code> . This may cause "undefined reference" linker error in applications.

`_ZN2H519DSetMemXferPropList21setS`
`_ZNK2H519DSetMemXferPropList21setS`
 may cause "undefined reference" linker error

H5FaccProp.h, **libhdf5_cpp.so.100.0.0**
 namespace **H5**

[+] **FileAccPropList::getFcloseDegree () (1)**

	Change	Effect
1	Method became const .	The name of the appropriate symbol for this function has been changed from <code>_ZN2H515FileAccPropList15getFcloseDegree</code> to <code>_ZNK2H515FileAccPropList15getFcloseDegree</code> . This may cause "undefined reference" linker error in old client applications.

[+] **FileAccPropList::setFcloseDegree (H5F_close_degree_t *degree*) (1)**

	Change	Effect
1	Method became const .	The name of the appropriate symbol for this function has been changed from <code>_ZN2H515FileAccPropList15setFcloseDegree</code> to <code>_ZNK2H515FileAccPropList15setFcloseDegree</code> . This may cause "undefined reference" linker error in old client applications.

H5FDpublic.h, **libhdf5.so.100.0.1**

[+] **H5FDflush (H5FD_t* *file*, hid_t *dxpl_id*, unsigned int *closing*) (1)**

	Change	Effect
1	Type of 3rd parameter closing has been changed from unsigned int (4 bytes) to hbool_t (1 byte).	Layout of parameter's stack has been changed. Applications at higher positions in the stack may be incorrect. This may cause "undefined reference" linker error in old client applications.

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Problems with Data Types, Medium Severity (8)

H5FDpublic.h

[+] **struct H5FD_class_t (1)**

	Change	Effect
1	Size of field maxaddr has been changed from 8 bytes to 4 bytes.	1) Size of the inclusive type has been changed. 2) Previous accesses of applications and libraries and fields at higher positions of the structure may be incorrect.

[+] **struct H5FD_t (2)**

	Change	Effect
1	Size of field base_addr has been changed from 8 bytes to 4 bytes.	Previous accesses of applications and libraries may be broken.

2	Size of field maxaddr has been changed from 8 bytes to 4 bytes.	Previous accesses of applications and libraries may be broken.
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H5Fpublic.h

[+] struct H5F_sect_info_t (1)

	Change	Effect
1	Size of field addr has been changed from 8 bytes to 4 bytes.	1) Size of the inclusive type has been changed. 2) Previous accesses of applications and libraries and fields at higher positions of the structure may be broken.

H5Location.h

namespace H5

[+] class H5Location (1)

	Change	Effect
1	Pure virtual method H5Location::throwException (std::string const&, std::string const&) const has been added to this class instead of H5Location::getId () const .	Applications will provide an older method to be expected newly added virtual method. This may cause incorrect behavior of applications.

Offset	Virtual Table (Old) - 8 entries	Virtual Table (New) - 9 entries
0	(int (*)(...))0	(int (*)(...))0
4	(int (*)(...))(& typeid)	(int (*)(...))(& typeid)
8	__cxa_pure_virtual	__cxa_pure_virtual
12	__cxa_pure_virtual	__cxa_pure_virtual
16	IdComponent::fromClass	IdComponent::fromClass
20	~H5Location	~H5Location
24	~H5Location	~H5Location
28	__cxa_pure_virtual	__cxa_pure_virtual
32		H5Location::throwException

H5Lpublic.h

[+] struct H5L_info_t (1)

	Change	Effect
1	Size of field u has been changed from 8 bytes to 4 bytes.	1) Size of the inclusive type has been changed. 2) Previous accesses of applications and libraries may be broken.

[+] union H5L_info_t::anon-union-H5Lpublic.h-80 (1)

	Change	Effect
1	Size of field address has been changed from 8 bytes to 4 bytes.	1) Size of the inclusive type has been changed. 2) Previous accesses of applications and libraries may be broken.

H5Opublic.h

[+] struct H5O_info_t (1)

	Change	Effect
1	Size of field addr has been changed from 8 bytes to 4 bytes.	1) Size of the inclusive type has been changed. 2) Previous accesses of applications and libraries and fields at higher positions of the structure may be broken.

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Problems with Symbols, Medium Severity (1)

H5Ppublic.h, libhdf5.so.100.0.1

[+] H5Pget_driver_info (hid_t plist_id) (1)

	Change	Effect
1	Type of return value became const (has been changed from void* to void const*).	The return value will be treated as non-constant. This may result in crash or incorrect behavior.

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Problems with Data Types, Low Severity (14)

H5ArrayType.h

namespace **H5**

[+] class ArrayType (3)

	Change	Effect
1	Size of this type has been changed from 12 bytes to 4 bytes.	The fields or parameters of such data type may be broken or accessed by old client applications.
2	Field dimensions has been removed from this type.	Size of the inclusive type has been changed.
3	Field rank has been removed from this type.	Size of the inclusive type has been changed.

H5FDpublic.h

[+] struct H5FD_class_t (2)

	Change	Effect
1	Size of this type has been changed from 156 bytes to 152 bytes.	The fields or parameters of such data type may be broken or accessed by old client applications.
2	Base type of field flush has been changed from	Replacement of field base type may indicate

	<code>herr_t*)(H5FD_t*,hid_t,unsigned int) to herr_t*)(H5FD_t*,hid_t,hbool_t).</code>	meaning of the field.	
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[+] struct **H5FD_t (3)**

	Change		Effect
1	Field access_flags has been added to this type.	1) This field will not be initialized by old client applications. 2) Size of the inclusive type has been changed. NOTE: this field should be accessed only by new client applications, otherwise it may result in crash or incorrect behavior.	
2	Field paged_aggr has been added to this type.	1) This field will not be initialized by old client applications. 2) Size of the inclusive type has been changed. NOTE: this field should be accessed only by new client applications, otherwise it may result in crash or incorrect behavior.	
3	Size of this type has been changed from 56 bytes to 52 bytes.	The fields or parameters of such data type or accessed by old client applications.	

H5Fpublic.h

[+] struct **H5F_sect_info_t (1)**

	Change		Effect
1	Size of this type has been changed from 16 bytes to 12 bytes.	The fields or parameters of such data type or accessed by old client applications.	

H5Lpublic.h

[+] struct **H5L_info_t (1)**

	Change		Effect
1	Size of this type has been changed from 28 bytes to 24 bytes.	The fields or parameters of such data type or accessed by old client applications.	

[+] union **H5L_info_t::anon-union-H5Lpublic.h-80 (1)**

	Change		Effect
1	Size of this type has been changed from 8 bytes to 4 bytes.	The fields or parameters of such data type or accessed by old client applications.	

H5Opublic.h

[+] struct **H5O_info_t (1)**

	Change		Effect
1	Size of this type has been changed from 140 bytes to 136 bytes.	The fields or parameters of such data type or accessed by old client applications.	

H5public.h

[+] typedef **haddr_t (2)**

	Change		Effect

1	Size of this type has been changed from 8 bytes to 4 bytes.	The fields or parameters of such data type or accessed by old client applications.
2	Base type has been changed from unsigned long long to unsigned long .	Replacement of the base data type may in semantic meaning.

