

Yaxl  
Appendix B

Generated by Doxygen 1.8.3.1

Sun Feb 24 2013 12:22:19



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# Chapter 1

## Hierarchical Index

### 1.1 Class Hierarchy

This inheritance list is sorted roughly, but not completely, alphabetically:

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## Chapter 2

# Class Index

### 2.1 Class List

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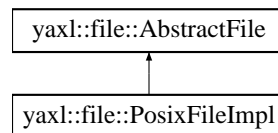


## Chapter 3

# Class Documentation

### 3.1 yaxl::file::AbstractFile Class Reference

Inheritance diagram for yaxl::file::AbstractFile:



#### Public Member Functions

- virtual bool **isDirectory** (void)=0
- virtual bool **isFile** (void)=0
- virtual bool **exists** (void)=0
- virtual long **lastModified** (void)=0
- virtual vector< string > **list** (void)=0
- virtual vector< [File](#) > **listFiles** ()=0
- virtual int **size** ()
- virtual string **readAll** ()
- virtual string **readLine** ()
- virtual string **readLine** (const char &delimiter)
- virtual string **readSome** (int len)
- virtual string **getName** (void)
- virtual void **mkDir** (void)
- virtual void **mkDirs** (void)
- virtual void **write** (const string &data)
- virtual void **write** (const char \*data, const size\_t length)
- virtual void **append** (const string &data)
- virtual void **append** (const char \*data, const size\_t length)
- virtual void **reset** ()
- virtual bool **createNewFile** (void)
- string **computeMD5** (void)
- virtual bool **remove** (void)

### Protected Member Functions

- **AbstractFile** (string path)
- virtual string **getCanonicalName** ()
- void **closeStreams** (void)
- void **openInputFileStream** (bool createFile=false)
- int **getRemainingSize** (void)
- virtual void **mkDir** (const string &dirName)=0

### Protected Attributes

- string **\_path**
- ifstream \* **\_inputFileStream**

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

- C:/Users/Sander/Documents/Projects/PCCS/libyaxl/libyaxl/file/AbstractFile.h
- C:/Users/Sander/Documents/Projects/PCCS/libyaxl/libyaxl/file/AbstractFile.cpp

## 3.2 yaxl::concurrency::CachedCondition Class Reference

### Public Member Functions

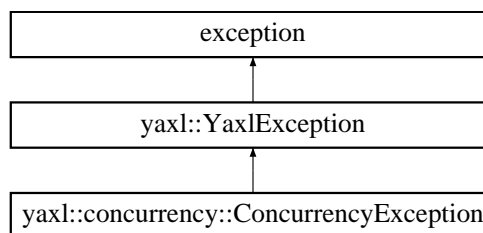
- void **wait** (long milliseconds)
- void **wait** ()
- void **signal** ()

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

- C:/Users/Sander/Documents/Projects/PCCS/libyaxl/libyaxl/concurrency/CachedCondition.h

## 3.3 yaxl::concurrency::ConcurrencyException Class Reference

Inheritance diagram for yaxl::concurrency::ConcurrencyException:



### Public Member Functions

- **ConcurrencyException** (string error)

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

- C:/Users/Sander/Documents/Projects/PCCS/libyaxl/libyaxl/concurrency/ConcurrencyException.h

## 3.4 yaxl::concurrency::Condition Class Reference

### Public Member Functions

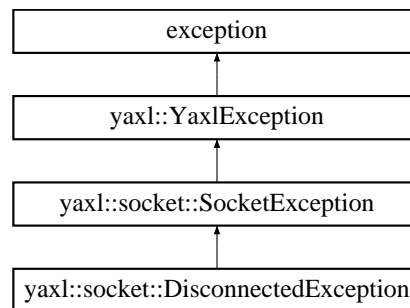
- void **wait** (long milliseconds)
- void **wait** ()
- void **signal** ()

