
rfslib

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CONTENTS:

1	rfslib module	3
2	rfslib.abstract_pconnection module	5
3	rfslib.sftp_pconnection module	11
4	rfslib.ftp_pconnection module	15
5	rfslib.smb12_pconnection module	21
6	rfslib.smb23_pconnection module	25
7	rfslib.fs_pconnection module	31
8	rfslib.path_utils module	35
	Python Module Index	37
	Index	39

This is a documentation of rfslib.

To create a new development enviroment, it is recommended to create python virtual enviroment and install dependencies in requirements.txt

If you want to create a new pdf documentation, you are required to install also texlive on your system.

RFSLIB MODULE

class rfslib.pconnection_settings

Bases: object

This object represents settings applicable for all PConnection instances (instances of class, which inherits from PConnection).

__init__()

The constructor initializes the class to default values.

default_dmask: int = 18

If mode (permissions) of a directory can't be fetched, this value will be used instead of it.

default_fmask: int = 91

If mode (permissions) of a nondirectory file can't be fetched, this value will be used instead of it.

direct_write: bool = False

NOT IMPLEMENTED YET. If True, push will write output directly to file. If False all push operations on regular files will create firstly tmp file in target folder and then move result to file.

local_crlf: bool = False

Does local files use CRLF? If True, it is supposed, they do. If False, it is supposed, they use LF.

local_encoding: str = 'UTF8'

The encoding of local text files. (eg. 'UTF8')

remote_crlf: bool = False

Does remote files use CRLF? If True, it is supposed, they do. If False, it is supposed, they use LF.

remote_encoding: str = 'UTF8'

The encoding of remote text files. (eg. 'cp1250')

skip_validation: bool = False

NOT IMPLEMENTED YED. If True, all validations of input will be skipped. Undefined behavior may happen if input is wrong. Increases performance.

text_transmission: bool = False

If true, all files, which will be transmitted, will be recoded from local_encoding to remote_encoding and from local_crlf to remote_crlf. If False, there will be no encoding done during transmission.

RFSLIB.ABSTRACT_PCONNECTION MODULE

```
class rfslib.abstract_pconnection.PConnection(settings:
                                         rfslib.pconnection_settings.pconnection_settings)
    Bases: abc.ABC

    __init__(settings: rfslib.pconnection_settings.pconnection_settings)
        The constructor of a abstract class. If it is not called from child class, the behavior is undefined.

        If local_encoding and remote_encoding have same values, no recoding is done. Analogically if local_crlf
        and remote_crlf is same, no substitution between LF and CRLF is done.

        Parameters settings – A pconnection_settings object with all generic settings for PConne-
            ction. Be sure, that all needed attributes are present, or AttributeError will be raised.

    abstract _exists(remote_path: str) → bool
        Protected method which checks, whether a remote file exist. If the remote file is a broken symlink, it returns
        False.

        Parameters remote_path – Path of a remote file.

        Returns True, if remote file is exist. False, if remote file doesn't exist

    abstract _isdir(remote_path: str) → bool
        Protected method which checks, whether a remote file is a directory. The function is DEPRECATED and
        will be substituted using stat or lstat.

        Parameters remote_path – A path of a directory.

        Returns True, if remote file is folder. False, if it isn't a folder. Undefined if the file doesn't exist.

    abstract _lexists(remote_path: str) → bool
        Protected method which checks, whether a remote file exist. If the remote file is a broken symlink, it returns
        True.

        KNOWN BUG: Behavior is undefined in case of broken symlinks.

        Parameters remote_path – Path of a remote file.

        Returns True, if remote file is exist. False, if remote file doesn't exist

    abstract _listdir(remote_path: str) → List[str]
        Protected method which returns a list of files in the folder including hidden files. It might contain '.' and
        '..'. Undefined if the remote file doesn't exist or isn't a folder.

        Parameters remote_path – The remote path of a remote folder.

        Returns A list of files in the remote folder.
```

abstract _mkdir(*remote_path: str*)

Protected method which creates a new directory. Behavior is undefined if remote folder already exist, or destination folder doesn't exist.

Parameters **remote_path** – A path of a new remote directory.

abstract _pull(*remote_path: str, local_path: str*)

Protected method which downloads/pulls a nondirectory file from a remote storage to a local storage in the binary form. Behavior is undefined if source file or destination folder doesn't exist.

Parameters

- **remote_path** – Path of a remote file to download.
- **local_path** – Path of a local file, where to download/pull a remote file or local file already exists.

abstract _push(*local_path: str, remote_path: str*)

Protected method which uploads/pushes a nondirectory file from a local storage to a remote storage in the binary form. Behavior is undefined if destination folder or source file doesn't exist, source is directory or remote file already exists.

Parameters

- **local_path** – Path of a local file to upload.
- **remote_path** – Path on the remote storage, where to upload/push a local file.

abstract _rename(*old_name: str, new_name: str*)

Protected method which renames/moves a file. Behavior is undefined, if *new_name* file exists or *old_name* file doesn't exist.

Parameters

- **old_name** – Remote path a file to move.
- **new_name** – Remote path to which move the file.

abstract _rmdir(*remote_path: str*)

Protected method which removes an empty remote directory. Behavior is undefined if remote directory doesn't exist or it isn't empty.

Parameters **remote_path** – Path of an empty remote directory to delete.

abstract _stat(*remote_path: str*) → *os.stat_result*

Protected method which returns statistics of a file (eg. size, last date modified,...) Follows symlinks to a destination file. Undefined behavior if remote file doesn't exist or it is a broken symlink.

Parameters **remote_path** – Path of a remote file.

Returns The function returns *os.stat_result* like object, which is further parsed by *_stat_unpack* function. For more details please see source code.

abstract _unlink(*remote_path: str*)

Protected method which removes a nondirectory file. Behavior is undefined if remote file doesn't exist or is a directory.

Parameters **remote_path** – Path of a remote regular file to delete.

abstract close()

Method to close the opened connection.

cp(*old_names: List[str], new_name: str, recursive: bool = False*)

dcp(*old_names: List[str], target_dir: str, recursive: bool = False*)

dmv(*old_names: List[str], target_dir: str*)

exists(*remote_path: str*) → bool

Method which checks, whether a remote file exist. Returns False for broken symlinks.

Parameters **remote_path** – Path of a remote file.

Returns True, if remote file exists. False, if remote file doesn't exist.

fcv(*old_name: str, new_name: str*)

find(*remote_path: str, child_first: bool = False*) → List[str]

A public method which returns DFS (depth-first search) of remote_path including hidden files. It never returns '.' or '..'.

Parameters **child_first** – If True, childs of a directory will be returned before the directory itself.

Returns The result of DFS as a list of remote_paths.

fmv(*old_name: str, new_name: str*)

get_default_dmask() → int

Returns default_dmask settings. For more details see pconnection_settings.

get_default_fmask() → int

Returns default_fmask settings. For more details see pconnection_settings.

get_settings() → *rfslib.pconnection_settings.pconnection_settings*

The procedure sets all generic settings for PConnection.

Returns A pconnection_settings object with all generic settings of PConnection.

isdir(*remote_path: str*)

lexists(*remote_path*)

Method which checks, whether a remote file exist. Returns True for broken symlinks.

Parameters **remote_path** – Path of a remote file.

Returns True, if remote file exists. False, if remote file doesn't exist.

listdir(*remote_path: str*)

Public method which returns a list of files in the folder including hidden files. It never returns '.' or '..'.

Parameters **remote_path** – The remote path of a remote folder.

Returns A list of files in the remote folder.

ls(*remote_path: str*)

lstat(*remote_path: str*) → *rfslib.abstract_pconnection.p_stat_result*

Returns statistics of a file (eg. size, last date modified,...) Doesn't follow symlinks.

Parameters **remote_path** – Path of a remote file.

Returns An object whose attributes correspond to the attributes of Python's stat structure as returned by os.stat, except that it contains fewer fields.

mkdir(*remote_path: str*)

A public method, which creates a folder. If directory can't be created, because a file already exist, an exception is raised. No other directories on path will be created and if any of them is missing, an exception is raised.

Parameters **remote_path** – A path, where to create a new directory.

mv(*old_names: List[str], new_name: str*)

pmkdir(*remote_path: str*)

pull(*remote_path: str, local_path: str*)

push(*local_path: str, remote_path: str*)

Uploads/pushes a file from a local storage to a remote storage in the binary form.

Parameters

- **local_path** – Path of a local file to upload.
- **remote_path** – Path on the remote storage, where to upload/push a local file.

rename(*old_name: str, new_name: str*)

rm(*remote_path: str, recursive: bool = False*)

rmdir(*remote_path: str*)

rpull(*remote_path: str, local_path: str*)

rpush(*local_path: str, remote_path: str*)

set_settings(*settings: rfslib.pconnection_settings.pconnection_settings*)

The procedure sets all generic settings for PConnection.

Parameters settings – A `pconnection_settings` object with all generic settings for PConnection. If some attribute in object is missing, no operation will be done with it.

stat(*remote_path: str*) → *rfslib.abstract_pconnection.p_stat_result*

Returns statistics of a file (eg. size, last date modified,...) Follows symlinks to a destination file.

Parameters remote_path – Path of a remote file.

Returns An object whose attributes correspond to the attributes of Python's `stat` structure as returned by `os.stat`, except that it contains fewer fields.

touch(*remote_path: str*)

unlink(*remote_path: str*)

xls(*remote_path: str*)

class `rfslib.abstract_pconnection.p_stat_result`

Bases: `object`

Representation of the attributes of a file (or proxied file). It attempts to mirror the object returned by `os.stat` as closely as possible.

