

H5P_GET_FAPL_MPIPOSIX

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H5P_GET_FAPL_MPIPOSIX

Returns MPI communicator information (**REMOVED**)

FUNCTION REMOVED: The C functions H5P_SET_FAPL_MPIPOSIX and H5P_GET_FAPL_MPIPOSIX and the corresponding Fortran subroutines have been removed from the HDF5 Library at Release 1.8.13. They remain available in earlier releases, through HDF5 Release 1.8.12.

All applications used with HDF5 Release 1.8.13 or later and that use MPI I/O should use the functions H5P_SET_FAPL_MPIO and H5P_GET_FAPL_MPIO or the corresponding Fortran subroutines.

While HDF5's MPI-POSIX driver (H5P_SET_FAPL_MPIPOSIX and H5P_GET_FAPL_MPIPOSIX) once provided performance benefits on some systems, that is no longer the case. HDF5's MPIO driver (H5P_SET_FAPL_MPIO and H5P_GET_FAPL_MPIO) now provides as good or better performance on all modern systems.

Procedure:

H5P_GET_FAPL_MPIPOSIX (fapl_id, comm, use_gpfs_hints)

Signature:

```
herr_t H5Pget_fapl_mpiposix(  
    hid_t fapl_id,  
    MPI_Comm *comm,  
    hbool_t *use_gpfs_hints  
)
```

Fortran90 Interface: h5pget_fapl_mpio_six_f

```
SUBROUTINE h5pget_fapl_mpio_six_f(prp_id, comm, use_gpfs, hdferr)
  IMPLICIT NONE
  INTEGER(HID_T), INTENT(IN) :: prp_id ! Property list identifier
  INTEGER, INTENT(OUT) :: comm ! Buffer to return communicator
  LOGICAL, INTENT(OUT) :: use_gpfs
  INTEGER, INTENT(OUT) :: hdferr ! Error code
END SUBROUTINE h5pget_fapl_mpio_six_f
```

Parameters:

<i>hid_t</i> fapl_id	IN: File access property list identifier
<i>MPI_Comm</i> *comm	OUT: MPI-2 communicator
<i>hbool_t</i> *use_gpfs_hints	OUT: Use of GPFS hints

Description:

If the file access property list is set to the H5FD_MPIO_SIX driver, H5P_GET_FAPL_MPIO_SIX returns the MPI communicator through the `comm` pointer, if those values are non-null.

`comm` is not copied, so it is valid only until the file access property list is either modified or closed.

`use_gpfs_hints` specifies whether to attempt to use GPFS hints when accessing this file. A value of 1 indicates that the hints are being used, where possible. A value of 0 indicates that the hints are not being used.

Returns:

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

Example:

History:

Release	Change
1.8.13	C function and Fortran subroutine removed from HDF5 at this release.
1.6.1	Fortran subroutine introduced.
1.6.0	<code>use_gpfs_hints</code> parameter added.
1.6.0	C function introduced in this release.

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