erty List Class Property Parameter(s) or Flag(s)	Additional Description Additional Description (where necessary)	Set/Get Call Parameter	Valid Values
HDF5 knobs that can be adjusted			
Creation Property Lists (FCPL)			
B-tree control parameter	Set/get size parameter controlling B-trees for indexing chunked datasets.	H5Pset_istore_k	
		<pre>H5Pget_istore_k</pre>	
FCPL identifier		fcpl_id	Valid FCPL identifier
			Default: No default value
B-tree control parameter	One-half the rank of chunked storage B-tree.	ik	Unsigned integer specifying one-half the rank of a
			tree that stores chunked raw data. Default: 32
Sizes of object offsets and lengths	Set/get byte size of offsets and lengths used to	H5Pset sizes	Delault. 32
Sizzo di dajest directo ana rengano	address objects in HDF5 file.		
	,	H5Pget_sizes	
FCPL identifier		fcpl_id	Valid FCPL identifier
			Default: No default value
Object offset		sizeof_addr	Unsigned integer specifying size, in bytes, of offse
			used to address an object.
			0 (zero) retains current setting. Default: sizeof(hsize_t) Normally 8 byte
Object length		sizeof size	Unsigned integer specifying size, in bytes, of leng
- ajest tengan		_	used to address an object.
			0 (zero) retains current setting.
			Default: sizeof(hsize_t) Normally 8 byte
Size of parameters to control symbol table nodes	Set/get size of parameters used to control symbol table nodes.	<u>H5Pset_sym_k</u>	
table floues	table floues.	H5Pget sym k	
FCPL identifier		fcpl_id	Valid FCPL identifier
			Default: No default value
Symbol table tree rank	Controls rank of symbol table tree for group;	ik	Unsigned integer specifying one-half of rank of
	rank is twice the value of this setting.		symbol table tree.
			0 (zero) retains current value.
Complete the later of the size	Control or when of sumbalathet and the	1k	Default: 16
Symbol table node size	Controls number of symbols that can be stored in symbol table node; rank is twice the value of	1K	Unsigned integer specifying one-half of number of symbols that can be stored in symbol table node.
	this setting.		0 (zero) retains current value.
			Default: 4

rty List Class Property Parameter(s) or Flag(s) HDF5 knobs that can be adjusted	Additional Description Additional Description (where necessary)	Set/Get Call Parameter	Valid Values
Userblock size	Set/get size of userblock associated with an HDF5 file.	H5Pset_userblock	
FCPL identifier		H5Pget userblock fcpl_id	Valid FCPL identifier Default: No default value
Size of userblock		size	Unsigned integer specifying size of userblock in bytes Must be power of 2 and equal to 512 or greater. Default: 0
Shared object header message (SOHM) properties		
SOHM index configuration	Set/get shared object header message (SOHM) index configuration.	<pre>H5Pset_shared_mesq_index</pre>	
		H5Pget shared mesg index	
FCPL identifier		fcpl_id	Valid FCPL identifier
			Default: No default value
Index to configure		index_num	Unsigned integer identifying index to be configured.
Message types in index	Types of messages to be stored in index.	mesg_type_flags	Default: No default value H50_SHMESG_SDSPACE_FLAG H50_SHMESG_DTYPE_FLAG H50_SHMESG_FILL_FLAG H50_SHMESG_PLINE_FLAG H50_SHMESG_ATTR_FLAG H50_SHMESG_ALL_FLAG H50_SHMESG_NONE_FLAG Default: H50_SHMESG_NONE_FLAG
Minimum message size		min_mesg_size	Unsigned integer specifying minimum message size for this index. Default: No default value
Number of SOHM indexes	Set/get number of shared object header message (SOHM) indexes to be available in files.	H5Pset shared mesg nindexes	
		H5Pget shared mesg nindexes	
FCPL identifier		fcpl_id	Valid FCPL identifier Default: No default value
Number of indexes		nindexes	Unsigned integer specifying number of shared object header message indexes to be available in files. 0 (zero) disables shared object header messages. Default: No default value

Property List Class			
Property Parameter(s) or Flag(s)	Additional Description Additional Description (where necessary)	Set/Get Call Parameter	Valid Values
HDF5 knobs that can be adjusted	l		
SOHM index storage phase change thresholds	Set/get phase change thresholds for SOHM index storage.	H5Pset shared mesg pha	ase_change
		H5Pget shared mesg pha	ase_change
FCPL identifier		fcpl_id	Valid FCPL identifier
			Default: No default value
Maximum list size threshold	Threshold above which storage of a SOHM index shifts from list to B-tree.	max_list	Unsigned integer specifying maximum number of SOHM indexes to be stored in a list. 0 (zero) sets SOHM index storage to B-tree, never reverting to list.
Minimum B-tree size threshold	Threshold below which storage of a SOHM index reverts to list format.	min_btree	Default: No default value Unsigned integer specifying minimum number of SOHM indexes to be stored in a B-tree. Default: No default value

roperty List Class Property Parameter(s) or Flag(s)	Additional Description Additional Description (where necessary)	Set/Get Call Parameter	Valid Values
HDF5 knobs that can be adjusted			
ile Access Property Lists (FAPL)			
Align objects	Set/get alignment of objects larger than threshold size on specified boundaries in file.	H5Pset_alignment	
		H5Pget_alignment	
FAPL identifier		fapl_id	Valid FAPL identifier
			Default: No default value
Alignment threshold		threshold	Minimum size object to align.
			0 (zero) forces all objects to be aligned.
			1 implies no alignment.
			Default: 1
Alignment boundary		alignment	Non-negative integer, preferably multiple of system
			block size.
			1 turns alignment off.
			Default: 1
Raw data chunk cache (RDCC) properties	Set/get chunk cache properties on per-file basis.	H5Pset_cache	
		<u>H5Pget_cache</u>	
FAPL identifier		fapl_id	Valid FAPL identifier
			Default: No default value
Deprecated parameter	No longer used.	mdc_nelmts	Any value passed is ignored.
			Default: No default value
Number of elements in RDCC		rdcc_nslots	Non-negative integer.
	Number of chunk slots in RDCC for this file.		Default: 521
Total size of RDCC		rdcc_nbytes	Non-negative integer stating size in bytes.
	Total size of RDCC for this file.		Default: 1MB per dataset
Preemption policy		rdcc_w0	Real number between 0 (zero) and 1 (one), inclusive
	Chunk preemption policy for this file.		Default: 0.75
Maximum number of files held open	Set/get maximum number of files that can be held open in external link open file cache	<pre>H5Pset_elink_file_cache_size</pre>	
		<pre>H5Pget_elink_file_cache_size</pre>	
FAPL identifier		fapl_id	Valid FAPL identifier
External link file cache size		efc_size	Default: No default value Unsigned integer specifying maximum number of fil that can be held open.
			and can be new open.