__init__()

st_atime: int = None

This is the time of the last access of file data.

st_gid: int = None

This field contains the ID of the group owner of the file.

st_mode: int = None

This field contains the file type and mode.

st_mtime: int = None

This is the time of last modification of file data.

st_nlink: int = None

This field contains the number of hard links to the file.

st_size: int = None

This field gives the size of the file (if it is a regular file or a symbolic link) in bytes. The size of a symbolic link is the length of the pathname it contains, without a terminating null byte.

st_uid: int = None

This field contains the user ID of the owner of the file.

RFSLIB.SFTP_PCONNECTION MODULE

```
class rfslib.sftp_pconnection.SftpPConnection(settings:
    rfslib.pconnection_settings.pconnection_settings, host:
    str, username: str, password: Optional[str] = None,
    keyfile: str = '~/.ssh/id_rsa', port: int = 22,
    no_host_key_checking: bool = False)
```

Bases: *rfslib.abstract_pconnection.PConnection*

Class for SFTP connection. Public interface with an exception of `__init__` and `close` is inherited from `PConnection`.

```
__init__(settings: rfslib.pconnection_settings.pconnection_settings, host: str, username: str, password:
    Optional[str] = None, keyfile: str = '~/.ssh/id_rsa', port: int = 22, no_host_key_checking: bool =
    False)
```

The constructor of `SftpPConnection`. Opens SFTP connection, when called. If `None` password is specified, the key authentication will be used. Otherwise the password authentication will be used.

Parameters

- **settings** – The settings for the super class `PConnection`.
- **host** – Remote address of the server.
- **port** – Port for the SFTP connection.
- **username** – Remote username
- **password** – Password for a SFTP connection. If `None` is provided, key authentication will be used.
- **keyfile** – A path to key file.
- **no_host_key_checking** – Specifies, whether remote host key should be verified or not.

```
_exists(remote_path)
```

Protected method which checks, whether a remote file exist. If the remote file is a broken symlink, it returns `False`.

Parameters **remote_path** – Path of a remote file.

Returns `True`, if remote file is exist. `False`, if remote file doesn't exist

```
_isdir(remote_path)
```

Protected method which checks, whether a remote file is a directory. The function is `DEPRECATED` and will be substituted using `stat` or `lstat`.

Parameters **remote_path** – A path of a directory.

Returns `True`, if remote file is folder. `False`, if it isn't a folder. Undefined if the file doesn't exist.

_lexists(*remote_path*)

Protected method which checks, whether a remote file exist. If the remote file is a broken symlink, it returns True.

KNOWN BUG: Behavior is undefined in case of broken symlinks.

Parameters **remote_path** – Path of a remote file.

Returns True, if remote file is exist. False, if remote file doesn't exist

_listdir(*remote_path*)

Protected method which returns a list of files in the folder including hidden files. It might contain '.' and '..'. Undefined if the remote file doesn't exist or isn't a folder.

Parameters **remote_path** – The remote path of a remote folder.

Returns A list of files in the remote folder.

_mkdir(*remote_path*)

Protected method which creates a new directory. Behavior is undefined if remote folder already exist, or destination folder doesn't exist.

Parameters **remote_path** – A path of a new remote directory.

_pull(*remote_path*, *local_path*)

Protected method which downloads/pulls a nondirectory file from a remote storage to a local storage in the binary form. Behavior is undefined if source file or destination folder doesn't exist.

Parameters

- **remote_path** – Path of a remote file to download.
- **local_path** – Path of a local file, where to download/pull a remote file or local file already exists.

_push(*local_path*, *remote_path*)

Protected method which uploads/pushes a nondirectory file from a local storage to a remote storage in the binary form. Behavior is undefined if destination folder or source file doesn't exist, source is directory or remote file already exists.

Parameters

- **local_path** – Path of a local file to upload.
- **remote_path** – Path on the remote storage, where to upload/push a local file.

_rename(*old_name*, *new_name*)

Protected method which renames/moves a file. Behavior is undefined, if *new_name* file exists or *old_name* file doesn't exist.

Parameters

- **old_name** – Remote path a file to move.
- **new_name** – Remote path to which move the file.

_rmdir(*remote_path*)

Protected method which removes an empty remote directory. Behavior is undefined if remote directory doesn't exist or it isn't empty.

Parameters **remote_path** – Path of an empty remote directory to delete.

_stat(*remote_path*)

Protected method which returns statistics of a file (eg. size, last date modified,...) Follows symlinks to a destination file. Undefined behavior if remote file doesn't exist or it is a broken symlink.

Parameters **remote_path** – Path of a remote file.

Returns The function returns `os.stat_result` like object, which is further parsed by `_stat_unpack` function. For more details please see source code.

_unlink(*remote_path*)

Protected method which removes a nondirectory file. Behavior is undefined if remote file doesn't exist or is a directory.

Parameters **remote_path** – Path of a remote regular file to delete.

close()

Method to close the opened connection.

cp(*old_names: List[str], new_name: str, recursive: bool = False*)

dcp(*old_names: List[str], target_dir: str, recursive: bool = False*)

dmv(*old_names: List[str], target_dir: str*)

exists(*remote_path: str*) → bool

Method which checks, whether a remote file exist. Returns False for broken symlinks.

Parameters **remote_path** – Path of a remote file.

Returns True, if remote file exists. False, if remote file doesn't exist.

fcp(*old_name: str, new_name: str*)

find(*remote_path: str, child_first: bool = False*) → List[str]

A public method which returns DFS (depth-first search) of `remote_path` including hidden files. It never returns `'.'` or `'..'`.

Parameters **child_first** – If True, childs of a directory will be returned before the directory itself.

Returns The result of DFS as a list of `remote_paths`.

fmv(*old_name: str, new_name: str*)

get_default_dmask() → int

Returns `default_dmask` settings. For more details see `pconnection_settings`.

get_default_fmask() → int

Returns `default_fmask` settings. For more details see `pconnection_settings`.

get_settings() → *rfslib.pconnection_settings.pconnection_settings*

The procedure sets all generic settings for `PConnection`.

Returns A `pconnection_settings` object with all generic settings of `PConnection`.

isdir(*remote_path: str*)

lexists(*remote_path*)

Method which checks, whether a remote file exist. Returns True for broken symlinks.

Parameters **remote_path** – Path of a remote file.

Returns True, if remote file exists. False, if remote file doesn't exist.

listdir(*remote_path: str*)

Public method which returns a list of files in the folder including hidden files. It never returns `'.'` or `'..'`.

Parameters **remote_path** – The remote path of a remote folder.

Returns A list of files in the remote folder.

ls(remote_path: str)

lstat(remote_path: str) → *rfslib.abstract_pconnection.p_stat_result*

Returns statistics of a file (eg. size, last date modified,...) Doesn't follow symlinks.

Parameters **remote_path** – Path of a remote file.

Returns An object whose attributes correspond to the attributes of Python's stat structure as returned by os.stat, except that it contains fewer fields.

mkdir(remote_path: str)

A public method, which creates a folder. If directory can't be created, because a file already exist, an exception is raised. No other directories on path will be created and if any of them is missing, an exception is raised.

Parameters **remote_path** – A path, where to create a new directory.

mv(old_names: List[str], new_name: str)

pmkdir(remote_path: str)

pull(remote_path: str, local_path: str)

push(local_path: str, remote_path: str)

Uploads/pushes a file from a local storage to a remote storage in the binary form.

Parameters

- **local_path** – Path of a local file to upload.
- **remote_path** – Path on the remote storage, where to upload/push a local file.

rename(old_name: str, new_name: str)

rm(remote_path: str, recursive: bool = False)

rmdir(remote_path: str)

rpull(remote_path: str, local_path: str)

rpush(local_path: str, remote_path: str)

set_settings(settings: *rfslib.pconnection_settings.pconnection_settings*)

The procedure sets all generic settings for PConnection.

Parameters **settings** – A pconnection_settings object with all generic settings for PConnection. If some attribute in object is missing, no operation will be done with it.

stat(remote_path: str) → *rfslib.abstract_pconnection.p_stat_result*

Returns statistics of a file (eg. size, last date modified,...) Follows symlinks to a destination file.

Parameters **remote_path** – Path of a remote file.

Returns An object whose attributes correspond to the attributes of Python's stat structure as returned by os.stat, except that it contains fewer fields.

touch(remote_path: str)

unlink(remote_path: str)

xls(remote_path: str)

RFSLIB.FTP_PCONNECTION MODULE

```
class rfslib.ftp_pconnection.FtpPConnection(settings: rfslib.pconnection_settings.pconnection_settings,
                                             host: str, username: str, password: str, port: int = 21, tls:
                                             bool = False, passive_mode: bool = False, debug_level:
                                             int = 1, connection_encoding: str = 'UTF8',
                                             dont_use_list_a: bool = False)
```

Bases: *rfslib.abstract_pconnection.PConnection*

Class for FTP connection. Public interface with an exception of `__init__` and `close` is inherited from `PConnection`.

```
__init__(settings: rfslib.pconnection_settings.pconnection_settings, host: str, username: str, password: str,
          port: int = 21, tls: bool = False, passive_mode: bool = False, debug_level: int = 1,
          connection_encoding: str = 'UTF8', dont_use_list_a: bool = False)
```

The constructor of `FtpPConnection`.

