

LibBeamApi

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Chapter 1

Namespace Index

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Chapter 5

Namespace Documentation

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- class [Boapns](#)
- class [BoapEntry](#)

Functions

- [Boapns](#) ([BString](#) name)
- [BError](#) [getVersion](#) ([BString](#) &version)
- [BError](#) [getEntryList](#) ([BList](#)< [BoapEntry](#) > &entryList)
- [BError](#) [getEntry](#) ([BString](#) name, [BoapEntry](#) &entry)
- [BError](#) [addEntry](#) ([BoapEntry](#) entry)
- [BError](#) [delEntry](#) ([BString](#) name)
- [BError](#) [getNewName](#) ([BString](#) &name)

Variables

- const [BUInt32](#) [apiVersion](#) = 0

5.1.1 Function Documentation

5.1.1.1 BError Boapns::addEntry (BoapEntry *entry*)

5.1.1.2 Boapns::Boapns (BString *name*)

5.1.1.3 BError Boapns::delEntry (BString *name*)

5.1.1.4 BError Boapns::getEntry (BString *name*, BoapEntry & *entry*)

5.1.1.5 BError Boapns::getEntryList (BList< BoapEntry > & *entryList*)

5.1.1.6 BError Boapns::getNewName (BString & *name*)

5.1.1.7 BError Boapns::getVersion (BString & *version*)

5.1.2 Variable Documentation

5.1.2.1 const BUInt32 Boapns::apiVersion = 0

Chapter 6

Class Documentation

6.1 BArray< T > Class Template Reference

```
#include <BArray.h>
```

Public Member Functions

- [BArray \(\)](#)
- [BArray \(BSize size, T value=T\(\)\)](#)
- [BArray \(const BArray &array\)](#)
- [void append \(T value\)](#)
- [void append \(const BArray< T > &array\)](#)

6.1.1 Detailed Description

template<class T> class BArray< T >

Template based Array class. This is based on the Standard C++ library vector class and has all of the functionality of that class.

6.1.2 Constructor & Destructor Documentation

6.1.2.1 template<class T> BArray< T >::BArray () [inline]

6.1.2.2 template<class T> BArray< T >::BArray (BSize *size*, T *value* = T()) [inline]

6.1.2.3 template<class T> BArray< T >::BArray (const BArray< T > &*array*) [inline]

6.1.3 Member Function Documentation

6.1.3.1 template<class T> void BArray< T >::append (T *value*) [inline]

6.1.3.2 template<class T> void BArray< T >::append (const BArray< T > &*array*) [inline]

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

- [BArray.h](#)

6.2 BAtomicCount Class Reference

BAtomicCount class.

```
#include <BAtomicCount.h>
```

Public Member Functions

- BAtomicCount (long value=0)
- long getValue () const
- long add (long value)
- long operator++ (int)
- long operator++ ()
- long operator-- (int)
- long operator-- ()
- operator long () const

Private Attributes

- _Atomic_word ovalue

6.2.1 Detailed Description

BAtomicCount class.

6.2.2 Constructor & Destructor Documentation

6.2.2.1 BAtomicCount::BAtomicCount (long *value* = 0) [inline]

6.2.3 Member Function Documentation

6.2.3.1 long BAtomicCount::getValue () const [inline]

6.2.3.2 long BAtomicCount::add (long *value*) [inline]

6.2.3.3 long BAtomicCount::operator++ (int) [inline]

6.2.3.4 long BAtomicCount::operator++ () [inline]

6.2.3.5 long BAtomicCount::operator-- (int) [inline]

6.2.3.6 long BAtomicCount::operator-- () [inline]

6.2.3.7 BAtomicCount::operator long () const [inline]

6.2.4 Member Data Documentation

6.2.4.1 _Atomic_word BAtomicCount::ovalue [mutable, private]

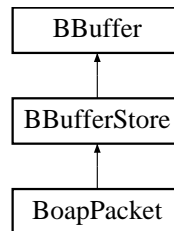
The documentation for this class was generated from the following file:

- [BAtomicCount.h](#)

6.3 BBuffer Class Reference

```
#include <BBuffer.h>
```

Inheritance diagram for BBuffer::



Public Member Functions

- [BBuffer](#) ([BUInt](#) size=0)
Create and manipulate a data buffer. On creation the buffer size defaults to 1024 bytes.
- [~BBuffer](#) ()
- [int setSize](#) ([BUInt32](#) size)
Sets the bufer size.
- [int setData](#) (const void *data, [BUInt32](#) size)
Sets buffer data resized to contain the data.
- [int writeData](#) ([BUInt32](#) pos, const void *data, [BUInt32](#) size)
Writes data into buffer from offset pos.
- [char * data](#) ()
The data.
- [BUInt32 size](#) ()
Size of the buffer in bytes.
- [int resize](#) ([BUInt32](#) size)
Alternative to [setSize\(\)](#).

Protected Attributes

- [BUInt32 odataSize](#)
- [char * odata](#)
- [BUInt32 osize](#)

6.3.1 Constructor & Destructor Documentation

6.3.1.1 BBuffer::BBuffer (BUInt size = 0)

Create and manipulate a data buffer. On creation the buffer size defaults to 1024 bytes.

6.3.1.2 BBuffer::~~BBuffer ()

6.3.2 Member Function Documentation

6.3.2.1 int BBuffer::setSize (BUInt32 *size*)

Sets the bufer size.

6.3.2.2 int BBuffer::setData (const void * *data*, BUInt32 *size*)

Sets buffer data resized to contain the data.

6.3.2.3 int BBuffer::writeData (BUInt32 *pos*, const void * *data*, BUInt32 *size*)

Writes data into buffer from offset pos.

6.3.2.4 char * BBuffer::data ()

The data.

Reimplemented in [BoapPacket](#).

6.3.2.5 BUInt32 BBuffer::size ()

Size of the buffer in bytes.

6.3.2.6 int BBuffer::resize (BUInt32 *size*) [inline]

Alternative to [setSize\(\)](#).

6.3.3 Member Data Documentation

6.3.3.1 BUInt32 BBuffer::odataSize [protected]

6.3.3.2 char* BBuffer::odata [protected]

Reimplemented in [BoapPacket](#).

6.3.3.3 BUInt32 BBuffer::osize [protected]

Reimplemented in [BoapPacket](#).

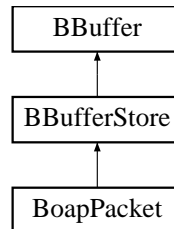
The documentation for this class was generated from the following files:

- [BBuffer.h](#)
- [BBuffer.cpp](#)

6.4 BBufferStore Class Reference

```
#include <BBuffer.h>
```

Inheritance diagram for BBufferStore::



Public Member Functions

- [BBufferStore \(\)](#)
- [~BBufferStore \(\)](#)
- [BUInt32 getPos \(\)](#)
- void [setPos \(BUInt32 pos\)](#)
- [BString getHexString \(\)](#)
- void [setHexString \(BString s\)](#)
- int [push \(BInt8 v\)](#)
- int [push \(BUInt8 v\)](#)
- int [push \(BInt16 v\)](#)
- int [push \(BUInt16 v\)](#)
- int [push \(BInt32 v\)](#)
- int [push \(BUInt32 v\)](#)
- int [push \(BInt64 v\)](#)
- int [push \(BUInt64 v\)](#)
- int [push \(BFloat32 v\)](#)
- int [push \(BFloat64 v\)](#)
- int [push \(const BString &v\)](#)
- int [push \(const BError &v\)](#)
- int [push \(const BTimeStamp &v\)](#)
- int [push \(BUInt32 nBytes, const void *data, char *swapType="1"\)](#)
- int [pop \(BInt8 &v\)](#)
- int [pop \(BUInt8 &v\)](#)
- int [pop \(BInt16 &v\)](#)
- int [pop \(BUInt16 &v\)](#)
- int [pop \(BInt32 &v\)](#)
- int [pop \(BUInt32 &v\)](#)
- int [pop \(BInt64 &v\)](#)
- int [pop \(BUInt64 &v\)](#)
- int [pop \(BFloat32 &v\)](#)
- int [pop \(BFloat64 &v\)](#)
- int [pop \(BString &v\)](#)
- int [pop \(BError &v\)](#)
- int [pop \(BTimeStamp &v\)](#)
- int [pop \(BUInt32 nBytes, void *data, char *swapType="1"\)](#)

Protected Member Functions

- void [copyWithSwap](#) (void *dst, const void *src, [BUInt32](#) nBytes, char *swapType)

Protected Attributes

- [BUInt32](#) opos

6.4.1 Constructor & Destructor Documentation

6.4.1.1 [BBufferStore::BBufferStore \(\)](#)

6.4.1.2 [BBufferStore::~~BBufferStore \(\)](#)

6.4.2 Member Function Documentation

6.4.2.1 [BUInt32 BBufferStore::getPos \(\)](#)

6.4.2.2 [void BBufferStore::setPos \(BUInt32 pos\)](#)

6.4.2.3 [BString BBufferStore::getHexString \(\)](#)

6.4.2.4 [void BBufferStore::setHexString \(BString s\)](#)

6.4.2.5 [int BBufferStore::push \(BInt8 v\)](#)

Reimplemented in [BoapPacket](#).

6.4.2.6 [int BBufferStore::push \(BUInt8 v\)](#)

Reimplemented in [BoapPacket](#).

6.4.2.7 [int BBufferStore::push \(BInt16 v\)](#)

Reimplemented in [BoapPacket](#).

6.4.2.8 [int BBufferStore::push \(BUInt16 v\)](#)

Reimplemented in [BoapPacket](#).

6.4.2.9 [int BBufferStore::push \(BInt32 v\)](#)

Reimplemented in [BoapPacket](#).

6.4.2.10 [int BBufferStore::push \(BUInt32 v\)](#)

Reimplemented in [BoapPacket](#).

6.4.2.11 `int BBufferStore::push (BInt64 v)`

6.4.2.12 `int BBufferStore::push (BUInt64 v)`

6.4.2.13 `int BBufferStore::push (BFloat32 v)`

6.4.2.14 `int BBufferStore::push (BFloat64 v)`

Reimplemented in [BoapPacket](#).

6.4.2.15 `int BBufferStore::push (const BString & v)`

6.4.2.16 `int BBufferStore::push (const BError & v)`

6.4.2.17 `int BBufferStore::push (const BTimeStamp & v)`

6.4.2.18 `int BBufferStore::push (BUInt32 nBytes, const void * data, char * swapType = "1")`

6.4.2.19 `int BBufferStore::pop (BInt8 & v)`

Reimplemented in [BoapPacket](#).

6.4.2.20 `int BBufferStore::pop (BUInt8 & v)`

Reimplemented in [BoapPacket](#).

6.4.2.21 `int BBufferStore::pop (BInt16 & v)`

Reimplemented in [BoapPacket](#).

6.4.2.22 `int BBufferStore::pop (BUInt16 & v)`

Reimplemented in [BoapPacket](#).

6.4.2.23 `int BBufferStore::pop (BInt32 & v)`

Reimplemented in [BoapPacket](#).

6.4.2.24 `int BBufferStore::pop (BUInt32 & v)`

Reimplemented in [BoapPacket](#).

6.4.2.25 `int BBufferStore::pop (BInt64 & v)`

6.4.2.26 `int BBufferStore::pop (BUInt64 & v)`

6.4.2.27 `int BBufferStore::pop (BFloat32 & v)`

6.4.2.28 `int BBufferStore::pop (BFloat64 & v)`

Reimplemented in [BoapPacket](#).

6.4.2.29 `int BBufferStore::pop (BString & v)`

Reimplemented in [BoapPacket](#).

6.4.2.30 `int BBufferStore::pop (BError & v)`

Reimplemented in [BoapPacket](#).

6.4.2.31 `int BBufferStore::pop (BTimeStamp & v)`

6.4.2.32 `int BBufferStore::pop (BUInt32 nBytes, void * data, char * swapType = "1")`

6.4.2.33 `void BBufferStore::copyWithSwap (void * dst, const void * src, BUInt32 nBytes, char * swapType)` [protected]

6.4.3 Member Data Documentation

6.4.3.1 `BUInt32 BBufferStore::opos` [protected]

Reimplemented in [BoapPacket](#).

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

- [BBuffer.h](#)
- [BBuffer.cpp](#)

6.5 BCond Class Reference

```
#include <BCond.h>
```

Public Member Functions

- [BCond \(\)](#)
Thread conditional variable.
- [~BCond \(\)](#)
- [int signal \(\)](#)
- [int wait \(\)](#)
- [int timedWait \(int timeOutUs\)](#)

Private Attributes

- `pthread_mutex_t` [omutex](#)
- `pthread_cond_t` [ocond](#)

6.5.1 Constructor & Destructor Documentation

6.5.1.1 BCond::BCond ()

Thread conditional variable.

