

H5P_SET_DXPL_MPIO

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H5P_SET_DXPL_MPIO

Sets data transfer mode

Procedure:

H5P_SET_DXPL_MPIO (dxpl_id, xfer_mode)

Signature:

```
herr_t H5Pset_dxpl_mpio(  
    hid_t dxpl_id,  
    H5FD_mpio_xfer_t xfer_mode  
)
```

Fortran90 Interface:

```
SUBROUTINE h5pset_dxpl_mpio_f(prp_id, data_xfer_mode, hdferr)  
  IMPLICIT NONE  
  INTEGER(HID_T), INTENT(IN) :: prp_id ! Property list identifier  
  INTEGER, INTENT(IN) :: data_xfer_mode ! Data transfer mode  
  ! Possible values are:  
  !   H5FD_MPIO_INDEPENDENT_F  
  !   H5FD_MPIO_COLLECTIVE_F  
  INTEGER, INTENT(OUT) :: hdferr ! Error code  
  ! 0 on success and -1 on failure  
END SUBROUTINE h5pset_dxpl_mpio_f
```

Parameters:

<i>hid_t</i> dxpl_id	IN: Data transfer property list identifier
<i>H5FD_mpio_xfer_t</i> xfer_mode	IN: Transfer mode

Description:

H5P_SET_DXPL_MPIO sets the data transfer property list dxpl_id to use transfer mode xfer_mode. The property list can then be used to control the I/O transfer mode during data I/O operations.

Valid transfer modes are as follows:

H5FD_MPIO_INDEPENDENT Use independent I/O access (default)

H5FD_MPIO_COLLECTIVE Use collective I/O access

Returns:

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

Example:

```

examples / ph5example.c [581:584]                                1.10/master    HDFFV/hdf5
/* set up the collective transfer properties list */
xfer_plist = H5Pcreate (H5P_DATASET_XFER);
assert(xfer_plist != FAIL);
ret=H5Pset_dxpl_mpio(xfer_plist, H5FD_MPIO_COLLECTIVE);

```

```

fortran / examples / ph5example.f90 [106:117]                1.10/master    HDFF
V/hdf5
CALL h5pcreate_f(H5P_DATASET_XFER_F, plist_id, error)
CALL h5pset_dxpl_mpio_f(plist_id, H5FD_MPIO_COLLECTIVE_F, error)
!
! For independent write use
! CALL h5pset_dxpl_mpio_f(plist_id, H5FD_MPIO_INDEPENDENT_F, error)
!
!
! Write the dataset collectively.
!
CALL h5dwrite_f(dset_id, H5T_NATIVE_INTEGER, data, dimsfi, error, &
               xfer_prp = plist_id)

```

History:

Release	Change
1.4.0	Function introduced in this release.

--- Last Modified: August 09, 2019 | 01:36 PM