Parameters

- **settings** – The settings for the super class `PConnection`.
- **host** – Remote address of the server.
- **port** – Port for a connection.
- **username** – Remote username.
- **password** – Remote password.
- **tls** – Enables TLS.
- **passive_mode** – Enables passive mode of FTP connection.
- **debug_level** – Specifies how much logs should be generated. 0 - almost non, 1 - more, 2 - log almost everything
- **connection_encoding** – Encoding used for a connection.
- **dont_use_list_a** – Disables usage of `LIST -a` command and uses `LIST` command instead. You might consider using option `direct_write` when using `dont_use_list_a`.

```
_exists(remote_path)
```

Protected method which checks, whether a remote file exist. If the remote file is a broken symlink, it returns `False`.

Parameters **remote_path** – Path of a remote file.

Returns `True`, if remote file is exist. `False`, if remote file doesn't exist

_isdir(*remote_path*)

Protected method which checks, whether a remote file is a directory. The function is DEPRECATED and will be substituted using stat or lstat.

Parameters **remote_path** – A path of a directory.

Returns True, if remote file is folder. False, if it isn't a folder. Undefined if the file doesn't exist.

_lexists(*remote_path*)

Protected method which checks, whether a remote file exist. If the remote file is a broken symlink, it returns True.

KNOWN BUG: Behavior is undefined in case of broken symlinks.

Parameters **remote_path** – Path of a remote file.

Returns True, if remote file is exist. False, if remote file doesn't exist

_listdir(*remote_path*)

Protected method which returns a list of files in the folder including hidden files. It might contain '.' and '..'. Undefined if the remote file doesn't exist or isn't a folder.

Parameters **remote_path** – The remote path of a remote folder.

Returns A list of files in the remote folder.

_mkdir(*remote_path*)

Protected method which creates a new directory. Behavior is undefined if remote folder already exist, or destination folder doesn't exist.

Parameters **remote_path** – A path of a new remote directory.

_pull(*remote_path*, *local_path*)

Protected method which downloads/pulls a nondirectory file from a remote storage to a local storage in the binary form. Behavior is undefined if source file or destination folder doesn't exist.

Parameters

- **remote_path** – Path of a remote file to download.
- **local_path** – Path of a local file, where to download/pull a remote file or local file already exists.

_push(*local_path*, *remote_path*)

Protected method which uploads/pushes a nondirectory file from a local storage to a remote storage in the binary form. Behavior is undefined if destination folder or source file doesn't exist, source is directory or remote file already exists.

Parameters

- **local_path** – Path of a local file to upload.
- **remote_path** – Path on the remote storage, where to upload/push a local file.

_rename(*old_name*, *new_name*)

Protected method which renames/moves a file. Behavior is undefined, if *new_name* file exists or *old_name* file doesn't exist.

Parameters

- **old_name** – Remote path a file to move.
- **new_name** – Remote path to which move the file.

_rmdir(*remote_path*)

Protected method which removes an empty remote directory. Behavior is undefined if remote directory doesn't exist or it isn't empty.

Parameters **remote_path** – Path of an empty remote directory to delete.

_stat(*remote_path*)

Protected method which returns statistics of a file (eg. size, last date modified,...) Follows symlinks to a destination file. Undefined behavior if remote file doesn't exist or it is a broken symlink.

Parameters **remote_path** – Path of a remote file.

Returns The function returns `os.stat_result` like object, which is further parsed by `_stat_unpack` function. For more details please see source code.

_unlink(*remote_path*)

Protected method which removes a nondirectory file. Behavior is undefined if remote file doesn't exist or is a directory.

Parameters **remote_path** – Path of a remote regular file to delete.

close()

Method to close the opened connection.

cp(*old_names: List[str], new_name: str, recursive: bool = False*)

dcp(*old_names: List[str], target_dir: str, recursive: bool = False*)

dmv(*old_names: List[str], target_dir: str*)

exists(*remote_path: str*) → bool

Method which checks, whether a remote file exist. Returns False for broken symlinks.

Parameters **remote_path** – Path of a remote file.

Returns True, if remote file exists. False, if remote file doesn't exist.

fc(*old_name: str, new_name: str*)

find(*remote_path: str, child_first: bool = False*) → List[str]

A public method which returns DFS (depth-first search) of *remote_path* including hidden files. It never returns '.' or '..'.

Parameters **child_first** – If True, childs of a directory will be returned before the directory itself.

Returns The result of DFS as a list of *remote_paths*.

fmv(*old_name: str, new_name: str*)

get_default_dmask() → int

Returns default_dmask settings. For more details see `pconnection_settings`.

get_default_fmask() → int

Returns default_fmask settings. For more details see `pconnection_settings`.

get_settings() → [*rfslib.pconnection_settings.pconnection_settings*](#)

The procedure sets all generic settings for PConnection.

Returns A `pconnection_settings` object with all generic settings of PConnection.

isdir(*remote_path: str*)

lexists(*remote_path*)

Method which checks, whether a remote file exist. Returns True for broken symlinks.

Parameters **remote_path** – Path of a remote file.

Returns True, if remote file exists. False, if remote file doesn't exist.

listdir(*remote_path: str*)

Public method which returns a list of files in the folder including hidden files. It never returns '.' or '..'.

Parameters **remote_path** – The remote path of a remote folder.

Returns A list of files in the remote folder.

ls(*remote_path: str*)

lstat(*remote_path: str*) → *rfslib.abstract_pconnection.p_stat_result*

Returns statistics of a file (eg. size, last date modified,...) Doesn't follow symlinks.

Parameters **remote_path** – Path of a remote file.

Returns An object whose attributes correspond to the attributes of Python's stat structure as returned by os.stat, except that it contains fewer fields.

mkdir(*remote_path: str*)

A public method, which creates a folder. If directory can't be created, because a file already exist, an exception is raised. No other directories on path will be created and if any of them is missing, an exception is raised.

Parameters **remote_path** – A path, where to create a new directory.

mv(*old_names: List[str], new_name: str*)

pmkdir(*remote_path: str*)

pull(*remote_path: str, local_path: str*)

push(*local_path: str, remote_path: str*)

Uploads/pushes a file from a local storage to a remote storage in the binary form.

Parameters

- **local_path** – Path of a local file to upload.
- **remote_path** – Path on the remote storage, where to upload/push a local file.

rename(*old_name: str, new_name: str*)

rm(*remote_path: str, recursive: bool = False*)

rmdir(*remote_path: str*)

rpull(*remote_path: str, local_path: str*)

rpush(*local_path: str, remote_path: str*)

set_settings(*settings: rfslib.pconnection_settings.pconnection_settings*)

The procedure sets all generic settings for PConnection.

Parameters **settings** – A pconnection_settings object with all generic settings for PConnection. If some attribute in object is missing, no operation will be done with it.

stat(*remote_path: str*) → *rfslib.abstract_pconnection.p_stat_result*

Returns statistics of a file (eg. size, last date modified,...) Follows symlinks to a destination file.

Parameters **remote_path** – Path of a remote file.

Returns An object whose attributes correspond to the attributes of Python's stat structure as returned by os.stat, except that it contains fewer fields.

touch(*remote_path: str*)

unlink(*remote_path: str*)

xls(*remote_path: str*)

RFSLIB.SMB12_PCONNECTION MODULE

```
class rfslib.smb12_pconnection.Smb12PConnection(settings:
    rfslib.pconnection_settings.pconnection_settings,
    host: str, service_name: str, username: str, password:
    str, port: int = 139, use_direct_tcp: bool = False,
    client_name: str = 'RFS', use_ntlm_v1: bool = False)
```

Bases: `rfslib.abstract_pconnection.PConnection`

Class for SMB connection version 1 or 2. Public interface with an exception of `__init__` and `close` is inherited from `PConnection`.

```
__init__(settings: rfslib.pconnection_settings.pconnection_settings, host: str, service_name: str, username:
    str, password: str, port: int = 139, use_direct_tcp: bool = False, client_name: str = 'RFS',
    use_ntlm_v1: bool = False)
```

The constructor of `Smb12PConnection`. Opens SMB connection version 1 or 2, when called.

Parameters

- **settings** – The settings for the super class `PConnection`.
- **host** – Remote address of the server.
- **service_name** – Name of a shared folder.
- **port** – Port for the SMB connection.
- **username** – Remote username.
- **password** – Remote password.
- **use_direct_tcp** – Activates direct tcp mode for SMB.
- **client_name** – Name of this client, which will be sent to a server.
- **use_ntlm_v1** – Enables NTLM version 1 instead of NTLM version 2.

```
_exists(remote_path)
```

Protected method which checks, whether a remote file exist. If the remote file is a broken symlink, it returns `False`.

Parameters **remote_path** – Path of a remote file.

Returns `True`, if remote file is exist. `False`, if remote file doesn't exist

```
_isdir(remote_path)
```

Protected method which checks, whether a remote file is a directory. The function is `DEPRECATED` and will be substituted using `stat` or `lstat`.

Parameters **remote_path** – A path of a directory.

Returns `True`, if remote file is folder. `False`, if it isn't a folder. Undefined if the file doesn't exist.

_lexists(*remote_path*)

Protected method which checks, whether a remote file exist. If the remote file is a broken symlink, it returns True.

KNOWN BUG: Behavior is undefined in case of broken symlinks.

Parameters **remote_path** – Path of a remote file.

