

# H5L\_COPY

[Expand all](#) [Collapse all](#)

- [Jump to ...](#)
- [Summary](#)
- [Description](#)
- [Example](#)
- [Switch language ...](#)
- [C](#)
- [C++](#)
- [FORTRAN](#)
- [JAVA](#)

[Summary](#)  
[Description](#)  
[Example](#)  
[JAVA](#)  
[FORTRAN](#)  
[C++](#)  
[C](#)

# H5L\_COPY

Copies a link from one location to another

## Procedure:

H5L\_COPY(src\_loc\_id, src\_name, dest\_loc\_id, dest\_name, lcpl\_id, lapl\_id)

## Signature:

```
herr_t H5lcopy( hid_t src_loc_id, const char *src_name, hid_t dest_loc_id, const char *dest_name, hid_t
lcpl_id, hid_t lapl_id )
```

```
SUBROUTINE h5lcopy_f(src_loc_id, src_name, dest_loc_id, dest_name, hdferr, &
lcpl_id, lapl_id)
```

```
IMPLICIT NONE
INTEGER(HID_T), INTENT(IN) :: src_loc_id
! Location identifier of the source link
CHARACTER(LEN=*), INTENT(IN) :: src_name
! Name of the link to be copied
INTEGER(HID_T), INTENT(IN) :: dest_loc_id
! Location identifier specifying the
! destination of the copy
CHARACTER(LEN=*), INTENT(IN) :: dest_name
! Name to be assigned to the new copy
INTEGER, INTENT(OUT) :: hdferr ! Error code:
! 0 on success and -1 on failure
INTEGER(HID_T), OPTIONAL, INTENT(IN) :: lcpl_id
! Link creation property list identifier
INTEGER(HID_T), OPTIONAL, INTENT(IN) :: lapl_id
! Link access property list identifier
```

```
END SUBROUTINE h5lcopy_f
```

## Parameters:

|                              |   |
|------------------------------|---|
| <i>hid_t</i> src_loc_id      | IN: Location identifier of the source link; may be a file, group, dataset, named datatype or attribute identifier                     |
| <i>const char</i> *src_name  | IN: Name of the link to be copied   |
| <i>hid_t</i> dest_loc_id     | IN: Location identifier specifying the destination of the copy; may be a file, group, dataset, named datatype or attribute identifier |
| <i>const char</i> *dest_name | IN: Name to be assigned to the new copy   |
| <i>hid_t</i> lcp1_id         | IN: Link creation property list identifier  |
| <i>hid_t</i> lap1_id         | IN: Link access property list identifier  |

## Description:

H5L\_COPY copies the link specified by *src\_name* from the file or group specified by *src\_loc\_id* to the file or group specified by *dest\_loc\_id*. The new copy of the link is created with the name *dest\_name*.

If *dest\_loc\_id* is a file identifier, *dest\_name* will be interpreted relative to that file's root group.

The new link is created with the creation and access property lists specified by *lcp1\_id* and *lap1\_id*. The interpretation of *lcp1\_id* is limited in the manner described in the next paragraph.

H5L\_COPY retains the creation time and the target of the original link. However, since the link may be renamed, the character encoding is that specified in *lcp1\_id* rather than that of the original link. Other link creation properties are ignored.

If the link is a soft link, also known as a symbolic link, its target is interpreted relative to the location of the copy.

Several properties are available to govern the behavior of H5L\_COPY. These properties are set in the link creation and access property lists, *lcp1\_id* and *lap1\_id*, respectively. The property controlling creation of missing intermediate groups is set in the link creation property list with [H5P\\_SET\\_CREATE\\_INTERMEDIATE\\_GROUP](#); this function ignores any other properties in the link creation property list. Properties controlling character encoding, link traversals, and external link prefixes are set in the link access property list with [H5P\\_SET\\_CHAR\\_ENCODING](#), [H5P\\_SET\\_T\\_NLINKS](#), and [H5P\\_SET\\_ELINK\\_PREFIX](#).

H5L\_COPY does not affect the object that the link points to.

H5L\_COPY cannot copy hard links across files as a hard link is not valid without a target object; to copy objects from one file to another, see [H5O\\_COPY](#).

## Returns:

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

## Example:

Coming Soon!

## History:

| Release | Change                               |
|---------|--------------------------------------|
| 1.8.0   | Function introduced in this release. |