Default: 0 (zero)

ty List Class Property Parameter(s) or Flag(s) HDF5 knobs that can be adjusted	Additional Description Additional Description (where necessary)	Set/Get Call Parameter	Valid Values
Garbage collection references flag	Set/get region reference garbage collection flag.	H5Pset gc references	
FAPL identifier		<pre>H5Pget_gc_references fapl_id</pre>	Valid FAPL identifier Default: No default value
Region reference garbage collection flag		gc_ref	0 (OFF) 1 (ON) Default: 0
Version bounds for HDF5 object formats	Set/get limits on versions of HDF5 format to be used when writing objects. Allows only the 'latest', H5F_LIBVER_LATEST, and 'earliest'', H5F_LIBVER_EARLIEST, boundaries; perrelease limits not available.	H5Pset_libver_bounds	
		H5Pget libver bounds	
FAPL identifier		fapl_id	Valid FAPL identifier
Earliest version to be used		libver_low	Default: No default value H5F_LIBVER_EARLIEST H5F_LIBVER_18 H5F_LIBVER_LATEST
Latest version to be used		libver_high	Default: H5F_LIBVER_EARLIEST H5F_LIBVER_18 H5F_LIBVER_LATEST Default: H5F_LIBVER_LATEST
Metadata cache configuration	Set/get initial metadata cache configuration.	<pre>H5Pset_mdc_config</pre>	
		<pre>H5Pget_mdc_config</pre>	
FAPL identifier		fapl_id	Valid FAPL identifier
			Default: No default value
Pointer to struct of configuration		config_ptr	Valid pointer to H5AC_cache_config_t struct.
settings			Default: No default value
Minimum metadata block size	Set/get minimum metadata block size. Valid only when H5FD_FEAT_AGGREGATE_METADATA has been set by a VFL driver.	<u>H5Pset_meta_block_size</u>	
		H5Pget meta block size	
FAPL identifier		fapl_id	Valid FAPL identifier
Minimum metadata block size		size	Default: No default value Unsigned integer specifying minimum metadata bl allocations in bytes. 0 (zero) turns off metadata aggregation.

Property Parameter(s) or Flag(s)	Additional Description Additional Description (where necessary)	Set/Get Call Parameter	Valid Values
HDF5 knobs that can be adjusted			
Maximum size of data sieve buffer	Set/get maximum size of data sieve buffer.	H5Pset_sieve_buf_size	
		H5Pget_sieve_buf_size	
FAPL identifier		fapl_id	Valid FAPL identifier
			Default: No default value
Maximum data sieve buffer size		size	Unsigned integer specifying maximum data sieve
			buffer size in bytes.
			0 (zero) turns off data sieving.
			Default: 64KB
Size of contiguous block reserved for small data	Set/get size of contiguous block reserved for contiguous storage of small data.	H5Pset_small_data_block_size	
Siliali data	contiguous storage or sman data.	H5Pget small data block size	
EADI :dtifi			Valid FADI idaadiia
FAPL identifier		fapl_id	Valid FAPL identifier
			Default: No default value
Size of shared contiguous block		size	Unsigned integer specifying size, in bytes, of share contiguous block.
			0 (zero) disables small data block mechanism.
			Default: 2048
File close degree	Set/get how aggressively to close file when	H5Pset fclose degree	20.00
	H5Fclose is called while object(s) in file remain	H5Pget fclose degree	
	open.		
FAPL identifier		fapl id	Valid FAPL identifier
			Default: No default value
File close degree	Level of aggression.	fc degree	H5F CLOSE WEAK
The close degree	2000 01 4861 03310111	_ ,	H5F_CLOSE_SEMI
			H5F_CLOSE_STRONG
			H5F_CLOSE_DEFAULT
			Defaults:
			For H5FD_MPIO driver: H5F_CLOSE_SEM
			All other drivers: H5F CLOSE DEFAULT

rty List Class Property Parameter(s) or Flag(s) HDF5 knobs that can be adjusted	Additional Description Additional Description (where necessary)	Set/Get Call Parameter	Valid Values
Drivers			
Core driver	Set/get use of core driver (H5FD_CORE).	<pre>H5Pset_fapl_core</pre>	
		<pre>H5Pget_fapl_core</pre>	
FAPL identifier		fapl_id	Valid FAPL identifier
			Default: No default value
Increment	Size of increment when memory is increased.	increment	Unsigned integer indicating size, in bytes, of increment when memory must be increased. Default: No default value
Backing store	Flag specifying whether file contents are ever written to disk.	backing_store	Boolean value indicating that file is never written to disk (0) or is written to disk (1) when file is closed or access to file terminates in memory. Default: 0
Direct I/O driver	Set/get use of direct I/O driver (H5FD DIRECT).	H5Pset fapl direct	
•	, , , , , , , , , , , , , , , , , , , ,	H5Pget_fapl_direct	
FAPL identifier		fapl_id	Valid FAPL identifier
			Default: No default value
Memory alignment	Required alignment boundary in memory.	alignment	Unsigned integer specifying required boundary alignment in memory in bytes. Default: 4096 (4KB)
File system block size	File system block size.	block_size	Unsigned integer indicating file system block size in bytes.
Copy buffer size	Copy buffer size.	cbuf_size	 0 (zero) specifies HDF5 Library default value of 4KB. Default: 4096 (4KB) Unsigned integer specifying required copy buffer size in bytes. Default: 16777216 (16MB)
Family driver	Set/get use of "family of files" driver (H5FD_FAMILY).	H5Pset_fapl_family	
		<pre>H5Pget_fapl_family</pre>	
FAPL identifier		fapl_id	Valid FAPL identifier
Member size	Size of each member file.	memb_size	Default: No default value Unsigned integer specifying size, in bytes, of each member file.
Member file access property list identifier	One file access property list identifier to be used with all family members.	memb_fapl_id	Default: H5F FAMTI.Y DEFAULT 4 Valid file access property list identifier. Default: H5P DEFAULT 1

