

H5P_SET_DEFLATE

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H5P_SET_DEFLATE

Sets deflate (GNU gzip) compression method and compression level

Procedure:

H5P_SET_DEFLATE (plist_id, level)

Signature:

```
herr_t H5Pset_deflate(  
    hid_t plist_id,  
    uint level  
)
```

Fortran90 Interface: h5pset_deflate_f

```
SUBROUTINE h5pset_deflate_f(prp_id, level, hdferr)  
    IMPLICIT NONE  
    INTEGER(HID_T), INTENT(IN) :: prp_id ! Property list identifier  
    INTEGER, INTENT(IN)       :: level ! Compression level  
    INTEGER, INTENT(OUT)      :: hdferr ! Error code  
                                ! 0 on success and -1 on failure  
END SUBROUTINE h5pset_deflate_f
```

Parameters:

<i>hid_t</i> plist_id	IN: Dataset or group creation property list identifier
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<i>uint</i> level	IN: Compression level
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Description:

H5P_SET_DEFLATE sets the deflate compression method and the compression level, *level* for a dataset or group creation property list, *plist_id*.

The filter identifier set in the property list is H5Z_FILTER_DEFLATE.

The compression level, *level*, is a value from zero to nine, inclusive. A compression level of 0 (zero) indicates no compression; compression improves but speed slows progressively from levels 1 through 9:

<u>Compression level</u>	<u>Gzip action</u>
0	No compression
1	Best compression speed; least compression
2 through 8	Compression improves; speed degrades
9	Best compression ratio; slowest speed

Note that setting the compression level to 0 (zero) does not turn off use of the gzip filter; it simply sets the filter to perform no compression as it processes the data.

HDF5 relies on GNU gzip for this compression.

Returns:

Returns a non-negative value if successful; otherwise returns a negative value.

History:

<u>Release</u>	<u>Change</u>
1.8.5	Function extended to work with group creation property lists.