

# H5F\_GET\_OBJ\_IDS

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# H5F\_GET\_OBJ\_IDS

Returns a list of open object identifiers

## Procedure:

H5F\_GET\_OBJ\_IDS (file\_id, types, max\_objs, obj\_id\_list)

## Signature:

```
ssize_t H5fget_obj_ids( hid_t file_id, unsigned int types, size_t max_objs, hid_t *obj_id_list )
```

```
SUBROUTINE h5fget_obj_ids_f(file_id, obj_type, max_objs, obj_ids, hdferr, num_objs)
```

```
IMPLICIT NONE
INTEGER(HID_T), INTENT(IN)  :: file_id ! File identifier
INTEGER,          INTENT(IN)  :: obj_type ! Object types, possible values are:
!           H5F_OBJ_FILE_F
!           H5F_OBJ_GROUP_F
!           H5F_OBJ_DATASET_F
!           H5F_OBJ_DATATYPE_F
!           H5F_OBJ_ALL_F
INTEGER(SIZE_T), INTENT(IN)  :: max_objs ! Maximum number of object
! identifiers to retrieve
INTEGER(HID_T), DIMENSION(*), INTENT(OUT) :: obj_ids
! Array of requested object
! identifiers
INTEGER, INTENT(OUT)          :: hdferr ! Error code
! 0 on success and -1 on failure
INTEGER(SIZE_T), INTENT(OUT), OPTIONAL :: num_objs
! number of open objects of the specified type
END SUBROUTINE h5fget_obj_ids_f
```

## Parameters:

|                           |   |
|---------------------------|---|
| <i>hid_t</i> file_id      | IN: Identifier of a currently-open HDF5 file or H5F_OBJ_ALL for all currently-open HDF5 files |
| <i>unsigned int</i> types | IN: Type of object for which identifiers are to be returned                                   |
| <i>size_t</i> max_objs    | IN: Maximum number of object identifiers to place into obj_id_list                            |
| <i>hid_t</i> *obj_id_list | OUT: Pointer to the returned list of open object identifiers                                  |

## Description:

Given the file identifier `file_id` and the type of objects to be identified, `types`, `H5F_GET_OBJ_IDS` returns the list of identifiers for all open HDF5 objects fitting the specified criteria.

To retrieve identifiers for open objects in all HDF5 application files that are currently open, pass the value `H5F_OBJ_ALL` in `file_id`.

The types of object identifiers to be retrieved are specified in `types` using the codes listed for the same parameter in `H5F_GET_OBJ_COUNT`.

To retrieve a count of open objects, use the `H5F_GET_OBJ_COUNT` function. This count can be used to set the `max_objs` parameter.

## Returns:

Returns number of objects placed into `obj_id_list` if successful; otherwise returns a negative value.

## Example:

Coming soon!

## History:

| Release          | Change  |
|------------------|---|
| 1.6.0            | C function introduced in this release.  |
| 1.6.8 &<br>1.8.2 | C function return type changed to <code>ssize_t</code><br>and <code>max_objs</code> parameter datatype changed to <code>size_t</code> . |