

# H5P\_GET\_DRIVER

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# H5P\_GET\_DRIVER

Returns low-level driver identifier

## Procedure:

H5P\_GET\_DRIVER ( plist\_id )

## Signature:

```
hid_t H5pget_driver(  
    hid_t plist_id  
)
```

Fortran90 Interface: h5pget\_driver\_f

```
SUBROUTINE h5pget_driver_f(prp_id, driver, hdferr)  
    IMPLICIT NONE  
    INTEGER(HID_T), INTENT(IN) :: prp_id ! Property list identifier  
    INTEGER, INTENT(OUT) :: driver      ! Low-level file driver identifier  
    INTEGER, INTENT(OUT) :: hdferr     ! Error code  
                                        ! 0 on success and -1 on failure  
END SUBROUTINE h5pget_driver_f
```

## Parameters:

*hid\_t*plist\_id    IN: File access or data transfer property list identifier

## Description:

H5P\_GET\_DRIVER returns the identifier of the low-level file driver associated with the file access property list or data transfer property list `plist_id`.

Valid driver identifiers distributed with HDF5 are listed and described in the following table.

## Supported file drivers in HDF5

Driver Name	Driver Identifier	Description	Related API
POSIX	H5FD_SEC2	This driver uses POSIX file-system functions like read and write to perform I/O to a single, permanent file on local disk with no system buffering. This driver is POSIX-compliant and is <b>the default file driver for all systems</b> .	H5Pset_fapl_sec2
Direct	H5FD_DIRECT	This is the H5FD_SEC2 driver except data is written to or read from the file synchronously without being cached by the system.	H5Pset_fapl_direct
Log	H5FD_LOG	This is the H5FD_SEC2 driver with logging capabilities.	H5Pset_fapl_log
Windows	H5FD_WINDOWS	This driver was modified in HDF5-1.8.8 to be a wrapper of the POSIX driver, H5FD_SEC2. This change should not affect user applications.	H5Pset_fapl_windows
STDIO	H5FD_STDIO	This driver uses functions from the standard C <code>stdio.h</code> to perform I/O to a single, permanent file on local disk with additional system buffering.	H5Pset_fapl_stdio
Memory	H5FD_CORE	With this driver, an application can work with a file in memory for faster reads and writes. File contents are kept in memory until the file is closed. At closing, the memory version of the file can be written back to disk or abandoned.	H5Pset_fapl_core
Family	H5FD_FAMILY	With this driver, the HDF5 file's address space is partitioned into pieces and sent to separate storage files using an underlying driver of the user's choice. This driver is for systems that do not support files larger than 2 gigabytes.	H5Pset_fapl_family
Multi	H5FD_MULTI	With this driver, data can be stored in multiple files according to the type of the data. I/O might work better if data is stored in separate files based on the type of data. The Split driver is a special case of this driver.	H5Pset_fapl_multi
Split	H5FD_SPLIT	This file driver splits a file into two parts. One part stores metadata, and the other part stores raw data. This splitting a file into two parts is a limited case of the Multi driver.	H5Pset_fapl_split
Parallel	H5FD_MPIO	This is the standard HDF5 file driver for parallel file systems. This driver uses the MPI standard for both communication and file I/O.	H5Pset_fapl_mpio
Parallel POSIX	H5FD_MPIOPOSIX	This driver is no longer available.	
Stream	H5FD_STREAM	This driver is no longer available.	

This list does not include custom drivers that might be defined and registered by a user.

The returned driver identifier is only valid as long as the file driver remains registered.

**Returns:**

Returns a valid low-level driver identifier if successful. Otherwise returns a negative value.

**Example:**

Coming Soon!

**History:**

Release	Change
1.4.0	Function introduced in this release.

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