

1 APR::ThreadMutex - Perl API for APR thread mutexes

1.1 Synopsis

```
use APR::ThreadMutex ();

my $mutex = APR::ThreadMutex->new($r->pool);
$mutex->lock;
$mutex->unlock;
$mutex->trylock;
```

1.2 Description

`APR::ThreadMutex` interfaces APR thread mutexes.

1.3 API

`APR::ThreadMutex` provides the following functions and/or methods:

1.4 Unsupported API

`APR::ThreadMutex` also provides auto-generated Perl interface for a few other methods which aren't tested at the moment and therefore their API is a subject to change. These methods will be finalized later as a need arises. If you want to rely on any of the following methods please contact the `mod_perl` development mailing list so we can help each other take the steps necessary to shift the method to an officially supported API.

1.4.1 DESTROY

META: Autogenerated - needs to be reviewed/completed

Destroy the mutex and free the memory associated with the lock.

```
$mutex->DESTROY();
```

- **obj:** `$mutex` (`APR::ThreadMutex` object)

the mutex to destroy.

- **ret:** no return value
- **since:** subject to change

1.4.2 lock

META: Autogenerated - needs to be reviewed/completed

Acquire the lock for the given mutex. If the mutex is already locked, the current thread will be put to sleep until the lock becomes available.

```
$ret = $mutex->lock();
```

- **obj: \$mutex (APR::ThreadMutex object)**

the mutex on which to acquire the lock.

- **ret: \$ret (integer)**
- **since: subject to change**

1.4.3 new

Create a new mutex

```
my $mutex = APR::ThreadMutex->new($p);
```

- **obj: APR::ThreadMutex (class name)**
- **arg1: \$p (APR::Pool object)**
- **ret: \$mutex (APR::ThreadMutex object)**
- **since: subject to change**

1.4.4 pool_get

META: Autogenerated - needs to be reviewed/completed

META: should probably be renamed to pool(), like all other pool accessors

Get the pool used by this thread_mutex.

```
$ret = $obj->pool_get();
```

- **obj: \$obj (APR::ThreadMutex object)**
- **ret: \$ret (APR::Pool object)**

apr_pool_t the pool

- **since: subject to change**

1.4.5 trylock

META: Autogenerated - needs to be reviewed/completed

Attempt to acquire the lock for the given mutex. If the mutex has already been acquired, the call returns immediately with APR_EBUSY. Note: it is important that the APR_STATUS_IS_EBUSY(s) macro be used to determine if the return value was APR_EBUSY, for portability reasons.

1.5 See Also

```
$ret = $mutex->trylock();
```

- **obj: \$mutex (APR::ThreadMutex object)**

the mutex on which to attempt the lock acquiring.

- **ret: \$ret (integer)**
- **since: subject to change**

1.4.6 unlock

META: Autogenerated - needs to be reviewed/completed

Release the lock for the given mutex.

```
$ret = $mutex->unlock();
```

- **obj: \$mutex (APR::ThreadMutex object)**

the mutex from which to release the lock.

- **ret: \$ret (integer)**
- **since: subject to change**

1.5 See Also

mod_perl 2.0 documentation.

1.6 Copyright

mod_perl 2.0 and its core modules are copyrighted under The Apache Software License, Version 2.0.

1.7 Authors

The mod_perl development team and numerous contributors.

Table of Contents:

1	APR::ThreadMutex - Perl API for APR thread mutexes	1
1.1	Synopsis	2
1.2	Description	2
1.3	API	2
1.4	Unsupported API	2
1.4.1	DESTROY	2
1.4.2	lock	2
1.4.3	new	3
1.4.4	pool_get	3
1.4.5	trylock	3
1.4.6	unlock	4
1.5	See Also	4
1.6	Copyright	4
1.7	Authors	4