rty List Class Property Parameter(s) or Flag(s)	Additional Description Additional Description (where necessary)	Set/Get Call Parameter	Valid Values
HDF5 knobs that can be adjusted			
Log driver	Set up use of logging driver (H5FD_LOG). This is a standard POSIX driver (H5FD_SEC2) with logging capabilities.	H5Pset fapl log	
FAPL identifier		fapl_id	Valid FAPL identifier Default: No default value
Log file	Name of file in which logging entries are to be recorded.	logfile	Valid filename with relative or absolute path. Default: No default value
Logging flags	Flags specifying actions to be logged.	flags	Valid flag(s) for action(s) to be logged, as listed in H5Pset_fapl_log reference manual entry. Multiple flags expressed with logical OR and in parentheses. Default: No default value
Buffer size	Size of logging buffers.	buf_size	Unsigned integer specifying size, in bytes, of loggi buffers. Must be at least the maximum size, in bytes, of the file to be logged while the log driver is in use. Default: No default value
MPI I/O driver	Set/get use of MPI I/O driver (H5FD_MPIO). Available only in parallel HDF5.	H5Pset fapl mpio	
		<pre>H5Pget_fapl_mpio</pre>	
FAPL identifier		fapl_id	Valid FAPL identifier
			Default: No default value
MPI-2 communicator		comm	Valid MPI-2 communicator
MDI 21 C. III I	MPI communicator to be used for file open.	info	Default: No default value
MPI-2 Info object	MPI Info object to be used for file open.	11110	Valid MPI Info object Default: No default value
MPI POSIX driver (removed from HDF5	Set/get use of MPI POSIX driver (H5FD_MPIPOSIX). Removed from HDF5 ar Release 1.8.13.	H5Pset fapl mpiposix	Default. No default value
		H5Pget_fapl_mpiposix	
FAPL identifier		fapl_id	Valid FAPL identifier
MPI-2 communicator	MPI communicator to be used for file open.	comm	Default: No default value Valid MPI-2 communicator Default: No default value
Use of GPFS hints	Calls for use of GPFS hints.	use_gpfs_hints	Boolean value specifying whether to use GPFS hir 0 (zero) for FALSE 1 (one) for TRUE Default: 0

erty List Class Property Parameter(s) or Flag(s)	Additional Description Additional Description (where necessary)	Set/Get Call Parameter	Valid Values
HDF5 knobs that can be adjusted			
Multi driver	Set/get use of multi-file driver (H5FD_MULTI).	H5Pset_fapl_multi H5Pget_fapl_multi	
FAPL identifier		fapl_id	Valid FAPL identifier Default: No default value
Memory usage map	Map memory usage types to other memory usage types.	mem_map	Array of H5FD_MEM_NTYPES entries, each either to value H5FD_MEM_DEFAULT or a memory usage type Default: Array of H5FD_MEM_DEFAULT
Memory usage types property list	Property list for each memory usage type.	mem_fapl	Array of property list for each memory usage typ that will be associated with a file.
Name generator	Name generator for names of member files.	memb_name	Default: Array of HSP_DEFAULT 1 Array of printf-style strings, defined in the refere manual entry. Default: %s-X.h5
Virtual address space offsets	Offsets within the virtual address space at which each type of data storage begins.	memb_addr	Array of unsigned integers from 0 (zero) to HADDR_MAX. Default: 0 (zero)
Relaxed access	Allow read-only access to incomplete file sets.	relax	Boolean value specifying whether to allow read access to incomplete file sets: 0 (zero) for FALSE 1 (one) for TRUE Default: 0
Sec2 driver	Set up use of sec2 driver (H5FD_SEC2), HDF5's default default driver and its standard POSIX-compliant driver.	<pre>H5Pset_fapl_sec2</pre>	
FAPL identifier	·	fapl_id	Valid FAPL identifier Default: No default value
Split driver	Set up use of split driver (H5FD_SPLIT), a special case of the H5FD_MULTI driver.	H5Pset_fapl_split	
FAPL identifier		fapl_id	Valid FAPL identifier Default: No default value
Metadata file extension FAPL identifier for metadata file		<pre>meta_ext meta_plist_id</pre>	Valid string for use as filename extension. Default: No default value Valid file access property list identifier.
Raw data file extension		raw_ext	Default: H5P DEFAULT Valid string for use as filename extension. Default: No default value
FAPL identifier for raw data file		raw_plist_id	Valid file access property list identifier. Default: H5P DEFAULT 1

rty List Class Property Parameter(s) or Flag(s) HDF5 knobs that can be adjusted	Additional Description Additional Description (where necessary)	Set/Get Call Parameter	Valid Values
Standard I/O driver FAPL identifier	Set up use of standard I/O driver (H5FD_STDIO).	H5Pset fapl_stdio fapl id	Valid FAPL identifier
FAPL Identiller		Tapi_Iu	Default: No default value
STREAM driver (removed from HDF5 a	nd not to be included in table)	H5Pset_fapl_stream	
		H5Pget_fapl_stream	
Windows I/O driver	Set up use of default HDF5 I/O driver for Windows systems (H5FD_WINDOWS). Supported only on Windows systems and the only HDF5 driver tested on Windows systems.	H5Pset fapl windows	
FAPL identifier	,	fapl_id	Valid FAPL identifier Default: No default value
Offset for low-level access to file in family of files	Set offset of specific data in logical HDF5 file, enabling retrieval of file handle for relevant member of HDF5 family of files. Meaningful only if file is created as an HDF5 family of files (H5FD_FAMILY, H5Pset_fapl_family).	H5Pset family offset	
		H5Pget family offset	
FAPL identifier		fapl_id	Valid FAPL identifier Default: No default value
Offset within HDF5 file		offset	Unsigned integer specifying offset, in bytes, of dathat user seeks within logical HDF5 file. Default: No default value
Type of data to be accessed by multi driver	Set/get type of data to be accessed by H5FD_MULTI driver. Appropriate only with HDF5 files written as set of files with multi file driver, H5FD_MULTI.	H5Pset_multi_type	
		H5Pget_multi_type	
FAPL identifier		fapl_id	Valid FAPL identifier
Type of data	Type of data to be accessed. Specify exactly one: super block data, B-tree data, dataset raw data, global heap data, local heap data, or object header data.	type	Default: No default value H5D_MEM_SUPER H5D_MEM_BTREE H5D_MEM_DRAW H5D_MEM_GHEAP H5D_MEM_LHEAP H5D_MEM_OHDR

rty List Class Property Parameter(s) or Flag(s)	Additional Description Additional Description (where necessary)	Set/Get Call Parameter	Valid Values
HDF5 knobs that can be adjusted			
Core driver write tracking properties	Set/get core driver write tracking properties.	H5Pset core write tracking	
-, ,		<pre>H5Pget_core_write_tracking</pre>	
FAPL identifier		fapl_id	Valid FAPL identifier
			Default: No default value
Enable write tracking	Enable or disable write tracking.	is_enabled	1 (one) for ENABLED.
			0 (zero) for DISABLED.
			Default: 0
Write tracking page size	Page size.	page_size	Unsigned integer specifying page size in bytes.
			Preferably a power of 2.
			1 (one) forces tracking with no paging.
			Default: No default value
File image (core driver)	Set/get file image for working with a file in memory.	H5Pset_file_image	
		H5Pget file image	
FAPL identifier		fapl id	Valid FAPL identifier
2 100			Default: No default value
Buffer pointer	Pointer to initial file image.	buf ptr	Valid pointer to file image.
Daniel pointe.	Tomice to miliar me image.		NULL if no initial file image.
			Default: NULL
Buffer size	Size of supplied buffer.	buf len	Valid buffer size in bytes.
54	one or supplied surren	_	0 (zero) if no initial file image.
			Default: 0
File image callbacks (core driver)	Set/get callback functions for working with a file image in memory.	H5Pset file image callbacks	
		<pre>H5Pget_file_image_callbacks</pre>	
FAPL identifier		fapl_id	Valid FAPL identifier
			Default: No default value
Callbacks pointer		callbacks_ptr	Valid pointer to valid structure defining callback
	Pointer to instance of		functions.
	H5 file image callbacks tstructure.		Default: No default value

