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Currently, the functions listed below are implemented.

- `Fd.send_fd[1]` and `Fd.recv_fd[1]`, which are respectively used to send and receive descriptors. Typically, this functionality is used to allow a process to perform all the actions needed to acquire a descriptor, which is then sent to another process, which will then handle the data transfer operations on that descriptor.
- `Fd.fexecve[1]`, which is used to execute a program specified via a file descriptor.

exception Fd_error of string

This exception is raised by `Fd.send_fd[1]` and `Fd.recv_fd[1]` when an error is encountered. The string contains the error message.

val send_fd : conn:Unix.file_descr -> fd:Unix.file_descr -> unit

This function sends a descriptor over a Unix socket whose peer may be another process. The peer must receive the file descriptor with the function `Fd.recv_fd[1]` defined in this module.

The descriptor is sent as a sized message, so the user application may use the connection to other communication needs.

Raises Fd_error This exception is raised on error.

val recv_fd : conn:Unix.file_descr -> Unix.file_descr

This function receives a descriptor sent by `Fd.send_fd[1]`.

Raises Fd_error This exception is raised on error.

Returns The received file descriptor.

val fexecve :

fd:Unix.file_descr -> args:string array -> env:string array -> 'a

This function works like `Unix.execve`, but the program to be executed, its first parameter, is specified via a file descriptor. As is the case with the `Unix.execv*` functions, `Fd.fexecve[1]` never returns. If the call succeeds, the current process is substituted by the new one.

Raises Fd_error This exception is raised on error.

val read_cred : fd:Unix.file_descr -> int * int * int

This function reads sender credentials from a descriptor. The descriptor must be associated to a UNIX socket. Currently only Linux is supported.

Raises `Fd_error` This exception is raised on error.

Returns A tuple of integers containing the sender PID, UID and GID.