6.5.1.2 BCond::~~BCond ()

6.5.2 Member Function Documentation

6.5.2.1 int BCond::signal ()

6.5.2.2 int BCond::wait ()

6.5.2.3 int BCond::timedWait (int *timeOutUs*)

6.5.3 Member Data Documentation

6.5.3.1 pthread_mutex_t BCond::omutex [private]

6.5.3.2 pthread_cond_t BCond::ocond [private]

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

- [BCond.h](#)
- [BCond.cpp](#)

6.6 BCondBool Class Reference

Thread conditional boolean.

```
#include <BCondInt.h>
```

Public Member Functions

- [BCondBool \(\)](#)
- [~BCondBool \(\)](#)
- [int set \(\)](#)
Set value. Wakes waiting.
- [int clear \(\)](#)
Clear Value.
- [int value \(\)](#)
Current value.
- [int wait \(\)](#)
Wait until value is true.
- [int timedWait \(int timeOutUs\)](#)
Wait until set, with timeout.
- [operator int \(\)](#)

Private Attributes

- [pthread_mutex_t omutex](#)
- [pthread_cond_t ocond](#)
- [int ovalue](#)

6.6.1 Detailed Description

Thread conditional boolean.

6.6.2 Constructor & Destructor Documentation

6.6.2.1 BCondBool::BCondBool ()

6.6.2.2 BCondBool::~~BCondBool ()

6.6.3 Member Function Documentation

6.6.3.1 int BCondBool::set ()

Set value. Wakes waiting.

6.6.3.2 int BCondBool::clear ()

Clear Value.

6.6.3.3 int BCondBool::value ()

Current value.

6.6.3.4 int BCondBool::wait ()

Wait until value is true.

6.6.3.5 int BCondBool::timedWait (int *timeOutUs*)

Wait until set, with timeout.

6.6.3.6 BCondBool::operator int () [inline]

6.6.4 Member Data Documentation

6.6.4.1 pthread_mutex_t BCondBool::omutex [private]

6.6.4.2 pthread_cond_t BCondBool::ocond [private]

6.6.4.3 int BCondBool::ovalue [private]

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

- [BCondInt.h](#)
- [BCondInt.cpp](#)

6.7 BCondInt Class Reference

Thread conditional integer.

```
#include <BCondInt.h>
```

Public Member Functions

- [BCondInt](#) ()
- [~BCondInt](#) ()
- void [setValue](#) (int value)
Set value.
- int [increment](#) ()
Increment.
- int [decrement](#) ()
Decrement.
- int [value](#) ()
Current value.
- int [wait](#) ()
Wait until value is 0.
- int [waitIncrement](#) (int timeOutUs=0)
Wait until value is 0 then increment.
- int [waitNotZero](#) ()
Wait until value is not 0.
- int [waitNotZeroDecrement](#) ()
Wait until value is not 0 and then decrement.
- int [tryNotZeroDecrement](#) ()
Test if value is not 0, if not zero then decrement.
- int [timedWait](#) (int timeOutUs)
Wait for the condition, with timeout.
- void [operator++](#) (int)
- void [operator--](#) (int)

Private Attributes

- pthread_mutex_t [omutex](#)
- pthread_cond_t [ocond](#)
- int [ovalue](#)

6.7.1 Detailed Description

Thread conditional integer.

6.7.2 Constructor & Destructor Documentation

6.7.2.1 BCondInt::BCondInt ()

6.7.2.2 BCondInt::~~BCondInt ()

6.7.3 Member Function Documentation

6.7.3.1 void BCondInt::setValue (int *value*)

Set value.

6.7.3.2 int BCondInt::increment ()

Increment.

6.7.3.3 int BCondInt::decrement ()

Decrement.

6.7.3.4 int BCondInt::value ()

Current value.

6.7.3.5 int BCondInt::wait ()

Wait until value is 0.

6.7.3.6 int BCondInt::waitIncrement (int *timeOutUs* = 0)

Wait until value is 0 then increment.

6.7.3.7 int BCondInt::waitNotZero ()

Wait until value is not 0.

6.7.3.8 int BCondInt::waitNotZeroDecrement ()

Wait until value is not 0 and then decrement.

6.7.3.9 int BCondInt::tryNotZeroDecrement ()

Test if value is not 0, if not zero then decrement.

6.7.3.10 `int BCondInt::timedWait (int timeOutUs)`

Wait for the condition, with timeout.

6.7.3.11 `void BCondInt::operator++ (int) [inline]`**6.7.3.12** `void BCondInt::operator-- (int) [inline]`**6.7.4 Member Data Documentation****6.7.4.1** `pthread_mutex_t BCondInt::omutex [private]`**6.7.4.2** `pthread_cond_t BCondInt::ocond [private]`**6.7.4.3** `int BCondInt::ovalue [private]`

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

- [BCondInt.h](#)
- [BCondInt.cpp](#)

6.8 BCondValue Class Reference

Thread conditional value.

```
#include <BCondInt.h>
```

Public Member Functions

- [BCondValue](#) ()
- [~BCondValue](#) ()
- void [setValue](#) (int value)
Set the value. Wakes waiting.
- int [value](#) ()
Current value.
- int [increment](#) (int v=1)
Increment. Wakes waiting.
- int [decrement](#) (int v=1)
Decrement. Wakes waiting.
- int [waitMoreThanOrEqual](#) (int v, int decrement=0, int timeOutUs=0)
Wait until value is at least the value given.
- int [waitLessThanOrEqual](#) (int v, int increment=0, int timeOutUs=0)
Wait until value is equal to or below the value given.
- int [waitLessThan](#) (int v, int timeOutUs=0)
Wait until value is equal to or below the value given.
- void [operator+=](#) (int v)
Add to value. Wakes waiting.
- void [operator-=](#) (int v)
Subtract from value. Wakes waiting.
- void [operator++](#) (int)
Increment value. Wakes waiting.
- void [operator--](#) (int)
Decrement value. Wakes waiting.

Private Attributes

- pthread_mutex_t [omutex](#)
- pthread_cond_t [ocond](#)
- int [ovalue](#)

6.8.1 Detailed Description

Thread conditional value.

6.8.2 Constructor & Destructor Documentation

6.8.2.1 BCondValue::BCondValue ()

6.8.2.2 BCondValue::~~BCondValue ()

6.8.3 Member Function Documentation

6.8.3.1 void BCondValue::setValue (int *value*)

Set the value. Wakes waiting.

6.8.3.2 int BCondValue::value ()

Current value.

6.8.3.3 int BCondValue::increment (int *v* = 1)

Increment. Wakes waiting.

6.8.3.4 int BCondValue::decrement (int *v* = 1)

Decrement. Wakes waiting.

6.8.3.5 int BCondValue::waitMoreThanOrEqual (int *v*, int *decrement* = 0, int *timeOutUs* = 0)

Wait until value is at least the value given.

6.8.3.6 int BCondValue::waitLessThanOrEqual (int *v*, int *increment* = 0, int *timeOutUs* = 0)

Wait until value is equal to or below the value given.

6.8.3.7 int BCondValue::waitLessThan (int *v*, int *timeOutUs* = 0)

Wait until value is equal to or below the value given.

6.8.3.8 void BCondValue::operator+= (int *v*) [inline]

Add to value. Wakes waiting.

6.8.3.9 void BCondValue::operator-= (int *v*) [inline]

Subtract from value. Wakes waiting.

6.8.3.10 void BCondValue::operator++ (int) [inline]

Increment value. Wakes waiting.

6.8.3.11 void BCondValue::operator-- (int) [inline]

Decrement value. Wakes waiting.

6.8.4 Member Data Documentation**6.8.4.1 pthread_mutex_t BCondValue::omutex [private]****6.8.4.2 pthread_cond_t BCondValue::ocond [private]****6.8.4.3 int BCondValue::ovalue [private]**

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

- [BCondInt.h](#)
- [BCondInt.cpp](#)

6.9 BCondWrap Class Reference

```
#include <BCondInt.h>
```

Public Member Functions

- [BCondWrap](#) ()
- [~BCondWrap](#) ()
- void [setValue](#) (uint32_t value)
Set the value. Wakes waiting.
- uint32_t [value](#) ()
Current value.
- uint32_t [increment](#) (uint32_t v=1)
Increment. Wakes waiting.
- uint32_t [decrement](#) (uint32_t v=1)
Decrement. Wakes waiting.
- int [waitMoreThanOrEqual](#) (uint32_t v, uint32_t decrement=0, uint32_t timeOutUs=0)
Wait until value is at least the value given.
- int [waitLessThanOrEqual](#) (uint32_t v, uint32_t increment=0, uint32_t timeOutUs=0)
Wait until value is equal to or below the value given.
- int [waitLessThan](#) (uint32_t v, uint32_t timeOutUs=0)
Wait until value is equal to or below the value given.
- void [operator+=](#) (int v)
Add to value. Wakes waiting.
- void [operator-=](#) (int v)
Subtract from value. Wakes waiting.
- void [operator++](#) (int)
Increment value. Wakes waiting.
- void [operator--](#) (int)
Decrement value. Wakes waiting.

Private Member Functions

- int [diff](#) (uint32_t v)

Private Attributes

- pthread_mutex_t [omutex](#)
- pthread_cond_t [ocond](#)
- uint32_t [ovalue](#)

6.9.1 Constructor & Destructor Documentation

6.9.1.1 BCondWrap::BCondWrap ()

6.9.1.2 BCondWrap::~~BCondWrap ()

6.9.2 Member Function Documentation

6.9.2.1 void BCondWrap::setValue (uint32_t *value*)

Set the value. Wakes waiting.

6.9.2.2 uint32_t BCondWrap::value ()

Current value.

6.9.2.3 uint32_t BCondWrap::increment (uint32_t *v* = 1)

Increment. Wakes waiting.

6.9.2.4 uint32_t BCondWrap::decrement (uint32_t *v* = 1)

Decrement. Wakes waiting.

6.9.2.5 int BCondWrap::waitMoreThanOrEqual (uint32_t *v*, uint32_t *decrement* = 0, uint32_t *timeOutUs* = 0)

Wait until value is at least the value given.

6.9.2.6 int BCondWrap::waitLessThanOrEqual (uint32_t *v*, uint32_t *increment* = 0, uint32_t *timeOutUs* = 0)

Wait until value is equal to or below the value given.

6.9.2.7 int BCondWrap::waitLessThan (uint32_t *v*, uint32_t *timeOutUs* = 0)

Wait until value is equal to or below the value given.

6.9.2.8 void BCondWrap::operator+= (int *v*) [inline]

Add to value. Wakes waiting.

6.9.2.9 void BCondWrap::operator-= (int v) [inline]

Subtract from value. Wakes waiting.

6.9.2.10 void BCondWrap::operator++ (int) [inline]

Increment value. Wakes waiting.

6.9.2.11 void BCondWrap::operator- (int) [inline]

Decrement value. Wakes waiting.

6.9.2.12 int BCondWrap::diff (uint32_t v) [private]**6.9.3 Member Data Documentation****6.9.3.1 pthread_mutex_t BCondWrap::omutex [private]****6.9.3.2 pthread_cond_t BCondWrap::ocond [private]****6.9.3.3 uint32_t BCondWrap::ovalue [private]**

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

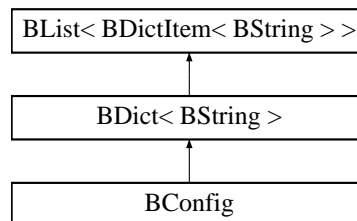
- [BCondInt.h](#)
- [BCondInt.cpp](#)

6.10 BConfig Class Reference

This class implements the configuration file access.

```
#include <BConfig.h>
```

Inheritance diagram for BConfig::



Public Member Functions

- [BError open](#) ([BString](#) fileName, [BString](#) mode="r")
- [BError read](#) ()
- [BError write](#) ()
- [BString findValue](#) ([BString](#) name)

Private Attributes

- [BMutex olock](#)
- [BFile ofile](#)

6.10.1 Detailed Description

This class implements the configuration file access.

