H5P_GET_FILTER_BY_ID1

H5P_GET_FILTER_BY_ID1

Returns information about the specified filter

This function is renamed from H5P_GET_FILTER_BY_ID and deprecated in favor of the function H5P_GET_FILTER_BY_ID2 or the new macro H5P_GET_FILTER_BY_ID.

Procedure:

H5P_GET_FILTER_BY_ID1 (plist_id, filter_id, flags, cd_nelmts, cd_values, namelen, name)

Signature:

```
herr_t H5Pget_filter_by_id1(
          hid_t plist_id,
          H5Z_filter_t filter_id,
          unsigned int *flags,
          size_t *cd_nelmts,
          unsigned int cd_values[],
          size_t namelen,
          char name[]
          )
```

```
SUBROUTINE h5pget_filter_by_id_f(prp_id, filter_id, flags, cd_nelmts,
                                 cd_values, namelen, name, hdferr)
  IMPLICIT NONE
  INTEGER(HID_T), INTENT(IN) :: prp_id      ! Property list identifier
  INTEGER, INTENT(IN)        :: filter_id   ! Filter identifier
  INTEGER(SIZE_T), INTENT(INOUT)    :: cd_nelmts
                                            ! Number of elements in cd_values
  INTEGER, DIMENSION(*), INTENT(OUT) :: cd_values
                                            ! Auxiliary data for the filter
  INTEGER, INTENT(OUT)       :: flags       ! Bit vector specifying certain
                                            ! general properties of the filter
  INTEGER(SIZE_T), INTENT(IN)  :: namelen   ! Anticipated number of characters
                                            ! in name
  CHARACTER(LEN=*), INTENT(OUT) :: name     ! Name of the filter
  INTEGER, INTENT(OUT)       :: hdferr      ! Error code
                                            ! 0 on success and -1 on failure
END SUBROUTINE h5pget_filter_by_id_f
```

Parameters:

hid_t plist_id	IN: Dataset or group creation property list identifier
H5Z_filter_t filter_id	IN: Filter identifier
unsigned int *flags	OUT: Bit vector specifying certain general properties of the filter
size_t *cd_nelmts	IN/OUT: Number of elements in cd_values
unsigned int *cd_values	OUT: Auxiliary data for the filter
size_t namelen	IN: Length of filter name and number of elements in name[]
char name[]	OUT: Name of filter

Description:

H5P_GET_FILTER_BY_ID1 returns information about the filter specified in filter_id, a filter identifier.

plist_id must be a dataset or group creation property list and filter_id must be in the associated filter pipeline.

The filter_id and flags parameters are used in the same manner as described in the discussion of H5P_SET_FILTER.

Aside from the fact that they are used for output, the parameters cd_nelmts and cd_values[] are used in the same manner as described in the discussion of H5P_SET_FILTER. On input, the cd_nelmts parameter indicates the number of entries in the cd_values[] array allocated by the calling program; on exit it contains the number of values defined by the filter.

On input, the namelen parameter indicates the number of characters allocated for the filter name by the calling program in the array name[]. On exit name[] contains the name of the filter with one character of the name in each element of the array.

If the filter specified in filter_id is not set for the property list, an error will be returned and H5P_GET_FILTER_BY_ID1 will fail.

Returns:

Returns a non-negative value if successful; otherwise returns a negative value.

History:

Release	Change
1.6.0	Function introduced in this release.

1.8.0	Function `H5T_GET_FILTER_BY_ID` renamed to `H5T_GET_FILTER_BY_ID1` and deprecated in this release.
1.8.5	Function extended to work with group creation property lists.

--- Last Modified: August 07, 2019 | 11:22 AM