

H5A_CREATE2

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H5A_CREATE2

Creates an attribute attached to a specified object

Procedure:

H5A_CREATE2 (loc_id, attr_name, type_id, space_id, acpl_id, aapl_id)

Signature:

```
hid_t H5Acreate2(  
    hid_t loc_id,  
    const char *attr_name,  
    hid_t type_id,  
    hid_t space_id,  
    hid_t acpl_id,  
    hid_t aapl_id  
)
```

Fortran90 Interface: h5acreate_f

```
SUBROUTINE h5acreate_f(loc_id, name, type_id, space_id, attr_id, hdferr, &
                      acpl_id, aapl_id )
  IMPLICIT NONE
  INTEGER(HID_T), INTENT(IN) :: loc_id      ! Object identifier
  CHARACTER(LEN=*), INTENT(IN) :: name     ! Attribute name
  INTEGER(HID_T), INTENT(IN) :: type_id    ! Attribute datatype identifier
  INTEGER(HID_T), INTENT(IN) :: space_id   ! Attribute dataspace identifier
  INTEGER(HID_T), INTENT(OUT) :: attr_id   ! Attribute identifier
  INTEGER, INTENT(OUT) :: hdferr           ! Error code:
                                           ! 0 on success and -1 on failure
  INTEGER(HID_T), OPTIONAL, INTENT(IN) :: acpl_id
                                           ! Attribute creation property
                                           ! list identifier
  INTEGER(HID_T), OPTIONAL, INTENT(IN) :: aapl_id
                                           ! Attribute access property
                                           ! list identifier
END SUBROUTINE h5acreate_f
```

Parameters:

<i>hid_t</i> loc_id	IN: Location or object identifier The identifier may be a file, group, dataset, or named datatype. If loc_id is a file identifier, the attribute will be attached to that file's root group.
<i>const char *</i> attr_name	IN: Attribute name
<i>hid_t</i> type_id	IN: Attribute datatype identifier
<i>hid_t</i> space_id	IN: Attribute dataspace identifier
<i>hid_t</i> acpl_id	IN: Attribute creation property list identifier (Currently not used; specify H5P_DEFAULT)
<i>hid_t</i> aapl_id	IN: Attribute access property list identifier (Currently not used; specify H5P_DEFAULT)

Description:

H5A_CREATE2 creates an attribute, attr_name, which is attached to the object specified by the identifier loc_id.

The attribute name, attr_name, must be unique for the object.

The attribute is created with the specified datatype and dataspace, type_id and space_id, which are created with the H5T and H5S interfaces, respectively.

If type_id is either a fixed-length or variable-length string, it is important to set the string length when defining the datatype. String datatypes are derived from H5T_C_S1 (or H5T_FORTRAN_S1 for Fortran), which defaults to 1 character in size. See [H5T_SET_SIZE](#) and [Creating variable-length string datatypes](#).

The access property list is currently unused, but will be used in the future. This property list should currently be H5P_DEFAULT.

The attribute identifier returned by this function must be released with [H5A_CLOSE](#) or resource leaks will develop.

Returns:

Returns an attribute identifier if successful; otherwise returns a negative value.

Example:

```
examples / h5_crtatt.c [44:45] 1.10/master HDFV/hdf5  
attribute_id = H5Acreate2 (dataset_id, "Units", H5T_STD_I32BE, dataspace_id,  
                           H5P_DEFAULT, H5P_DEFAULT);
```

```
fortran / examples / h5_crtatt.f90 [76:76] 1.10/master HDFV/hdf5  
CALL h5acreate_f(dset_id, aname, atype_id, aspace_id, attr_id, error)
```

History:

Release	Change
1.8.0	C function introduced in this release.

--- Last Modified: January 27, 2020 | 09:24 AM