6.10.2 Member Function Documentation

6.10.2.1 [BError BConfig::open](#) ([BString](#) *fileName*, [BString](#) *mode* = "r")

6.10.2.2 [BError BConfig::read](#) ()

6.10.2.3 [BError BConfig::write](#) ()

6.10.2.4 [BString BConfig::findValue](#) ([BString](#) *name*)

6.10.3 Member Data Documentation

6.10.3.1 [BMutex BConfig::olock](#) [private]

6.10.3.2 [BFile BConfig::ofile](#) [private]

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

- [BConfig.h](#)
- [BConfig.cpp](#)

6.11 BDebugBacktrace Class Reference

```
#include <BDebug.h>
```

Public Member Functions

- [BDebugBacktrace \(\)](#)
- [~BDebugBacktrace \(\)](#)
- void [dumpBacktraceStdout](#) (char *comment)
- int [dumpBacktraceFile](#) (char *fileName, char *comment)
- void [dumpBacktraceSyslog](#) (char *comment)
- void [dumpBacktrace](#) (char *strBuf, int strBufLen, char *comment)

6.11.1 Constructor & Destructor Documentation

6.11.1.1 [BDebugBacktrace::BDebugBacktrace \(\)](#)

6.11.1.2 [BDebugBacktrace::~~BDebugBacktrace \(\)](#)

6.11.2 Member Function Documentation

6.11.2.1 void [BDebugBacktrace::dumpBacktraceStdout](#) (char * *comment*)

6.11.2.2 int [BDebugBacktrace::dumpBacktraceFile](#) (char * *fileName*, char * *comment*)

6.11.2.3 void [BDebugBacktrace::dumpBacktraceSyslog](#) (char * *comment*)

6.11.2.4 void [BDebugBacktrace::dumpBacktrace](#) (char * *strBuf*, int *strBufLen*, char * *comment*)

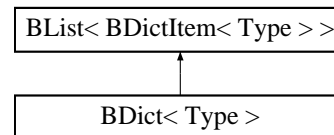
The documentation for this class was generated from the following files:

- [BDebug.h](#)
- [BDebug.cpp](#)

6.12 BDict< Type > Class Template Reference

```
#include <BDict.h>
```

Inheritance diagram for BDict< Type >::



Public Types

- typedef [BIter](#) iterator

Public Member Functions

- int [hasKey](#) (const [BString](#) &k) const
- [BString](#) key (iterator &i) const
- void [del](#) (const [BString](#) &k)
- [BIter](#) find (const [BString](#) &k) const
- Type & [operator\[\]](#) (const [BString](#) &i)
- Type & [operator\[\]](#) (const [BIter](#) &i)
- const Type & [operator\[\]](#) (const [BIter](#) &i) const
- [BDict](#)< Type > [operator+](#) (const [BDict](#)< Type > &dict) const
- [BDict](#)< Type > & [operator=](#) (const [BDict](#)< Type > &dict)

```
template<class Type> class BDict< Type >
```

6.12.1 Member Typedef Documentation

6.12.1.1 template<class Type> typedef BIter BDict< Type >::iterator

6.12.2 Member Function Documentation

6.12.2.1 template<class Type> int BDict< Type >::hasKey (const [BString](#) & *k*) const [inline]

6.12.2.2 template<class Type> [BString](#) BDict< Type >::key (iterator & *i*) const [inline]

6.12.2.3 template<class Type> void BDict< Type >::del (const [BString](#) & *k*) [inline]

6.12.2.4 template<class Type> BIter BDict< Type >::find (const [BString](#) & *k*) const [inline]

6.12.2.5]

```
template<class Type> Type & BDict< Type >::operator[ ] (const BString & i) [inline]
```

6.12.2.6]

```
template<class Type> Type & BDict< Type >::operator[] (const BIter & i) [inline]
```

6.12.2.7]

```
template<class Type> const Type & BDict< Type >::operator[] (const BIter & i) const [inline]
```

Reimplemented from [BList< BDictItem< Type > >](#).

6.12.2.8 `template<class Type> BDict< Type > BDict< Type >::operator+ (const BDict< Type > & dict) const [inline]`

6.12.2.9 `template<class Type> BDict< Type > & BDict< Type >::operator= (const BDict< Type > & dict) [inline]`

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

- [BDict.h](#)

6.13 BDictItem< Type > Class Template Reference

Template based Dictionary class.

```
#include <BDict.h>
```

Public Member Functions

- [BDictItem](#) ([BString](#) k="", Type v=Type())

Public Attributes

- [BString](#) key
- Type value

6.13.1 Detailed Description

```
template<class Type> class BDictItem< Type >
```

Template based Dictionary class.

6.13.2 Constructor & Destructor Documentation

6.13.2.1 `template<class Type> BDictItem< Type >::BDictItem (BString k = " ", Type v = Type()) [inline]`

6.13.3 Member Data Documentation

6.13.3.1 `template<class Type> BString BDictItem< Type >::key`

6.13.3.2 `template<class Type> Type BDictItem< Type >::value`

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

- [BDict.h](#)

6.14 BDictMap< Value > Class Template Reference

```
#include <BDictMap.h>
```

Public Types

- typedef [BDictMap](#)< Value >::iterator iterator

Public Member Functions

- void [clear](#) ()
- int [hasKey](#) (const [BString](#) &k)
- [BString](#) [key](#) (iterator &i)
- unsigned int [size](#) ()
- void [start](#) (iterator &i)
- int [isEnd](#) (iterator &i)
- void [next](#) (iterator &i)
- void [del](#) (const iterator &i)
- void [del](#) (const [BString](#) &k)
- Value & [operator\[\]](#) (iterator &i)
- Value & [operator\[\]](#) (const [BString](#) &i)

6.14.1 Detailed Description

template<typename Value> class BDictMap< Value >

Template based Array class. This is based on the Standard C++ library map class and has all of the functionality of that class.

6.14.2 Member Typedef Documentation

6.14.2.1 `template<typename Value> typedef BDictMap<Value>::iterator BDictMap< Value >::iterator`

6.14.3 Member Function Documentation

6.14.3.1 `template<typename Value> void BDictMap< Value >::clear () [inline]`

6.14.3.2 `template<typename Value> int BDictMap< Value >::hasKey (const BString & k) [inline]`

6.14.3.3 `template<typename Value> BString BDictMap< Value >::key (iterator & i) [inline]`

6.14.3.4 `template<typename Value> unsigned int BDictMap< Value >::size () [inline]`

6.14.3.5 `template<typename Value> void BDictMap< Value >::start (iterator & i) [inline]`

6.14.3.6 `template<typename Value> int BDictMap< Value >::isEnd (iterator & i) [inline]`

6.14.3.7 `template<typename Value> void BDictMap< Value >::next (iterator & i) [inline]`

6.14.3.8 `template<typename Value> void BDictMap< Value >::del (const iterator & i) [inline]`

6.14.3.9 `template<typename Value> void BDictMap< Value >::del (const BString & k) [inline]`

6.14.3.10 `]`

`template<typename Value> Value& BDictMap< Value >::operator[] (iterator & i) [inline]`

6.14.3.11 `]`

`template<typename Value> Value& BDictMap< Value >::operator[] (const BString & i) [inline]`

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

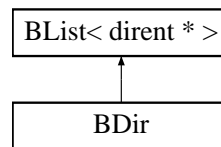
- [BDictMap.h](#)

6.15 BDir Class Reference

File system directory class.

```
#include <BDir.h>
```

Inheritance diagram for BDir::



Public Member Functions

- [BDir](#) ()
- [BDir](#) ([BString](#) name)
- [~BDir](#) ()
- [BError open](#) ([BString](#) name)
Reads named directory.
- [BError error](#) ()
Current value of error.
- [BError read](#) ()
read/re-reads directory
- void [clear](#) ()
Clears list.
- void [setWild](#) ([BString](#) wild)
Set wildcard filter string used on read.
- void [setSort](#) (int on)
Set alpha sort on/off.
- [BString entryName](#) ([BIter](#) i)
Get filename.
- struct stat [entryStat](#) ([BIter](#) i)
Get file stats.
- struct stat64 [entryStat64](#) ([BIter](#) i)
Get file stats 64.

Private Attributes

- [BError oerror](#)
- [BString odirname](#)
- [BString owild](#)
- [int osort](#)

6.15.1 Detailed Description

File system directory class.

6.15.2 Constructor & Destructor Documentation

6.15.2.1 BDir::BDir ()

6.15.2.2 BDir::BDir (BString *name*)

6.15.2.3 BDir::~~BDir ()

6.15.3 Member Function Documentation

6.15.3.1 BError BDir::open (BString *name*)

Reads named directory.

6.15.3.2 BError BDir::error ()

Current value of error.

6.15.3.3 BError BDir::read ()

read/re-reads directory

6.15.3.4 void BDir::clear () [virtual]

Clears list.

Reimplemented from [BList< T >](#).

6.15.3.5 void BDir::setWild (BString *wild*)

Set wildcard filter string used on read.

6.15.3.6 void BDir::setSort (int *on*)

Set alpha sort on/off.

6.15.3.7 BString BDir::entryName (BIter *i*)

Get filename.

6.15.3.8 struct stat BDir::entryStat (BIter *i*) [read]

Get file stats.

6.15.3.9 struct stat64 BDir::entryStat64 (BIter *i*) [read]

Get file stats 64.

6.15.4 Member Data Documentation

6.15.4.1 BError BDir::oerror [private]

6.15.4.2 BString BDir::odirname [private]

6.15.4.3 BString BDir::owild [private]

6.15.4.4 int BDir::osort [private]

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

- [BDir.h](#)
- [BDir.cpp](#)

6.16 BEntry Class Reference

Manipulate a name value pair.

```
#include <BEntry.h>
```

Public Member Functions

- [BEntry](#) ()
- [BEntry](#) ([BString](#) name, [BString](#) value)
Set name and value.
- [BEntry](#) ([BString](#) line)
Set name and value from white space delimited string.
- [BString](#) [getName](#) ()
Get the name.
- [BString](#) [getValue](#) ()
Get the value.
- void [setLine](#) ([BString](#) line)
Set name and value from white space delimited string.
- void [setName](#) ([BString](#) name)
Set the name.
- void [setValue](#) ([BString](#) value)
Set the value.
- [BString](#) [line](#) ()
Return name and value as padded single string.
- void [print](#) ()
Print name and value.

Private Attributes

- [BString](#) [oname](#)
- [BString](#) [ovalue](#)

6.16.1 Detailed Description

Manipulate a name value pair.

6.16.2 Constructor & Destructor Documentation

6.16.2.1 BEntry::BEntry ()

6.16.2.2 BEntry::BEntry (BString *name*, BString *value*)

Set name and value.

6.16.2.3 BEntry::BEntry (BString *line*)

Set name and value from white space delimited string.

6.16.3 Member Function Documentation

6.16.3.1 BString BEntry::getName ()

Get the name.

6.16.3.2 BString BEntry::getValue ()

Get the value.

6.16.3.3 void BEntry::setLine (BString *line*)

Set name and value from white space delimited string.

6.16.3.4 void BEntry::setName (BString *name*)

Set the name.

6.16.3.5 void BEntry::setValue (BString *value*)

Set the value.

6.16.3.6 BString BEntry::line ()

Return name and value as padded single string.

6.16.3.7 void BEntry::print ()

Print name and value.

6.16.4 Member Data Documentation

6.16.4.1 `BString BEntry::oname` [private]

6.16.4.2 `BString BEntry::ovalue` [private]

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

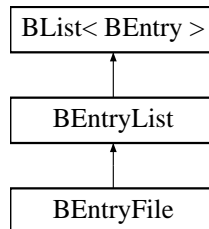
- [BEntry.h](#)
- [BEntry.cpp](#)

6.17 BEntryFile Class Reference

File of Entries.

```
#include <BEntry.h>
```

Inheritance diagram for BEntryFile::



Public Member Functions

- [BEntryFile \(\)](#)
- [BEntryFile \(BString filename\)](#)
Opens entryfile.
- [~BEntryFile \(\)](#)
- [int open \(BString filename\)](#)
Opens entryfile.
- [int read \(\)](#)
Reads entry file and builds list.
- [int write \(\)](#)
Writes list to entryfile.
- [int writeList \(BEntryList &l\)](#)
Writes specified list to file.
- [void clear \(\)](#)
Clears current list.

Private Attributes

- [BString ofilename](#)
- [BString ocomments](#)

6.17.1 Detailed Description

File of Entries.

6.17.2 Constructor & Destructor Documentation

6.17.2.1 BEntryFile::BEntryFile ()

6.17.2.2 BEntryFile::BEntryFile (BString *filename*)

Opens entryfile.

6.17.2.3 BEntryFile::~~BEntryFile ()

6.17.3 Member Function Documentation

6.17.3.1 int BEntryFile::open (BString *filename*)

Opens entryfile.

6.17.3.2 int BEntryFile::read ()

Reads entry file and builds list.