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

- C:/Users/Sander/Documents/Projects/PCCS/libyaxl/libyaxl/concurrency/Condition.h

## 3.5 yaxl::socket::DisconnectedException Class Reference

Inheritance diagram for yaxl::socket::DisconnectedException:



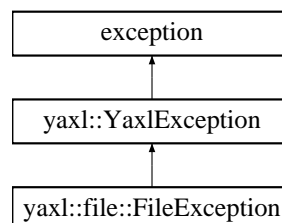
### Additional Inherited Members

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

- C:/Users/Sander/Documents/Projects/PCCS/libyaxl/libyaxl/sockets/DisconnectException.h

## 3.6 yaxl::file::FileException Class Reference

Inheritance diagram for yaxl::file::FileException:



### Public Member Functions

- **FileException** (string error)

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

- C:/Users/Sander/Documents/Projects/PCCS/libyaxl/libyaxl/file/FileException.h

### 3.7 yaxl::socket::InputStream Class Reference

#### Public Member Functions

- **InputStream** ([Socket](#) &socket)
- char **read** (void)
- string **read** (const int bytes)
- size\_t **available** (void)
- void **skip** (const int amount)
- void **setBlocking** (bool isBlocking)
- bool **ensureAvailable** (size\_t byteCount)
- void **forceQuit** (void)

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

- C:/Users/Sander/Documents/Projects/PCCS/libyaxl/libyaxl/sockets/InputStream.h
- C:/Users/Sander/Documents/Projects/PCCS/libyaxl/libyaxl/sockets/InputStream.cpp

### 3.8 yaxl::file::MD5 Class Reference

#### Public Types

- typedef unsigned int **size\_type**

#### Public Member Functions

- **MD5** (const std::string &text)
- void **update** (const unsigned char \*buf, size\_type length)
- void **update** (const char \*buf, size\_type length)
- [MD5](#) & **finalize** ()
- std::string **hexdigest** () const

#### Friends

- std::ostream & **operator<<** (std::ostream &, [MD5](#) md5)

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

- C:/Users/Sander/Documents/Projects/PCCS/libyaxl/libyaxl/file/md5.h
- C:/Users/Sander/Documents/Projects/PCCS/libyaxl/libyaxl/file/md5.cpp

### 3.9 yaxl::concurrency::Mutex Class Reference

#### Public Member Functions

- void **lock** (void)
- void **unlock** (void)
- bool **tryLock** (void)

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

- C:/Users/Sander/Documents/Projects/PCCS/libyaxl/libyaxl/concurrency/Mutex.h
- C:/Users/Sander/Documents/Projects/PCCS/libyaxl/libyaxl/concurrency/Mutex.cpp

## 3.10 yaxl::socket::OutputStream Class Reference

### Public Member Functions

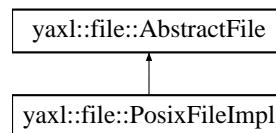
- **OutputStream** ([Socket](#) &socket)
- void **write** (const stringstream ssToSend)
- void **write** (const string stringToSend)
- void **write** (const char \*bytes)
- void **write** (const char \*bytes, const int len)

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

- C:/Users/Sander/Documents/Projects/PCCS/libyaxl/libyaxl/sockets/OutputStream.h
- C:/Users/Sander/Documents/Projects/PCCS/libyaxl/libyaxl/sockets/OutputStream.cpp

## 3.11 yaxl::file::PosixFileImpl Class Reference

Inheritance diagram for yaxl::file::PosixFileImpl:



### Public Member Functions

- **PosixFileImpl** (string path)
- virtual bool **isDirectory** (void)
- virtual bool **isFile** (void)
- virtual bool **exists** (void)
- virtual long **lastModified** (void)
- virtual vector< string > **list** (void)
- virtual vector< [File](#) > **listFiles** ()
- virtual int **size** ()

### Protected Member Functions

- virtual void **mkDir** (const string &dirName)

