

Previous: 6.1.2 File Object Creation Up: 6.1 os Next: 6.1.4 Files and Directories

6.1.3 File Descriptor Operations

These functions operate on I/O streams referred to using file descriptors.

close(fd)

Close file descriptor fd. Availability: Macintosh, UNIX, Windows.

Note: this function is intended for low-level I/O and must be applied to a file descriptor as retained of the pipe (). To close a `file object" returned by the built-in function open () or by popen () use its close () method.

dup(fd)

Return a duplicate of file descriptor fd. Availability: Macintosh, UNIX, Windows.

dup2(fd, fd2)

Duplicate file descriptor fd to fd2, closing the latter first if necessary. Availability: UNIX, Win

fdatasync(fd)

Force write of file with filedescriptor fd to disk. Does not force update of metadata. Availabili

fpathconf(fd, name)

Return system configuration information relevant to an open file. *name* specifies the configuraretrieve; it may be a string which is the name of a defined system value; these names are specinumber of standards (POSIX.1, UNIX 95, UNIX 98, and others). Some platforms define additionable. The names known to the host operating system are given in the pathconf_names diction configuration variables not included in that mapping, passing an integer for *name* is also accept Availability: UNIX.

If name is a string and is not known, ValueError is raised. If a specific value for name is not

the host system, even if it is included in pathconf_names, an OSError is raised with errno.E error number.

fstat(fd)

Return status for file descriptor fd, like stat(). Availability: UNIX, Windows.

fstatvfs(fd)

Return information about the filesystem containing the file associated with file descriptor fd, l Availability: UNIX.

fsync(fd)

Force write of file with filedescriptor fd to disk. On UNIX, this calls the native fsync() function Windows, the MS $_{commit}$ () function.

If you're starting with a Python file object f, first do f.flush(), and then do os.fsync(f.fil ensure that all internal buffers associated with f are written to disk. Availability: UNIX, and W in 2.2.3.

ftruncate(fd, length)

Truncate the file corresponding to file descriptor *fd*, so that it is at most *length* bytes in size. A LINIX

isatty(fd)

Return True if the file descriptor fd is open and connected to a tty(-like) device, else False. A UNIX.

lseek(fd, pos, how)

Set the current position of file descriptor *fd* to position *pos*, modified by *how*: 0 to set the positive beginning of the file; 1 to set it relative to the current position; 2 to set it relative to the ence Availability: Macintosh, UNIX, Windows.

open(file, flags[, mode])

Open the file *file* and set various flags according to *flags* and possibly its mode according to *n* default *mode* is 0777 (octal), and the current umask value is first masked out. Return the file d newly opened file. Availability: Macintosh, UNIX, Windows.

For a description of the flag and mode values, see the C run-time documentation; flag constan O_RDONLY and O_WRONLY) are defined in this module too (see below).

Note: this function is intended for low-level I/O. For normal usage, use the built-in function or returns a "file object" with read() and write() methods (and many more).

openpty()

Open a new pseudo-terminal pair. Return a pair of file descriptors (master, slave) for the prespectively. For a (slightly) more portable approach, use the pty module. Availability: Some UNIX.

pipe()

Create a pipe. Return a pair of file descriptors (r, w) usable for reading and writing, respective Availability: UNIX, Windows.

read(fd, n)

Read at most n bytes from file descriptor fd. Return a string containing the bytes read. If the energy referred to by fd has been reached, an empty string is returned. Availability: Macintosh, UNIX

Note: this function is intended for low-level I/O and must be applied to a file descriptor as returned () or pipe(). To read a `file object" returned by the built-in function open() or by popen() sys.stdin, use its read() or readline() methods.

tcgetpgrp(fd)

Return the process group associated with the terminal given by fd (an open file descriptor as ref.). Availability: UNIX.

tcsetpgrp(fd, pg)

Set the process group associated with the terminal given by fd (an open file descriptor as retur to pg. Availability: UNIX.

ttyname(fd)

Return a string which specifies the terminal device associated with file-descriptor fd. If fd is n with a terminal device, an exception is raised. Availability: UNIX.

write(fd, str)

Write the string *str* to file descriptor *fd*. Return the number of bytes actually written. Availabil UNIX, Windows.

Note: this function is intended for low-level I/O and must be applied to a file descriptor as retail () or pipe(). To write a `file object" returned by the built-in function open() or by popen() or sys.stdout or sys.stderr, use its write() method.

The following data items are available for use in constructing the *flags* parameter to the open() fund

- O_RDONLY
- O_WRONLY
- O RDWR
- O_NDELAY
- O NONBLOCK
- O_APPEND
- O_DSYNC
- O_RSYNC
- O_SYNC
- O NOCTTY
- O_CREAT
- O_EXCL

O_TRUNC

Options for the *flag* argument to the open() function. These can be bit-wise OR'd together. A Macintosh, UNIX, Windows.

O_BINARY

Option for the *flag* argument to the open() function. This can be bit-wise OR'd together with above. Availability: Macintosh, Windows.

- O_NOINHERIT
- O_SHORT_LIVED
- O_TEMPORARY
- O_RANDOM
- O_SEQUENTIAL
- O_TEXT

Options for the *flag* argument to the open() function. These can be bit-wise OR'd together. A Windows.

© 2002-2004 Active-Venture.com Webhosting Service

Disclaimer: This documentation is provided only for the benefits of our hosting customers For authoritative source of the documentation, please refer to http://python.org/doc/

Active-Domain.com offers domain name registration, domain name transfer and domain search services

Cheap domain registration: Register domain name or buy domain name, including free domain hosting services Domain registration: E

domain name or regist domain name from \$5.95/year only