Returns True, if remote file is exist. False, if remote file doesn't exist

_listdir(*remote_path*)

Protected method which returns a list of files in the folder including hidden files. It might contain '.' and '..'. Undefined if the remote file doesn't exist or isn't a folder.

Parameters **remote_path** – The remote path of a remote folder.

Returns A list of files in the remote folder.

_mkdir(*remote_path*)

Protected method which creates a new directory. Behavior is undefined if remote folder already exist, or destination folder doesn't exist.

Parameters **remote_path** – A path of a new remote directory.

_pull(*remote_path*, *local_path*)

Protected method which downloads/pulls a nondirectory file from a remote storage to a local storage in the binary form. Behavior is undefined if source file or destination folder doesn't exist.

Parameters

- **remote_path** – Path of a remote file to download.
- **local_path** – Path of a local file, where to download/pull a remote file or local file already exists.

_push(*local_path*, *remote_path*)

Protected method which uploads/pushes a nondirectory file from a local storage to a remote storage in the binary form. Behavior is undefined if destination folder or source file doesn't exist, source is directory or remote file already exists.

Parameters

- **local_path** – Path of a local file to upload.
- **remote_path** – Path on the remote storage, where to upload/push a local file.

_rename(*old_name*, *new_name*)

Protected method which renames/moves a file. Behavior is undefined, if *new_name* file exists or *old_name* file doesn't exist.

Parameters

- **old_name** – Remote path a file to move.
- **new_name** – Remote path to which move the file.

_rmdir(*remote_path*)

Protected method which removes an empty remote directory. Behavior is undefined if remote directory doesn't exist or it isn't empty.

Parameters **remote_path** – Path of an empty remote directory to delete.

_stat(*remote_path*)

Protected method which returns statistics of a file (eg. size, last date modified,...) Follows symlinks to a destination file. Undefined behavior if remote file doesn't exist or it is a broken symlink.

Parameters **remote_path** – Path of a remote file.

Returns The function returns `os.stat_result` like object, which is further parsed by `_stat_unpack` function. For more details please see source code.

_unlink(*remote_path*)

Protected method which removes a nondirectory file. Behavior is undefined if remote file doesn't exist or is a directory.

Parameters **remote_path** – Path of a remote regular file to delete.

close()

Method to close the opened connection.

cp(*old_names: List[str], new_name: str, recursive: bool = False*)

dcp(*old_names: List[str], target_dir: str, recursive: bool = False*)

dmv(*old_names: List[str], target_dir: str*)

exists(*remote_path: str*) → bool

Method which checks, whether a remote file exist. Returns False for broken symlinks.

Parameters **remote_path** – Path of a remote file.

Returns True, if remote file exists. False, if remote file doesn't exist.

fcp(*old_name: str, new_name: str*)

find(*remote_path: str, child_first: bool = False*) → List[str]

A public method which returns DFS (depth-first search) of `remote_path` including hidden files. It never returns `'.'` or `'..'`.

Parameters **child_first** – If True, childs of a directory will be returned before the directory itself.

Returns The result of DFS as a list of `remote_paths`.

fmv(*old_name: str, new_name: str*)

get_default_dmask() → int

Returns `default_dmask` settings. For more details see `pconnection_settings`.

get_default_fmask() → int

Returns `default_fmask` settings. For more details see `pconnection_settings`.

get_settings() → *rfslib.pconnection_settings.pconnection_settings*

The procedure sets all generic settings for `PConnection`.

Returns A `pconnection_settings` object with all generic settings of `PConnection`.

isdir(*remote_path: str*)

lexists(*remote_path*)

Method which checks, whether a remote file exist. Returns True for broken symlinks.

Parameters **remote_path** – Path of a remote file.

Returns True, if remote file exists. False, if remote file doesn't exist.

listdir(*remote_path: str*)

Public method which returns a list of files in the folder including hidden files. It never returns `'.'` or `'..'`.

Parameters **remote_path** – The remote path of a remote folder.

Returns A list of files in the remote folder.

ls(remote_path: str)

lstat(remote_path: str) → *rfslib.abstract_pconnection.p_stat_result*

Returns statistics of a file (eg. size, last date modified,...) Doesn't follow symlinks.

Parameters **remote_path** – Path of a remote file.

Returns An object whose attributes correspond to the attributes of Python's stat structure as returned by os.stat, except that it contains fewer fields.

mkdir(remote_path: str)

A public method, which creates a folder. If directory can't be created, because a file already exist, an exception is raised. No other directories on path will be created and if any of them is missing, an exception is raised.

Parameters **remote_path** – A path, where to create a new directory.

mv(old_names: List[str], new_name: str)

pmkdir(remote_path: str)

pull(remote_path: str, local_path: str)

push(local_path: str, remote_path: str)

Uploads/pushes a file from a local storage to a remote storage in the binary form.

Parameters

- **local_path** – Path of a local file to upload.
- **remote_path** – Path on the remote storage, where to upload/push a local file.

rename(old_name: str, new_name: str)

rm(remote_path: str, recursive: bool = False)

rmdir(remote_path: str)

rpull(remote_path: str, local_path: str)

rpush(local_path: str, remote_path: str)

set_settings(settings: *rfslib.pconnection_settings.pconnection_settings*)

The procedure sets all generic settings for PConnection.

Parameters **settings** – A pconnection_settings object with all generic settings for PConnection. If some attribute in object is missing, no operation will be done with it.

stat(remote_path: str) → *rfslib.abstract_pconnection.p_stat_result*

Returns statistics of a file (eg. size, last date modified,...) Follows symlinks to a destination file.

Parameters **remote_path** – Path of a remote file.

Returns An object whose attributes correspond to the attributes of Python's stat structure as returned by os.stat, except that it contains fewer fields.

touch(remote_path: str)

unlink(remote_path: str)

xls(remote_path: str)

RFSLIB.SMB23_PCONNECTION MODULE

```
class rfslib.smb23_pconnection.Smb23PConnection(settings:
    rfslib.pconnection_settings.pconnection_settings,
    host: str, service_name: str, username: str, password:
    str, port: int = 445, enable_encryption: bool = False,
    dont_require_signing: bool = False)
```

Bases: *rfslib.abstract_pconnection.PConnection*

Class for SMB connection version 2 or 3. Public interface with an exception of `__init__` and `close` is inherited from `PConnection`.

```
__init__(settings: rfslib.pconnection_settings.pconnection_settings, host: str, service_name: str, username:
    str, password: str, port: int = 445, enable_encryption: bool = False, dont_require_signing: bool =
    False)
```

The constructor of `Smb23PConnection`. Opens SMB connection version 2 or 3, when called.

Parameters

- **settings** – The settings for the super class `PConnection`.
- **service_name** – Name of a shared folder.
- **host** – Remote address of the server.
- **port** – Port for a SMB connection.
- **username** – Remote username
- **password** – Password for a SMB connection.
- **enable_encryption** – Enables encryption for a SMB3 connection.
- **dont_require_signing** – Disables signing requirement.

```
_exists(remote_path)
```

Protected method which checks, whether a remote file exist. If the remote file is a broken symlink, it returns `False`.

Parameters **remote_path** – Path of a remote file.

Returns `True`, if remote file is exist. `False`, if remote file doesn't exist

```
_isdir(remote_path)
```

Protected method which checks, whether a remote file is a directory. The function is `DEPRECATED` and will be substituted using `stat` or `lstat`.

Parameters **remote_path** – A path of a directory.

Returns `True`, if remote file is folder. `False`, if it isn't a folder. Undefined if the file doesn't exist.

_lexists(*remote_path*)

Protected method which checks, whether a remote file exist. If the remote file is a broken symlink, it returns True.

KNOWN BUG: Behavior is undefined in case of broken symlinks.

Parameters **remote_path** – Path of a remote file.

Returns True, if remote file is exist. False, if remote file doesn't exist

_listdir(*remote_path*)

Protected method which returns a list of files in the folder including hidden files. It might contain '.' and '..'. Undefined if the remote file doesn't exist or isn't a folder.

Parameters **remote_path** – The remote path of a remote folder.

Returns A list of files in the remote folder.

_mkdir(*remote_path*)

Protected method which creates a new directory. Behavior is undefined if remote folder already exist, or destination folder doesn't exist.

Parameters **remote_path** – A path of a new remote directory.

_pull(*remote_path*, *local_path*)

Protected method which downloads/pulls a nondirectory file from a remote storage to a local storage in the binary form. Behavior is undefined if source file or destination folder doesn't exist.

Parameters

- **remote_path** – Path of a remote file to download.
- **local_path** – Path of a local file, where to download/pull a remote file or local file already exists.

_push(*local_path*, *remote_path*)

Protected method which uploads/pushes a nondirectory file from a local storage to a remote storage in the binary form. Behavior is undefined if destination folder or source file doesn't exist, source is directory or remote file already exists.

Parameters

- **local_path** – Path of a local file to upload.
- **remote_path** – Path on the remote storage, where to upload/push a local file.

_rename(*old_name*, *new_name*)

Protected method which renames/moves a file. Behavior is undefined, if *new_name* file exists or *old_name* file doesn't exist.

Parameters

- **old_name** – Remote path a file to move.
- **new_name** – Remote path to which move the file.

_rmdir(*remote_path*)

Protected method which removes an empty remote directory. Behavior is undefined if remote directory doesn't exist or it isn't empty.

Parameters **remote_path** – Path of an empty remote directory to delete.

_stat(*remote_path*)

Protected method which returns statistics of a file (eg. size, last date modified,...) Follows symlinks to a destination file. Undefined behavior if remote file doesn't exist or it is a broken symlink.

