H5P_SET_FCLOSE_DEGREE

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H5P_SET_FCLOSE_DEGREE

Sets the file close degree

Procedure:

H5P_SET_FCLOSE_DEGREE (fapl_id, fc_degree)

Signature:

```
herr_t H5Pset_fclose_degree(
                    hid_t fapl_id,
                    H5F_close_degree_t fc_degree
                    )
```

```
Fortran90 Interface: h5pset_fclose_degree_f

SUBROUTINE h5pset_fclose_degree_f(fapl_id, degree, hdferr)
  IMPLICIT NONE
  INTEGER(HID_T), INTENT(IN) :: fapl_id  ! File access property list identifier
  INTEGER, INTENT(IN) :: degree          ! Info about file close behavior
                                         ! Possible values:
                                         !    H5F_CLOSE_DEFAULT_F
                                         !    H5F_CLOSE_WEAK_F
                                         !    H5F_CLOSE_SEMI_F
                                         !    H5F_CLOSE_STRONG_F
  INTEGER, INTENT(OUT) :: hdferr         ! Error code
                                         ! 0 on success and -1 on failure
END SUBROUTINE h5pset_fclose_degree_f
```

Parameters:

hid_t `fapl_id`	IN: File access property list identifier
H5F_close_degree_t `fc_degree`	IN: Pointer to a location containing the file close degree property, the value of `fc_degree`

Description:

H5P_SET_FCLOSE_DEGREE sets the file close degree property `fc_degree` in the file access property list `fapl_id`.

The value of `fc_degree` determines how aggressively H5F_CLOSE deals with objects within a file that remain open when H5F_CLOSE is called to close that file. `fc_degree` can have any one of four valid values:

Degree name	`H5Fclose` behavior with no open object in file	`H5Fclose` behavior with open object(s) in file
`H5F_CLOSE_WEAK`	Actual file is closed.	Access to file identifier is terminated; actual file close is delayed until all objects in file are closed
`H5F_CLOSE_SEMI`	Actual file is closed.	Function returns FAILURE
`H5F_CLOSE_STRONG`	Actual file is closed.	All open objects remaining in the file are closed then file is closed
`H5F_CLOSE_DEFAULT`	The VFL driver chooses the behavior. Currently, all VFL drivers set this value to `H5F_CLOSE_WEAK`, except for the MPI-I/O driver, which sets it to `H5F_CLOSE_SEMI`.	

Note that if a file is opened multiple times without being closed, each open operation must use the same file close degree setting. For example, if a file is already open with `H5F_CLOSE_WEAK`, an H5F_OPEN call with `H5F_CLOSE_STRONG` will fail.

Returns:

Returns a non-negative value if successful. Otherwise returns a negative value.

Example:

Coming Soon!

History:

Release	Change
1.6.0	Function introduced in this release.

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