6.17.3.3 int BEntryFile::write ()

Writes list to entryfile.

6.17.3.4 int BEntryFile::writeList (BEntryList & *l*)

Writes specified list to file.

6.17.3.5 void BEntryFile::clear () [virtual]

Clears current list.

Reimplemented from [BEntryList](#).

6.17.4 Member Data Documentation

6.17.4.1 BString BEntryFile::ofilename [private]

6.17.4.2 BString BEntryFile::ocomments [private]

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

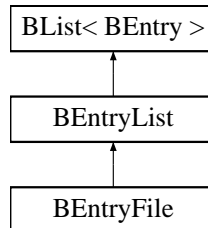
- [BEntry.h](#)
- [BEntry.cpp](#)

6.18 BEntryList Class Reference

List of Entries. Where an entry is a name value pair.

```
#include <BEntry.h>
```

Inheritance diagram for BEntryList::



Public Member Functions

- [BEntryList](#) ()
- [int isSet](#) ([BString](#) name)
1 if name is in list and value is set
- [BEntry *](#) [find](#) ([BString](#) name)
Returns entry if name is found otherwise NULL.
- [BString](#) [findValue](#) ([BString](#) name)
Returns value of name. Returns "" if name not found.
- [int](#) [setValue](#) ([BString](#) name, [BString](#) value)
Set the value of name. Returns 0 if name not found.
- [int](#) [setValueRaw](#) ([BString](#) name, [BString](#) value)
Raw setting of value without looking up existing entry.
- [void](#) [deleteEntry](#) ([BString](#) name)
Deletes the entry.
- [void](#) [print](#) ()
Print list.
- [BString](#) [getString](#) ()
Return list as string. Each Entry padded and on a new line.
- [void](#) [insert](#) ([BIter](#) &i, const [BEntry](#) &item)
Insert item before item.
- [void](#) [del](#) ([BIter](#) &i)
Delete specified item.
- [void](#) [clear](#) ()

Clear the list.

- [BEntryList](#) & `operator=` (const [BEntryList](#) &l)

Private Attributes

- [BIter](#) `olastPos`

6.18.1 Detailed Description

List of Entries. Where an entry is a name value pair.

6.18.2 Constructor & Destructor Documentation

6.18.2.1 [BEntryList::BEntryList](#) ()

6.18.3 Member Function Documentation

6.18.3.1 `int BEntryList::isSet (BString name)`

1 if name is in list and value is set

6.18.3.2 `BEntry * BEntryList::find (BString name)`

Returns entry if name is found otherwise NULL.

6.18.3.3 `BString BEntryList::findValue (BString name)`

Returns value of name. Returns "" if name not found.

6.18.3.4 `int BEntryList::setValue (BString name, BString value)`

Set the value of name. Returns 0 if name not found.

6.18.3.5 `int BEntryList::setValueRaw (BString name, BString value)`

Raw setting of value without looking up existing entry.

6.18.3.6 `void BEntryList::deleteEntry (BString name)`

Deletes the entry.

6.18.3.7 `void BEntryList::print` ()

Print list.

6.18.3.8 BString BEntryList::getString ()

Return list as string. Each Entry padded and on a new line.

6.18.3.9 void BEntryList::insert (BIter & *i*, const BEntry & *item*) [virtual]

Insert item before item.

Reimplemented from [BList< BEntry >](#).

6.18.3.10 void BEntryList::del (BIter & *i*) [virtual]

Delete specified item.

Reimplemented from [BList< BEntry >](#).

6.18.3.11 void BEntryList::clear () [virtual]

Clear the list.

Reimplemented from [BList< BEntry >](#).

Reimplemented in [BEntryFile](#).

6.18.3.12 BEntryList & BEntryList::operator= (const BEntryList & *l*)

6.18.4 Member Data Documentation

6.18.4.1 BIter BEntryList::olastPos [private]

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

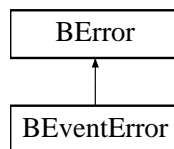
- [BEntry.h](#)
- [BEntry.cpp](#)

6.19 BError Class Reference

Error return class.

```
#include <BError.h>
```

Inheritance diagram for BError::



Public Types

- enum `Type` { `NONE` = 0, `ERROR` = 1 }

Public Member Functions

- `BError` (int errNo=`NONE`, `BString` errStr="")
Create object.
- `BError` (`BString` errStr)
Create with error set and error string.
- `BError` copy ()
Return an independant copy.
- `BError` & `set` (int errNo, `BString` errStr="")
Set error number and message.
- `BError` & `clear` ()
Clear the error.
- `BError` & `setError` (`BString` errStr="")
Set error type ERROR with optional message.
- `BString` `getString` () const
Get error message.
- int `getErrorNo` () const
Get The error number.
- `operator int` () const
Return error number.

Private Attributes

- `int oerrNo`
- `BString oerrStr`

6.19.1 Detailed Description

Error return class.

6.19.2 Member Enumeration Documentation

6.19.2.1 `enum BError::Type`

Enumerator:

NONE

ERROR

6.19.3 Constructor & Destructor Documentation

6.19.3.1 `BError::BError (int errNo = NONE, BString errStr = "")`

Create object.

6.19.3.2 `BError::BError (BString errStr)`

Create with error set and error string.

6.19.4 Member Function Documentation

6.19.4.1 `BError BError::copy ()`

Return an independant copy.

6.19.4.2 `BError & BError::set (int errNo, BString errStr = "")`

Set error number and message.

6.19.4.3 `BError & BError::clear ()`

Clear the error.

6.19.4.4 `BError & BError::setError (BString errStr = "")`

Set error type ERROR with optional message.

6.19.4.5 BString BError::getString () const

Get error message.

6.19.4.6 int BError::getErrorNo () const

Get The error number.

6.19.4.7 BError::operator int () const

Return error number.

6.19.5 Member Data Documentation

6.19.5.1 int BError::oerrNo [private]

6.19.5.2 BString BError::oerrStr [private]

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

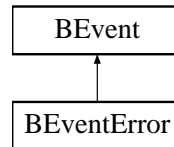
- [BError.h](#)
- [BError.cpp](#)

6.20 BEvent Class Reference

This class provides a base class for all event objects that can be sent over the events interface.

```
#include <BEvent.h>
```

Inheritance diagram for BEvent::



Public Member Functions

- [BEvent](#) (uint32_t type)
- virtual [~BEvent](#) ()
- uint32_t [getType](#) ()
- virtual [BError](#) [getBinary](#) (void *data, uint32_t &size)
- virtual [BError](#) [setBinary](#) (void *data, uint32_t &size)

Private Attributes

- uint32_t [otype](#)
The event type.

6.20.1 Detailed Description

This class provides a base class for all event objects that can be sent over the events interface.

6.20.2 Constructor & Destructor Documentation

6.20.2.1 [BEvent::BEvent](#) (uint32_t type)

6.20.2.2 [BEvent::~~BEvent](#) () [virtual]

6.20.3 Member Function Documentation

6.20.3.1 [uint32_t BEvent::getType](#) ()

6.20.3.2 [BError BEvent::getBinary](#) (void * data, uint32_t & size) [virtual]

Reimplemented in [BEventError](#).

6.20.3.3 [BError BEvent::setBinary](#) (void * data, uint32_t & size) [virtual]

Reimplemented in [BEventError](#).

6.20.4 Member Data Documentation

6.20.4.1 `uint32_t BEvent::otype` `[private]`

The event type.

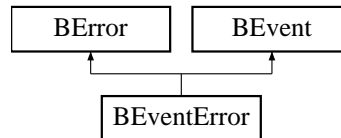
The documentation for this class was generated from the following files:

- [BEvent.h](#)
- [BEvent.cpp](#)

6.21 BEventError Class Reference

```
#include <BEvent.h>
```

Inheritance diagram for BEventError::



Public Member Functions

- [BEventError](#) (int errNo=NONE, [BString](#) errStr="")
- [BError](#) [getBinary](#) (void *data, uint32_t &size)
- [BError](#) [setBinary](#) (void *data, uint32_t &size)

6.21.1 Constructor & Destructor Documentation

6.21.1.1 [BEventError::BEventError](#) (int *errNo* = NONE, [BString](#) *errStr* = "")

6.21.2 Member Function Documentation

6.21.2.1 [BError](#) [BEventError::getBinary](#) (void **data*, uint32_t &*size*) [virtual]

Reimplemented from [BEvent](#).

6.21.2.2 [BError](#) [BEventError::setBinary](#) (void **data*, uint32_t &*size*) [virtual]

Reimplemented from [BEvent](#).

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

- [BEvent.h](#)
- [BEvent.cpp](#)

6.22 BEventInt Class Reference

This class provides an interface for sending simple integer events via a file descriptor. This allows threads to send events that can be picked up by the poll system call.

```
#include <BEvent.h>
```

Public Member Functions

- [BEventInt \(\)](#)
- [~BEventInt \(\)](#)
- void [clear \(\)](#)
Clear events pending.
- [BError sendEvent \(int event\)](#)
Send an event.
- [BError getEvent \(int &event, int timeOutUs=-1\)](#)
Receive the event.
- int [getFd \(\)](#)

Private Attributes

- int [ofds](#) [2]
File descriptors for pipe.

6.22.1 Detailed Description

This class provides an interface for sending simple integer events via a file descriptor. This allows threads to send events that can be picked up by the poll system call.

6.22.2 Constructor & Destructor Documentation

6.22.2.1 BEventInt::BEventInt ()

6.22.2.2 BEventInt::~~BEventInt ()

6.22.3 Member Function Documentation

6.22.3.1 void BEventInt::clear ()

Clear events pending.

6.22.3.2 BError BEventInt::sendEvent (int *event*)

Send an event.

6.22.3.3 BError BEventInt::getEvent (int & *event*, int *timeOutUs* = -1)

Receive the event.

6.22.3.4 int BEventInt::getFd ()

6.22.4 Member Data Documentation

6.22.4.1 int BEventInt::ofds[2] [private]

File descriptors for pipe.

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

- [BEvent.h](#)
- [BEvent.cpp](#)

6.23 BEventPipe Class Reference

This class provides a base interface for sending events via a pipe. This allows threads to send events that can be picked up by the poll system call.

```
#include <BEvent.h>
```

Public Member Functions

- [BEventPipe \(\)](#)
- [~BEventPipe \(\)](#)
- void [clear \(\)](#)
Clear events pending.
- [BError sendEvent \(BEvent *event\)](#)
Send an event.
- [BError getEvent \(BEvent *event, int timeOutUs=-1\)](#)
Receive the event.
- int [getReceiveFd \(\)](#)
returns the receive file descriptor for the poll system call

Private Attributes

- int [ofds](#) [2]
File descriptors for pipe.

6.23.1 Detailed Description

This class provides a base interface for sending events via a pipe. This allows threads to send events that can be picked up by the poll system call.

6.23.2 Constructor & Destructor Documentation

6.23.2.1 BEventPipe::BEventPipe ()

6.23.2.2 BEventPipe::~~BEventPipe ()

6.23.3 Member Function Documentation

6.23.3.1 void BEventPipe::clear ()

Clear events pending.

6.23.3.2 BError BEventPipe::sendEvent (BEvent * *event*)

Send an event.

6.23.3.3 BError BEventPipe::getEvent (BEvent * *event*, int *timeOutUs* = -1)

Receive the event.

6.23.3.4 int BEventPipe::getReceiveFd ()

returns the receive file descriptor for the poll system call

6.23.4 Member Data Documentation

6.23.4.1 int BEventPipe::ofds[2] [private]

File descriptors for pipe.

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

- [BEvent.h](#)
- [BEvent.cpp](#)

6.24 BFifo< Type > Class Template Reference

This class implements a thread safe FIFO buffer.

```
#include <BFifo.h>
```

Public Types

- enum { [defaultSize](#) = 1024 }

Public Member Functions

- [BFifo](#) (uint32_t size=defaultSize)
- [~BFifo](#) ()
- uint32_t [size](#) ()
Return the buffers actual size.
- void [clear](#) ()
Clear all of the data in the buffer.
- uint32_t [writeAvailable](#) ()
Returns the space available to write.
- [BError](#) [writeWaitAvailable](#) (uint32_t numFifoSamples)
Wait for the given number of samples.
- [BError](#) [write](#) (const Type *data, uint32_t numFifoSamples)
Writes the data to the buffer. Blocks until complete.
- Type * [writeData](#) ()
Return a pointer to the current start of the buffer.
- void [writeDone](#) (uint32_t numFifoSamples)
Update the write pointer.
- uint32_t [readAvailable](#) ()
Returns the number of bytes of data available.
- [BError](#) [readWaitAvailable](#) (uint32_t numFifoSamples)
Wait for given number of samples.
- [BError](#) [read](#) (Type *data, uint32_t numFifoSamples)
- Type * [readData](#) ()
Pointer to raw data.
- [BError](#) [readDone](#) (uint32_t numFifoSamples)
Updates read pointer.
- Type & [operator\[\]](#) (int pos)
Direct access to read samples in buffer.