Parameters **remote_path** – Path of a remote file.

Returns The function returns `os.stat_result` like object, which is further parsed by `_stat_unpack` function. For more details please see source code.

_unlink(*remote_path*)

Protected method which removes a nondirectory file. Behavior is undefined if remote file doesn't exist or is a directory.

Parameters **remote_path** – Path of a remote regular file to delete.

close()

Method to close the opened connection.

cp(*old_names: List[str], new_name: str, recursive: bool = False*)

dcp(*old_names: List[str], target_dir: str, recursive: bool = False*)

dmv(*old_names: List[str], target_dir: str*)

exists(*remote_path: str*) → bool

Method which checks, whether a remote file exist. Returns False for broken symlinks.

Parameters **remote_path** – Path of a remote file.

Returns True, if remote file exists. False, if remote file doesn't exist.

fcp(*old_name: str, new_name: str*)

find(*remote_path: str, child_first: bool = False*) → List[str]

A public method which returns DFS (depth-first search) of `remote_path` including hidden files. It never returns `'.'` or `'..'`.

Parameters **child_first** – If True, childs of a directory will be returned before the directory itself.

Returns The result of DFS as a list of `remote_paths`.

fmv(*old_name: str, new_name: str*)

get_default_dmask() → int

Returns `default_dmask` settings. For more details see `pconnection_settings`.

get_default_fmask() → int

Returns `default_fmask` settings. For more details see `pconnection_settings`.

get_settings() → *rfslib.pconnection_settings.pconnection_settings*

The procedure sets all generic settings for `PConnection`.

Returns A `pconnection_settings` object with all generic settings of `PConnection`.

isdir(*remote_path: str*)

lexists(*remote_path*)

Method which checks, whether a remote file exist. Returns True for broken symlinks.

Parameters **remote_path** – Path of a remote file.

Returns True, if remote file exists. False, if remote file doesn't exist.

listdir(*remote_path: str*)

Public method which returns a list of files in the folder including hidden files. It never returns `'.'` or `'..'`.

Parameters **remote_path** – The remote path of a remote folder.

Returns A list of files in the remote folder.

ls(remote_path: str)

lstat(remote_path: str) → *rfslib.abstract_pconnection.p_stat_result*

Returns statistics of a file (eg. size, last date modified,...) Doesn't follow symlinks.

Parameters **remote_path** – Path of a remote file.

Returns An object whose attributes correspond to the attributes of Python's stat structure as returned by os.stat, except that it contains fewer fields.

mkdir(remote_path: str)

A public method, which creates a folder. If directory can't be created, because a file already exist, an exception is raised. No other directories on path will be created and if any of them is missing, an exception is raised.

Parameters **remote_path** – A path, where to create a new directory.

mv(old_names: List[str], new_name: str)

pmkdir(remote_path: str)

pull(remote_path: str, local_path: str)

push(local_path: str, remote_path: str)

Uploads/pushes a file from a local storage to a remote storage in the binary form.

Parameters

- **local_path** – Path of a local file to upload.
- **remote_path** – Path on the remote storage, where to upload/push a local file.

rename(old_name: str, new_name: str)

rm(remote_path: str, recursive: bool = False)

rmdir(remote_path: str)

rpull(remote_path: str, local_path: str)

rpush(local_path: str, remote_path: str)

set_settings(settings: *rfslib.pconnection_settings.pconnection_settings*)

The procedure sets all generic settings for PConnection.

Parameters **settings** – A pconnection_settings object with all generic settings for PConnection. If some attribute in object is missing, no operation will be done with it.

stat(remote_path: str) → *rfslib.abstract_pconnection.p_stat_result*

Returns statistics of a file (eg. size, last date modified,...) Follows symlinks to a destination file.

Parameters **remote_path** – Path of a remote file.

Returns An object whose attributes correspond to the attributes of Python's stat structure as returned by os.stat, except that it contains fewer fields.

touch(remote_path: str)

unlink(remote_path: str)

xls(remote_path: str)

rfslib.smb23_pconnection.config_smb23(no_dfs: bool = False, disable_secure_negotiate: bool = False, dfs_domain_controller: Optional[str] = None)

The procedure changes global setting for SMB version 2 or 3 across all connection. Don't change value, if any SMB connection version 2 or 3 is active.

Parameters

- **no_dfs** – Disables DFS support - useful as a bug fix.
- **disable_secure_negotiate** – Disables secure negotiate requirement for a SMB connection.
- **dfs_domain_controller** – The DFS domain controller address. Useful in case, when rfstools fails to find it itself.

RFSLIB.FS_PCONNECTION MODULE

class rfslib.fs_pconnection.FsPConnection(settings: rfslib.pconnection_settings.pconnection_settings)

Bases: *rfslib.abstract_pconnection.PConnection*

Class for operating with local filesystem. Public interface with an exception of `__init__` and `close` is inherited from `PConnection`.

__init__(settings: rfslib.pconnection_settings.pconnection_settings)

The constructor of `FsPConnection`.

Parameters settings – The settings for super class `PConnection`.

_exists(remote_path)

Protected method which checks, whether a remote file exist. If the remote file is a broken symlink, it returns `False`.

Parameters remote_path – Path of a remote file.

Returns `True`, if remote file is exist. `False`, if remote file doesn't exist

_isdir(remote_path)

Protected method which checks, whether a remote file is a directory. The function is `DEPRECATED` and will be substituted using `stat` or `lstat`.

Parameters remote_path – A path of a directory.

Returns `True`, if remote file is folder. `False`, if it isn't a folder. Undefined if the file doesn't exist.

_lexists(remote_path)

Protected method which checks, whether a remote file exist. If the remote file is a broken symlink, it returns `True`.

KNOWN BUG: Behavior is undefined in case of broken symlinks.

Parameters remote_path – Path of a remote file.

Returns `True`, if remote file is exist. `False`, if remote file doesn't exist

_listdir(remote_path)

Protected method which returns a list of files in the folder including hidden files. It might contain `'.'` and `'..'`. Undefined if the remote file doesn't exist or isn't a folder.

Parameters remote_path – The remote path of a remote folder.

Returns A list of files in the remote folder.

_mkdir(remote_path)

Protected method which creates a new directory. Behavior is undefined if remote folder already exist, or destination folder doesn't exist.

Parameters remote_path – A path of a new remote directory.

`_pull(remote_path, local_path)`

Protected method which downloads/pulls a nondirectory file from a remote storage to a local storage in the binary form. Behavior is undefined if source file or destination folder doesn't exist.

Parameters

- **`remote_path`** – Path of a remote file to download.
- **`local_path`** – Path of a local file, where to download/pull a remote file or local file already exists.

`_push(local_path, remote_path)`

Protected method which uploads/pushes a nondirectory file from a local storage to a remote storage in the binary form. Behavior is undefined if destination folder or source file doesn't exist, source is directory or remote file already exists.

Parameters

- **`local_path`** – Path of a local file to upload.
- **`remote_path`** – Path on the remote storage, where to upload/push a local file.

`_rename(old_name, new_name)`

Protected method which renames/moves a file. Behavior is undefined, if *new_name* file exists or *old_name* file doesn't exist.

Parameters

- **`old_name`** – Remote path a file to move.
- **`new_name`** – Remote path to which move the file.

`_rmdir(remote_path)`

Protected method which removes an empty remote directory. Behavior is undefined if remote directory doesn't exist or it isn't empty.

Parameters **`remote_path`** – Path of an empty remote directory to delete.

`_stat(remote_path)`

Protected method which returns statistics of a file (eg. size, last date modified,...) Follows symlinks to a destination file. Undefined behavior if remote file doesn't exist or it is a broken symlink.

Parameters **`remote_path`** – Path of a remote file.

Returns The function returns `os.stat_result` like object, which is further parsed by `_stat_unpack` function. For more details please see source code.

`_unlink(remote_path)`

Protected method which removes a nondirectory file. Behavior is undefined if remote file doesn't exist or is a directory.

Parameters **`remote_path`** – Path of a remote regular file to delete.

`close()`

Method to close the opened connection.

`cp(old_names: List[str], new_name: str, recursive: bool = False)`

`dcp(old_names: List[str], target_dir: str, recursive: bool = False)`

`dmv(old_names: List[str], target_dir: str)`

`exists(remote_path: str) → bool`

Method which checks, whether a remote file exist. Returns False for broken symlinks.

Parameters **`remote_path`** – Path of a remote file.

Returns True, if remote file exists. False, if remote file doesn't exist.

fcv(old_name: str, new_name: str)

find(remote_path: str, child_first: bool = False) → List[str]

A public method which returns DFS (depth-first search) of remote_path including hidden files. It never returns '.' or '..'.

Parameters **child_first** – If True, childs of a directory will be returned before the directory itself.

Returns The result of DFS as a list of remote_paths.

fmv(old_name: str, new_name: str)

get_default_dmask() → int

Returns default_dmask settings. For more details see pconnection_settings.

get_default_fmask() → int

Returns default_fmask settings. For more details see pconnection_settings.

get_settings() → *rfslib.pconnection_settings.pconnection_settings*

The procedure sets all generic settings for PConnection.

Returns A pconnection_settings object with all generic settings of PConnection.

isdir(remote_path: str)

lexists(remote_path)

Method which checks, whether a remote file exist. Returns True for broken symlinks.

Parameters **remote_path** – Path of a remote file.