### Additional Inherited Members

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

- C:/Users/Sander/Documents/Projects/PCCS/libyaxl/libyaxl/file/PosixFileImpl.h
- C:/Users/Sander/Documents/Projects/PCCS/libyaxl/libyaxl/file/PosixFileImpl.cpp

### 3.12 `yaxl::concurrency::Queue< T >` Class Template Reference

#### Public Member Functions

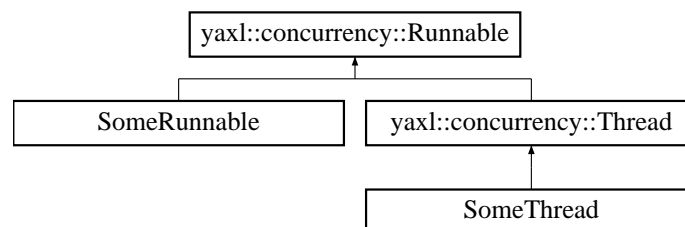
- `T * tryPop` (void)
- `void push` (T \*item)

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

- `C:/Users/Sander/Documents/Projects/PCCS/libyaxl/libyaxl/concurrency/Queue.h`

### 3.13 `yaxl::concurrency::Runnable` Class Reference

Inheritance diagram for `yaxl::concurrency::Runnable`:



#### Public Member Functions

- `virtual void run` ()=0

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

- `C:/Users/Sander/Documents/Projects/PCCS/libyaxl/libyaxl/concurrency/Runnable.h`

### 3.14 `yaxl::concurrency::ScopedLock` Class Reference

#### Public Member Functions

- `ScopedLock` ([Mutex](#) &mutex)
- `ScopedLock` ([Mutex](#) \*mutex)

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

- `C:/Users/Sander/Documents/Projects/PCCS/libyaxl/libyaxl/concurrency/ScopedLock.h`
- `C:/Users/Sander/Documents/Projects/PCCS/libyaxl/libyaxl/concurrency/ScopedLock.cpp`

### 3.15 `yaxl::concurrency::Semaphore` Class Reference

#### Public Member Functions

- `Semaphore` (int count=0)
- `void wait` ()

- void **signal** (int count=1)

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

- C:/Users/Sander/Documents/Projects/PCCS/libyaxl/libyaxl/concurrency/Semaphore.h

## 3.16 `yaxl::socket::ServerSocket` Class Reference

### Public Member Functions

- **ServerSocket** (int port, int backlog=10)
- `Socket` \* **accept** (void)
- void **setReuseAddress** (bool newState)
- void **setKeepAlive** (bool newState)

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

- C:/Users/Sander/Documents/Projects/PCCS/libyaxl/libyaxl/sockets/ServerSocket.h
- C:/Users/Sander/Documents/Projects/PCCS/libyaxl/libyaxl/sockets/ServerSocket.cpp

## 3.17 `yaxl::socket::Socket` Class Reference

### Public Member Functions

- **Socket** (const string &address, const string &port)
- **Socket** (const string &address, int port)
- void **close** (void)
- `OutputStream` & **getOutputStream** (void) const
- `InputStream` & **getInputStream** (void) const
- bool **isConnected** (void)
- void **setTcpNoDelay** (bool newState)
- void **setTcpCork** (bool newState)
- const string & **getIpv4** ()
- int **getPort** ()
- int **getFd** ()

### Friends

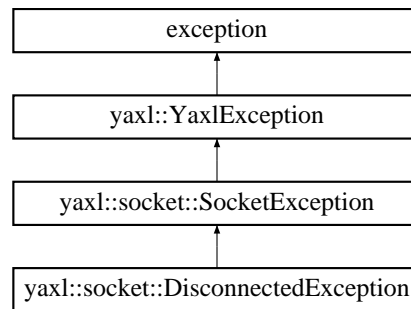
- class **OutputStream**
- class **InputStream**
- class **ServerSocket**