Private Member Functions

- [BError mapCircularBuffer](#) (uint32_t size)
- void [unmapCircularBuffer](#) ()

Private Attributes

- [BMutex olock](#)
- uint32_t [ovmSize](#)
- uint32_t [osize](#)
- Type * [odata](#)
- [BFifoPos owritePos](#)
Current write position.
- [BCondValue owriteNumFifoSamples](#)
The number of samples in the FIFO.
- [BFifoPos oreadPos](#)
Current read position.

6.24.1 Detailed Description

`template<class Type> class BFifo< Type >`

This class implements a thread safe FIFO buffer.

6.24.2 Member Enumeration Documentation

6.24.2.1 `template<class Type> anonymous enum`

Enumerator:

defaultSize

6.24.3 Constructor & Destructor Documentation

6.24.3.1 `template<class Type> BFifo< Type >::BFifo (uint32_t size = defaultSize)`

6.24.3.2 `template<class Type> BFifo< Type >::~~BFifo ()`

6.24.4 Member Function Documentation

6.24.4.1 `template<class Type> uint32_t BFifo< Type >::size ()`

Return the buffers actual size.

6.24.4.2 `template<class Type> void BFifo< Type >::clear ()`

Clear all of the data in the buffer.

6.24.4.3 template<class Type> uint32_t BFifo< Type >::writeAvailable ()

Returns the space available to write.

6.24.4.4 template<class Type> BError BFifo< Type >::writeWaitAvailable (uint32_t *numFifoSamples*)

Wait for the given number of samples.

6.24.4.5 template<class Type> BError BFifo< Type >::write (const Type * *data*, uint32_t *numFifoSamples*)

Writes the data to the buffer. Blocks until complete.

6.24.4.6 template<class Type> Type* BFifo< Type >::writeData ()

Return a pointer to the current start of the buffer.

6.24.4.7 template<class Type> void BFifo< Type >::writeDone (uint32_t *numFifoSamples*)

Update the write pointer.

6.24.4.8 template<class Type> uint32_t BFifo< Type >::readAvailable ()

Returns the number of bytes of data available.

6.24.4.9 template<class Type> BError BFifo< Type >::readWaitAvailable (uint32_t *numFifoSamples*)

Wait for given number of samples.

6.24.4.10 template<class Type> BError BFifo< Type >::read (Type * *data*, uint32_t *numFifoSamples*)**6.24.4.11 template<class Type> Type* BFifo< Type >::readData ()**

Pointer to raw data.

6.24.4.12 template<class Type> BError BFifo< Type >::readDone (uint32_t *numFifoSamples*)

Updates read pointer.

6.24.4.13]

template<class Type> Type& BFifo< Type >::operator[] (int *pos*)

Direct access to read samples in buffer.

6.24.4.14 `template<class Type> BError BFifo< Type >::mapCircularBuffer (uint32_t size)`
[private]

6.24.4.15 `template<class Type> void BFifo< Type >::unmapCircularBuffer ()` [private]

6.24.5 Member Data Documentation

6.24.5.1 `template<class Type> BMutex BFifo< Type >::olock` [private]

6.24.5.2 `template<class Type> uint32_t BFifo< Type >::ovmSize` [private]

6.24.5.3 `template<class Type> uint32_t BFifo< Type >::osize` [private]

6.24.5.4 `template<class Type> Type* BFifo< Type >::odata` [private]

6.24.5.5 `template<class Type> BFifoPos BFifo< Type >::owritePos` [private]

Current write position.

6.24.5.6 `template<class Type> BCondValue BFifo< Type >::owriteNumFifoSamples`
[private]

The number of samples in the FIFO.

6.24.5.7 `template<class Type> BFifoPos BFifo< Type >::oreadPos` [private]

Current read position.

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

- [BFifo.h](#)

6.25 BFifoPos Class Reference

This class implements a pointer into the Fifo's circular buffer.

```
#include <BFifo.h>
```

Public Member Functions

- [BFifoPos](#) (uint32_t size)
- void [setSize](#) (uint32_t size)
- void [set](#) (uint32_t pos)
Sets the position.
- uint32_t [pos](#) ()
The current position.
- void [increment](#) (uint32_t numFifoSamples)
Increment the pointer by the given value.
- uint32_t [difference](#) (const [BFifoPos](#) &pos)
Return the difference between the two pointers.
- [operator int](#) ()
- void [operator+=](#) (uint32_t numFifoSamples)
- int [operator==](#) (const [BFifoPos](#) &pos)
- int [operator!=](#) (const [BFifoPos](#) &pos)

Private Attributes

- uint32_t [osize](#)
- uint32_t [opos](#)

6.25.1 Detailed Description

This class implements a pointer into the Fifo's circular buffer.

6.25.2 Constructor & Destructor Documentation

6.25.2.1 [BFifoPos::BFifoPos](#) (uint32_t size)

6.25.3 Member Function Documentation

6.25.3.1 [void BFifoPos::setSize](#) (uint32_t size)

6.25.3.2 [void BFifoPos::set](#) (uint32_t pos)

Sets the position.

6.25.3.3 uint32_t BFifoPos::pos ()

The current position.

6.25.3.4 void BFifoPos::increment (uint32_t *numFifoSamples*)

Increment the pointer by the given value.

6.25.3.5 uint32_t BFifoPos::difference (const BFifoPos & *pos*)

Return the difference between the two pointers.

6.25.3.6 BFifoPos::operator int ()

6.25.3.7 void BFifoPos::operator+= (uint32_t *numFifoSamples*)

6.25.3.8 int BFifoPos::operator== (const BFifoPos & *pos*)

6.25.3.9 int BFifoPos::operator!= (const BFifoPos & *pos*)

6.25.4 Member Data Documentation

6.25.4.1 uint32_t BFifoPos::osize [private]

6.25.4.2 uint32_t BFifoPos::opos [private]

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

- [BFifo.h](#)
- [BFifo.cpp](#)

6.26 BFile Class Reference

File operations class.

```
#include <BFile.h>
```

Public Member Functions

- [BFile](#) ()
- [BFile](#) (const [BFile](#) &file)
Create opened specified file.
- [~BFile](#) ()
- [BError open](#) ([BString](#) name, [BString](#) mode)
Open file.
- [BError open](#) (FILE *file)
Assign object to opened file handle.
- [BError open](#) (int fd, [BString](#) mode)
Assign object to opened file descriptor.
- void [close](#) ()
Close file.
- int [isEnd](#) ()
Returns 1 if at the end of the file, 0 otherwise.
- FILE * [getFd](#) ()
File descriptor.
- [BUInt64 length](#) ()
File size in bytes.
- int [setVBuf](#) (char *buf, int mode, size_t size)
Set stream buffering options.
- int [read](#) (void *buf, int nbytes)
Read from file.
- int [readString](#) ([BString](#) &str)
Read string. (ref fgets).
- char * [fgets](#) (char *buf, size_t size)
- int [write](#) (const void *buf, int nbytes)
Write to file.
- int [writeString](#) (const [BString](#) &str)
Write string to file.

- `int seek (BUInt64 pos)`
Set seek position.
- `BUInt64 position ()`
The files position.
- `int printf (const char *fmt,...)`
Formatted print into the file.
- `BError truncate ()`
Truncate the file.
- `BError flush ()`
Flush the file.
- `BFile & operator= (const BFile &file)`

Private Attributes

- `FILE * ofile`
- `BString ofileName`
- `BString omode`

6.26.1 Detailed Description

File operations class.

6.26.2 Constructor & Destructor Documentation

6.26.2.1 BFile::BFile ()

6.26.2.2 BFile::BFile (const BFile &file)

Create opened specified file.

6.26.2.3 BFile::~~BFile ()

6.26.3 Member Function Documentation

6.26.3.1 BError BFile::open (BString name, BString mode)

Open file.

6.26.3.2 BError BFile::open (FILE *file)

Assign object to opened file handle.

6.26.3.3 BError BFile::open (int *fd*, BString *mode*)

Assign object to opened file descriptor.

6.26.3.4 void BFile::close ()

Close file.

6.26.3.5 int BFile::isEnd ()

Returns 1 if at the end of the file, 0 otherwise.

6.26.3.6 FILE * BFile::getFd ()

File descriptor.

6.26.3.7 BUInt64 BFile::length ()

File size in bytes.

6.26.3.8 int BFile::setVBuf (char * *buf*, int *mode*, size_t *size*)

Set stream buffering options.

6.26.3.9 int BFile::read (void * *buf*, int *nbytes*)

Read from file.

6.26.3.10 int BFile::readString (BString & *str*)

Read string. (ref fgets).

6.26.3.11 char * BFile::fgets (char * *buf*, size_t *size*)**6.26.3.12 int BFile::write (const void * *buf*, int *nbytes*)**

Write to file.

6.26.3.13 int BFile::writeString (const BString & *str*)

Write string to file.

6.26.3.14 int BFile::seek (BUInt64 *pos*)

Set seek position.

6.26.3.15 BUInt64 BFile::position ()

The files position.

6.26.3.16 int BFile::printf (const char **fmt*, ...)

Formatted print into the file.

6.26.3.17 BError BFile::truncate ()

Truncate the file.

6.26.3.18 BError BFile::flush ()

Flush the file.

6.26.3.19 BFile & BFile::operator= (const BFile &*file*)**6.26.4 Member Data Documentation****6.26.4.1 FILE* BFile::ofile** [private]**6.26.4.2 BString BFile::ofilename** [private]**6.26.4.3 BString BFile::omode** [private]

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

- [BFile.h](#)
- [BFile.cpp](#)

6.27 BIter Class Reference

Iterator for [BList](#).

```
#include <BList.h>
```

Public Member Functions

- [BIter](#) ([BNode](#) *i=0)
- [operator BNode *](#) ()
- [int operator==](#) (const [BIter](#) &i)

Private Attributes

- [BNode](#) * oi

6.27.1 Detailed Description

Iterator for [BList](#).

6.27.2 Constructor & Destructor Documentation

6.27.2.1 [BIter::BIter](#) ([BNode](#) * *i* = 0) [[inline](#)]

6.27.3 Member Function Documentation

6.27.3.1 [BIter::operator BNode *](#) () [[inline](#)]

6.27.3.2 [int BIter::operator==](#) (const [BIter](#) & *i*) [[inline](#)]

6.27.4 Member Data Documentation

6.27.4.1 [BNode*](#) [BIter::oi](#) [[private](#)]

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

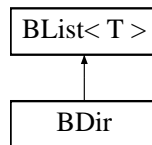
- [BList.h](#)

6.28 BList< T > Class Template Reference

Template based list class.

```
#include <BList.h>
```

Inheritance diagram for BList< T >::



Public Types

- typedef int(* [SortFunc](#))(T &a, T &b)
Prototype for sorting function.

Public Member Functions

- [BList](#) ()
- [BList](#) (const [BList](#)< T > &l)
- virtual [~BList](#) ()
- void [start](#) ([BIter](#) &i) const
Iterator to start of list.
- [BIter begin](#) () const
Iterator for start of list.
- [BIter end](#) () const
Iterator for end of list.
- [BIter end](#) ([BIter](#) &i) const
Iterator for end of list.
- void [next](#) ([BIter](#) &i) const
Iterator for next item in list.
- void [prev](#) ([BIter](#) &i)
Iterator for previous item in list.
- [BIter goTo](#) (int pos)
Iterator for pos item in list.
- int [position](#) ([BIter](#) i)
Postition in list item with iterator i.
- unsigned int [number](#) ()

Number of items in list.

- unsigned int `size ()`
Number of items in list.
- int `isEnd (BIter &i)` const
True if iterator refers to last item.
- T & `front ()`
Get first item in list.
- T & `rear ()`
Get last item in list.
- T & `get (BIter i)`
Get item specified by iterator in list.
- const T & `get (BIter i)` const
Get item specified by iterator in list.
- void `append (const T &item)`
Append item to list.
- virtual void `insert (BIter &i, const T &item)`
Insert item before item.
- void `insertAfter (BIter &i, const T &item)`
Insert item after item.
- virtual void `clear ()`
Clear the list.
- virtual void `del (BIter &i)`
Delete specified item.
- void `deleteLast ()`
Delete last item.
- void `deleteFirst ()`
Delete first item.
- void `push (const T &i)`
Push item onto list.
- T `pop ()`
Pop item from list deleting item.
- void `queueAdd (const T &i)`
Add item to end of list.