Returns True, if remote file exists. False, if remote file doesn't exist.

listdir(remote_path: str)

Public method which returns a list of files in the folder including hidden files. It never returns '.' or '..'.

Parameters **remote_path** – The remote path of a remote folder.

Returns A list of files in the remote folder.

ls(remote_path: str)

lstat(remote_path: str) → *rfslib.abstract_pconnection.p_stat_result*

Returns statistics of a file (eg. size, last date modified,...) Doesn't follow symlinks.

Parameters **remote_path** – Path of a remote file.

Returns An object whose attributes correspond to the attributes of Python's stat structure as returned by os.stat, except that it contains fewer fields.

mkdir(remote_path: str)

A public method, which creates a folder. If directory can't be created, because a file already exist, an exception is raised. No other directories on path will be created and if any of them is missing, an exception is raised.

Parameters **remote_path** – A path, where to create a new directory.

mv(old_names: List[str], new_name: str)

pmkdir(remote_path: str)

pull(remote_path: str, local_path: str)

push(local_path: str, remote_path: str)

Uploads/pushes a file from a local storage to a remote storage in the binary form.

Parameters

- **local_path** – Path of a local file to upload.
- **remote_path** – Path on the remote storage, where to upload/push a local file.

rename(*old_name: str, new_name: str*)

rm(*remote_path: str, recursive: bool = False*)

rmdir(*remote_path: str*)

rpull(*remote_path: str, local_path: str*)

rpush(*local_path: str, remote_path: str*)

set_settings(*settings: rfslib.pconnection_settings.pconnection_settings*)

The procedure sets all generic settings for PConnection.

Parameters settings – A `pconnection_settings` object with all generic settings for PConnection. If some attribute in object is missing, no operation will be done with it.

stat(*remote_path: str*) → *rfslib.abstract_pconnection.p_stat_result*

Returns statistics of a file (eg. size, last date modified,...) Follows symlinks to a destination file.

Parameters remote_path – Path of a remote file.

Returns An object whose attributes correspond to the attributes of Python's `stat` structure as returned by `os.stat`, except that it contains fewer fields.

touch(*remote_path: str*)

unlink(*remote_path: str*)

xls(*remote_path: str*)

RFSLIB.PATH_UTILS MODULE

```
class rfslib.path_utils.GenericPath(path)
    Bases: object
    __init__(path)
rfslib.path_utils.add_r_prefix(path)
rfslib.path_utils.generic_cp(conn, sources, dest, recursive=False)
rfslib.path_utils.generic_mv(conn, sources, dest)
rfslib.path_utils.generic_path_normalize(path)
rfslib.path_utils.is_remote(path)
rfslib.path_utils.path_normalize(path)
rfslib.path_utils.remove_r_prefix(path)
```


PYTHON MODULE INDEX

r

- `rfslib`, [3](#)
- `rfslib.abstract_pconnection`, [5](#)
- `rfslib.fs_pconnection`, [31](#)
- `rfslib.ftp_pconnection`, [15](#)
- `rfslib.path_utils`, [35](#)
- `rfslib.sftp_pconnection`, [11](#)
- `rfslib.smb12_pconnection`, [21](#)
- `rfslib.smb23_pconnection`, [25](#)

INDEX

Symbols

<code>__init__()</code> (<code>rfslib.abstract_pconnection.PConnection</code> method), 5	<code>_lexists()</code> (<code>rfslib.fs_pconnection.FsPConnection</code> method), 31
<code>__init__()</code> (<code>rfslib.abstract_pconnection.p_stat_result</code> method), 8	<code>_lexists()</code> (<code>rfslib.ftp_pconnection.FtpPConnection</code> method), 16
<code>__init__()</code> (<code>rfslib.fs_pconnection.FsPConnection</code> method), 31	<code>_lexists()</code> (<code>rfslib.sftp_pconnection.SftpPConnection</code> method), 11
<code>__init__()</code> (<code>rfslib.ftp_pconnection.FtpPConnection</code> method), 15	<code>_lexists()</code> (<code>rfslib.smb12_pconnection.Smb12PConnection</code> method), 21
<code>__init__()</code> (<code>rfslib.path_utils.GenericPath</code> method), 35	<code>_lexists()</code> (<code>rfslib.smb23_pconnection.Smb23PConnection</code> method), 25
<code>__init__()</code> (<code>rfslib.pconnection_settings</code> method), 3	<code>_listdir()</code> (<code>rfslib.abstract_pconnection.PConnection</code> method), 5
<code>__init__()</code> (<code>rfslib.sftp_pconnection.SftpPConnection</code> method), 11	<code>_listdir()</code> (<code>rfslib.fs_pconnection.FsPConnection</code> method), 31
<code>__init__()</code> (<code>rfslib.smb12_pconnection.Smb12PConnection</code> method), 21	<code>_listdir()</code> (<code>rfslib.ftp_pconnection.FtpPConnection</code> method), 16
<code>__init__()</code> (<code>rfslib.smb23_pconnection.Smb23PConnection</code> method), 25	<code>_listdir()</code> (<code>rfslib.sftp_pconnection.SftpPConnection</code> method), 12
<code>_exists()</code> (<code>rfslib.abstract_pconnection.PConnection</code> method), 5	<code>_listdir()</code> (<code>rfslib.smb12_pconnection.Smb12PConnection</code> method), 22
<code>_exists()</code> (<code>rfslib.fs_pconnection.FsPConnection</code> method), 31	<code>_listdir()</code> (<code>rfslib.smb23_pconnection.Smb23PConnection</code> method), 26
<code>_exists()</code> (<code>rfslib.ftp_pconnection.FtpPConnection</code> method), 15	<code>_mkdir()</code> (<code>rfslib.abstract_pconnection.PConnection</code> method), 5
<code>_exists()</code> (<code>rfslib.sftp_pconnection.SftpPConnection</code> method), 11	<code>_mkdir()</code> (<code>rfslib.fs_pconnection.FsPConnection</code> method), 31
<code>_exists()</code> (<code>rfslib.smb12_pconnection.Smb12PConnection</code> method), 21	<code>_mkdir()</code> (<code>rfslib.ftp_pconnection.FtpPConnection</code> method), 16
<code>_exists()</code> (<code>rfslib.smb23_pconnection.Smb23PConnection</code> method), 25	<code>_mkdir()</code> (<code>rfslib.sftp_pconnection.SftpPConnection</code> method), 12
<code>_isdir()</code> (<code>rfslib.abstract_pconnection.PConnection</code> method), 5	<code>_mkdir()</code> (<code>rfslib.smb12_pconnection.Smb12PConnection</code> method), 22
<code>_isdir()</code> (<code>rfslib.fs_pconnection.FsPConnection</code> method), 31	<code>_mkdir()</code> (<code>rfslib.smb23_pconnection.Smb23PConnection</code> method), 26
<code>_isdir()</code> (<code>rfslib.ftp_pconnection.FtpPConnection</code> method), 15	<code>_pull()</code> (<code>rfslib.abstract_pconnection.PConnection</code> method), 6
<code>_isdir()</code> (<code>rfslib.sftp_pconnection.SftpPConnection</code> method), 11	<code>_pull()</code> (<code>rfslib.fs_pconnection.FsPConnection</code> method), 31
<code>_isdir()</code> (<code>rfslib.smb12_pconnection.Smb12PConnection</code> method), 21	<code>_pull()</code> (<code>rfslib.ftp_pconnection.FtpPConnection</code> method), 16
<code>_isdir()</code> (<code>rfslib.smb23_pconnection.Smb23PConnection</code> method), 25	<code>_pull()</code> (<code>rfslib.sftp_pconnection.SftpPConnection</code> method), 11
<code>_lexists()</code> (<code>rfslib.abstract_pconnection.PConnection</code> method), 5	

`method)`, 12
`_pull()` (`rfslib.smb12_pconnection.Smb12PConnection`
`method)`, 22
`_pull()` (`rfslib.smb23_pconnection.Smb23PConnection`
`method)`, 26
`_push()` (`rfslib.abstract_pconnection.PConnection`
`method)`, 6
`_push()` (`rfslib.fs_pconnection.FsPConnection` `method)`,
32
`_push()` (`rfslib.ftp_pconnection.FtpPConnection`
`method)`, 16
`_push()` (`rfslib.sftp_pconnection.SftpPConnection`
`method)`, 12
`_push()` (`rfslib.smb12_pconnection.Smb12PConnection`
`method)`, 22
`_push()` (`rfslib.smb23_pconnection.Smb23PConnection`
`method)`, 26
`_rename()` (`rfslib.abstract_pconnection.PConnection`
`method)`, 6
`_rename()` (`rfslib.fs_pconnection.FsPConnection`
`method)`, 32
`_rename()` (`rfslib.ftp_pconnection.FtpPConnection`
`method)`, 16
`_rename()` (`rfslib.sftp_pconnection.SftpPConnection`
`method)`, 12
`_rename()` (`rfslib.smb12_pconnection.Smb12PConnection`
`method)`, 22
`_rename()` (`rfslib.smb23_pconnection.Smb23PConnection`
`method)`, 26
`_rmdir()` (`rfslib.abstract_pconnection.PConnection`
`method)`, 6
`_rmdir()` (`rfslib.fs_pconnection.FsPConnection`
`method)`, 32
`_rmdir()` (`rfslib.ftp_pconnection.FtpPConnection`
`method)`, 16
`_rmdir()` (`rfslib.sftp_pconnection.SftpPConnection`
`method)`, 12
`_rmdir()` (`rfslib.smb12_pconnection.Smb12PConnection`
`method)`, 22
`_rmdir()` (`rfslib.smb23_pconnection.Smb23PConnection`
`method)`, 26
`_stat()` (`rfslib.abstract_pconnection.PConnection`
`method)`, 6
`_stat()` (`rfslib.fs_pconnection.FsPConnection` `method)`,
32
`_stat()` (`rfslib.ftp_pconnection.FtpPConnection`
`method)`, 17
`_stat()` (`rfslib.sftp_pconnection.SftpPConnection`
`method)`, 12
`_stat()` (`rfslib.smb12_pconnection.Smb12PConnection`
`method)`, 22
`_stat()` (`rfslib.smb23_pconnection.Smb23PConnection`
`method)`, 26
`_unlink()` (`rfslib.abstract_pconnection.PConnection`
`method)`, 6
`_unlink()` (`rfslib.fs_pconnection.FsPConnection`
`method)`, 32
`_unlink()` (`rfslib.ftp_pconnection.FtpPConnection`
`method)`, 17
`_unlink()` (`rfslib.sftp_pconnection.SftpPConnection`
`method)`, 13
`_unlink()` (`rfslib.smb12_pconnection.Smb12PConnection`
`method)`, 23
`_unlink()` (`rfslib.smb23_pconnection.Smb23PConnection`
`method)`, 27