Property List Class

Property Parameter(s) or Flag(s) HDF5 knobs that can be adjusted	Additional Description Additional Description (where necessary)	Set/Get Call Parameter	Valid Values
HDF5 knobs that can be adjusted			
ect Creation Property Lists (OCPL)			
Track and index attribute creation order	Set/get tracking and indexing on attribute creation order.	<pre>H5Pset_attr_creation_order</pre>	
OCPL identifier		H5Pget attr creation order ocpl_id	Valid OCPL identifier
Creation order flags	Tracked or tracked-and-indexed	crt_order_flags	Default: No default value H5P_CRT_ORDER_TRACKED H5P_CRT_ORDER_INDEXED (Requires 'tracked'.) Default: Attribute creation order is neither tracked nor indexed.
Attribute storage phase change properties	Set/get attribute storage phase change thresholds.	H5Pset_attr_phase_change	
OCPL identifier		<pre>H5Pget attr phase change ocpl_id</pre>	Valid OCPL identifier Default: No default value
Maximum number for compact storage	Maximum number of links to store in compact storage before converting group to dense format.	max_compact	Any unsigned integer. 0 (zero) forces compact storage to always be used. Default: 8
Minimum number for dense storage	Minimum number of links to store in dense format before converting group to compact format.	min_dense	Any unsigned integer. Default: 6
Recording of times associated with object	Recording of times associated with object.	<pre>H5Pset_obj_track_times</pre>	
OCPL identifier		H5Pget obj track_times ocpl_id	Valid OCPL identifier
Track times	Track times associated with object.	track_times	Default: No default value TRUE Times are recorded. FALSE Times are not recorded. Default: FALSE

HDF5 knobs that can be adjusted

Property List Class

Property Additional Description

Parameter(s) or Flag(s) Additional Description (where necessary)

Set/Get Call Parameter **Valid Values**

Object Copy Property Lists (OCPYPL)

OCPYPL identifier

Object copy properties Set/get properties governing object copying.

Recursive copy.

Soft link expansion.

External link expansion.

Copying references.

Copying attributes.

H5Pset_copy_object
H5Pget copy object

ocpypl_id

Copy options Copy property settings.

copy_options

Valid flag(s) for copy property settings (below).

Multiple flags are expressed with logical OR and in

parentheses.

Default: See below

Valid OCPYPL identifier **Default: No default value**

H5O_COPY_SHALLOW_HIERARCHY_FLAG

Copy only immediate members of a group.

Default: Recursively copy all objects in and below

group.

 ${\tt H5O_COPY_EXPAND_SOFT_LINK_FLAG}$

Expand soft links into new objects.

Default: Copy soft links as unchanged soft links.

H5O_COPY_EXPAND_EXT_LINK_FLAG Expand external link into new objects.

Default: Copy external links as unchanged external

links.

H50 COPY EXPAND REFERENCE FLAG

Copy objects that are pointed to by references and

update reference values in destination file.

Default: Set reference values in destination file to

zero (0).

H5O_COPY_WITHOUT_ATTR_FLAG

Copy object without copying attributes.

Default: Copy object with all attributes.

Property Parameter(s) or Flag(s)	Additional Description Additional Description (where necessary)	Set/Get Call Parameter	Valid Values
HDF5 knobs that can be adjusted			
	Matching shared committed datatypes.		H5O_COPY_MERGE_COMMITTED_DTYPE_FLAG
			Use matching committed datatype in destination when copying committed datatype, dataset with committed datatype, or object with attribute of
			committed datatype.
			Default: If copied in single H5Ocopy operation, objects sharing committed datatype in source wi
			share anonymous committed datatype in
			destination copy. Subsequent H5Ocopy operation
			will be unaware of prior anonymous committed datatypes.
List of merged committed datatype	Add new path to list of paths in property list.	H5Padd merge committed dtype p	path.htm
paths OCPYPL identifier		ocpypl_id	Valid OCPYPL identifier
oci ii Eldelitillei		<u></u>	Default: No default value
Path to be added.		path	Valid path where matching committed datatypes of
			be found in destination copy.
	Remove list of paths from property list.	H5Pfree merge committed dtype	Default: No default value
OCPYPL identifier	Remove list of paths from property list.	ocpypl_id	Valid OCPYPL identifier
		_	Default: No default value
н50copy callback function	Set/get callback function for H5Ocopy to invoke before searching entire destination file for matching committed datatype.	H5Pset_mcdt_search_cb	
		H5Pget_mcdt_search_cb	
OCPYPL identifier		ocpypl_id	Valid OCPYPL identifier
		6	Default: No default value
User-defined н50сору callback function		func	Valid user-defined callback function. Default: No callback function
User-defined callback function		op_data	User-defined callback function data.
input data			Default: No input data

Property List Class Property Parameter(s) or Flag(s) HDF5 knobs that can be adjusted	Additional Description Additional Description (where necessary)	Set/Get Call Parameter	Valid Values
Link Creation Property Lists (LCPL)			
Character encoding	Set/get character encoding used for link and attribute names.	H5Pset_char_encoding	
		H5Pget_char_encoding	
LCPL identifier		lcpl_id	Valid LCPL or ACPL identifier
			Default: No default value
Character encoding		encoding	H5T_CSET_ASCII (US ASCII)
			H5T_CSET_UTF8 (UTF-8 Unicode)
			Default: H5T_CSET_ASCII
Create missing intermediate groups	Set/get create missing intermediate groups property when object is created at location that does not yet exist.	H5Pset create intermediate	group
		<pre>H5Pget_create_intermediate</pre>	group
LCPL identifier		lcpl_id	Valid LCPL identifier
			Default: No default value
Missing intermediate group	Flag specifying whether to create missing	crt_intermed_group	Positive value [ON]
creation flag	intermediate groups		Non-positive value [OFF]
			Default: OFF