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Problems with Symbols, Low Severity (5)

H5Object.h, **libhdf5_cpp.so.100.0.0**

namespace **H5**

[+] **H5Object::~H5Object** [not-in-charge] () (1)

	Change	Effect
1	This method became protected .	Old applications will continue using this method with different initialization of the environment and

[+] **H5Object::~H5Object** [in-charge] () (1)

	Change	Effect
1	This method became protected .	Old applications will continue using this method with different initialization of the environment and

[+] **H5Object::~H5Object** [in-charge-deleting] () (1)

	Change	Effect
1	This method became protected .	Old applications will continue using this method with different initialization of the environment and

H5Ppublic.h, **libhdf5.so.100.0.1**

[+] **H5Pget_driver_info** (hid_t *plist_id*) (1)

	Change	Effect
1	Type of return value has been changed from void* to void const* .	Replacement of return type may indicate a semantic meaning.

[+] **H5Pset** (hid_t *plist_id*, char const* *name*, void* *value*) (1)

	Change	Effect
1	Type of 3rd parameter value has been changed from void* to void const* .	Replacement of parameter data type may indicate a semantic meaning.

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Problems with Constants, Low Severity (19)

H5FDlog.h

[+] **H5FD_LOG_ALLOC**

	Change	Effect
1	The value of constant H5FD_LOG_ALLOC has been changed from 0x00010000 to 0x00040000 .	Applications will pass an old value of this c the new-version library functions, that expe in crash of incorrect behavior of application

[+] **H5FD_LOG_FILE_READ**

	Change	Effect
1	The value of constant H5FD_LOG_FILE_READ has been changed from 0x00000008 to 0x00000010 .	Applications will pass an old value of this c the new-version library functions, that expe in crash of incorrect behavior of application

[+] **H5FD_LOG_FILE_WRITE**

	Change	Effect
1	The value of constant H5FD_LOG_FILE_WRITE has been changed from 0x00000010 to 0x00000020 .	Applications will pass an old value of this c the new-version library functions, that expe in crash of incorrect behavior of application

[+] **H5FD_LOG_FLAVOR**

	Change	Effect
1	The value of constant H5FD_LOG_FLAVOR has been changed from 0x00000020 to 0x00000040 .	Applications will pass an old value of this c the new-version library functions, that expe in crash of incorrect behavior of application

[+] **H5FD_LOG_LOC_READ**

	Change	Effect
1	The value of constant H5FD_LOG_LOC_READ has been changed from 0x00000001 to 0x00000002 .	Applications will pass an old value of this c the new-version library functions, that expe in crash of incorrect behavior of application

[+] **H5FD_LOG_LOC_SEEK**

	Change	Effect
1	The value of constant H5FD_LOG_LOC_SEEK has been changed from 0x00000004 to 0x00000008 .	Applications will pass an old value of this c the new-version library functions, that expe in crash of incorrect behavior of application

[+] **H5FD_LOG_LOC_WRITE**

	Change	Effect
1	The value of constant H5FD_LOG_LOC_WRITE has been changed from 0x00000002 to 0x00000004 .	Applications will pass an old value of this c the new-version library functions, that expe in crash of incorrect behavior of application

[+] **H5FD_LOG_NUM_READ**

	Change	Effect
1	The value of constant H5FD_LOG_NUM_READ has been changed from 0x00000040 to 0x00000080 .	Applications will pass an old value of this c the new-version library functions, that expe

		in crash of incorrect behavior of application
[+] H5FD_LOG_NUM_SEEK		
	Change	Effect
1	The value of constant H5FD_LOG_NUM_SEEK has been changed from 0x00000100 to 0x00000200 .	Applications will pass an old value of this c the new-version library functions, that expe in crash of incorrect behavior of application
[+] H5FD_LOG_NUM_TRUNCATE		
	Change	Effect
1	The value of constant H5FD_LOG_NUM_TRUNCATE has been changed from 0x00000200 to 0x00000400 .	Applications will pass an old value of this c the new-version library functions, that expe in crash of incorrect behavior of application
[+] H5FD_LOG_NUM_WRITE		
	Change	Effect
1	The value of constant H5FD_LOG_NUM_WRITE has been changed from 0x00000080 to 0x00000100 .	Applications will pass an old value of this c the new-version library functions, that expe in crash of incorrect behavior of application
[+] H5FD_LOG_TIME_CLOSE		
	Change	Effect
1	The value of constant H5FD_LOG_TIME_CLOSE has been changed from 0x00008000 to 0x00020000 .	Applications will pass an old value of this c the new-version library functions, that expe in crash of incorrect behavior of application
[+] H5FD_LOG_TIME_OPEN		
	Change	Effect
1	The value of constant H5FD_LOG_TIME_OPEN has been changed from 0x00000400 to 0x00000800 .	Applications will pass an old value of this c the new-version library functions, that expe in crash of incorrect behavior of application
[+] H5FD_LOG_TIME_READ		
	Change	Effect
1	The value of constant H5FD_LOG_TIME_READ has been changed from 0x00001000 to 0x00002000 .	Applications will pass an old value of this c the new-version library functions, that expe in crash of incorrect behavior of application
[+] H5FD_LOG_TIME_SEEK		
	Change	Effect
1	The value of constant H5FD_LOG_TIME_SEEK has been changed from 0x00004000 to 0x00008000 .	Applications will pass an old value of this c the new-version library functions, that expe in crash of incorrect behavior of application
[+] H5FD_LOG_TIME_STAT		
	Change	Effect

1	The value of constant H5FD_LOG_TIME_STAT has been changed from 0x00000800 to 0x00001000 .	Applications will pass an old value of this c the new-version library functions, that expe in crash of incorrect behavior of application
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[+] **H5FD_LOG_TIME_WRITE**

	Change	Effect
1	The value of constant H5FD_LOG_TIME_WRITE has been changed from 0x00002000 to 0x00004000 .	Applications will pass an old value of this c the new-version library functions, that expe in crash of incorrect behavior of application

H5public.h

[+] **H5_VERS_SUBRELEASE**

	Change	Effect
1	The value of constant H5_VERS_SUBRELEASE has been changed from "patch1" to "" .	Applications will pass an old value of this c the new-version library functions, that expe in crash of incorrect behavior of application

[+] **HADDR_UNDEF**

	Change	Effect
1	The value of constant HADDR_UNDEF has been changed from ((haddr_t)(int64_t)(-1)) to ((haddr_t)(long)(-1)) .	Applications will pass an old value of this c the new-version library functions, that expe in crash of incorrect behavior of application

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Other Changes in Symbols (2)

H5Location.h, **libhdf5_cpp.so.100.0.0**

namespace **H5**

[+] **H5Location::H5Location** [in-charge] () (1)

	Change	Effect
1	This method became public .	No effect.

[+] **H5Location::H5Location** [not-in-charge] () (1)

	Change	Effect
1	This method became public .	No effect.

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Other Changes in Constants (16)

H5ACpublic.h

[+] **H5AC_CACHE_IMAGE_ENTRY_AGEOUT_MAX**

	Change	Effect
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1	The constant H5AC_CACHE_IMAGE_ENTRY_AGEOUT_MAX with value 100 has been added.	No effect.	
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[+] **H5AC_CACHE_IMAGE_ENTRY_AGEOUT_NONE**

	Change		Effect
1	The constant H5AC_CACHE_IMAGE_ENTRY_AGEOUT_NONE with value -1 has been added.	No effect.	

