

NAME

Mail::Box::Locker::Flock – lock a folder using kernel file–locking

INHERITANCE

```
Mail::Box::Locker::Flock
  is a Mail::Box::Locker
  is a Mail::Reporter
```

SYNOPSIS

See Mail::Box::Locker

DESCRIPTION

The `::Flock` object locks the folder by creating an exclusive lock on the file using the kernel's `flock` facilities. This lock is created on a separate file-handle to the folder file, so not the handle which is reading.

File locking does not work in some situations, for instance for operating systems do not support `flock`.

Extends “DESCRIPTION” in Mail::Box::Locker.

METHODS

Extends “METHODS” in Mail::Box::Locker.

Constructors

Extends “Constructors” in Mail::Box::Locker.

```
Mail::Box::Locker::Flock->new(%options)
  -Option --Defined in      --Default
  expires Mail::Box::Locker 1 hour
  file     Mail::Box::Locker undef
  folder   Mail::Box::Locker <undef>
  log      Mail::Reporter    'WARNINGS'
  method   Mail::Box::Locker 'FLOCK'
  timeout   Mail::Box::Locker 10
  trace     Mail::Reporter    'WARNINGS'

  expires => SECONDS
  file => FILENAME
  folder => FOLDER
  log => LEVEL
  method => STRING|CLASS|ARRAY
  timeout => SECONDS|'NOTIMEOUT'
  trace => LEVEL
```

Attributes

Extends “Attributes” in Mail::Box::Locker.

```
$obj->expires( [SECONDS] )
  Inherited, see “Attributes” in Mail::Box::Locker

$obj->timeout( [SECONDS] )
  Inherited, see “Attributes” in Mail::Box::Locker
```

The Locker

Extends “The Locker” in Mail::Box::Locker.

```
$obj->filename( [$filename] )
  Inherited, see “The Locker” in Mail::Box::Locker

$obj->folder( [$folder] )
  Inherited, see “The Locker” in Mail::Box::Locker

$obj->name()
  Inherited, see “The Locker” in Mail::Box::Locker
```

Locking

Extends “Locking” in Mail::Box::Locker.

`$obj->hasLock()`

Inherited, see “Locking” in Mail::Box::Locker

`$obj->isLocked()`

`$obj->lock()`

`$obj->unlock()`

Inherited, see “Locking” in Mail::Box::Locker

Error handling

Extends “Error handling” in Mail::Box::Locker.

`$obj->AUTOLOAD()`

Inherited, see “Error handling” in Mail::Reporter

`$obj->addReport($object)`

Inherited, see “Error handling” in Mail::Reporter

`$obj->defaultTrace([$level][[$loglevel, $tracelevel]][$level, $callback])`

`Mail::Box::Locker::Flock->defaultTrace([$level][[$loglevel, $tracelevel]][$level, $callback])`

Inherited, see “Error handling” in Mail::Reporter

`$obj->errors()`

Inherited, see “Error handling” in Mail::Reporter

`$obj->log([$level, [$strings]])`

`Mail::Box::Locker::Flock->log([$level, [$strings]])`

Inherited, see “Error handling” in Mail::Reporter

`$obj->logPriority($level)`

`Mail::Box::Locker::Flock->logPriority($level)`

Inherited, see “Error handling” in Mail::Reporter

`$obj->logSettings()`

Inherited, see “Error handling” in Mail::Reporter

`$obj->notImplemented()`

Inherited, see “Error handling” in Mail::Reporter

`$obj->report([$level])`

Inherited, see “Error handling” in Mail::Reporter

`$obj->reportAll([$level])`

Inherited, see “Error handling” in Mail::Reporter

`$obj->trace([$level])`

Inherited, see “Error handling” in Mail::Reporter

`$obj->warnings()`

Inherited, see “Error handling” in Mail::Reporter

Cleanup

Extends “Cleanup” in Mail::Box::Locker.

`$obj->DESTROY()`

Inherited, see “Cleanup” in Mail::Box::Locker

DIAGNOSTICS

Warning: Folder `$folder` already flocked

The folder is already locked, but you attempt to lock it again. The behavior of double flock’s is platform dependent, and therefore should not be attempted. The second lock is ignored (but the unlock isn’t)

Error: Package `$package` does not implement `$method`.

Fatal error: the specific package (or one of its superclasses) does not implement this method where it should. This message means that some other related classes do implement this method however the class at hand does not. Probably you should investigate this and probably inform the author of the package.

Error: Unable to check lock file `$filename` for `$folder`: `$!`

To check whether the filename is used to flock a folder, the file must be opened. Apparently this fails, which does not mean that the folder is locked neither that it is unlocked.

Error: Unable to open flock file `$filename` for `$folder`: `$!`

For flock-ing a folder it must be opened, which does not succeed for the specified reason.

Error: Will never get a flock at `$filename` for `$folder`: `$!`

Tried to flock the folder, but it did not succeed. The error code received from the OS indicates that it will not succeed ever, so we do not need to try again.

SEE ALSO

This module is part of Mail-Box distribution version 3.009, built on August 18, 2020. Website: <http://perl.overmeer.net/CPAN/>

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