Property List Class

Property Parameter(s) or Flag(s)	Additional Description Additional Description (where necessary)	Set/Get Call Parameter	Valid Values
HDF5 knobs that can be adjusted			
Link Access Property Lists (LAPL)			
External link traversal file access	Set/get file access settings in LAPL used to open	<pre>H5Pset_elink_acc_flags</pre>	
	files reached through external links. ³	H5Pget elink acc flags	
LAPL identifier		lapl id	Valid LAPL identifier
			Default: No default value
External link traversal file access	Flags for setting file access when traversing	flags	H5F ACC RDWR
flags	external links.		Open with read/write access.
			H5F_ACC_RDONLY
			Open with read-only access.
			H5F_ACC_DEFAULT
			File access flag settings taken from parent file.
			Default: H5F_ACC_DEFAULT
External link callback function	Set/get external link traversal callback function ³	H5Pset_elink_cb	
		H5Pget_elink_cb	
LAPL identifier		lapl_id	Valid LAPL identifier
Callbaals formation		func	Default: No default value
Callback function		Tune	User-defined external link traversal callback function. Default: No callback function
Callback data		op data	User-supplied data for callback function.
Camback data		o <u>p_</u> uuou	Default: No user-supplied data
FAPL for file accessed via external link	Set/get file access property list (FAPL) for use in	H5Pset elink fapl	Default. No user Supplied data
	accessing file pointed to by external link.		
LAPL identifier	,	lapl_id	Valid LAPL identifier
			Default: No default value
File access property list (FAPL) to		fapl_id	Valid FAPL identifier
use for files accessed through			Any file close degree property setting
external links			(H5Pset_fclose_degree) in this FAPL will be ignored
			Default: File access identifier from existing LAPL
		H5Pget_elink_fapl	
LAPL identifier		lapl_id	Valid LAPL identifier
			Default: No default value

Property	List Class
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Property Parameter(s) or Flag(s)	Additional Description Additional Description (where necessary)	Set/Get Call Parameter	Valid Values
HDF5 knobs that can be adjusted			
Prefix to be applied to external link	Set/get prefix to be applied to external link paths.	H5Pset_elink_prefix	
paths LAPL identifier		lapl id	Valid LAPL identifier
EAT E Identifier		14P1_14	Default: No default value
Prefix for external link paths		prefix	Valid file system path to be prepended to filename stored in external link. Default: No prefix
		H5Pget_elink_prefix	
LAPL identifier		lapl_id	Valid LAPL identifier Default: No default value
Prefix for external link paths		prefix	Valid file system path to be prepended to filename stored in external link. Default: No prefix
Size of prefix		size	Size of string specifying prefix, with NULL terminate Default: No default value
Maximum number of soft or UD link traversals	Set/get maximum number of allowed soft or user-defined link traversals.	H5Pset_nlinks	
		H5Pget_nlinks	
LAPL identifier		lapl_id	Valid LAPL identifier
			Default: No default value
Number of links	Maximum number of links that may be traversed.	nlinks	Unsigned integer specifying maximum number of allowed link traversals. Default: 16

perty List Class Property Parameter(s) or Flag(s)	Additional Description Additional Description (where necessary)	Set/Get Call Parameter	Valid Values
HDF5 knobs that can be adjusted			
up Creation Property Lists (GCPL)			
Number of links and size of link names	,0	<u>H5Pset_est_link_info</u>	
	names.		
	Accurate estimates will help reduce wasted file		
	space.	H5Pget est link info	
GCPL identifier		gcpl id	Valid GCPL identifier
GCI E Identinei		9-F- <u>-</u>	Default: No default value
Number of links	Estimated number of links to be inserted into	est_num_entries	Unsigned integer specifying expected number of links
	group.		Default: No default value
Length of link names	Estimated average length of link names.	est_num_len	Unsigned integer indicating expected average length
-			of link names, in characters.
			Default: No default value
Local heap size hint	Set/get anticipated maximum local heap size.	H5Pset local heap size hint	
		H5Pget local heap size hint	
GCPL identifier		gcpl_id	Valid GCPL identifier
6. 1		ataa biri	Default: No default value
Size hint	Anticipated maximum local heap size.	size_hint	Unsigned integer specifying anticipated maximum
			local heap size in bytes. 0 (zero) directs HDF5 Library to make reasonable
			estimate.
			Default: 88 bytes Estimate calculated by HDF5 Library
			Default. 00 bytes Estimate calculated by 1101 5 Library
Link creation order	Set/get tracking and indexing on link creation order.	H5Pset_link_creation_order	
		H5Pget link creation order	
GCPL identifier		gcpl_id	Valid GCPL identifier
			Default: No default value
Link creation order flags	Tracked or tracked-and-indexed.	crt_order_flags	H5P_CRT_ORDER_TRACKED
			H5P_CRT_ORDER_INDEXED (Requires 'tracked'.) Default: Link creation order is neither indexed nor tracked.

rty List Class Property Parameter(s) or Flag(s)	Additional Description Additional Description (where necessary)	Set/Get Call Parameter	Valid Values
HDF5 knobs that can be adjusted			
Link storage phase change	Set/get thresholds for conversion between compact and dense groups.	H5Pset link phase change	
		H5Pget_link_phase_change	
GCPL identifier		gcpl_id	Valid GCPL identifier
			Default: No default value
Maximum number for compact	Maximum number of links to store as header	max_compact	Unsigned integer specifying maximum number of
storage	messages in group header before converting		links for compact storage.
	group to dense format.		Default: 8
Minimum number for dense	Minimum number of links to store in dense	min_dense	Unsigned integer specifying minimum number of link
storage	format before converting group to compact		for dense storage.
	format.		Default: 6
Gzip compression	Set/get gzip compression and compression level.	H5Pset_deflate	
GCPL identifier		gcpl_id	Valid GCPL identifier
			Default: No default value
Compression level	Desired compression level .	level	Unsigned integer 0 (zero) through 9:
	Setting compression level to 0 (zero) does not		0 No compression.
	turn off use of gzip filter, but sets filter to		1 Best compression speed; least compression.
	perform no compression as it processes the		2 through 8 Compression improves; speed slows.
	data.		9 Best compression ratio; slowest speed.
<u> </u>		757 + 61 + 1 - 00	Default: No default value
Fletcher32 error detection (checksum)	Set/get checksum error detection (Fletcher32)	H5Pset_fletcher32	Valid CCDI identifica
GCPL identifier		gcpl_id	Valid GCPL identifier
			Default: No default value