H5FDlog.h

[+] **H5FD_LOG_FREE**

	Change		Effect
1	The constant H5FD_LOG_FREE with value 0x00080000 has been added.	No effect.	

[+] **H5FD_LOG_META_IO**

	Change		Effect
1	The constant H5FD_LOG_META_IO with value (H5FD_LOG_TRUNCATE) has been added.	No effect.	

[+] **H5FD_LOG_TIME_TRUNCATE**

	Change		Effect
1	The constant H5FD_LOG_TIME_TRUNCATE with value 0x00010000 has been added.	No effect.	

[+] **H5FD_LOG_TRUNCATE**

	Change		Effect
1	The constant H5FD_LOG_TRUNCATE with value 0x00000001 has been added.	No effect.	

H5FDpublic.h

[+] **H5FD_FEAT_PAGED_AGGR**

	Change		Effect
1	The constant H5FD_FEAT_PAGED_AGGR with value 0x00004000 has been added.	No effect.	

[+] **H5FD_FEAT_USE_ALLOC_SIZE**

	Change		Effect
1	The constant H5FD_FEAT_USE_ALLOC_SIZE with value 0x00002000 has been added.	No effect.	

H5pubconf.h

[+] **H5_HAVE_LLROUND**

	Change		Effect
1	The constant H5_HAVE_LLROUND with value 1 has been added.	No effect.	

[+] **H5_HAVE_LLROUNDF**

	Change		Effect
1	The constant H5_HAVE_LLROUNDF with value 1 has been added.	No effect.	

[+] **H5_HAVE_LROUND**

	Change		Effect
1	The constant H5_HAVE_LROUND with value 1 has been added.	No effect.	

[+] **H5_HAVE_LROUNDF**

	Change		Effect
1	The constant H5_HAVE_LROUNDF with value 1 has been added.	No effect.	

[+] **H5_HAVE_ROUND**

	Change		Effect
1	The constant H5_HAVE_ROUND with value 1 has been added.	No effect.	

[+] **H5_HAVE_ROUNDf**

	Change		Effect
1	The constant H5_HAVE_ROUNDf with value 1 has been added.	No effect.	

[+] **H5_HAVE_STRTOLL**

	Change		Effect
1	The constant H5_HAVE_STRTOLL with value 1 has been added.	No effect.	

[+] **H5_HAVE_STRTOULL**

	Change		Effect
1	The constant H5_HAVE_STRTOULL with value 1 has been added.	No effect.	

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Header Files (78)

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
H5LDpublic.h
H5Library.h
H5Location.h
H5Lpublic.h
H5LTpublic.h
H5MMpublic.h
H5Object.h

H5OcreatProp.h
H5Opublic.h
H5overflow.h
H5PacketTable.h
H5PLextern.h
H5PLpublic.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 (9)

libhdf5.so.100.0.1
libhdf5_cpp.so.100.0.0
libhdf5_fortran.so.100.0.1
libhdf5_hl.so.100.0.0
libhdf5_hl_cpp.so.100.0.0
libhdf5_java.so.100.0.0
libhdf5hl_fortran.so.100.0.0
libsz.so.2.0.0
libz.so.1.2.5

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Test Info

Library Name	hdf5
Version #1	1.10.0-patch1
Version #2	1.10.1
CPU Type	x86

GCC Version	4.1.2
Subject	Source Compatibility

Test Results

Total Header Files	78
Total Shared Libraries	9
Total Symbols / Types	1930 / 571
Verdict	Incompatible (6.3%)

Problem Summary

	Severity	Count
Added Symbols	-	154
Removed Symbols	High	66
Problems with Data Types	High	5
	Medium	0
	Low	6
Problems with Symbols	High	0
	Medium	6
	Low	1
Problems with Constants	Low	26
Other Changes in Symbols	-	20
Other Changes in Constants	-	23

Added Symbols (154)

H5CompType.h

namespace H5

CompType::CompType [in-charge] (H5Location const& *loc*, char const* *name*)

CompType::CompType [in-charge] (H5Location const& *loc*, int const *H5std_string*)

CompType::CompType [not-in-charge] (H5Location const& *loc*, char const* *name*)

CompType::CompType [not-in-charge] (H5Location const& *loc*, int const *H5std_string*)

H5DataType.h

namespace H5

DataType::DataType [in-charge] (H5Location const& *loc*, char const* *name*)

DataType::DataType [in-charge] (H5Location const& *loc*, std::string const& *name*)

DataType::DataType [not-in-charge] (H5Location const& *loc*, char const* *name*)

DataType::DataType [not-in-charge] (H5Location const& *loc*, std::string const& *name*)

DataType::getCreatePlist () const

DataType::p_opentype (H5Location const& *loc*, char const* *dtype_name*) const

H5DcreatProp.h

namespace H5

DSetCreatPropList::setNbit () const

DSetCreatPropList::setVirtual (DataSpace const& *vspace*, char const* *src_fname*, char const* *src_dsname*, DataSpace const& *sspace*) const

DSetCreatPropList::setVirtual (DataSpace const& *vspace*, std::string const *src_fname*, std::string const *src_dsname*, DataSpace const& *sspace*) const

H5EnumType.h

namespace H5

EnumType::EnumType [in-charge] (H5Location const& *loc*, char const* *name*)

EnumType::EnumType [in-charge] (H5Location const& *loc*, std::string const& *name*)

EnumType::EnumType [not-in-charge] (H5Location const& *loc*, char const* *name*)

EnumType::EnumType [not-in-charge] (H5Location const& *loc*, std::string const& *name*)

H5Epubgen.h

H5E_CANTCLEAN_g [data]

H5E_CANTMARKCLEAN_g [data]

H5E_CANTMARKSERIALIZED_g [data]

H5E_CANTMARKUNSERIALIZED_g [data]

H5E_CANTUNSERIALIZE_g [data]

H5E_PAGEBUF_g [data]

H5Exception.h

namespace H5

ObjHeaderIException::ObjHeaderIException [in-charge] ()

ObjHeaderIException::ObjHeaderIException [in-charge] (std::string const& *func_name*, std::string const& *message*)

ObjHeaderIException::ObjHeaderIException [not-in-charge] ()

ObjHeaderIException::ObjHeaderIException [not-in-charge] (std::string const& *func_name*, std::string const& *message*)

ObjHeaderIException::~~ObjHeaderIException [in-charge-deleting] ()

ObjHeaderIException::~~ObjHeaderIException [in-charge] ()

ObjHeaderIException::~~ObjHeaderIException [not-in-charge] ()

H5FaccProp.h

namespace H5

FileAccPropList::getFileAccDirect (size_t& *boundary*, size_t& *block_size*, size_t& *cbuf_size*) const

FileAccPropList::setFileAccDirect (size_t *boundary*, size_t *block_size*, size_t *cbuf_size*) const

H5FcreatProp.h

namespace H5

FileCreatPropList::getFileSpacePagesize () const

FileCreatPropList::getFileSpaceStrategy (H5F_fspace_strategy_t& *strategy*, hbool_t& *persist*, hsize_t& *threshold*) const