- T [queueGet](#) ()
Get item from front of list deleteing item.
- void [append](#) (const [BList](#)< T > &l)
Append list to list.
- void [swap](#) ([BIter](#) i1, [BIter](#) i2)
Swap two items in list.
- void [sort](#) ()
Sort list based on get(i) values.
- void [sort](#) ([SortFunc](#) func)
Sort list based on Sort func.
- [BList](#)< T > & [operator=](#) (const [BList](#)< T > &l)
- T & [operator\[\]](#) (int i)
- const T & [operator\[\]](#) (int i) const
- T & [operator\[\]](#) ([BIter](#) i)
- const T & [operator\[\]](#) (const [BIter](#) &i) const
- [BList](#)< T > [operator+](#) (const [BList](#)< T > &l) const

Protected Member Functions

- virtual [Node](#) * [nodeGet](#) ([BIter](#) i)
- virtual const [Node](#) * [nodeGet](#) ([BIter](#) i) const
- virtual [Node](#) * [nodeCreate](#) (const T &item)

Protected Attributes

- [Node](#) * [onodes](#)
- unsigned int [olength](#)

Private Member Functions

- virtual [Node](#) * [nodeCreate](#) ()

Classes

- class [Node](#)

6.28.1 Detailed Description

template<class T> class BList< T >

Template based list class.

6.28.2 Member Typedef Documentation

6.28.2.1 `template<class T> typedef int(* BList< T >::SortFunc)(T &a, T &b)`

Prototype for sorting function.

6.28.3 Constructor & Destructor Documentation

6.28.3.1 `template<class T> BList< T >::BList () [inline]`

6.28.3.2 `template<class T> BList< T >::BList (const BList< T > &l) [inline]`

6.28.3.3 `template<class T> BList< T >::~~BList () [inline, virtual]`

6.28.4 Member Function Documentation

6.28.4.1 `template<class T> void BList< T >::start (BIter &i) const [inline]`

Iterator to start of list.

6.28.4.2 `template<class T> BIter BList< T >::begin () const [inline]`

Iterator for start of list.

6.28.4.3 `template<class T> BIter BList< T >::end () const [inline]`

Iterator for end of list.

6.28.4.4 `template<class T> BIter BList< T >::end (BIter &i) const [inline]`

Iterator for end of list.

6.28.4.5 `template<class T> void BList< T >::next (BIter &i) const [inline]`

Iterator for next item in list.

6.28.4.6 `template<class T> void BList< T >::prev (BIter &i) [inline]`

Iterator for previous item in list.

6.28.4.7 `template<class T> BIter BList< T >::goTo (int pos) [inline]`

Iterator for pos item in list.

6.28.4.8 `template<class T> int BList< T >::position (BIter i) [inline]`

Position in list item with iterator i.

6.28.4.9 `template<class T> unsigned int BList< T >::number ()` `[inline]`

Number of items in list.

6.28.4.10 `template<class T> unsigned int BList< T >::size ()` `[inline]`

Number of items in list.

6.28.4.11 `template<class T> int BList< T >::isEnd (BIter & i) const` `[inline]`

True if iterator refers to last item.

6.28.4.12 `template<class T> T & BList< T >::front ()` `[inline]`

Get first item in list.

6.28.4.13 `template<class T> T & BList< T >::rear ()` `[inline]`

Get last item in list.

6.28.4.14 `template<class T> T & BList< T >::get (BIter i)` `[inline]`

Get item specified by iterator in list.

6.28.4.15 `template<class T> const T & BList< T >::get (BIter i) const` `[inline]`

Get item specified by iterator in list.

6.28.4.16 `template<class T> void BList< T >::append (const T & item)` `[inline]`

Append item to list.

6.28.4.17 `template<class T> void BList< T >::insert (BIter & i, const T & item)` `[inline, virtual]`

Insert item before item.

Reimplemented in [BEntryList](#).

6.28.4.18 `template<class T> void BList< T >::insertAfter (BIter & i, const T & item)` `[inline]`

Insert item after item.

6.28.4.19 `template<class T> void BList< T >::clear ()` [inline, virtual]

Clear the list.

Reimplemented in [BDir](#), [BEntryList](#), and [BEntryFile](#).

6.28.4.20 `template<class T> void BList< T >::del (BIter & i)` [inline, virtual]

Delete specified item.

Reimplemented in [BEntryList](#).

6.28.4.21 `template<class T> void BList< T >::deleteLast ()` [inline]

Delete last item.

6.28.4.22 `template<class T> void BList< T >::deleteFirst ()` [inline]

Delete first item.

6.28.4.23 `template<class T> void BList< T >::push (const T & i)` [inline]

Push item onto list.

6.28.4.24 `template<class T> T BList< T >::pop ()` [inline]

Pop item from list deleting item.

6.28.4.25 `template<class T> void BList< T >::queueAdd (const T & i)` [inline]

Add item to end of list.

6.28.4.26 `template<class T> T BList< T >::queueGet ()` [inline]

Get item from front of list deleting item.

6.28.4.27 `template<class T> void BList< T >::append (const BList< T > & l)` [inline]

Append list to list.

6.28.4.28 `template<class T> void BList< T >::swap (BIter i1, BIter i2)` [inline]

Swap two items in list.

6.28.4.29 `template<class T> void BList< T >::sort ()` [inline]

Sort list based on get(i) values.

6.28.4.30 `template<class T> void BList< T >::sort (SortFunc func)` `[inline]`

Sort list based on Sort func.

6.28.4.31 `template<class T> BList< T > & BList< T >::operator= (const BList< T > & l)`
`[inline]`

6.28.4.32 `]`

`template<class T> T & BList< T >::operator[] (int i)` `[inline]`

6.28.4.33 `]`

`template<class T> const T & BList< T >::operator[] (int i) const` `[inline]`

6.28.4.34 `]`

`template<class T> T & BList< T >::operator[] (BIter i)` `[inline]`

6.28.4.35 `]`

`template<class T> const T & BList< T >::operator[] (const BIter & i) const` `[inline]`

Reimplemented in [BDict< Type >](#), and [BDict< BString >](#).

6.28.4.36 `template<class T> BList< T > BList< T >::operator+ (const BList< T > & l) const`
`[inline]`

6.28.4.37 `template<class T> BList< T >::Node * BList< T >::nodeGet (BIter i)` `[inline, protected, virtual]`

6.28.4.38 `template<class T> const BList< T >::Node * BList< T >::nodeGet (BIter i) const`
`[inline, protected, virtual]`

6.28.4.39 `template<class T> BList< T >::Node * BList< T >::nodeCreate (const T & item)`
`[inline, protected, virtual]`

6.28.4.40 `template<class T> BList< T >::Node * BList< T >::nodeCreate ()` `[inline, private, virtual]`

6.28.5 Member Data Documentation

6.28.5.1 `template<class T> Node* BList< T >::onodes` `[protected]`

6.28.5.2 `template<class T> unsigned int BList< T >::olength` `[protected]`

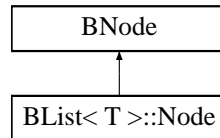
The documentation for this class was generated from the following files:

- [BList.h](#)
- [BList_func.h](#)

6.29 BList< T >::Node Class Reference

```
#include <BList.h>
```

Inheritance diagram for BList< T >::Node::



Public Member Functions

- [Node](#) (const T &i)

Public Attributes

- T [item](#)

```
template<class T> class BList< T >::Node
```

6.29.1 Constructor & Destructor Documentation

6.29.1.1 `template<class T> BList< T >::Node::Node (const T & i) [inline]`

6.29.2 Member Data Documentation

6.29.2.1 `template<class T> T BList< T >::Node::item`

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

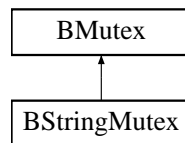
- [BList.h](#)

6.30 BMutex Class Reference

Mutex class.

```
#include <BMutex.h>
```

Inheritance diagram for BMutex::



Public Types

- enum `Type` { `Normal`, `Recursive` }

Public Member Functions

- `BMutex` (`Type` type=`Normal`)
- `BMutex` (const `BMutex` &mutex)
- `~BMutex` ()
- int `lock` ()
Set lock, wait as necessary.
- int `timedLock` (int timeoutUs)
Set lock, wait as necessary but timeout after given time.
- int `unlock` ()
Unlock the lock.
- int `tryLock` ()
Test the lock.
- `BMutex` & `operator=` (const `BMutex` &mutex)

Private Attributes

- pthread_mutex_t `omutex`

6.30.1 Detailed Description

Mutex class.

6.30.2 Member Enumeration Documentation

6.30.2.1 enum BMutex::Type

Enumerator:

Normal

Recursive

6.30.3 Constructor & Destructor Documentation

6.30.3.1 BMutex::BMutex (Type *type* = Normal)

6.30.3.2 BMutex::BMutex (const BMutex & *mutex*)

6.30.3.3 BMutex::~~BMutex ()

6.30.4 Member Function Documentation

6.30.4.1 int BMutex::lock ()

Set lock, wait as necessary.

6.30.4.2 int BMutex::timedLock (int *timeoutUs*)

Set lock, wait as necessary but timeout after given time.

6.30.4.3 int BMutex::unlock ()

Unlock the lock.

6.30.4.4 int BMutex::tryLock ()

Test the lock.

6.30.4.5 BMutex & BMutex::operator= (const BMutex & *mutex*)

6.30.5 Member Data Documentation

6.30.5.1 pthread_mutex_t BMutex::omutex [private]

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

- [BMutex.h](#)
- [BMutex.cpp](#)

6.31 BMutexLock Class Reference

```
#include <BMutex.h>
```

Public Member Functions

- [BMutexLock](#) ([BMutex](#) &lock)
- [~BMutexLock](#) ()

Private Attributes

- [BMutex](#) & olock

6.31.1 Constructor & Destructor Documentation

6.31.1.1 [BMutexLock::BMutexLock \(BMutex & lock\)](#) [inline]

6.31.1.2 [BMutexLock::~~BMutexLock \(\)](#) [inline]

6.31.2 Member Data Documentation

6.31.2.1 [BMutex& BMutexLock::olock](#) [private]

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

- [BMutex.h](#)

6.32 BMySQL Class Reference

```
#include <BMySQL.h>
```

Public Member Functions

- [BMySQL \(\)](#)
- [~BMySQL \(\)](#)
- [BError open \(BString hostName, BString dataBase, BString userName, BString password\)](#)
- [BError get \(BString table, BString where, BDictString &fields\)](#)
- [BError insert \(BString table, BDictString fields, BUInt32 *id=0\)](#)
- [BError update \(BString table, BUInt32 id, BDictString fields\)](#)
- [BError query \(BString cmd, BList< BDictString > &result\)](#)
- [MYSQL & db \(\)](#)
- [void setDebug \(int debug\)](#)

Private Attributes

- [MYSQL odb](#)
- [int oopened](#)
- [int odebug](#)
- [BMutex olock](#)

6.32.1 Constructor & Destructor Documentation

6.32.1.1 BMySQL::BMySQL ()

6.32.1.2 BMySQL::~~BMySQL ()

6.32.2 Member Function Documentation

6.32.2.1 BError BMySQL::open (BString *hostName*, BString *dataBase*, BString *userName*, BString *password*)

6.32.2.2 BError BMySQL::get (BString *table*, BString *where*, BDictString & *fields*)

6.32.2.3 BError BMySQL::insert (BString *table*, BDictString *fields*, BUInt32 * *id* = 0)

6.32.2.4 BError BMySQL::update (BString *table*, BUInt32 *id*, BDictString *fields*)

6.32.2.5 BError BMySQL::query (BString *cmd*, BList< BDictString > & *result*)

6.32.2.6 MYSQL & BMySQL::db ()

6.32.2.7 void BMySQL::setDebug (int *debug*)

6.32.3 Member Data Documentation

6.32.3.1 MYSQL BMySQL::odb [private]

6.32.3.2 int BMySQL::oopened [private]

6.32.3.3 int BMySQL::odebug [private]

6.32.3.4 BMutex BMySQL::olock [private]

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

- [BMySQL.h](#)
- [BMySQL.cpp](#)

6.33 BNameValue< T > Class Template Reference

```
#include <BNameValue.h>
```

Public Member Functions

- [BNameValue \(\)](#)
- [BNameValue \(BString name, const T &value\)](#)
- [BString getName \(\)](#)
- [T & getValue \(\)](#)