A

`add_r_prefix()` (in module `rfslib.path_utils`), 35

C

`close()` (`rfslib.abstract_pconnection.PConnection`
`method)`, 6
`close()` (`rfslib.fs_pconnection.FsPConnection` `method)`,
32
`close()` (`rfslib.ftp_pconnection.FtpPConnection`
`method)`, 17
`close()` (`rfslib.sftp_pconnection.SftpPConnection`
`method)`, 13
`close()` (`rfslib.smb12_pconnection.Smb12PConnection`
`method)`, 23
`close()` (`rfslib.smb23_pconnection.Smb23PConnection`
`method)`, 27
`config_smb23()` (in module `rfslib.smb23_pconnection`),
28
`cp()` (`rfslib.abstract_pconnection.PConnection` `method)`,
6
`cp()` (`rfslib.fs_pconnection.FsPConnection` `method)`, 32
`cp()` (`rfslib.ftp_pconnection.FtpPConnection` `method)`,
17
`cp()` (`rfslib.sftp_pconnection.SftpPConnection` `method)`,
13
`cp()` (`rfslib.smb12_pconnection.Smb12PConnection`
`method)`, 23
`cp()` (`rfslib.smb23_pconnection.Smb23PConnection`
`method)`, 27

D

`dcp()` (`rfslib.abstract_pconnection.PConnection`
`method)`, 6
`dcp()` (`rfslib.fs_pconnection.FsPConnection` `method)`, 32
`dcp()` (`rfslib.ftp_pconnection.FtpPConnection` `method)`,
17
`dcp()` (`rfslib.sftp_pconnection.SftpPConnection`
`method)`, 13
`dcp()` (`rfslib.smb12_pconnection.Smb12PConnection`
`method)`, 23
`dcp()` (`rfslib.smb23_pconnection.Smb23PConnection`
`method)`, 27

default_dmask(*rfslib.pconnection_settings* attribute), 3
 default_fmask(*rfslib.pconnection_settings* attribute), 3
 direct_write(*rfslib.pconnection_settings* attribute), 3
 dmv() (*rfslib.abstract_pconnection.PConnection* method), 6
 dmv() (*rfslib.fs_pconnection.FsPConnection* method), 32
 dmv() (*rfslib.ftp_pconnection.FtpPConnection* method), 17
 dmv() (*rfslib.sftp_pconnection.SftpPConnection* method), 13
 dmv() (*rfslib.smb12_pconnection.Smb12PConnection* method), 23
 dmv() (*rfslib.smb23_pconnection.Smb23PConnection* method), 27

E

exists() (*rfslib.abstract_pconnection.PConnection* method), 7
 exists() (*rfslib.fs_pconnection.FsPConnection* method), 32
 exists() (*rfslib.ftp_pconnection.FtpPConnection* method), 17
 exists() (*rfslib.sftp_pconnection.SftpPConnection* method), 13
 exists() (*rfslib.smb12_pconnection.Smb12PConnection* method), 23
 exists() (*rfslib.smb23_pconnection.Smb23PConnection* method), 27

F

fcp() (*rfslib.abstract_pconnection.PConnection* method), 7
 fcp() (*rfslib.fs_pconnection.FsPConnection* method), 33
 fcp() (*rfslib.ftp_pconnection.FtpPConnection* method), 17
 fcp() (*rfslib.sftp_pconnection.SftpPConnection* method), 13
 fcp() (*rfslib.smb12_pconnection.Smb12PConnection* method), 23
 fcp() (*rfslib.smb23_pconnection.Smb23PConnection* method), 27
 find() (*rfslib.abstract_pconnection.PConnection* method), 7
 find() (*rfslib.fs_pconnection.FsPConnection* method), 33
 find() (*rfslib.ftp_pconnection.FtpPConnection* method), 17
 find() (*rfslib.sftp_pconnection.SftpPConnection* method), 13
 find() (*rfslib.smb12_pconnection.Smb12PConnection* method), 23
 find() (*rfslib.smb23_pconnection.Smb23PConnection* method), 27

fmv() (*rfslib.abstract_pconnection.PConnection* method), 7
 fmv() (*rfslib.fs_pconnection.FsPConnection* method), 33
 fmv() (*rfslib.ftp_pconnection.FtpPConnection* method), 17
 fmv() (*rfslib.sftp_pconnection.SftpPConnection* method), 13
 fmv() (*rfslib.smb12_pconnection.Smb12PConnection* method), 23
 fmv() (*rfslib.smb23_pconnection.Smb23PConnection* method), 27
 FsPConnection (class in *rfslib.fs_pconnection*), 31
 FtpPConnection (class in *rfslib.ftp_pconnection*), 15

G

generic_cp() (in module *rfslib.path_utils*), 35
 generic_mv() (in module *rfslib.path_utils*), 35
 generic_path_normalize() (in module *rfslib.path_utils*), 35
 GenericPath (class in *rfslib.path_utils*), 35
 get_default_dmask() (*rfslib.abstract_pconnection.PConnection* method), 7
 get_default_dmask() (*rfslib.fs_pconnection.FsPConnection* method), 33
 get_default_dmask() (*rfslib.ftp_pconnection.FtpPConnection* method), 17
 get_default_dmask() (*rfslib.sftp_pconnection.SftpPConnection* method), 13
 get_default_dmask() (*rfslib.smb12_pconnection.Smb12PConnection* method), 23
 get_default_dmask() (*rfslib.smb23_pconnection.Smb23PConnection* method), 27
 get_default_fmask() (*rfslib.abstract_pconnection.PConnection* method), 7
 get_default_fmask() (*rfslib.fs_pconnection.FsPConnection* method), 33
 get_default_fmask() (*rfslib.ftp_pconnection.FtpPConnection* method), 17
 get_default_fmask() (*rfslib.sftp_pconnection.SftpPConnection* method), 13
 get_default_fmask() (*rfslib.smb12_pconnection.Smb12PConnection* method), 23

get_default_fmask()	(rfslib.smb23_pconnection.Smb23PConnection method), 27	listdir()	(rfslib.smb23_pconnection.Smb23PConnection method), 27
get_settings()	(rfslib.abstract_pconnection.PConnection method), 7	local_crlf	(rfslib.pconnection_settings attribute), 3
get_settings()	(rfslib.fs_pconnection.FsPConnection method), 33	local_encoding	(rfslib.pconnection_settings attribute), 3
get_settings()	(rfslib.ftp_pconnection.FtpPConnection method), 17	ls()	(rfslib.abstract_pconnection.PConnection method), 7
get_settings()	(rfslib.sftp_pconnection.SftpPConnection method), 13	ls()	(rfslib.fs_pconnection.FsPConnection method), 33
get_settings()	(rfslib.smb12_pconnection.Smb12PConnection method), 23	ls()	(rfslib.ftp_pconnection.FtpPConnection method), 18
get_settings()	(rfslib.smb23_pconnection.Smb23PConnection method), 27	ls()	(rfslib.sftp_pconnection.SftpPConnection method), 13
		ls()	(rfslib.smb12_pconnection.Smb12PConnection method), 23
		ls()	(rfslib.smb23_pconnection.Smb23PConnection method), 27
		lstat()	(rfslib.abstract_pconnection.PConnection method), 7
is_remote()	(in module rfslib.path_utils), 35	lstat()	(rfslib.fs_pconnection.FsPConnection method), 33
isdir()	(rfslib.abstract_pconnection.PConnection method), 7	lstat()	(rfslib.ftp_pconnection.FtpPConnection method), 18
isdir()	(rfslib.fs_pconnection.FsPConnection method), 33	lstat()	(rfslib.sftp_pconnection.SftpPConnection method), 14
isdir()	(rfslib.ftp_pconnection.FtpPConnection method), 17	lstat()	(rfslib.smb12_pconnection.Smb12PConnection method), 24
isdir()	(rfslib.sftp_pconnection.SftpPConnection method), 13	lstat()	(rfslib.smb23_pconnection.Smb23PConnection method), 28
isdir()	(rfslib.smb12_pconnection.Smb12PConnection method), 23		
isdir()	(rfslib.smb23_pconnection.Smb23PConnection method), 27		
		M	
		mkdir()	(rfslib.abstract_pconnection.PConnection method), 7
		mkdir()	(rfslib.fs_pconnection.FsPConnection method), 33
		mkdir()	(rfslib.ftp_pconnection.FtpPConnection method), 18
		mkdir()	(rfslib.sftp_pconnection.SftpPConnection method), 14
		mkdir()	(rfslib.smb12_pconnection.Smb12PConnection method), 24
		mkdir()	(rfslib.smb23_pconnection.Smb23PConnection method), 28
		module	
		rfslib	3
		rfslib.abstract_pconnection	5
		rfslib.fs_pconnection	31
		rfslib.ftp_pconnection	15
		rfslib.path_utils	35
		rfslib.sftp_pconnection	11
		rfslib.smb12_pconnection	21
		rfslib.smb23_pconnection	25
		mv()	(rfslib.abstract_pconnection.PConnection method), 7
		mv()	(rfslib.fs_pconnection.FsPConnection method), 33