FileCreatPropList::setFileSpacePagesize (hsize_t *fsp_psize*) const

FileCreatPropList::setFileSpaceStrategy (H5F_fspace_strategy_t *strategy*, hbool_t *persist*, hsize_t *threshold*) const

H5File.h

namespace H5

H5File::getFileInfo (H5F_info2_t& *file_info*) const

H5FloatType.h

namespace H5

FloatType::FloatType [in-charge] (H5Location const& *loc*, char const* *name*)

FloatType::FloatType [in-charge] (H5Location const& *loc*, std::string const& *name*)

FloatType::FloatType [not-in-charge] (H5Location const& *loc*, char const* *name*)

FloatType::FloatType [not-in-charge] (H5Location const& *loc*, std::string const& *name*)

H5Fpublic.h

H5Fget_mdc_image_info (hid_t *file_id*, unsigned long* *image_addr*, hsize_t* *image_size*)

H5Fget_page_buffering_stats (hid_t *file_id*, unsigned int* *accesses*, unsigned int* *hits*, unsigned int* *misses*, unsigned int* *evictions*, unsigned int* *bypasses*)

H5Freset_page_buffering_stats (hid_t *file_id*)

H5Fset_latest_format (hid_t *file_id*, hbool_t *latest_format*)

H5Group.h

namespace H5

Group::closeObjId (hid_t *obj_id*) const

Group::getNumObjs () const

Group::getObjId (char const* *name*, PropList const& *plist*) const

Group::getObjId (std::string const& *name*, PropList const& *plist*) const

H5IdComponent.h

namespace H5

IdComponent::getNumMembers (H5I_type_t *type*) [static]

IdComponent::isValid (hid_t *an_id*) [static]
IdComponent::typeExists (H5l_type_t *type*) [static]

H5IntType.h

namespace H5

IntType::IntType [in-charge] (H5Location const& *loc*, char const* *name*)
IntType::IntType [in-charge] (H5Location const& *loc*, std::string const& *name*)
IntType::IntType [not-in-charge] (H5Location const& *loc*, char const* *name*)
IntType::IntType [not-in-charge] (H5Location const& *loc*, std::string const& *name*)

H5LaccProp.h

namespace H5

LinkAccPropList::DEFAULT [data]
LinkAccPropList::deleteConstants () [static]
LinkAccPropList::fromClass () const
LinkAccPropList::getNumLinks () const
LinkAccPropList::LinkAccPropList [in-charge] ()
LinkAccPropList::LinkAccPropList [in-charge] (LinkAccPropList const& *original*)
LinkAccPropList::LinkAccPropList [in-charge] (hid_t const *plist_id*)
LinkAccPropList::LinkAccPropList [not-in-charge] ()
LinkAccPropList::LinkAccPropList [not-in-charge] (LinkAccPropList const& *original*)
LinkAccPropList::LinkAccPropList [not-in-charge] (hid_t const *plist_id*)
LinkAccPropList::setNumLinks (size_t *nlinks*) const
LinkAccPropList::~LinkAccPropList [in-charge-deleting] ()
LinkAccPropList::~LinkAccPropList [in-charge] ()
LinkAccPropList::~LinkAccPropList [not-in-charge] ()

H5Location.h

namespace H5

H5Location::childObjType (char const* *objname*) const
H5Location::childObjType (hsize_t *index*, H5_index_t *index_type*, enum H5_iter_order_t *order*, char const* *objname*) const
H5Location::childObjType (std::string const& *objname*) const
H5Location::childObjVersion (char const* *objname*) const
H5Location::childObjVersion (std::string const& *objname*) const
H5Location::createDataSet (char const* *name*, DataType const& *data_type*, DataSpace const& *data_space*, DSetCreatPropList const& *create_plist*) const
H5Location::createDataSet (std::string const& *name*, DataType const& *data_type*, DataSpace const& *data_space*, DSetCreatPropList const& *create_plist*) const
H5Location::createGroup (char const* *name*, size_t *size_hint*) const
H5Location::createGroup (std::string const& *name*, size_t *size_hint*) const
H5Location::exists (char const* *name*, LinkAccPropList const& *lapl*) const
H5Location::exists (std::string const& *name*, LinkAccPropList const& *lapl*) const
H5Location::getLinkval (char const* *link_name*, size_t *size*) const

H5Location::getLinkval (std::string const& *link_name*, size_t *size*) **const**
H5Location::getObjinfo (char const* *name*, H5G_stat_t& *statbuf*) **const**
H5Location::getObjinfo (char const* *name*, hbool_t *follow_link*, H5G_stat_t& *statbuf*) **const**
H5Location::getObjinfo (std::string const& *name*, H5G_stat_t& *statbuf*) **const**
H5Location::getObjinfo (std::string const& *name*, hbool_t *follow_link*, H5G_stat_t& *statbuf*) **const**
H5Location::getObjnameByIdx (hsize_t *idx*) **const**
H5Location::getObjnameByIdx (hsize_t *idx*, char* *name*, size_t *size*) **const**
H5Location::getObjnameByIdx (hsize_t *idx*, std::string& *name*, size_t *size*) **const**
H5Location::getObjTypeByIdx (hsize_t *idx*) **const**
H5Location::getObjTypeByIdx (hsize_t *idx*, char* *type_name*) **const**
H5Location::getObjTypeByIdx (hsize_t *idx*, std::string& *type_name*) **const**
H5Location::iterateElems (char const* *name*, int* *idx*, H5G_iterate_t *op*, void* *op_data*)
H5Location::iterateElems (std::string const& *name*, int* *idx*, H5G_iterate_t *op*, void* *op_data*)
H5Location::link (enum H5L_type_t *link_type*, char const* *curr_name*, char const* *new_name*) **const**
H5Location::link (enum H5L_type_t *link_type*, std::string const& *curr_name*, std::string const& *new_name*) **const**
H5Location::mount (char const* *name*, H5File const& *child*, PropList const& *plist*) **const**
H5Location::mount (std::string const& *name*, H5File const& *child*, PropList const& *plist*) **const**
H5Location::move (char const* *src*, char const* *dst*) **const**
H5Location::move (std::string const& *src*, std::string const& *dst*) **const**
H5Location::openDataSet (char const* *name*) **const**
H5Location::openDataSet (std::string const& *name*) **const**
H5Location::openGroup (char const* *name*) **const**
H5Location::openGroup (std::string const& *name*) **const**
H5Location::throwException (std::string const& *func_name*, std::string const& *msg*) **const**
H5Location::unlink (char const* *name*) **const**
H5Location::unlink (std::string const& *name*) **const**
H5Location::unmount (char const* *name*) **const**
H5Location::unmount (std::string const& *name*) **const**

H5Object.h

namespace H5

H5Object::attrExists (char const* *name*) **const**
H5Object::attrExists (std::string const& *name*) **const**
H5Object::createAttribute (char const* *name*, DataType const& *type*, DataSpace const& *space*, PropList const& *create_plist*) **const**

H5Object::createAttribute (std::string const& *name*, DataType const& *type*, DataSpace const& *space*, PropList const& *create_plist*) **const**
H5Object::iterateAttrs (void(**user_op*)(H5Object&, std::string, void*), unsigned int* *idx*, void* *op_data*)
H5Object::objVersion () **const**
H5Object::openAttribute (char const* *name*) **const**
H5Object::openAttribute (std::string const& *name*) **const**
H5Object::openAttribute (unsigned int const *idx*) **const**
H5Object::removeAttr (char const* *name*) **const**
H5Object::removeAttr (std::string const& *name*) **const**
H5Object::renameAttr (char const* *oldname*, char const* *newname*) **const**
H5Object::renameAttr (std::string const& *oldname*, std::string const& *newname*) **const**

