H5R_GET_OBJ_NAME

Expand all Collapse all

- Jump to ...
- Summary
- Description
- Example
- Switch language ...
- C
- C++
- FORTRAN
- JAVA

Summary
Description
Example
JAVA
FORTRAN
C++
C

H5R_GET_OBJ_NAME

Retrieves the object name for a referenced object

Procedure:

H5R_GET_OBJ_NAME (ref_ptr, rapl_id, name, size)

Signature:

```
ssize_t H5Rget_obj_name ( const H5R_ref_t *ref_ptr, hid_t rapl_id, char *name, size_t size )
```

Parameters:

const H5R_ref_t * `ref_ptr`	IN: Pointer to reference to query. *H5R_ref_t* is defined in `H5Rpublic.h` as: `typedef unsigned char H5R_ref_t[H5R_REF_BUF_SIZE];`
hid_t `rapl_id`	IN: Valid reference access property list identifier
char * `name`	IN/OUT: A buffer to place the object name of the reference
size_t `size`	IN: The size of the name buffer

Description:

H5R_GET_OBJ_NAME retrieves the object name for the object, region or attribute reference pointed to by `ref_ptr`.

The parameter `rapl id` is a reference access property list identifier for the reference. The access property list can be used to access external files that the reference points to (through a file access property list).

Up to `size` characters of the name are returned in `name`; additional characters, if any, are not returned to the user application. If the length of the name, which determines the required value of `size`, is unknown, a preliminary H5R_GET_OBJ_NAME call can be made. The return value of this call will be the size of the object name. That value can then be assigned to `size` for a second H5R_GET_OBJ_NAME call, which will retrieve the actual name. If there is no name associated with the object identifier or if the name is NULL, H5R_GET_OBJ_NAME returns the size of the name buffer (the size does not include the NULL terminator).

If `ref_ptr` is an object reference, `name` will be returned with a name for the referenced object. If `ref_ptr` is a dataset region reference, `name` wi ll contain a name for the object containing the referenced region. If `ref_ptr` is an attribute reference, `name` will contain a name for the object the attribute is attached to. Note that an object in an HDF5 file may have multiple paths if there are multiple links pointing to it. This function may return any one of these paths.

Returns:

Returns the length of the name if successful, returning 0 (zero) if no name is associated with the identifier. Otherwise returns a negative value.

Example:

None

History:

Release	Change
1.12.0	C function was introduced in this release.

--- Last Modified: November 14, 2019 | 09:38 AM