Private Attributes

- [BString oname](#)
- [T ovalue](#)

```
template<class T> class BNameValue< T >
```

6.33.1 Constructor & Destructor Documentation

6.33.1.1 `template<class T> BNameValue< T >::BNameValue ()` `[inline]`

6.33.1.2 `template<class T> BNameValue< T >::BNameValue (BString name, const T & value)`
`[inline]`

6.33.2 Member Function Documentation

6.33.2.1 `template<class T> BString BNameValue< T >::getName ()` `[inline]`

6.33.2.2 `template<class T> T& BNameValue< T >::getValue ()` `[inline]`

6.33.3 Member Data Documentation

6.33.3.1 `template<class T> BString BNameValue< T >::oname` `[private]`

6.33.3.2 `template<class T> T BNameValue< T >::ovalue` `[private]`

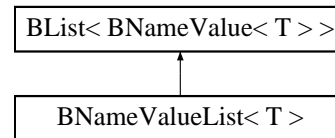
The documentation for this class was generated from the following file:

- [BNameValue.h](#)

6.34 BNameValueList< T > Class Template Reference

```
#include <BNameValue.h>
```

Inheritance diagram for BNameValueList< T >::



Public Member Functions

- [T * find \(BString name\)](#)
- [BIter findPos \(BString name\)](#)

```
template<class T> class BNameValueList< T >
```

6.34.1 Member Function Documentation

6.34.1.1 `template<class T> T* BNameValueList< T >::find (BString name)` `[inline]`

6.34.1.2 `template<class T> BIter BNameValueList< T >::findPos (BString name)` `[inline]`

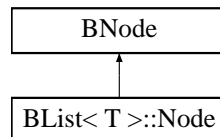
The documentation for this class was generated from the following file:

- [BNameValue.h](#)

6.35 BNode Class Reference

```
#include <BList.h>
```

Inheritance diagram for BNode::



Public Member Functions

- [BNode\(\)](#)

Public Attributes

- [BNode * next](#)
- [BNode * prev](#)

6.35.1 Constructor & Destructor Documentation

6.35.1.1 [BNode::BNode\(\)](#) `[inline]`

6.35.2 Member Data Documentation

6.35.2.1 [BNode* BNode::next](#)

6.35.2.2 [BNode* BNode::prev](#)

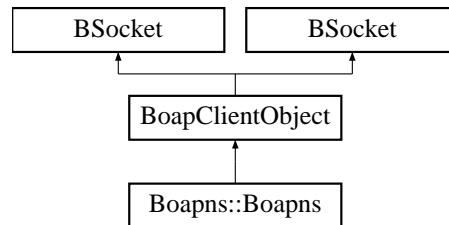
The documentation for this class was generated from the following file:

- [BList.h](#)

6.36 BoapClientObject Class Reference

```
#include <BoapSimple.h>
```

Inheritance diagram for BoapClientObject::



Public Member Functions

- [BoapClientObject](#) (BString name="")
- [BError connectService](#) (BString name)
Connects to the named service.
- [BError disconnectService](#) ()
Disconnects from the named service.
- [BString getServiceName](#) ()
Get the name of the service.
- [BError ping](#) (BUInt32 &apiVersion)
Pings the connection and finds the remotes version number.
- [BError setConnectionPriority](#) (BoapPriority priority)
Sets the connection priority.
- void [setMaxLength](#) (BUInt32 maxLength)
Sets the maximum packet length.
- void [setTimeout](#) (int timeout)
Sets the timeout in micro seconds. -1 is wait indefinitely.
- [BoapClientObject](#) (BString name)
- [BError connectService](#) (BString name)

Protected Member Functions

- [BError pingLocked](#) (BUInt32 &apiVersion)
- [BError checkApiVersion](#) ()
- [BError performCall](#) (BoapPacket &tx, BoapPacket &rx)
Performs a RPC call to the named service.
- [BError performSend](#) (BoapPacket &tx)

Performs a send to the named service.

- [BError performRecv](#) ([BoapPacket](#) &rx)

Performs a receive.

- [BError performSend](#) ([BoapPacket](#) &tx)
- [BError performRecv](#) ([BoapPacket](#) &rx)
- [BError performCall](#) ([BoapPacket](#) &tx, [BoapPacket](#) &rx)

Protected Attributes

- [BString](#) oname
- [BUInt32](#) oapiVersion
- [BoapPriority](#) opriority
- [BoapService](#) oservice
- [int](#) oconnected
- [BUInt32](#) omaxLength
- [BoapPacket](#) otx
- [BoapPacket](#) orx
- [BMutex](#) olock
- [int](#) otimeout
- [int](#) oreconnect

6.36.1 Constructor & Destructor Documentation

6.36.1.1 [BoapClientObject::BoapClientObject](#) ([BString](#) *name* = " ")

6.36.1.2 [BoapClientObject::BoapClientObject](#) ([BString](#) *name*)

6.36.2 Member Function Documentation

6.36.2.1 [BError BoapClientObject::connectService](#) ([BString](#) *name*)

Connects to the named service.

6.36.2.2 [BError BoapClientObject::disconnectService](#) ()

Disconnects from the named service.

6.36.2.3 [BString BoapClientObject::getServiceName](#) ()

Get the name of the service.

6.36.2.4 [BError BoapClientObject::ping](#) ([BUInt32](#) & *apiVersion*)

Pings the connection and finds the remotes version number.

6.36.2.5 BError BoapClientObject::setConnectionPriority (BoapPriority *priority*)

Sets the connection priority.

6.36.2.6 void BoapClientObject::setMaxLength (BUInt32 *maxLength*)

Sets the maximum packet length.

6.36.2.7 void BoapClientObject::setTimeout (int *timeout*)

Sets the timeout in micro seconds. -1 is wait indefinitely.

6.36.2.8 BError BoapClientObject::pingLocked (BUInt32 & *apiVersion*) [protected]**6.36.2.9 BError BoapClientObject::checkApiVersion ()** [protected]**6.36.2.10 BError BoapClientObject::performCall (BoapPacket & *tx*, BoapPacket & *rx*)**
[protected]

Performs a RPC call to the named service.

6.36.2.11 BError BoapClientObject::performSend (BoapPacket & *tx*) [protected]

Performs a send to the named service.

6.36.2.12 BError BoapClientObject::performRecv (BoapPacket & *rx*) [protected]

Performs a receive.

6.36.2.13 **BError** BoapClientObject::connectService (BString *name*)

6.36.2.14 **BError** BoapClientObject::performSend (BoapPacket & *tx*) [protected]

6.36.2.15 **BError** BoapClientObject::performRecv (BoapPacket & *rx*) [protected]

6.36.2.16 **BError** BoapClientObject::performCall (BoapPacket & *tx*, BoapPacket & *rx*)
[protected]

6.36.3 Member Data Documentation

6.36.3.1 **BString** BoapClientObject::oname [protected]

6.36.3.2 **BUInt32** BoapClientObject::oapiVersion [protected]

6.36.3.3 **BoapPriority** BoapClientObject::opriority [protected]

6.36.3.4 **BoapService** BoapClientObject::oservice [protected]

6.36.3.5 **int** BoapClientObject::oconnected [protected]

6.36.3.6 **BUInt32** BoapClientObject::omaxLength [protected]

6.36.3.7 **BoapPacket** BoapClientObject::otx [protected]

6.36.3.8 **BoapPacket** BoapClientObject::orx [protected]

6.36.3.9 **BMutex** BoapClientObject::olock [protected]

6.36.3.10 **int** BoapClientObject::otimeout [protected]

6.36.3.11 **int** BoapClientObject::oreconnect [protected]

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

- [Boap.h](#)
- [BoapSimple.h](#)
- [Boap.cpp](#)
- [BoapSimple.cc](#)

6.37 Boapns::BoapEntry Class Reference

```
#include <BoapnsD.h>
```

Public Member Functions

- [BoapEntry](#) ([BString](#) pname=[BString](#)(), [BString](#) phostName=[BString](#)(), [BList](#)< [BString](#) > paddressList=[BList](#)< [BString](#) >(), [BUInt32](#) pport=[BUInt32](#)(), [BUInt32](#) pservice=[BUInt32](#)())

Public Attributes

- [BString](#) name
- [BString](#) hostName
- [BList](#)< [BString](#) > addressList
- [BUInt32](#) port
- [BUInt32](#) service

6.37.1 Constructor & Destructor Documentation

6.37.1.1 [Boapns::BoapEntry::BoapEntry](#) ([BString](#) *pname* = [BString](#) (), [BString](#) *phostName* = [BString](#) (), [BList](#)< [BString](#) > *paddressList* = [BList](#)<[BString](#) > (), [BUInt32](#) *pport* = [BUInt32](#) (), [BUInt32](#) *pservice* = [BUInt32](#) ())

6.37.2 Member Data Documentation

6.37.2.1 [BString](#) [Boapns::BoapEntry::name](#)

6.37.2.2 [BString](#) [Boapns::BoapEntry::hostName](#)

6.37.2.3 [BList](#)<[BString](#) > [Boapns::BoapEntry::addressList](#)

6.37.2.4 [BUInt32](#) [Boapns::BoapEntry::port](#)

6.37.2.5 [BUInt32](#) [Boapns::BoapEntry::service](#)

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

- [BoapnsD.h](#)
- [BoapnsD.cc](#)

6.38 BoapFuncEntry Class Reference

```
#include <BoapSimple.h>
```

Public Member Functions

- [BoapFuncEntry](#) (int cmd, [BoapFunc](#) func)
- [BoapFuncEntry](#) (int cmd, [BoapFunc](#) func)

Public Attributes

- [BUInt32](#) ocmd
- [BoapFunc](#) ofunc
- [UInt32](#) ocmd

6.38.1 Constructor & Destructor Documentation

6.38.1.1 [BoapFuncEntry::BoapFuncEntry](#) (int *cmd*, [BoapFunc](#) *func*)

6.38.1.2 [BoapFuncEntry::BoapFuncEntry](#) (int *cmd*, [BoapFunc](#) *func*)

6.38.2 Member Data Documentation

6.38.2.1 [BUInt32](#) [BoapFuncEntry::ocmd](#)

6.38.2.2 [BoapFunc](#) [BoapFuncEntry::ofunc](#)

6.38.2.3 [UInt32](#) [BoapFuncEntry::ocmd](#)

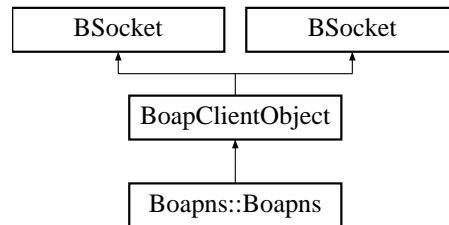
The documentation for this class was generated from the following files:

- [Boap.h](#)
- [BoapSimple.h](#)
- [Boap.cpp](#)
- [BoapSimple.cc](#)

6.39 Boapns::Boapns Class Reference

```
#include <BoapnsC.h>
```

Inheritance diagram for Boapns::Boapns::



Public Member Functions

- [Boapns \(BString name=""\)](#)
- [BError getVersion \(BString &version\)](#)
- [BError getEntryList \(BList< BoapEntry > &entryList\)](#)
- [BError getEntry \(BString name, BoapEntry &entry\)](#)
- [BError addEntry \(BoapEntry entry\)](#)
- [BError delEntry \(BString name\)](#)
- [BError getNewName \(BString &name\)](#)

6.39.1 Constructor & Destructor Documentation

6.39.1.1 [Boapns::Boapns::Boapns \(BString *name* = " "\)](#)

6.39.2 Member Function Documentation

6.39.2.1 [BError Boapns::Boapns::getVersion \(BString & *version*\)](#)

6.39.2.2 [BError Boapns::Boapns::getEntryList \(BList< BoapEntry > & *entryList*\)](#)

6.39.2.3 [BError Boapns::Boapns::getEntry \(BString *name*, BoapEntry & *entry*\)](#)

6.39.2.4 [BError Boapns::Boapns::addEntry \(BoapEntry *entry*\)](#)

6.39.2.5 [BError Boapns::Boapns::delEntry \(BString *name*\)](#)

6.39.2.6 [BError Boapns::Boapns::getNewName \(BString & *name*\)](#)

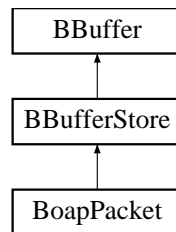
The documentation for this class was generated from the following file:

- [BoapnsC.h](#)

6.40 BoapPacket Class Reference

```
#include <BoapSimple.h>
```

Inheritance diagram for BoapPacket::