H5PacketTable.h

FL_PacketTable::FL_PacketTable [in-charge] (hid_t *fileID*, char const* *name*, hid_t *dtypeID*, hsize_t *chunkSize*, hid_t *plistID*)
FL_PacketTable::FL_PacketTable [not-in-charge] (hid_t *fileID*, char const* *name*, hid_t *dtypeID*, hsize_t *chunkSize*, hid_t *plistID*)

H5PLpublic.h

H5PLappend (char const* *plugin_path*)
H5PLget (unsigned int *index*, char* *pathname*, size_t *size*)
H5PLinsert (char const* *plugin_path*, unsigned int *index*)
H5PLprepend (char const* *plugin_path*)
H5PLremove (unsigned int *index*)
H5PLreplace (char const* *plugin_path*, unsigned int *index*)
H5PLsize (unsigned int* *listsize*)

H5Ppublic.h

H5Pget_evict_on_close (hid_t *fapl_id*, hbool_t* *evict_on_close*)
H5Pget_file_space_page_size (hid_t *plist_id*, hsize_t* *fsp_size*)
H5Pget_file_space_strategy (hid_t *plist_id*, H5F_fspace_strategy_t* *strategy*, hbool_t* *persist*, hsize_t* *threshold*)
H5Pget_mdc_image_config (hid_t *plist_id*, H5AC_cache_image_config_t* *config_ptr*)
H5Pget_page_buffer_size (hid_t *plist_id*, size_t* *buf_size*, unsigned int* *min_meta_per*, unsigned int* *min_raw_per*)
H5Pset_evict_on_close (hid_t *fapl_id*, hbool_t *evict_on_close*)
H5Pset_file_space_page_size (hid_t *plist_id*, hsize_t *fsp_size*)
H5Pset_file_space_strategy (hid_t *plist_id*, H5F_fspace_strategy_t *strategy*, hbool_t *persist*, hsize_t *threshold*)
H5Pset_mdc_image_config (hid_t *plist_id*, H5AC_cache_image_config_t* *config_ptr*)
H5Pset_page_buffer_size (hid_t *plist_id*, size_t *buf_size*, unsigned int *min_meta_per*, unsigned int *min_raw_per*)

H5PropList.h

namespace H5

PropList::setProperty (char const* *name*, std::string const& *strg*) const

PropList::setProperty (char const* *name*, void const* *value*) const

PropList::setProperty (std::string const& *name*, std::string const& *strg*) const

PropList::setProperty (std::string const& *name*, void const* *value*) const

H5StrType.h

namespace H5

StrType::StrType [in-charge] (H5Location const& *loc*, char const* *name*)

StrType::StrType [in-charge] (H5Location const& *loc*, std::string const& *name*)

StrType::StrType [not-in-charge] (H5Location const& *loc*, char const* *name*)

StrType::StrType [not-in-charge] (H5Location const& *loc*, std::string const& *name*)

H5VarLenType.h

namespace H5

VarLenType::VarLenType [in-charge] (H5Location const& *loc*, char const* *name*)

VarLenType::VarLenType [in-charge] (H5Location const& *loc*, std::string const& *name*)

VarLenType::VarLenType [not-in-charge] (H5Location const& *loc*, char const* *name*)

VarLenType::VarLenType [not-in-charge] (H5Location const& *loc*, std::string const& *name*)

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Removed Symbols (66)

H5ArrayType.h

namespace H5

ArrayType::setArrayInfo ()

H5Attribute.h

namespace H5

Attribute::flush (H5F_scope_t *scope*) const

H5CommonFG.h

namespace H5

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

CommonFG::childObjType (hsize_t *index*, H5_index_t *index_type*, enum H5_iter_order_t *order*, char const* *objname*) const

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

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

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

CommonFG::createDataSet (char const* *name*, DataType const& *data_type*, DataSpace const& *data_space*, DSetCreatPropList const& *create_plist*) const

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

CommonFG::createGroup (char const* *name*, size_t *size_hint*) const

CommonFG::createGroup (int const *H5std_string*) const
CommonFG::getNumObjs () const
CommonFG::getObjinfo (char const* *name*, H5G_stat_t& *statbuf*) const
CommonFG::getObjinfo (char const* *name*, hbool_t *follow_link*, H5G_stat_t& *statbuf*) const
CommonFG::getObjinfo (int const *H5std_string*) const
CommonFG::getObjnameByIdx (hsize_t *idx*, char* *name*, size_t *size*) const
CommonFG::getObjnameByIdx (hsize_t *idx*, int& *name*, size_t *size*) const
CommonFG::getObjTypeByIdx (hsize_t *idx*) const
CommonFG::getObjTypeByIdx (hsize_t *idx*, char* *type_name*) const
CommonFG::getObjTypeByIdx (hsize_t *idx*, int& *type_name*) const
CommonFG::iterateElems (char const* *name*, int* *idx*, H5G_iterate_t *op*, void* *op_data*)
CommonFG::iterateElems (int const *H5std_string*)
CommonFG::link (enum H5L_type_t *link_type*, char const* *curr_name*, char const* *new_name*) const
CommonFG::link (enum H5L_type_t *link_type*, int const *H5std_string*) const
CommonFG::mount (char const* *name*, H5File const& *child*, PropList const& *plist*) const
CommonFG::mount (char const* *name*, H5File& *child*, PropList& *plist*) const
CommonFG::mount (int const *H5std_string*) const
CommonFG::move (char const* *src*, char const* *dst*) const
CommonFG::move (int const *H5std_string*) const
CommonFG::openDataSet (char const* *name*) const
CommonFG::openDataSet (int const *H5std_string*) const
CommonFG::openGroup (char const* *name*) const
CommonFG::openGroup (int const *H5std_string*) const
CommonFG::unlink (char const* *name*) const
CommonFG::unlink (int const *H5std_string*) const
CommonFG::unmount (char const* *name*) const
CommonFG::unmount (int const *H5std_string*) const

H5DataSet.h

namespace **H5**

DataSet::fillMemBuf (void const* *fill*, DataType& *fill_type*, void* *buf*, DataType& *buf_type*, DataSpace& *space*)

DataSet::fillMemBuf (void* *buf*, DataType& *buf_type*, DataSpace& *space*)

DataSet::getVlenBufSize (DataType& *type*, DataSpace& *space*) const

H5DataSpace.h

namespace **H5**

DataSpace::extentCopy (DataSpace& *dest_space*) const

H5DataType.h

namespace H5

DataType::commit (H5Location& *loc*, char const* *name*)

DataType::commit (H5Location& *loc*, std::string const& *name*)

DataType::DataType [in-charge] (Attribute const& *attr*, void const* *ref*, enum H5R_type_t *ref_type*, PropList const& *plist*)

DataType::DataType [not-in-charge] (Attribute const& *attr*, void const* *ref*, enum H5R_type_t *ref_type*, PropList const& *plist*)

