

# H5G\_OPEN

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# H5G\_OPEN

Opens an existing group in a file

## Signature:

```
hid_t H5Gopen( hid_t loc_id, const char *name )
```

```
hid_t H5Gopen( hid_t loc_id, const char * name, hid_t gapl_id )
```

```
SUBROUTINE h5gopen_f(loc_id, name, grp_id, hdferr, gapl_id)
  IMPLICIT NONE
  INTEGER(HID_T), INTENT(IN) :: loc_id    ! File or group identifier
  CHARACTER(LEN=*), INTENT(IN) :: name    ! Name of the group
  INTEGER(HID_T), INTENT(OUT) :: grp_id   ! File identifier
  INTEGER, INTENT(OUT) :: hdferr         ! Error code
  ! 0 on success and -1 on failure
  INTEGER(HID_T), OPTIONAL, INTENT(IN) :: gapl_id
  ! Group access property list identifier
END SUBROUTINE h5gopen_f
```

## Description:

H5G\_OPEN is a macro that is mapped to either [H5G\\_OPEN1](#) or [H5G\\_OPEN2](#), depending on the needs of the application.

Such macros are provided to facilitate application compatibility. For more information on macro use and mappings, see the [API Compatibility Macros in HDF5](#) document.

When both the HDF5 library and the application are built and installed with no specific compatibility flags, H5G\_OPEN is mapped to the most recent version of the function, currently [H5G\\_OPEN2](#). If the library and/or application is compiled for Release 1.6 emulation, H5G\_OPEN will be mapped to [H5G\\_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	H5Gopen mapping
<a href="#">Global settings</a>	
No compatibility flag	H5Gopen2
Enable deprecated symbols	H5Gopen2
Disable deprecated symbols	H5Gopen2
Emulate Release 1.6 interface	H5Gopen1
<a href="#">Function-level macros</a>	
H5Gopen_vers = 2	H5Gopen2
H5Gopen_vers = 1	H5Gopen1

A group created with this macro should be closed with H5G\_CLOSE when the group is no longer needed so that resource leaks will not develop.

**History:**

Release	Change
1.8.0	The function H5Gopen renamed to H5Gopen1 and deprecated in this release. The macro H5Gopen and the function H5Gopen2 introduced in this release.

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