operty List Class Property Parameter(s) or Flag(s)	Additional Description Additional Description (where necessary)	Set/Get Call Parameter	Valid Values
HDF5 knobs that can be adjusted			
ataset Creation Property Lists (DCPL			
Allocation time	Set/get time at which to allocate dataset storage.	<pre>H5Pset_alloc_time</pre>	
		H5Pget alloc time	
DCPL identifier		dcpl_id	Valid DCPL identifier
Allocation time		alloc_time	Default: No default value H5D_ALLOC_TIME_EARLY H5D_ALLOC_TIME_INCR H5D_ALLOC_TIME_LATE H5D_ALLOC_TIME_DEFAULT
Chunk size	Set/get chunk size.	H5Pset chunk	Default: H5D_ALLOC_TIME_DEFAULT
Churik Size	Set/get chunk size.	H5Pget chunk	
DCPL identifier		dcpl id	Valid DCPL identifier
DCFL Identifier		dcpi_id	Default: No default value
Number of dimensions for each		ndims	Number of dimensions in array dim.
chunk		патив	Must match rank of dataset.
CHUIIK			Default: No default value
Array specifying chunk size		dim	Unsigned integer array defining chunk size in each
Array specifying churk size		din.	dimension, in dataset elements.
			Default: No default value
External storage and external file	Set/get external storage property and add file to list	H5Pset external	Delault. No delault value
names	of external files.		
	First call sets external storage property and adds		
	first file to list of external files. Subsequent calls add		
	file as next file in list.		
DCPL identifier	, , , , , , , , , , , , , , , , , , , ,	dcpl id	Valid DCPL identifier
20. 2.00			Default: No default value
External file name	Name of external file.	name	Name of external file.
			Default: No default value
Data offset	Offset in file to beginning of data.	offset	Unsigned integer specifying offset, in bytes, from
	5 5		beginning of file to data location.
			If passed as NULL in 'get' call, value is not returned
			Default: No default value
Bytes reserved	Number of bytes reserved for data.	size	Unsigned integer specifying number of bytes reserv
			in external file for data.

If passed as NULL in 'get' call, value is not returned.

Default: No default value

rty List Class			
Property Parameter(s) or Flag(s)	Additional Description Additional Description (where necessary)	Set/Get Call Parameter	Valid Values
HDF5 knobs that can be adjusted	Additional Description (where necessary)	rarameter	
,		H5Pget external	
DCPL identifier		dcpl id	Valid DCPL identifier
DCPL identifier		dcp1_1d	Default: No default value
External file index		idx	Value from 0 (zero) to $N-1$, where N is the value
External file index		Idx	• • •
			returned by H5Pget_external_count. Default: No default value
External file name langth		name size	
External file name length		name_size	Length of name of external file.
			If passed as 0 (zero), value is not returned. Default: No default value
External file name	Name of external file.		Name of external file.
External file name	Name of external file.	name	Name of external file.
Data offset	Offset in file to beginning of data.	offset	Unsigned integer specifying offset, in bytes, from
2414 5.1551	5 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		beginning of file to data location.
			If passed as NULL in 'get' call, value is not returne
			Default: No default value
Bytes reserved	Number of bytes reserved for data.	size	Unsigned integer specifying number of bytes reser
,			in external file for data.
			If passed as NULL in 'get' call, value is not returned
			Default: No default value
Retrieve number of external files	Retrieve number of external files associated with a	<pre>H5Pget_external_count</pre>	Number of external files returned in function retu
	dataset.		value.
DCPL identifier		dcpl_id	Valid DCPL identifier
			Default: No default value
Dataset layout	Set/get dataset layout.	H5Pset_layout	
DCPL identifier		dcpl_id	Valid DCPL identifier
			Default: No default value
Layout	Flag specifying compact, contiguous, or	layout	H5D_COMPACT
	chunked storage layout.		H5D_CONTIGUOUS H5D_CHUNKED
			Default: H5D_CONTIGUOUS
		H5Pget layout	Layout returned as H5Pget layout return value
DCPL identifier		dcpl id	Valid DCPL identifier
DCI L'IUEITUITEI		20p1_14	Default: No default value
			Delault: NO delault value

rty List Class Property Parameter(s) or Flag(s)	Additional Description Additional Description (where necessary)	Set/Get Call Parameter	Valid Values
HDF5 knobs that can be adjusted			
Fill time	Set/get timing for writing fill values to data.	H5Pset_fill_time	
		<pre>H5Pget_fill_time</pre>	
DCPL identifier		dcpl_id	Valid DCPL identifier
			Default: No default value
Fill time	Time at which to write fill values.	fill_time	H5D_FILL_TIME_IFSET H5D_FILL_TIME_ALLOC H5D_FILL_TIME_NEVER
			Default: H5D_FILL_TIME_IFSET
Fill value	Set/get value to be used for fill value in data.	H5Pset_fill_value	
· · ·		H5Pget_fill_value	
DCPL identifier		dcpl_id	Valid DCPL identifier
			Default: No default value
Fill value datatype		type_id	Valid datatype identifier for suitable datatype.
			Datatype may differ from dataset datatype, but HD
			must be able to convert value to dataset datatype a
			dataset creation.
Fill value		value	Default: Dataset datatype specified at creation Valid pointer to buffer containing desired value.
riii value		varue	Default: 0 (zero)
Gzip compression	Set gzip compression (H5Z_FILTER_DEFLATE) and	<u>H5Pset_deflate</u>	. ,
	compression level.		
DCPL identifier		dcpl_id	Valid DCPL identifier
		11	Default: No default value
Compression level	Desired compression level .	level	Unsigned integer 0 (zero) through 9:
	Setting compression level to 0 (zero) does not		0 No compression.
	turn off use of gzip filter, but sets filter to perform no compression as it processes the		1 Best compression speed; least compression.2 through 8 Compression improves; speed slows.
	data.		9 Best compression ratio; slowest speed.
	autu.		Default: No default value
Fletcher32 error detection (checksum)	Set checksum error detection	H5Pset_fletcher32	Delault. 140 delault value
,	(H5Z FILTER FLETCHER32).		
DCPL identifier	_ _ ,	dcpl_id	Valid DCPL identifier
		_	Default: No default value
N-bit filter	Set up use of n-bit filter (H5Z_FILTER_NBIT).	<u> H5Pset_nbit</u>	
DCPL identifier		dcpl_id	Valid DCPL identifier
			Default: No default value

rty List Class Property Parameter(s) or Flag(s) HDF5 knobs that can be adjusted	Additional Description Additional Description (where necessary)	Set/Get Call Parameter	Valid Values
Scale-offset filter	Set up use of scale-offset filter (H5z_FILTER_SCALEOFFSET). Risk of unintentional lossy compression; see reference manual entry.	H5Pset_scaleoffset	
DCPL identifier		dcpl_id	Valid DCPL identifier Default: No default value
Compression method		scale_type	H5Z_SO_FLOAT_DSCALE H5Z_SO_INT Default: No default value
Scale factor		scale_factor	H5Z_SO_FLOAT_DSCALE H5Z_SO_INT H5Z_SO_INT_MINBITS_DEFAULT Default: No default value
Shuffle filter	Set up use of shuffle filter (H5Z_FILTER_SHUFFLE).	H5Pset shuffle	
DCPL identifier		dcpl_id	Valid DCPL identifier
			Default: No default value
SZIP filter	Set up use of SZIP filter (H5Z_FILTER_SZIP). Review "Limitations" section in RM entry before using.	H5Pset szip	
DCPL identifier		dcpl_id	Valid DCPL identifier Default: No default value
Entropy coding or nearest neighbor coding as an unsigned integer bit mask		${\sf options_mask}$	Unsigned integer bit mask specifying one of: H5_SZIP_EC_OPTION_MASK H5_SZIP_NN_OPTION_MASK Default: No default value
Number of data elements (pixels ²)		pixels_per_block	Unsigned integer specifying number of data elemen
per compression block			(pixels ²) per block. Even integer greater than 0 and not exceeding 32. Default: No default value
Number of filters associated with DCPL	Query number of filters set on a dataset creation property list (DCPL). Number of filters returned in function return value.	<pre>H5Pget_nfilters</pre>	Number of filters returned as function return value
DCPL identifier		dcpl_id	Valid DCPL identifier Default: No default value