H5FaccProp.h

namespace H5

FileAccPropList::setSplit (FileAccPropList& *meta_plist*, FileAccPropList& *raw_plist*, char const* *meta_ext*, char const* *raw_ext*) **const**

FileAccPropList::setSplit (FileAccPropList& *meta_plist*, FileAccPropList& *raw_plist*, std::string const& *meta_ext*, std::string const& *raw_ext*) **const**

H5File.h

namespace H5

H5File::getVFDHandle (FileAccPropList& *fapl*, void** *file_handle*) **const**

H5Group.h

namespace H5

Group::Group [in-charge] (Attribute const& *attr*, void const* *ref*, enum H5R_type_t *ref_type*, PropList const& *plist*)

Group::Group [not-in-charge] (Attribute const& *attr*, void const* *ref*, enum H5R_type_t *ref_type*, PropList const& *plist*)

H5IdComponent.h

namespace H5

IdComponent::IdComponent [in-charge] (hid_t const *h5_id*)

IdComponent::IdComponent [not-in-charge] (hid_t const *h5_id*)

H5Library.h

namespace H5

H5Library::need_cleanup [data]

H5Location.h

namespace H5

H5Location::attrExists (char const* *name*) **const**

H5Location::attrExists (std::string const& *name*) **const**

H5Location::createAttribute (char const* *name*, DataType const& *type*, DataSpace const& *space*, PropList const& *create_plist*) **const**

H5Location::createAttribute (std::string const& *name*, DataType const& *type*, DataSpace const& *space*, PropList const& *create_plist*) **const**

H5Location::dereference (Attribute const& *attr*, void const* *ref*, enum H5R_type_t *ref_type*, PropList const& *plist*)

H5Location::iterateAttrs (void(**user_op*)(H5Location&, std::string, void*), unsigned int* *idx*, void* *op_data*)

H5Location::openAttribute (char const* *name*) **const**
H5Location::openAttribute (std::string const& *name*) **const**
H5Location::openAttribute (unsigned int const *idx*) **const**
H5Location::removeAttr (char const* *name*) **const**
H5Location::removeAttr (std::string const& *name*) **const**
H5Location::renameAttr (char const* *oldname*, char const* *newname*) **const**
H5Location::renameAttr (std::string const& *oldname*, std::string const& *newname*) **const**

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Problems with Data Types, High Severity (5)

H5FDpublic.h

[+] struct **H5FD_t** (1)

	Change	Effect
1	Field swmr_read has been removed from this type.	Recompilation of a client program may be required. Error message: ' struct H5FD_t ' has no member swmr_read .

H5Location.h

namespace **H5**

[+] class **H5Location** (2)

	Change	Effect
1	Pure_Virtual method H5Location::getId () const has been removed from this class.	Recompilation of a client program may be required. Error message: ' H5Location ' has no member getId .
2	Pure_Virtual method H5Location::p_setId (hid_t const) has been removed from this class.	Recompilation of a client program may be required. Error message: ' H5Location ' has no member p_setId .

H5Object.h

namespace **H5**

[+] class **H5Object** (2)

	Change	Effect
1	Pure virtual method H5Object::getId () const has been added to this class.	Recompilation of a client program may be required. Error message: cannot allocate an object of abstract class ' H5Object ': the following virtual functions are pure with no implementation: H5Object::getId () const .
2	Pure virtual method H5Object::p_setId (hid_t const) has been added to this class.	Recompilation of a client program may be required. Error message: cannot allocate an object of abstract class ' H5Object ': the following virtual functions are pure with no implementation: H5Object::p_setId (hid_t const).

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Problems with Symbols, Medium Severity (6)

H5DataType.h

namespace H5

[+] **DataType::DataType** [in-charge] (Attribute const& *attr*, void const* *ref*, enum H5R_type_t *ref_type*, PropList const& *plist*) (1)

	Change	Effect
1	Parameters list has been changed.	Recompilation of a client program may be required.

[+] **DataType::DataType** [not-in-charge] (Attribute const& *attr*, void const* *ref*, enum H5R_type_t *ref_type*, PropList const& *plist*) (1)

	Change	Effect
1	Parameters list has been changed.	Recompilation of a client program may be required.

H5Object.h

namespace H5

[+] **H5Object::~H5Object** [not-in-charge] () (1)

	Change	Effect
1	This method became protected .	Recompilation of a client program may be required. message: 'H5Object::~H5Object()' is protected.

[+] **H5Object::~H5Object** [in-charge] () (1)

	Change	Effect
1	This method became protected .	Recompilation of a client program may be required. message: 'H5Object::~H5Object()' is protected.

[+] **H5Object::~H5Object** [in-charge-deleting] () (1)

	Change	Effect
1	This method became protected .	Recompilation of a client program may be required. message: 'H5Object::~H5Object()' is protected.

H5Ppublic.h

[+] **H5Pget_driver_info** (hid_t *plist_id*) (1)

	Change	Effect
1	Type of return value became const (has been changed from void* to void const*).	Recompilation of a client program may be required.

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Problems with Data Types, Low Severity (6)

H5FDpublic.h

[+] struct **H5FD_class_t** (1)

	Change	Effect
1	Base type of field flush has been changed from herr_t*(H5FD_t*,hid_t,unsigned int) to herr_t*(H5FD_t*,hid_t,hbool_t) .	Recompilation of a client program may be

[+] struct **H5FD_t (2)**

	Change	Effect
1	Field access_flags has been added to this type.	This field will not be initialized or used by o
2	Field paged_aggr has been added to this type.	This field will not be initialized or used by o

H5File.h

namespace **H5**

[+] class **H5File (2)**

	Change	Effect
1	Base class Group has been added.	Recompilation of a client program may be
2	Base class CommonFG has been removed.	Recompilation of a client program may be

H5public.h

[+] typedef **haddr_t (1)**

	Change	Effect
1	Base type has been changed from unsigned long long to unsigned long .	Recompilation of a client program may be

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Problems with Symbols, Low Severity (1)

H5FDpublic.h

[+] **H5FDflush (H5FD_t* file, hid_t dxpl_id, unsigned int closing) (1)**

	Change	Effect
1	Type of 3rd parameter closing has been changed from unsigned int to hbool_t .	Recompilation of a client program may be

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Problems with Constants, Low Severity (26)

H5FDlog.h

[+] **H5FD_LOG_ALL**

	Change	Effect
1	The value of constant H5FD_LOG_ALL has been changed from	

(H5FD_LOG_ALLOC|H5FD_LOG_TIME_IO|H5FD_LOG_NUM_IO|H5FD_LOG_FLAVOR|H5FD_LOG_FILE_READ|H5FD_LOG_FILE_WRITE|H5FD_LOG_LOC_READ|H5FD_LOG_LOC_WRITE|H5FD_LOG_NUM_READ|H5FD_LOG_NUM_WRITE|H5FD_LOG_LOC_SEEK|H5FD_LOG_NUM_SEEK|H5FD_LOG_FREE|H5FD_LOG_ALLOC|H5FD_LOG_TIME_IO|H5FD_LOG_NUM_IO|H5FD_LOG_FLAVOR|H5FD_LOG_FILE_READ|H5FD_LOG_FILE_WRITE|H5FD_LOG_LOC_READ|H5FD_LOG_LOC_WRITE|H5FD_LOG_NUM_READ|H5FD_LOG_NUM_WRITE|H5FD_LOG_LOC_SEEK|H5FD_LOG_NUM_SEEK|H5FD_LOG_FREE)

[+] H5FD_LOG_ALLOC

	Change		Effect
1	The value of constant H5FD_LOG_ALLOC has been changed from 0x00010000 to 0x00040000 .		Recompilation of a client program may be required.