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

- C:/Users/Sander/Documents/Projects/PCCS/libyaxl/libyaxl/sockets/Socket.h
- C:/Users/Sander/Documents/Projects/PCCS/libyaxl/libyaxl/sockets/Socket.cpp

### 3.18 yaxl::socket::SocketException Class Reference

Inheritance diagram for yaxl::socket::SocketException:



#### Public Member Functions

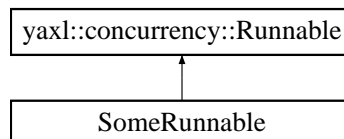
- **SocketException** (string error)

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

- C:/Users/Sander/Documents/Projects/PCCS/libyaxl/libyaxl/sockets/SocketException.h

### 3.19 SomeRunnable Class Reference

Inheritance diagram for SomeRunnable:

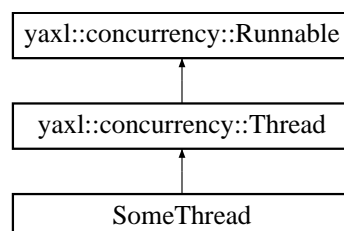


The documentation for this class was generated from the following file:

- C:/Users/Sander/Documents/Projects/PCCS/libyaxl/libyaxl/examples/SomeRunnable.h

### 3.20 SomeThread Class Reference

Inheritance diagram for SomeThread:





### Public Member Functions

- void **run** ()

### Additional Inherited Members

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

- C:/Users/Sander/Documents/Projects/PCCS/libyaxl/libyaxl/examples/SomeThread.h

## 3.21 yaxl::concurrency::Stack< T > Class Template Reference

### Public Member Functions

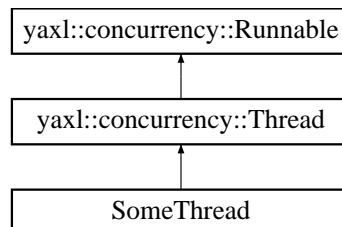
- T **tryPop** (void)
- void **push** (T item)

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

- C:/Users/Sander/Documents/Projects/PCCS/libyaxl/libyaxl/concurrency/Stack.h

## 3.22 yaxl::concurrency::Thread Class Reference

Inheritance diagram for yaxl::concurrency::Thread:



### Public Member Functions

- **Thread** ([Runnable](#) \*runnable)
- virtual void **run** ()
- virtual void **start** ()
- void **join** ()
- void **detach** ()
- bool **joinable** ()

### Protected Member Functions

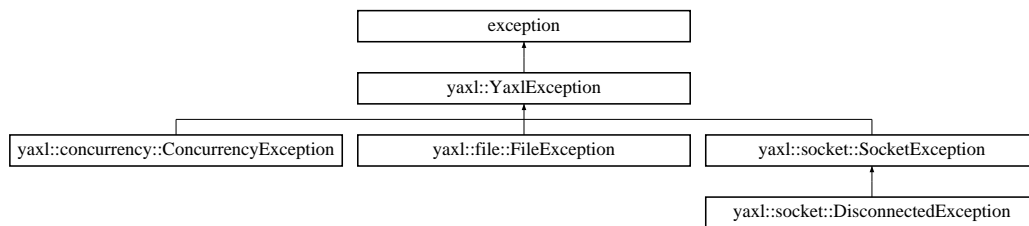
- void **sleep** (long milliseconds)

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

- C:/Users/Sander/Documents/Projects/PCCS/libyaxl/libyaxl/concurrency/Thread.h
- C:/Users/Sander/Documents/Projects/PCCS/libyaxl/libyaxl/concurrency/Thread.cpp

### 3.23 yaxl::YaxlException Class Reference

Inheritance diagram for yaxl::YaxlException:



#### Public Member Functions

- **YaxlException** (const string error)
- const char \* **what** () const throw ()

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

- C:/Users/Sander/Documents/Projects/PCCS/libyaxl/libyaxl/common/YaxlException.h

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