H5O_VISIT_BY_NAME

H5O_VISIT_BY_NAME

Recursively visits all objects starting from a specified object

Signature:

```
herr_t H5Ovisit_by_name( hid_t loc_id, const char *object_name, H5_index_t index_type, H5_iter_order_t
order,
H5O_iterate_t op, void *op_data, unsigned int fields, hid_t lapl_id )

herr_t H5Ovisit_by_name( hid_t loc_id, const char *object_name, H5_index_t index_type, H5_iter_order_t
order,
H5O_iterate_t op, void *op_data, hid_t lapl_id )

SUBROUTINE h5ovisit_by_name_f(loc_id, object_name, index_type, order, &
      op, op_data, return_value, hdferr, lapl_id)
    USE, INTRINSIC :: ISO_C_BINDING
    IMPLICIT NONE
    INTEGER(HID_T)  , INTENT(IN)           :: loc_id
    CHARACTER(LEN=*), INTENT(IN)           :: object_name
    INTEGER         , INTENT(IN)           :: index_type
    INTEGER         , INTENT(IN)           :: order

    TYPE(C_FUNPTR)                         :: op
    TYPE(C_PTR)                            :: op_data
    INTEGER         , INTENT(OUT)          :: return_value
    INTEGER         , INTENT(OUT)          :: hdferr
    INTEGER(HID_T)  , INTENT(IN) , OPTIONAL :: lapl_id
```

Description:

H5O_VISIT_BY_NAME is a macro that is mapped to one of the following:

- H5O_VISIT_BY_NAME3
- H5O_VISIT_BY_NAME1

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_VISIT_BY_NAME is mapped to H5O_VISIT_BY_NAME3. In HDF5 version 1.10, H5O_VISIT_BY_NAME is identical to H5O_VISIT_BY_NAME1.

If using 1.10 (1.10.3+) and encountering performance issues, please use   H5O_VISIT_BY_NAME2 to limit the fields retrieved, which can help with performance.

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

No compatibility flag	H5O_VISIT_BY_NAME3 for 1.12 and above
	H5O_VISIT_BY_NAME1 for 1.10 or 1.8
Emulate Release 1.12 interface	H5O_VISIT_BY_NAME3
Emulate Release 1.10 or1.8 interface	H5O_VISIT_BY_NAME1

History:

Release	Change
1.12.0	The macro H5O_VISIT_BY_NAME and function H5O_VISIT_BY_NAME3 were added.
1.10.5	The macro H5O_VISIT_BY_NAME was removed. The functions H5O_VISIT_BY_NAME and H5O_VISIT_BY_NAME1 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_VISIT_BY_NAME was renamed to H5O_VISIT_BY_NAME1. The macro H5O_VISIT_BY_NAME and the function H5O_VISIT_BY_NAME2 were introduced in this release.
1.8.11	Fortran subroutine introduced in this release.
1.8.0	Function introduced in this release.

--- Last Modified: March 31, 2021 | 12:04 PM