[+] H5FD_LOG_FILE_READ

	Change		Effect
1	The value of constant H5FD_LOG_FILE_READ has been changed from 0x00000008 to 0x00000010 .		Recompilation of a client program may be required.

[+] H5FD_LOG_FILE_WRITE

	Change		Effect
1	The value of constant H5FD_LOG_FILE_WRITE has been changed from 0x00000010 to 0x00000020 .		Recompilation of a client program may be required.

[+] H5FD_LOG_FLAVOR

	Change		Effect
1	The value of constant H5FD_LOG_FLAVOR has been changed from 0x00000020 to 0x00000040 .		Recompilation of a client program may be required.

[+] H5FD_LOG_LOC_READ

	Change		Effect
1	The value of constant H5FD_LOG_LOC_READ has been changed from 0x00000001 to 0x00000002 .		Recompilation of a client program may be required.

[+] H5FD_LOG_LOC_SEEK

	Change		Effect
1	The value of constant H5FD_LOG_LOC_SEEK has been changed from 0x00000004 to 0x00000008 .		Recompilation of a client program may be required.

[+] H5FD_LOG_LOC_WRITE

	Change		Effect
1	The value of constant H5FD_LOG_LOC_WRITE has been changed from 0x00000002 to 0x00000004 .		Recompilation of a client program may be required.

[+] H5FD_LOG_NUM_READ

	Change		Effect
1	The value of constant H5FD_LOG_NUM_READ has been changed from 0x00000040 to 0x00000080 .		Recompilation of a client program may be required.

[+] H5FD_LOG_NUM_SEEK

	Change		Effect
1	The value of constant H5FD_LOG_NUM_SEEK has been changed from 0x00000100 to 0x00000200 .		Recompilation of a client program may be

[+] **H5FD_LOG_NUM_TRUNCATE**

	Change		Effect
1	The value of constant H5FD_LOG_NUM_TRUNCATE has been changed from 0x00000200 to 0x00000400 .		Recompilation of a client program may be

[+] **H5FD_LOG_NUM_WRITE**

	Change		Effect
1	The value of constant H5FD_LOG_NUM_WRITE has been changed from 0x00000080 to 0x00000100 .		Recompilation of a client program may be

[+] **H5FD_LOG_TIME_CLOSE**

	Change		Effect
1	The value of constant H5FD_LOG_TIME_CLOSE has been changed from 0x00008000 to 0x00020000 .		Recompilation of a client program may be

[+] **H5FD_LOG_TIME_IO**

	Change		Effect
1	The value of constant H5FD_LOG_TIME_IO has been changed from (H5FD_LOG_TIME_OPEN H5FD_LOG_TIME_STAT H5FD_LOG_TIME_READ H5FD_LOG_TIME_WRITE H5FD_LOG_TIME_CLOSE) to (H5FD_LOG_TIME_OPEN H5FD_LOG_TIME_STAT H5FD_LOG_TIME_READ H5FD_LOG_TIME_WRITE H5FD_LOG_TIME_CLOSE)		

[+] **H5FD_LOG_TIME_OPEN**

	Change		Effect
1	The value of constant H5FD_LOG_TIME_OPEN has been changed from 0x00000400 to 0x00000800 .		Recompilation of a client program may be

[+] **H5FD_LOG_TIME_READ**

	Change		Effect
1	The value of constant H5FD_LOG_TIME_READ has been changed from 0x00001000 to 0x00002000 .		Recompilation of a client program may be

[+] **H5FD_LOG_TIME_SEEK**

	Change		Effect
1	The value of constant H5FD_LOG_TIME_SEEK has been changed from 0x00004000 to 0x00008000 .		Recompilation of a client program may be

[+] **H5FD_LOG_TIME_STAT**

	Change		Effect
1	The value of constant H5FD_LOG_TIME_STAT has been		Recompilation of a client program may be

changed from **0x00000800** to **0x00001000**.

[+] **H5FD_LOG_TIME_WRITE**

	Change	Effect
1	The value of constant H5FD_LOG_TIME_WRITE has been changed from 0x00002000 to 0x00004000 .	Recompilation of a client program may be

H5pubconf.h

[+] **H5_PACKAGE_STRING**

	Change	Effect
1	The value of constant H5_PACKAGE_STRING has been changed from " HDF5 1.10.0-patch1 " to " HDF5 1.10.1 ".	Recompilation of a client program may be

[+] **H5_PACKAGE_VERSION**

	Change	Effect
1	The value of constant H5_PACKAGE_VERSION has been changed from " 1.10.0-patch1 " to " 1.10.1 ".	Recompilation of a client program may be

[+] **H5_VERSION**

	Change	Effect
1	The value of constant H5_VERSION has been changed from " 1.10.0-patch1 " to " 1.10.1 ".	Recompilation of a client program may be

H5public.h

[+] **H5_VERS_INFO**

	Change	Effect
1	The value of constant H5_VERS_INFO has been changed from " HDF5 library version: 1.10.0-patch1 " to " HDF5 library version: 1.10.1 ".	Recompilation of a client program may be

[+] **H5_VERS_RELEASE**

	Change	Effect
1	The value of constant H5_VERS_RELEASE has been changed from 0 to 1 .	Recompilation of a client program may be

[+] **H5_VERS_SUBRELEASE**

	Change	Effect
1	The value of constant H5_VERS_SUBRELEASE has been changed from " patch1 " to "".	Recompilation of a client program may be

[+] **HADDR_UNDEF**

	Change	Effect
1	The value of constant HADDR_UNDEF has been changed from	Recompilation of a client program may be

((haddr_t)(int64_t)(-1)) to ((haddr_t)(long)(-1)).

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Other Changes in Symbols (20)

H5ArrayType.h

namespace H5

[+] **ArrayType::getArrayDims** (hsize_t* *dims*) (1)

	Change		Effect
1	Method became const .	No effect.	

[+] **ArrayType::getArrayNDims** () (1)

	Change		Effect
1	Method became const .	No effect.	

H5DcreatProp.h

namespace H5

[+] **DSetCreatPropList::allFiltersAvail** () (1)

	Change		Effect
1	Method became const .	No effect.	

[+] **DSetCreatPropList::getAllocTime** () (1)

	Change		Effect
1	Method became const .	No effect.	

[+] **DSetCreatPropList::getFillTime** () (1)

	Change		Effect
1	Method became const .	No effect.	

[+] **DSetCreatPropList::isFillValueDefined** () (1)

	Change		Effect
1	Method became const .	No effect.	

[+] **DSetCreatPropList::setAllocTime** (H5D_alloc_time_t *alloc_time*) (1)

	Change		Effect
1	Method became const .	No effect.	

[+] **DSetCreatPropList::setFillTime** (H5D_fill_time_t *fill_time*) (1)

	Change		Effect
1	Method became const .	No effect.	