Property List Class Property Parameter(s) or Flag(s)	Additional Description Additional Description (where necessary)	Set/Get Call Parameter	Valid Values
HDF5 knobs that can be adjuste	d		
Dataset Access Property Lists (DCPL)			
Raw data chunk cache (RDCC) properties	Set/get chunk cache properties on per-dataset basis.	H5Pset_chunk_cache	
		H5Pget_chunk_cache	
DAPL identifier		dapl_id	Valid DAPL identifier
Number of elements in RDCC	Number of chunk slots in RDCC for this dataset.	rdaa nelote	Default: No default value
Number of elements in RDCC	Number of Charles slots in RDCC for this dataset.	rdcc_nslots	Non-negative integer. If passed as NULL in 'get' call, value is not returned.
			Default: 521
Total size of RDCC	Total size of RDCC for this dataset.	rdcc_nbytes	Non-negative integer stating size in bytes.
			If passed as NULL in 'get' call, value is not returned. Default: 1024
Preemption policy	Chunk preemption policy for this dataset.	rdcc_w0	Real number between 0 (zero) and 1 (one), inclusive.
			If passed as NULL in 'get' call, value is not returned.
			Default: 0.75

Property List Class

Property Additional Description Set/Get Call Valid Values
Parameter(s) or Flag(s) Additional Description (where necessary) Parameter

HDF5 knobs that can be adjusted

Btree ratios	Set/get B-tree split ratios.	H5Pset_btree_ratios	
	, ,	H5Pget btree ratios	
DXPL identifier		dxpl_id	Valid DXPL identifier
			Default: No default value
Left-most nodes	Split ratio for left-most node at a level.	left	Real number between 0 (zero) and 1 (one), inclusiv
			Default: 0.1
Right-most nodes	Split ratio for right-most node at a level.	middle	Real number between 0 (zero) and 1 (one), inclusiv
			Default: 0.5
All other nodes	Split ratio for all other nodes at a level.	right	Real number between 0 (zero) and 1 (one), inclusiv
			Default: 0.9
Buffer properties	Set/get type conversion and background buffers.	<pre>H5Pset_buffer</pre>	
DXPL identifier		dxpl_id	Valid DXPL identifier
			Default: No default value
Size of buffer		size	Must be large enough to accommodate complete
			slice that encompasses all but first dimension.
			Default: 1MB
Conversion buffer		tconv	Valid void pointer to conversion buffer.
			Default: No conversion buffer
Background buffer		bkg	Valid void pointer to background buffer.
			Default: No background buffer
		<pre>H5Pget_buffer</pre>	
DXPL identifier		dxpl_id	Valid DXPL identifier
			Default: No default value
Conversion buffer		tconv	Valid void pointer to conversion buffer.
			Default: No conversion buffer
Background buffer		bkg	Valid void pointer to background buffer.
-			Default: No background buffer

rty List Class Property Parameter(s) or Flag(s) HDF5 knobs that can be adjusted	Additional Description Additional Description (where necessary)	Set/Get Call Parameter	Valid Values
Data transform expression	Set/get transform expression to be used upon reading a dataset. Null-terminated string containing an algebraic expression, such as '(5/9.0)*(x-32)' or 'x*(x-5)'.	<u>H5Pset data transform</u>	
DXPL identifier		dxpl_id	Valid DXPL identifier
			Default: No default value
Transform expression		expression	Valid pointer to buffer containing transform
	Pointer to null-terminated data transform		expression.
	expression.	H5Pget data transform	Default: No transform expression
DXPL identifier		dxpl id	Valid DXPL identifier
DAPL Identifier		dxp1_1d	Default: No default value
Transform expression		expression	Valid pointer to buffer containing transform
Transform expression			expression.
			Default: No transform expression
Size of transform expression		size	Size in bytes of transform expressioin to copy to.
·			Default: No default value
Data transfer mode (application level)	Set/get collective or independent I/O mode with MPI at application level.	H5Pset_dxpl_mpio	
		<pre>H5Pget_dxpl_mpio</pre>	
DXPL identifier		dxpl_id	Valid DXPL identifier
			Default: No default value
Transfer mode flag		xfer mode	H5FD_MPIO_INDEPENDENT (Independent I/C
			H5FD_MPIO_COLLECTIVE (Collective I/O)
D) C : (C HDEE : 1 L C H 1;	TERROL don't wait and action	Default: H5FD_MPIO_INDEPENDENT
Data transfer mode (internally in HDF5) Set flag for HDF5-internal use of collective or independent I/O.	H5Pset dxpl mpio collective	<u>opt</u>
	For use only when H5FD_MPIO_COLLECTIVE has been set (H5Pset_dxpl_mpio).		
DXPL identifier		dxpl_id	Valid DXPL identifier Default: No default value
Optimization flag		opt_mode	H5FD_MPIO_INDEPENDENT_IO (Independent I, H5FD_MPIO_COLLECTIVE_IO (Collective I/O) Default: H5FD_MPIO_COLLECTIVE_IO

