

# H5L\_GET\_VAL\_BY\_IDX

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# H5L\_GET\_VAL\_BY\_IDX

Retrieves value of the *n*th link in a group, according to the order within an index

## Procedure:

H5L\_GET\_VAL\_BY\_IDX ( loc\_id, group\_name, index\_type, order, n, link\_val, size, lapl\_id )

## Signature:

```
herr_t H5Lget_val_by_idx( hid_t loc_id, const char *group_name, H5_index_t index_type, H5_iter_order_t order, hsize_t n, void *link_val, size_t size, hid_t lapl_id )
```

## Parameters:

<i>hid_t</i> loc_id	IN: Location identifier of subject group; may be a file, group, dataset, named datatype or attribute identifier
<i>const char *</i> group_name	IN: Name of subject group
<i>H5_index_t</i> index_type	IN: Type of index; valid values include: NAME Indexed by name CORDER Indexed by creation order
<i>H5_iter_order_t</i> order	IN: Order within field or index; valid values include: H5_ITER_INC Iterate in increasing order H5_ITER_DEC Iterate in decreasing order H5_ITER_NATIVE Iterate in fastest order
<i>hsize_t</i> n	IN: Link for which to retrieve information

<code>void*link_val</code>	OUT: Pointer to buffer in which link value is returned
<code>size_t size</code>	IN: Size in bytes of <code>link_val</code>
<code>hid_t lapl_id</code>	IN: Link access property list

**Description:**

H5L\_GET\_VAL\_BY\_IDX retrieves the value of the *n*th link in a group, according to the specified order, `order`, within an index, `index`.

- For soft links, the value is the path name of the object pointed to.
- For external links, this is a compound value containing file and path name information; to use this external link information, it must first be decoded with [H5L\\_UNPACK\\_ELINK\\_VAL](#)
- For user-defined links, this value will be described in the definition of the user-defined link type.
- This function will fail if called on a hard link.

`loc_id` specifies the location identifier of the group specified by `group_name`.

`group_name` specifies the group in which the link exists. If `loc_id` already specifies the group in which the link exists, `group_name` must be a dot (.).

The size in bytes of `link_val` is specified in `size`. The size value can be determined through a call to [H5L\\_GET\\_INFO\\_BY\\_IDX](#); it is returned in the `val_size` field of the `H5L_info_t` struct. If `size` is smaller than the size of the returned value, then the string stored in `link_val` will be truncated to `size` bytes. For soft links, this means that the value will not be null terminated.

If the type of the link is unknown or uncertain, H5L\_GET\_VAL\_BY\_IDX should be called only after the type has been determined via a call to [H5L\\_GET\\_INFO\\_BY\\_IDX](#).

**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.