H5DxferProp.h

namespace H5

[+] **DSetMemXferPropList::getEDCCheck () (1)**

	Change		Effect
1	Method became const .	No effect.	

[+] **DSetMemXferPropList::getHyperVectorSize () (1)**

	Change		Effect
1	Method became const .	No effect.	

[+] **DSetMemXferPropList::getSmallDataBlockSize () (1)**

	Change		Effect
1	Method became const .	No effect.	

[+] **DSetMemXferPropList::setEDCCheck (H5Z_EDC_t *check*) (1)**

	Change		Effect
1	Method became const .	No effect.	

[+] **DSetMemXferPropList::setHyperVectorSize (size_t *vector_size*) (1)**

	Change		Effect
1	Method became const .	No effect.	

[+] **DSetMemXferPropList::setSmallDataBlockSize (hsize_t *size*) (1)**

	Change		Effect
1	Method became const .	No effect.	

H5FaccProp.h

namespace H5

[+] **FileAccPropList::getFcloseDegree () (1)**

	Change		Effect
1	Method became const .	No effect.	

[+] **FileAccPropList::setFcloseDegree (H5F_close_degree_t *degree*) (1)**

	Change		Effect
1	Method became const .	No effect.	

H5Location.h

namespace H5

[+] **H5Location::H5Location [in-charge] () (1)**

	Change		Effect
1	This method became public .	No effect.	

[+] **H5Location::H5Location [not-in-charge] () (1)**

	Change		Effect
1	This method became public .		No effect.

H5PacketTable.h

[+] **FL_PacketTable::FL_PacketTable** [in-charge] (hid_t *fileID*, char* *name*, hid_t *dtypeID*, hsize_t *chunkSize*, int *compression*) (1)

	Change		Effect
1	The default argument of 5th parameter compression has been changed from -1 to 0 .		No effect.

[+] **FL_PacketTable::FL_PacketTable** [not-in-charge] (hid_t *fileID*, char* *name*, hid_t *dtypeID*, hsize_t *chunkSize*, int *compression*) (1)

	Change		Effect
1	The default argument of 5th parameter compression has been changed from -1 to 0 .		No effect.

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Other Changes in Constants (23)

H5ACpublic.h

[+] **H5AC__CACHE_IMAGE_ENTRY_AGEOUT__MAX**

	Change		Effect
1	The constant H5AC__CACHE_IMAGE_ENTRY_AGEOUT__MAX with value 100 has been added.		No effect.

[+] **H5AC__CACHE_IMAGE_ENTRY_AGEOUT__NONE**

	Change		Effect
1	The constant H5AC__CACHE_IMAGE_ENTRY_AGEOUT__NONE with value -1 has been added.		No effect.

[+] **H5AC__CURR_CACHE_IMAGE_CONFIG_VERSION**

	Change		Effect
1	The constant H5AC__CURR_CACHE_IMAGE_CONFIG_VERSION with value 1 has been added.		No effect.

H5Epubgen.h

[+] **H5E_CANTCLEAN**

	Change		Effect
1	The constant H5E_CANTCLEAN with value (H5OPEN		No effect.

	H5E_CANTCLEAN_g) has been added.		
[+] H5E_CANTMARKCLEAN			
	Change		Effect
1	The constant H5E_CANTMARKCLEAN with value (H5OPEN H5E_CANTMARKCLEAN_g) has been added.	No effect.	
[+] H5E_CANTMARKSERIALIZED			
	Change		Effect
1	The constant H5E_CANTMARKSERIALIZED with value (H5OPEN H5E_CANTMARKSERIALIZED_g) has been added.	No effect.	
[+] H5E_CANTMARKUNSERIALIZED			
	Change		Effect
1	The constant H5E_CANTMARKUNSERIALIZED with value (H5OPEN H5E_CANTMARKUNSERIALIZED_g) has been added.	No effect.	
[+] H5E_CANTUNSERIALIZE			
	Change		Effect
1	The constant H5E_CANTUNSERIALIZE with value (H5OPEN H5E_CANTUNSERIALIZE_g) has been added.	No effect.	
[+] H5E_PAGEBUF			
	Change		Effect
1	The constant H5E_PAGEBUF with value (H5OPEN H5E_PAGEBUF_g) has been added.	No effect.	
H5FDlog.h			
[+] H5FD_LOG_FREE			
	Change		Effect
1	The constant H5FD_LOG_FREE with value 0x00080000 has been added.	No effect.	
[+] H5FD_LOG_META_IO			
	Change		Effect
1	The constant H5FD_LOG_META_IO with value (H5FD_LOG_TRUNCATE) has been added.	No effect.	
[+] H5FD_LOG_TIME_TRUNCATE			
	Change		Effect
1	The constant H5FD_LOG_TIME_TRUNCATE with value 0x00010000 has been added.	No effect.	
[+] H5FD_LOG_TRUNCATE			

	Change		Effect
1	The constant H5FD_LOG_TRUNCATE with value 0x00000001 has been added.	No effect.	

H5FDpublic.h

[+] H5FD_FEAT_PAGED_AGGR

	Change		Effect
1	The constant H5FD_FEAT_PAGED_AGGR with value 0x00004000 has been added.	No effect.	

[+] H5FD_FEAT_USE_ALLOC_SIZE

	Change		Effect
1	The constant H5FD_FEAT_USE_ALLOC_SIZE with value 0x00002000 has been added.	No effect.	

H5pubconf.h

[+] H5_HAVE_LLROUND

	Change		Effect
1	The constant H5_HAVE_LLROUND with value 1 has been added.	No effect.	

[+] H5_HAVE_LLROUNDF

	Change		Effect
1	The constant H5_HAVE_LLROUNDF with value 1 has been added.	No effect.	

[+] H5_HAVE_LROUND

	Change		Effect
1	The constant H5_HAVE_LROUND with value 1 has been added.	No effect.	

[+] H5_HAVE_LROUNDF

	Change		Effect
1	The constant H5_HAVE_LROUNDF with value 1 has been added.	No effect.	

[+] H5_HAVE_ROUND

	Change		Effect
1	The constant H5_HAVE_ROUND with value 1 has been added.	No effect.	

[+] H5_HAVE_ROUNDf

	Change		Effect
1	The constant H5_HAVE_ROUNDf with value 1 has been added.	No effect.	

[+] H5_HAVE_STRTOLL

	Change		Effect
1	The constant H5_HAVE_STRTOLL with value 1 has been added.	No effect.	

[+] **H5_HAVE_STRTOULL**

	Change		Effect
1	The constant H5_HAVE_STRTOULL with value 1 has been added.	No effect.	

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Header Files (78)

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
H5LDpublic.h
H5Library.h
H5Location.h
H5Lpublic.h
H5LTpublic.h
H5MMpublic.h
H5Object.h
H5OcreatProp.h
H5Opublic.h
H5overflow.h
H5PacketTable.h
H5PLextern.h
H5PLpublic.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 (9)

libhdf5.so.100.0.1
libhdf5_cpp.so.100.0.0
libhdf5_fortran.so.100.0.1
libhdf5_hl.so.100.0.0
libhdf5_hl_cpp.so.100.0.0
libhdf5_java.so.100.0.0
libhdf5hl_fortran.so.100.0.0
libsz.so.2.0.0
libz.so.1.2.5

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