
Fusepy Documentation

Release 2.0.2

Giorgos Verigakis

October 07, 2015

1	About	3
2	Examples	5
3	FUSELL	7
4	Operations	11

Contents:

About

`fusepy` is a Python module that provides a simple interface to **FUSE_** and **MacFUSE_**. It's just one file and is implemented using `ctypes`.

The original version of `fusepy` was hosted on **'Google Code'**, but is now **'officially hosted on GitHub'**.

`fusepy` is written in 2x syntax, but trying to pay attention to bytes and other changes 3x would care about. The only incompatible changes between 2x and 3x are the change in syntax for number literals and exceptions. These issues are fixed using the `2to3` tool when installing the package, or running:

```
2to3 -f numliterals -f except -w fuse.py
```


Examples

See some examples of how you can use fusepy:

memory A simple memory filesystem

loopback A loopback filesystem

context Sample usage of `fuse_get_context()`

sftp A simple SFTP filesystem (requires paramiko)

To get started [download](#) fusepy or just browse the [source](#).

fusepy requires FUSE 2.6 (or later) and runs on:

- Linux (i386, x86_64, PPC)
- Mac OS X (Intel, PowerPC)
- FreeBSD (i386, amd64)

FUSELL

```
class fuse11.FUSELL (mountpoint)

    destroy (userdata)
        Clean up filesystem
        There's no reply to this method

    flush (req, ino, fi)
        Flush method
        Valid replies: reply_err

    forget (req, ino, nlookup)
        Forget about an inode
        Valid replies: reply_none

    fsync (req, ino, datasync, fi)
        Synchronize file contents
        Valid replies: reply_err

    fsyncdir (req, ino, datasync, fi)
        Synchronize directory contents
        Valid replies: reply_err

    getattr (req, ino, fi)
        Get file attributes
        Valid replies: reply_attr reply_err

    init (userdata, conn)
        Initialize filesystem
        There's no reply to this method

    link (req, ino, newparent, newname)
        Create a hard link
        Valid replies: reply_entry reply_err

    lookup (req, parent, name)
        Look up a directory entry by name and get its attributes.
        Valid replies: reply_entry reply_err
```

mkdir (*req, parent, name, mode*)

Create a directory

Valid replies: reply_entry reply_err

mknod (*req, parent, name, mode, rdev*)

Create file node

Valid replies: reply_entry reply_err

open (*req, ino, fi*)

Open a file

Valid replies: reply_open reply_err

opendir (*req, ino, fi*)

Open a directory

Valid replies: reply_open reply_err

read (*req, ino, size, off, fi*)

Read data

Valid replies: reply_buf reply_err

readdir (*req, ino, size, off, fi*)

Read directory

Valid replies: reply_readdir reply_err

readlink (*req, ino*)

Read symbolic link

Valid replies: reply_readlink reply_err

release (*req, ino, fi*)

Release an open file

Valid replies: reply_err

releasedir (*req, ino, fi*)

Release an open directory

Valid replies: reply_err

rename (*req, parent, name, newparent, newname*)

Rename a file

Valid replies: reply_err

rmdir (*req, parent, name*)

Remove a directory

Valid replies: reply_err

setattr (*req, ino, attr, to_set, fi*)

Set file attributes

Valid replies: reply_attr reply_err

symlink (*req, link, parent, name*)

Create a symbolic link

Valid replies: reply_entry reply_err

unlink (*req, parent, name*)

Remove a file

Valid replies: reply_err

write (*req, ino, buf, off, fi*)

Write data

Valid replies: reply_write reply_err

Operations

D

destroy() (fusell.FUSELL method), 7

F

flush() (fusell.FUSELL method), 7
forget() (fusell.FUSELL method), 7
fsync() (fusell.FUSELL method), 7
fsyncdir() (fusell.FUSELL method), 7
FUSELL (class in fusell), 7

G

getattr() (fusell.FUSELL method), 7

I

init() (fusell.FUSELL method), 7

L

link() (fusell.FUSELL method), 7
lookup() (fusell.FUSELL method), 7

M

mkdir() (fusell.FUSELL method), 7
mknod() (fusell.FUSELL method), 8

O

open() (fusell.FUSELL method), 8
opendir() (fusell.FUSELL method), 8

R

read() (fusell.FUSELL method), 8
readdir() (fusell.FUSELL method), 8
readlink() (fusell.FUSELL method), 8
release() (fusell.FUSELL method), 8
releasedir() (fusell.FUSELL method), 8
rename() (fusell.FUSELL method), 8
rmdir() (fusell.FUSELL method), 8

S

setattr() (fusell.FUSELL method), 8

symlink() (fusell.FUSELL method), 8

U

unlink() (fusell.FUSELL method), 8

W

write() (fusell.FUSELL method), 9