`mv()` (*rfslib.ftp_pconnection.FtpPConnection* method), 18
`mv()` (*rfslib.sftp_pconnection.SftpPConnection* method), 14
`mv()` (*rfslib.smb12_pconnection.Smb12PConnection* method), 24
`mv()` (*rfslib.smb23_pconnection.Smb23PConnection* method), 28

P

`p_stat_result` (class in *rfslib.abstract_pconnection*), 8
`path_normalize()` (in module *rfslib.path_utils*), 35
`PConnection` (class in *rfslib.abstract_pconnection*), 5
`pconnection_settings` (class in *rfslib*), 3
`pmkdir()` (*rfslib.abstract_pconnection.PConnection* method), 7
`pmkdir()` (*rfslib.fs_pconnection.FsPConnection* method), 33
`pmkdir()` (*rfslib.ftp_pconnection.FtpPConnection* method), 18
`pmkdir()` (*rfslib.sftp_pconnection.SftpPConnection* method), 14
`pmkdir()` (*rfslib.smb12_pconnection.Smb12PConnection* method), 24
`pmkdir()` (*rfslib.smb23_pconnection.Smb23PConnection* method), 28
`pull()` (*rfslib.abstract_pconnection.PConnection* method), 8
`pull()` (*rfslib.fs_pconnection.FsPConnection* method), 33
`pull()` (*rfslib.ftp_pconnection.FtpPConnection* method), 18
`pull()` (*rfslib.sftp_pconnection.SftpPConnection* method), 14
`pull()` (*rfslib.smb12_pconnection.Smb12PConnection* method), 24
`pull()` (*rfslib.smb23_pconnection.Smb23PConnection* method), 28
`push()` (*rfslib.abstract_pconnection.PConnection* method), 8
`push()` (*rfslib.fs_pconnection.FsPConnection* method), 33
`push()` (*rfslib.ftp_pconnection.FtpPConnection* method), 18
`push()` (*rfslib.sftp_pconnection.SftpPConnection* method), 14
`push()` (*rfslib.smb12_pconnection.Smb12PConnection* method), 24
`push()` (*rfslib.smb23_pconnection.Smb23PConnection* method), 28

R

`remote_crlf` (*rfslib.pconnection_settings* attribute), 3
`remote_encoding` (*rfslib.pconnection_settings* attribute), 3
`remove_r_prefix()` (in module *rfslib.path_utils*), 35
`rename()` (*rfslib.abstract_pconnection.PConnection* method), 8
`rename()` (*rfslib.fs_pconnection.FsPConnection* method), 34
`rename()` (*rfslib.ftp_pconnection.FtpPConnection* method), 18
`rename()` (*rfslib.sftp_pconnection.SftpPConnection* method), 14
`rename()` (*rfslib.smb12_pconnection.Smb12PConnection* method), 24
`rename()` (*rfslib.smb23_pconnection.Smb23PConnection* method), 28
rfslib
 module, 3
rfslib.abstract_pconnection
 module, 5
rfslib.fs_pconnection
 module, 31
rfslib.ftp_pconnection
 module, 15
rfslib.path_utils
 module, 35
rfslib.sftp_pconnection
 module, 11
rfslib.smb12_pconnection
 module, 21
rfslib.smb23_pconnection
 module, 25
`rm()` (*rfslib.abstract_pconnection.PConnection* method), 8
`rm()` (*rfslib.fs_pconnection.FsPConnection* method), 34
`rm()` (*rfslib.ftp_pconnection.FtpPConnection* method), 18
`rm()` (*rfslib.sftp_pconnection.SftpPConnection* method), 14
`rm()` (*rfslib.smb12_pconnection.Smb12PConnection* method), 24
`rm()` (*rfslib.smb23_pconnection.Smb23PConnection* method), 28
`rmdir()` (*rfslib.abstract_pconnection.PConnection* method), 8
`rmdir()` (*rfslib.fs_pconnection.FsPConnection* method), 34
`rmdir()` (*rfslib.ftp_pconnection.FtpPConnection* method), 18
`rmdir()` (*rfslib.sftp_pconnection.SftpPConnection* method), 14
`rmdir()` (*rfslib.smb12_pconnection.Smb12PConnection* method), 24
`rmdir()` (*rfslib.smb23_pconnection.Smb23PConnection* method), 28

rpull() (rfslib.abstract_pconnection.PConnection method), 8
 rpull() (rfslib.fs_pconnection.FsPConnection method), 34
 rpull() (rfslib.ftp_pconnection.FtpPConnection method), 18
 rpull() (rfslib.sftp_pconnection.SftpPConnection method), 14
 rpull() (rfslib.smb12_pconnection.Smb12PConnection method), 24
 rpull() (rfslib.smb23_pconnection.Smb23PConnection method), 28
 rpush() (rfslib.abstract_pconnection.PConnection method), 8
 rpush() (rfslib.fs_pconnection.FsPConnection method), 34
 rpush() (rfslib.ftp_pconnection.FtpPConnection method), 18
 rpush() (rfslib.sftp_pconnection.SftpPConnection method), 14
 rpush() (rfslib.smb12_pconnection.Smb12PConnection method), 24
 rpush() (rfslib.smb23_pconnection.Smb23PConnection method), 28

S

set_settings() (rfslib.abstract_pconnection.PConnection method), 8
 set_settings() (rfslib.fs_pconnection.FsPConnection method), 34
 set_settings() (rfslib.ftp_pconnection.FtpPConnection method), 18
 set_settings() (rfslib.sftp_pconnection.SftpPConnection method), 14
 set_settings() (rfslib.smb12_pconnection.Smb12PConnection method), 24
 set_settings() (rfslib.smb23_pconnection.Smb23PConnection method), 28
 SftpPConnection (class in rfslib.sftp_pconnection), 11
 skip_validation (rfslib.pconnection_settings attribute), 3
 Smb12PConnection (class in rfslib.smb12_pconnection), 21
 Smb23PConnection (class in rfslib.smb23_pconnection), 25
 st_atime (rfslib.abstract_pconnection.p_stat_result attribute), 8
 st_gid (rfslib.abstract_pconnection.p_stat_result attribute), 8
 st_mode (rfslib.abstract_pconnection.p_stat_result attribute), 8
 st_mtime (rfslib.abstract_pconnection.p_stat_result attribute), 8
 st_nlink (rfslib.abstract_pconnection.p_stat_result attribute), 8
 st_size (rfslib.abstract_pconnection.p_stat_result attribute), 8
 st_uid (rfslib.abstract_pconnection.p_stat_result attribute), 9
 stat() (rfslib.abstract_pconnection.PConnection method), 8
 stat() (rfslib.fs_pconnection.FsPConnection method), 34
 stat() (rfslib.ftp_pconnection.FtpPConnection method), 18
 stat() (rfslib.sftp_pconnection.SftpPConnection method), 14
 stat() (rfslib.smb12_pconnection.Smb12PConnection method), 24
 stat() (rfslib.smb23_pconnection.Smb23PConnection method), 28

T

text_transmission (rfslib.pconnection_settings attribute), 3
 touch() (rfslib.abstract_pconnection.PConnection method), 8
 touch() (rfslib.fs_pconnection.FsPConnection method), 34
 touch() (rfslib.ftp_pconnection.FtpPConnection method), 18
 touch() (rfslib.sftp_pconnection.SftpPConnection method), 14
 touch() (rfslib.smb12_pconnection.Smb12PConnection method), 24
 touch() (rfslib.smb23_pconnection.Smb23PConnection method), 28

U

unlink() (rfslib.abstract_pconnection.PConnection method), 8
 unlink() (rfslib.fs_pconnection.FsPConnection method), 34
 unlink() (rfslib.ftp_pconnection.FtpPConnection method), 18
 unlink() (rfslib.sftp_pconnection.SftpPConnection method), 14
 unlink() (rfslib.smb12_pconnection.Smb12PConnection method), 24
 unlink() (rfslib.smb23_pconnection.Smb23PConnection method), 28

X

xls() (rfslib.abstract_pconnection.PConnection method), 8
 xls() (rfslib.fs_pconnection.FsPConnection method), 34

`xls()` (*rfslib.ftp_pconnection.FtpPConnection* method),
19

`xls()` (*rfslib.sftp_pconnection.SftpPConnection*
method), 14

`xls()` (*rfslib.smb12_pconnection.Smb12PConnection*
method), 24

`xls()` (*rfslib.smb23_pconnection.Smb23PConnection*
method), 28