

H5P_GET_FILL_VALUE

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H5P_GET_FILL_VALUE

Retrieves a dataset fill value

Procedure:

H5P_GET_FILL_VALUE (plist_id, type_id, value)

Signature:

```
herr_t H5Pget_fill_value(  
    hid_t plist_id,  
    hid_t type_id,  
    void *value  
)
```

Fortran90 Interface: h5pget_fill_value_f

Signature:

```
SUBROUTINE h5pget_fill_value_f(prp_id, type_id, fillvalue, hdferr)
  INTEGER(HID_T), INTENT(IN)  :: prp_id
  INTEGER(HID_T), INTENT(IN)  :: type_id
  TYPE(VOID)                  , INTENT(OUT) :: fillvalue
  INTEGER                      , INTENT(OUT) :: hdferr
```

Inputs:

prp_id - Property list identifier
type_id - Datatype identifier of fill value datatype (in memory)

Outputs:

fillvalue - Fillvalue
hdferr - Returns 0 if successful and -1 if fails

Fortran2003 Interface: h5pget_fill_value_f

Signature:

```
SUBROUTINE h5pget_fill_value_f(prp_id, type_id, fillvalue, hdferr)
  INTEGER(HID_T), INTENT(IN)  :: prp_id
  INTEGER(HID_T), INTENT(IN)  :: type_id
  TYPE(C_PTR)                  , INTENT(OUT) :: fillvalue
  INTEGER                      , INTENT(OUT) :: hdferr
```

Inputs:

prp_id - Property list identifier
type_id - Datatype identifier of fill value datatype (in memory)

Outputs:

fillvalue - Fillvalue
hdferr - Returns 0 if successful and -1 if fails

Parameters:

<i>hid_t</i> plist_id	IN: Dataset creation property list identifier
<i>hid_t</i> type_id	IN: Datatype identifier for the value passed via value
<i>void</i> *value	OUT: Pointer to buffer to contain the returned fill value

Description:

H5P_GET_FILL_VALUE returns the dataset fill value defined in the dataset creation property list `plist_id`.

The fill value is returned through the `value` pointer and will be converted to the datatype specified by `type_id`. This datatype may differ from the fill value datatype in the property list, but the HDF5 library must be able to convert between the two datatypes.

If the fill value is undefined, i.e., set to `NULL` in the property list, `H5P_GET_FILL_VALUE` will return an error. `H5P_FILL_VALUE_DEFINED` should be used to check for this condition before `H5P_GET_FILL_VALUE` is called.

Memory must be allocated by the calling application.

H5P_GET_FILL_VALUE is designed to coordinate with the dataset storage allocation time and fill value write time properties, which can be retrieved with the functions `H5P_GET_ALLOC_TIME` and `H5P_GET_FILL_TIME`, respectively.

Returns:

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

Example:
Coming Soon!

History:

Release	Change
1.8.8	Fortran updated to Fortran2003.

--- Last Modified: August 07, 2019 | 10:29 AM