HDF5 Virtual Object Layer (VOL)
User Guide

The HDF Group

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> **PRELIMINARY**
>
> This feature is under active development and is either incomplete or may change in behavior.

6.2 List of HDF5 Native VOL API Calls

These API calls will probably fail when used with terminal VOL connectors other than the native HDF5 file format connector. Their use should be protected in code that uses arbitrary VOL connectors.

H5Aiterate1
H5Ddebug H5Dformat_convert H5Dget_chunk_index_type H5Dget_chunk_info H5Dget_chunk_info_by_coord H5Dget_chunk_storage_size H5Dget_num_chunks H5Dread_chunk H5Dwrite_chunk
H5FD*
H5Fclear_elink_file_cache H5Fformat_convert H5Fget_dset_no_attrs_hint H5Fget_eoa H5Fget_file_image H5Fget_filesize H5Fget_free_sections H5Fget_freespace H5Fget_info1 H5Fget_info2 H5Fget_mdc_config H5Fget_mdc_hit_rate H5Fget_mdc_image_info H5Fget_mdc_logging_status H5Fget_mdc_size H5Fget_metadata_read_retry_info H5Fget_mpi_atomicity H5Fget_page_buffering_stats H5Fget_vfd_handle H5Fincrement_filesize H5Fis_hdf5 H5Freset_mdc_hit_rate_stats H5Freset_page_buffering_stats H5Fset_dset_no_attrs_hint H5Fset_latest_format H5Fset_libver_bounds H5Fset_mdc_config H5Fset_mpi_atomicity H5Fstart_mdc_logging H5Fstart_swmr_write H5Fstop_mdc_logging
H5Gget_comment H5Giterate H5Gset_comment H5Gget_info

H5Gget_info_by_name
H5Gget_info_by_idx
H5Gget_objinfo
H5Gget_objname_by_idx
H5Gget_objtype_by_idx
H5Oare_mdc_flushes_disabled
H5Odisable_mdc_flushes
H5Oenable_mdc_flushes
H5Oget_comment
H5Oget_comment_by_name
H5Oget_info_by_idx1
H5Oget_info_by_idx2
H5Oget_info_by_name1
H5Oget_info_by_name2
H5Oget_info1
H5Oget_info2
H5Oset_comment
H5Oset_comment_by_name

Table 1: Alphabetical list of HDF5 API calls specific to the native VOL connector

6.3 List of HDF5 VOL-Independent API Calls

These HDF5 API calls do not depend on a particular VOL connector being loaded.

H5*
H5Dfill
H5Dgather
H5Diterate
H5Dscatter
H5Dvlen_reclaim
H5Dvlen_get_buf_size
H5E*
H5I*
H5Lis_registered
H5Lregister
H5Lunpack_elink_val
H5Lunregister
H5PL*
H5P*
H5S*
H5T* (non-committed)
H5VL*
H5Z*

Table 2: Alphabetical list of VOL-independent HDF5 API calls

6.4 List of HDF5 API Calls By Callback

VOL Callback	HDF5 API Call
FILE	
create	H5Fcreate
open	H5Fopen
get	H5Fget_access_plist
	H5Fget_create_plist
	H5Fget_fileno
	H5Fget_intent
	H5Fget_name
	H5Fget_obj_count
	H5Fget_obj_ids
specific	H5Fdelete
	H5Fflush
	H5Fis_accessible
	H5Fmount
	H5Freopen
	H5Funmount
close	H5Fclose
GROUP	
create	H5Gcreate1
	H5Gcreate2
	H5Gcreate_anon
open	H5Gopen1
	H5Gopen2
get	H5Gget_create_plist
	H5Gget_info
	H5Gget_info_by_idx
	H5Gget_info_by_name
specific	H5Gflush
	H5Grefresh
close	H5Gclose
DATASET	
create	H5Dcreate1
	H5Dcreate2
open	H5Dopen1
	H5Dopen2
read	H5Dread
write	H5Dwrite
get	H5Dget_access_plist
	H5Dget_create_plist
	H5Dextend
	H5Dget_offset
	H5Dget_space
	H5Dget_space_status
	H5Dget_storage_size
	H5Dget_type
specific	H5Dflush

	H5Drefresh
	H5Dset_extent
close	H5Dclose
OBJECT	
open	H5Oopen
	H5Oopen_by_addr
	H5Oopen_by_idx
	H5Oopen_by_name
copy	H5Ocopy
get	N/A
specific	H5Odecr_refcount
	H5Oexists_by_name
	H5Oflush
	H5O_incr_refcount
	H5Orefresh
	H5Ovisit_by_name1
	H5Ovisit_by_name2
	H5Ovisit1
	H5Ovisit2
close	H5Oclose
LINK	
create	H5Lcreate_hard
	H5Lcreate_soft
	H5Lcreate_ud
	H5Olink
copy	H5Lcopy
move	H5Lmove
get	H5Lget_info
	H5Lget_info_by_idx
	H5Lget_name_by_idx
	H5Lget_val
	H5Lget_val_by_idx
specific	H5Ldelete
	H5Ldelete_by_idx
	H5Lexists
	H5Literate
	H5Literate_by_name
	H5Lvisit
	H5Lvisit_by_name
DATATYPE	
commit	H5Tcommit
open	H5Topen
get	H5Tget_create_plist
specific	H5Tflush
	H5Trefresh
close	H5Tclose
ATTRIBUTE	
create	H5Acreate1
	H5Acreate2

	H5Acreate_by_name
open	H5Aopen
	H5Aopen_by_idx
	H5Aopen_by_name
	H5Aopen_idx
	H5Aopen_name
read	H5Aread
write	H5Awrite
get	H5Aget_get_create_plist
	H5Aget_info
	H5Aget_info_by_idx
	H5Aget_info_by_name
	H5Aget_name
	H5Aget_name_by_idx
	H5Aget_space
	H5Aget_storage_size
	H5Aget_type
specific	H5Adelete
	H5Adelete_by_idx
	H5Adelete_by_name
	H5Aexists
	H5Aexists_by_name
	H5Aiterate1
	H5Aiterate2
	H5Aiterate_by_name
	H5Arename
	H5Arename_by_name
close	H5Aclose

Table 3: Breakdown of HDF5 API calls by VOL callback

References