

HDF5 Fortran Library

HDF5 Fortran library documentation includes the following:

- [HDF5 Fortran User Notes](#)
- [HDF5 Fortran Datatypes, Flags and Functions](#)
- [HDF5 C/Fortran Reference Manual](#)
- [New Features in the HDF5 Fortran Library: Adding Support for the Fortran 2003 Standard \(PDF only\)](#)
- [Examples](#)

Regarding Fortran environments:

HDF5-1.10:

The HDF5 Fortran library requires a Fortran 2003 environment in HDF5-1.10. If the Fortran compiler being used is Fortran 2003 compliant and the installed HDF5 library was configured with the `--enable-fortran` option, then the resulting HDF5 Fortran library will include the *Fortran 2003 environment*.

HDF5-1.8:

Both Fortran 90 and Fortran 2003 environments are available. A small number of features are available only in Fortran 2003 environments, but most are available in both. The `--enable-fortran2003` flag must be specifically included in addition to the `--enable-fortran` option, in order to provide a *Fortran 2003 environment*. Without this option, the resulting HDF5 Fortran library uses a *Fortran 90 environment*.

Regarding the HDF5 C/Fortran Reference Manual:

Throughout the reference manual, each Fortran subroutine description is presented alongside the corresponding C function description.

- Subroutines labeled *Fortran 90*, with no Fortran 2003 counterpart, are available in both Fortran 90 and Fortran 2003 environments.
- Subroutines labeled *Fortran 2003*, with no Fortran 90 counterpart, are available only in Fortran 2003 environments.
- If both Fortran 90 and Fortran 2003 versions of a subroutine are presented, use the version appropriate to the Fortran environment in which the application will be used.