

PThreadSupportCapability Reference Manual

Generated by Doxygen 1.5.3

Mon Feb 18 17:27:30 2008

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Chapter 1

PThreadSupportCapability Namespace Index

1.1 PThreadSupportCapability Namespace List

Here is a list of all documented namespaces with brief descriptions:

full_system	5
full_system::plugins	6

Chapter 2

PThreadSupportCapability Class Index

2.1 PThreadSupportCapability Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

[full_system::plugins::PthreadInterface](#) (Interface of the PThread Support Capability) 7

Chapter 3

PThreadSupportCapability Namespace Documentation

3.1 full_system Namespace Reference

Namespaces

- namespace [plugins](#)

3.2 full_system::plugins Namespace Reference

Classes

- class [PthreadInterface](#)
Interface of the PThread Support Capability.

Chapter 4

PThreadSupportCapability Class Documentation

4.1 full_system::plugins::PthreadInterface Class Reference

Interface of the PThread Support Capability.

```
#include <pthread_interface.hh>
```

Public Member Functions

- virtual int [pthread_create](#) (uint32_t *thread, uint32_t attr, uint32_t start_routine, uint32_t arg)=0
Creates a new thread.
- virtual void [pthread_exit](#) (uint32_t value_ptr)=0
Terminate the current thread. It is mandatory to terminate a thread with this call.
- virtual uint32_t [pthread_self](#) ()=0
Returns the thread ID of the current thread.
- virtual int [pthread_join](#) (uint32_t thread, uint32_t value_ptr_ptr)=0
Wait for another thread to terminate.
- virtual int [pthread_mutex_lock](#) (pthread_mutex_t *mutex)=0
Locks the current thread.
- virtual int [pthread_mutex_unlock](#) (pthread_mutex_t *mutex)=0
Unlocks the current thread.
- virtual int [pthread_mutex_init](#) (pthread_mutex_t *mutex, pthread_mutexattr_t *attr)=0
Creates a new mutex structure.
- virtual int [pthread_mutex_destroy](#) (pthread_mutex_t *mutex)=0
Destroys a mutex structure.

4.1.1 Detailed Description

Interface of the PThread Support Capability.

Definition at line 28 of file pthread_interface.hh.

4.1.2 Member Function Documentation

4.1.2.1 `virtual int full_system::plugins::PthreadInterface::pthread_join (uint32_t thread, uint32_t value_ptr_ptr)` [pure virtual]

Wait for another thread to terminate.

Parameters:

thread The thread ID of the thread to wait for

value_ptr_ptr Pointer to the value returned by the thread

4.1.2.2 `virtual int full_system::plugins::PthreadInterface::pthread_mutex_lock (pthread_mutex_t * mutex)` [pure virtual]

Locks the current thread.

Parameters:

mutex The mutex structure to lock the thread with

4.1.2.3 `virtual int full_system::plugins::PthreadInterface::pthread_mutex_unlock (pthread_mutex_t * mutex)` [pure virtual]

Unlocks the current thread.

Parameters:

mutex The mutex structure to unlock the thread with

The documentation for this class was generated from the following file:

- pthread_interface.hh

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