rty List Class Property	Additional Description	Set/Get Call	Valid Values
Parameter(s) or Flag(s)	Additional Description (where necessary)	Parameter	-
HDF5 knobs that can be adjusted			
Linked-chunk and multi-chunk I/O	Set linked-chunk I/O or multi-chunk I/O.	H5Pset_dxpl_mpio_chunk_opt	
DXPL identifier		dxpl_id	Valid DXPL identifier
			Default: No default value
Optimization flag		opt_mode	H5FD_MPIO_CHUNK_ONE_IO
			Single linked-chunk operation.
			H5FD_MPIO_CHUNK_MULTI_IO
			Multi-chunk operation.
			Default: Selected by HDF5 Library
Linked-chunk I/O threshold count	Set threshold count over which linked-chunk I/O is to be performed.	H5Pset_dxpl_mpio_chunk_opt_nur	<u>n</u>
DXPL identifier		dxpl_id	Valid DXPL identifier
			Default: No default value
Numeric threshold	Numeric threshold for performing linked-chunk I/O.	num_chunk_per_proc	Unsigned integer specifying count threshold. Default: No default value
Linked-chunk I/O threshold ratio	Set threshold ratio over which linked-chunk I/O is to be performed.	H5Pset dxpl mpio chunk opt rat	t <u>io</u>
DXPL identifier		dxpl_id	Valid DXPL identifier
			Default: No default value
Percent threshold	Percent threshold for performing linked-chunk I/O.	<pre>percent_chunk_per_proc</pre>	Unsigned integer, between 0 (zero) and 100 inclusives specifying percent threshold. Default: No default value
Multi driver for I/O access	Set/get use of multi-file driver (H5FD_MULTI) for	H5Pset_dxpl_multi	
	each memory usage type.		
	Requires that H5FD_MULTI driver be set		
	(H5Pset_fapl_multi)		
		<pre>H5Pget_dxpl_multi</pre>	
DXPL identifier		dxpl_id	Valid DXPL identifier
			Default: No default value
Member file DXPLs	Array of data access property lists.	memb_dxpl	Array of dataset access property lists per memory type. Default: H5P DEFAULT for each element
			Delault. HDF_DEFAULT IUI each element

erty List Class Property Parameter(s) or Flag(s) HDF5 knobs that can be adjusted	Additional Description Additional Description (where necessary)	Set/Get Call Parameter	Valid Values
Checksum error checking	Enable or disable error detection (Fletcher32 checksum) when reading data. Requires that error checking is set (H5Pset_fletcher32).	H5Pset edc check	
DXPL identifier	_	dxpl_id	Valid DXPL identifier Default: No default value
Enable/Disable flag	Flag specifying whether to enable or disable error detection.	check	H5Z_ENABLE_EDC H5Z_DISABLE_EDC Default: H5Z_ENABLE_EDC
DXPL identifier		<u>H5Pget_edc_check</u> dxpl_id	Setting returned in function return value. Valid DXPL identifier Default: No default value
Filter callback function	Set user-defined filter callback function.	H5Pset_filter_callback	
DXPL identifier		dxpl_id	Valid DXPL identifier Default: No default value
User-defined filter callback function		func	Valid user-defined callback function. Default: No user-defined callback function
User-defined callback function input data		op_data	User-defined callback function data. Default: No user-defined input data
Number of I/O vectors for hyperslab I/O	Set/get number of I/O vectors to accumulate before being issued for lower-level I/O	H5Pset hyper vector size	
		<pre>H5Pget_hyper_vector_size</pre>	
DXPL identifier		dxpl_id	Valid DXPL identifier Default: No default value
Number of vectors to accumulate	Number of I/O vectors to accumulate in memory before issuing for lower-level reading or writing of actual data.	vector_size	Number of I/O vectors to accumulate in memory fo I/O operations. Must be greater than 1 (one). Default: 1024
Preserve status of partial compound type writes	Preserve read or write status when destination compound datatypes are partially initialized. Functions deprecated because this status is now always preserved.	H5Pset_preserve	
DXPL identifier		dxpl_id	Valid DXPL identifier Default: No default value
Status		status	TRUE Status preserved. FALSE Status not preserved. Default: FALSE

Property	Additional Description	Set/Get Call	Valid Values
Parameter(s) or Flag(s)	Additional Description (where necessary)	Parameter	
HDF5 knobs that can be adjuste	ed		

		H5Pget preserve	
DXPL identifier		dxpl_id	Valid DXPL identifier
			Default: No default value
Datatype conversion callback function	Set/get datatype conversion callback function.	H5Pset_type_conv_cb	
		<pre>H5Pget_type_conv_cb</pre>	
DXPL identifier		dxpl_id	Valid DXPL identifier
			Default: No default value
User-defined datatype conversion		func	Valid user-defined callback function.
callback function			Default: No user-defined callback function
User-provided data for callback		op_data	User-defined callback function data.
function			Default: No user-defined input data
Memory manager for VL datatype	Set/get memory manager for variable-length (VL)	H5Pset_vlen_mem_manager	
allocation	datatype allocation.		
		H5Pget_vlen_mem_manager	
DXPL identifier		dxpl_id	Valid DXPL identifier
			Default: No default value
User-defined allocation routine		alloc	User-defined allocation routine.
			NULL for system malloc.
			Default: No user-defined allocation routine
Extra parameter that wil be passed	d	alloc_info	Extra parameter to be passed to allocation routine.
to user-defined allocation routine			Ignored if routine is NULL.
			Default: No suppementary data
User-defined free routine		free	User-defined free routine.
			NULL for system free.
			Default: No user-defined free routine
Extra parameter that will be		free_info	Extra parameter to be passed to free routine.
passed to user-defined free			Ignored if routine is NULL.
routine			Default: No supplementary data

Property List Class

Property Additional Description Set/Get Call Valid Values
Parameter(s) or Flag(s) Additional Description (where necessary) Parameter

HDF5 knobs that can be adjusted

Character encoding

Set/get character encoding used for link and attribute names.

H5Pset_char_encoding

ACPL identifier

ACPL identifier

Character encoding

Character encoding

Character encoding

Encodin

Default: H5T CSET ASCII

Footnotes

- 1 H5P_DEFAULT is HDF5's default property list for the appropriate class. For example, in a file access property list (FAPL) context, H5P_DEFAULT would represent the default FAPL.
- 2 Pixel is SZIP terminology referring, in this context, to an HDF5 data element.
- 3 An external link traversal callback function set by H5Pset_elink_cb can override access settings from
- 4 ${\tt H5F_FAMILY_DEFAULT}$ is the default size of member files for the family driver.

Property List Class

Property Additional Description Set/Get Call Valid Values
Parameter(s) or Flag(s) Additional Description (where necessary) Parameter

HDF5 knobs that can be adjusted

Development notes (Delete before publication)

H5Pset_scale_offset: The parameter value H5Z_SO_FLOAT_ESCALE is not implemented.

H5Pget_sizes: Will "Normally 8 bytes" change when address space changes (anticipated for 1.10)?

H5Pset_fapl_log: In "Maximum size, in bytes, of the file to be logged", is that the size of the 'logfile' or of the file being accessed?

H5Pset_fapl_multi: Deprecation status?

H5Pset_fapl_split: "

H5Pset_dxpl_multi:

H5Pset_multi_type:

H5Pset_fapl_multi: Need help with what to say for this function (or its parameters).

For the above MULTI driver functions, should we say they're deprecated (the very miniumum) or just not include them at all?

And should the STREAM driver properties be listed?

In both cases, the issue is that while these functions are no longer in the library, users may continue to run across files containing obects written with the properties.