

# H5O\_GET\_INFO

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

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

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

## H5O\_GET\_INFO

Retrieves the metadata for an object specified by an identifier

### Signature:

```
herr_t H5Oget_info( hid_t object_id, H5O_info_t *object_info, unsigned int fields)
herr_t H5Oget_info( hid_t object_id, H5O_info_t *object_info )
```

### Description:

H5O\_GET\_INFO is a macro that is mapped to:

- [H5O\\_GET\\_INFO3](#)
- [H5O\\_GET\\_INFO1](#)

Such macros are provided to facilitate application compatibility. Their use and mappings are fully described in [API Compatibility Macros in HDF5](#); we urge you to read that document closely.

In HDF5 versions 1.12 and after, H5O\_GET\_INFO is mapped to H5O\_GET\_INFO3 and H5O\_GET\_INFO1 is deprecated. In version 1.10 H5O\_GET\_INFO is identical to [H5O\\_GET\\_INFO1](#).

Specific compile-time compatibility flags and the resulting mappings are as follows:

Compatibility setting	H5Oget_info
No compatibility flag	H5O_GET_INFO3 (in release 1.12) H5O_GET_INFO1 (in 1.8 or 1.10)
Emulate Release 1.12	H5O_GET_INFO3

Emulate Release 1.10/1.8 interface	H5O_GET_INFO1
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**Note:**

If you are iterating through a lot of different objects to retrieve information via the H5O\_GET\_INFO family of routines, you may see memory building up. This can be due to memory allocation for metadata such as object headers and messages when the iterated objects are put into the metadata cache.

If the memory buildup is not desirable, you can configure a smaller cache via [H5F\\_SET\\_MDC\\_CONFIG](#) or set the file access property list via [H5P\\_SET\\_MDC\\_CONFIG](#). A smaller sized cache will force metadata entries to be evicted from the cache, thus freeing the memory associated with the entries.

**History:**

Release	Change
1.12.0	The macro H5O_GET_INFO and the function H5O_GET_INFO3 were added, and H5O_GET_INFO1 was deprecated.
1.10.5	The macro H5O_GET_INFO was removed. The functions H5O_GET_INFO1 and H5O_GET_INFO are identical in this release. This change was added to restore the broken API compatibility introduced in HDF5-1.10.3.
1.10.3	The function H5O_GET_INFO was renamed H5O_GET_INFO1. The macro H5O_GET_INFO and the function H5O_GET_INFO2 were introduced in this release.
1.8.15	Added a note about the valid values for the <code>version</code> field in the <code>H5O_hdr_info_t</code> structure.
1.8.11	Fortran subroutine introduced in this release.
1.8.10	Added <code>H5O_type_t</code> structure to the Description section. Separated <code>H5O_hdr_info_t</code> structure from <code>H5O_info_t</code> in the Description section. Clarified the definition and implementation of the time fields.
1.8.0	Function introduced in this release.