

H5D_OPEN

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H5D_OPEN

Opens an existing dataset

Signature:

```
hid_t H5Dopen( hid_t loc_id, const char *name )
```

```
hid_t H5Dopen( hid_t loc_id, const char *name, hid_t dapl_id )
```

```
SUBROUTINE h5dopen_f(loc_id, name, dset_id, hdferr, dapl_id)
  IMPLICIT NONE
  INTEGER(HID_T), INTENT(IN) :: loc_id    ! File or group identifier
  CHARACTER(LEN=*), INTENT(IN) :: name    ! Name of the dataset
  INTEGER(HID_T), INTENT(OUT) :: dset_id ! Dataset identifier
  INTEGER, INTENT(OUT) :: hdferr         ! Error code:
                                         ! 0 on success and -1 on failure
  INTEGER(HID_T), OPTIONAL, INTENT(IN) :: dapl_id
                                         ! Dataset access property list
END SUBROUTINE h5dopen_f
```

Description:

H5D_OPEN is a macro that is mapped to either [H5D_OPEN1](#) or [H5D_OPEN2](#), depending on the needs of the application.

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.

When both the HDF5 library and the application are built and installed with no specific compatibility flags, H5D_OPEN is mapped to the most recent version of the function, currently `H5D_OPEN2`. If the library and/or application is compiled for Release 1.6 emulation, `H5D_OPEN` will be mapped to `H5D_OPEN1`. Function-specific flags are available to override these settings on a function-by-function basis when the application is compiled.

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

Compatibility setting	H5Dopen mapping
<u>Global settings</u>	
No compatibility flag	H5Dopen2
Enable deprecated symbols	H5Dopen2
Disable deprecated symbols	H5Dopen2
Emulate Release 1.6 interface	H5Dopen1
<u>Function-level macros</u>	
H5Dopen_vers = 2	H5Dopen2
H5Dopen_vers = 1	H5Dopen1

A dataset opened with this macro should be closed with `H5D_CLOSE` when the dataset is no longer needed so that resource leaks will not develop.

Example:

Coming Soon!

History:

Release	Change
1.8.0	The function <code>H5Dopen</code> renamed to <code>H5Dopen1</code> and deprecated in this release. The macro <code>H5Dopen</code> and the function <code>H5Dopen2</code> introduced in this release.