HDF5 Virtual Object Layer (VOL) User Guide

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1 Introduction

2 Quickstart

Use A VOL-Enabled HDF5 Library

Make Sure The VOL Connector Is In The Search Path

Update Your Code To Load The Connector

- 3 Loading and Registering Connectors
- 3.1 VOL Connector Search Path
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- 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

 $H5Fget_vfd_handle$

 $H5Fincrement_file size$

 $H5Fis_hdf5$

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_info_by_name2
H5Oget_info2
H5Oset_comment
H5Oset_comment
```

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

References