Public Member Functions

- [BoapPacket \(\)](#)
- [~BoapPacket \(\)](#)
- [BUInt32 getCmd \(\)](#)
- [int peekHead \(BoapPacketHead &head\)](#)
- [int pushHead \(BoapPacketHead &head\)](#)
- [int popHead \(BoapPacketHead &head\)](#)
- [void updateHead \(\)](#)
- [BoapPacket \(\)](#)
- [~BoapPacket \(\)](#)
- [int resize \(int size\)](#)
- [BError setData \(void *data, int nbytes\)](#)
- [int nbytes \(\)](#)
- [char * data \(\)](#)
The data.
- [int pushHead \(BoapPacketHead &head\)](#)
- [int push \(Int8 v\)](#)
- [int push \(UInt8 v\)](#)
- [int push \(Int16 v\)](#)
- [int push \(UInt16 v\)](#)
- [int push \(Int32 v\)](#)
- [int push \(UInt32 v\)](#)
- [int push \(BString &v\)](#)
- [int push \(Double v\)](#)
- [int push \(BError &v\)](#)
- [int push \(UInt32 nBytes, const void *data\)](#)
- [int popHead \(BoapPacketHead &head\)](#)
- [int pop \(Int8 &v\)](#)
- [int pop \(UInt8 &v\)](#)
- [int pop \(Int16 &v\)](#)
- [int pop \(UInt16 &v\)](#)
- [int pop \(Int32 &v\)](#)
- [int pop \(UInt32 &v\)](#)

- int [pop](#) ([BString](#) &v)
- int [pop](#) ([Double](#) &v)
- int [pop](#) ([BError](#) &v)
- int [pop](#) ([UInt32](#) nBytes, void *data)

Private Member Functions

- void [updateLen](#) ()

Private Attributes

- int [osize](#)
- int [onbytes](#)
- char * [odata](#)
- int [opos](#)

6.40.1 Constructor & Destructor Documentation

6.40.1.1 [BoapPacket::BoapPacket \(\)](#)

6.40.1.2 [BoapPacket::~~BoapPacket \(\)](#)

6.40.1.3 [BoapPacket::BoapPacket \(\)](#)

6.40.1.4 [BoapPacket::~~BoapPacket \(\)](#)

6.40.2 Member Function Documentation

6.40.2.1 [BUInt32 BoapPacket::getCmd \(\)](#)

6.40.2.2 [int BoapPacket::peekHead \(BoapPacketHead & head\)](#)

6.40.2.3 [int BoapPacket::pushHead \(BoapPacketHead & head\)](#)

6.40.2.4 [int BoapPacket::popHead \(BoapPacketHead & head\)](#)

6.40.2.5 [void BoapPacket::updateHead \(\)](#)

6.40.2.6 [int BoapPacket::resize \(int size\)](#)

6.40.2.7 [BError BoapPacket::setData \(void * data, int nbytes\)](#)

6.40.2.8 [int BoapPacket::nbytes \(\)](#)

6.40.2.9 [char * BoapPacket::data \(\)](#)

The data.

Reimplemented from [BBuffer](#).

6.40.2.10 `int BoapPacket::pushHead (BoapPacketHead & head)`

6.40.2.11 `int BoapPacket::push (Int8 v)`

Reimplemented from [BBufferStore](#).

6.40.2.12 `int BoapPacket::push (UInt8 v)`

Reimplemented from [BBufferStore](#).

6.40.2.13 `int BoapPacket::push (Int16 v)`

Reimplemented from [BBufferStore](#).

6.40.2.14 `int BoapPacket::push (UInt16 v)`

Reimplemented from [BBufferStore](#).

6.40.2.15 `int BoapPacket::push (Int32 v)`

Reimplemented from [BBufferStore](#).

6.40.2.16 `int BoapPacket::push (UInt32 v)`

Reimplemented from [BBufferStore](#).

6.40.2.17 `int BoapPacket::push (BString & v)`

6.40.2.18 `int BoapPacket::push (Double v)`

Reimplemented from [BBufferStore](#).

6.40.2.19 `int BoapPacket::push (BError & v)`

6.40.2.20 `int BoapPacket::push (UInt32 nBytes, const void * data)`

6.40.2.21 `int BoapPacket::popHead (BoapPacketHead & head)`

6.40.2.22 `int BoapPacket::pop (Int8 & v)`

Reimplemented from [BBufferStore](#).

6.40.2.23 `int BoapPacket::pop (UInt8 & v)`

Reimplemented from [BBufferStore](#).

6.40.2.24 int BoapPacket::pop (Int16 & *v*)

Reimplemented from [BBufferStore](#).

6.40.2.25 int BoapPacket::pop (UInt16 & *v*)

Reimplemented from [BBufferStore](#).

6.40.2.26 int BoapPacket::pop (Int32 & *v*)

Reimplemented from [BBufferStore](#).

6.40.2.27 int BoapPacket::pop (UInt32 & *v*)

Reimplemented from [BBufferStore](#).

6.40.2.28 int BoapPacket::pop (BString & *v*)

Reimplemented from [BBufferStore](#).

6.40.2.29 int BoapPacket::pop (Double & *v*)

Reimplemented from [BBufferStore](#).

6.40.2.30 int BoapPacket::pop (BError & *v*)

Reimplemented from [BBufferStore](#).

6.40.2.31 int BoapPacket::pop (UInt32 *nBytes*, void * *data*)**6.40.2.32 void BoapPacket::updateLen () [private]****6.40.3 Member Data Documentation****6.40.3.1 int BoapPacket::osize [private]**

Reimplemented from [BBuffer](#).

6.40.3.2 int BoapPacket::onbytes [private]**6.40.3.3 char* BoapPacket::odata [private]**

Reimplemented from [BBuffer](#).

6.40.3.4 `int BoapPacket::opos` [private]

Reimplemented from [BBufferStore](#).

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

- [Boap.h](#)
- [BoapSimple.h](#)
- [Boap.cpp](#)
- [BoapSimple.cc](#)

6.41 BoapPacketHead Struct Reference

```
#include <BoapSimple.h>
```

Public Attributes

- [BUInt32 type](#)
- [BUInt32 length](#)
- [BUInt32 service](#)
- [BUInt32 cmd](#)
- [UInt32 length](#)
- [BoapType type](#)
- [BoapService service](#)
- [UInt32 cmd](#)
- [UInt32 reserved](#) [12]

6.41.1 Member Data Documentation

6.41.1.1 [BUInt32 BoapPacketHead::type](#)

6.41.1.2 [BUInt32 BoapPacketHead::length](#)

6.41.1.3 [BUInt32 BoapPacketHead::service](#)

6.41.1.4 [BUInt32 BoapPacketHead::cmd](#)

6.41.1.5 [UInt32 BoapPacketHead::length](#)

6.41.1.6 [BoapType BoapPacketHead::type](#)

6.41.1.7 [BoapService BoapPacketHead::service](#)

6.41.1.8 [UInt32 BoapPacketHead::cmd](#)

6.41.1.9 [UInt32 BoapPacketHead::reserved\[12\]](#)

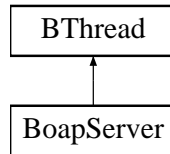
The documentation for this struct was generated from the following files:

- [Boap.h](#)
- [BoapSimple.h](#)

6.42 BoapServer Class Reference

```
#include <BoapSimple.h>
```

Inheritance diagram for BoapServer::



Public Types

- enum { [NOTHEADS](#) = 0, [THREADED](#) = 1 }

Public Member Functions

- [BoapServer](#) ()
- [~BoapServer](#) ()
- [BError](#) [init](#) ([BString](#) boapNsHost="", int port=0, int threaded=0, int isBoapns=0)
- [BError](#) [run](#) (int inThread=0)
- [BError](#) [processEvent](#) ([BoapPacket](#) &rx)
- [BError](#) [addObject](#) ([BoapServiceObject](#) *object)
- [BError](#) [process](#) ([BoapServerConnection](#) *conn, [BoapPacket](#) &rx, [BoapPacket](#) &tx)
- [BError](#) [sendEvent](#) ([BoapPacket](#) &tx)
- [BSocket](#) & [getSocket](#) ()
- [BSocket](#) & [getEventSocket](#) ()
- [BError](#) [processEvent](#) (int fd)
- [BString](#) [getHostName](#) ()
- void [clientGone](#) ([BoapServerConnection](#) *client)
- int [getConnectionsNumber](#) ()
- virtual [BoapServerConnection](#) * [newConnection](#) (int fd, [BSocketAddressINET](#) address)
- [BoapServer](#) ()
- [BError](#) [init](#) (int boapNs=0)
- [BError](#) [run](#) ()
- [BError](#) [processEvent](#) ([BoapPacket](#) &rx)
- [BError](#) [addObject](#) ([BoapServiceObject](#) *object)
- [BError](#) [process](#) (int fd)
- [BError](#) [sendEvent](#) ([BoapPacket](#) &tx)
- [BSocket](#) & [getSocket](#) ()
- [BSocket](#) & [getEventSocket](#) ()
- [BError](#) [processEvent](#) (int fd)
- [BString](#) [getHostName](#) ()

Public Attributes

- [BUInt64](#) onumOperations

Private Member Functions

- void * [function](#) ()

Private Attributes

- int [othreaded](#)
- int [oisBoapns](#)
- [Boapns::Boapns](#) * [oboapns](#)
- [BList](#)< [BoapServerConnection](#) * > [oclients](#)
- [BEventInt](#) [oclientGoneEvent](#)
- [BList](#)< [BoapServiceEntry](#) > [oservices](#)
- [BPoll](#) [opoll](#)
- [BSocket](#) [onet](#)
- [BSocket](#) [onetEvent](#)
- [BSocketAddressINET](#) [onetEventAddress](#)
- [BString](#) [ohostName](#)
- int [oboapNs](#)
- [BoapPacket](#) [orx](#)
- [BoapPacket](#) [otx](#)

6.42.1 Member Enumeration Documentation

6.42.1.1 anonymous enum

Enumerator:

NOTTHREADS

THREADED

6.42.2 Constructor & Destructor Documentation

6.42.2.1 `BoapServer::BoapServer ()`

6.42.2.2 `BoapServer::~~BoapServer ()`

6.42.2.3 `BoapServer::BoapServer ()`

6.42.3 Member Function Documentation

6.42.3.1 `BError BoapServer::init (BString boapNsHost = "", int port = 0, int threaded = 0, int isBoapns = 0)`

6.42.3.2 `BError BoapServer::run (int inThread = 0)`

6.42.3.3 `BError BoapServer::processEvent (BoapPacket & rx)`

6.42.3.4 `BError BoapServer::addObject (BoapServiceObject * object)`

6.42.3.5 `BError BoapServer::process (BoapServerConnection * conn, BoapPacket & rx, BoapPacket & tx)`

6.42.3.6 `BError BoapServer::sendEvent (BoapPacket & tx)`

6.42.3.7 `BSocket & BoapServer::getSocket ()`

6.42.3.8 `BSocket & BoapServer::getEventSocket ()`

6.42.3.9 `BError BoapServer::processEvent (int fd)`

6.42.3.10 `BString BoapServer::getHostName ()`

6.42.3.11 `void BoapServer::clientGone (BoapServerConnection * client)`

6.42.3.12 `int BoapServer::getConnectionsNumber ()`

6.42.3.13 `BoapServerConnection * BoapServer::newConnection (int fd, BSocketAddressINET address) [virtual]`

6.42.3.14 `void * BoapServer::function () [private, virtual]`

Reimplemented from [BThread](#).

- 6.42.3.15 BError BoapServer::init (int *boapNs* = 0)
- 6.42.3.16 BError BoapServer::run ()
- 6.42.3.17 BError BoapServer::processEvent (BoapPacket & *rx*)
- 6.42.3.18 BError BoapServer::addObject (BoapServiceObject * *object*)
- 6.42.3.19 BError BoapServer::process (int *fd*)
- 6.42.3.20 BError BoapServer::sendEvent (BoapPacket & *tx*)
- 6.42.3.21 BSocket& BoapServer::getSocket ()
- 6.42.3.22 BSocket& BoapServer::getEventSocket ()
- 6.42.3.23 BError BoapServer::processEvent (int *fd*)
- 6.42.3.24 BString BoapServer::getHostName ()

6.42.4 Member Data Documentation

- 6.42.4.1 int BoapServer::othreaded [private]
- 6.42.4.2 int BoapServer::oisBoapns [private]
- 6.42.4.3 Boapns::Boapns* BoapServer::oboapns [private]
- 6.42.4.4 BList<BoapServerConnection*> BoapServer::oclients [private]
- 6.42.4.5 BEventInt BoapServer::oclientGoneEvent [private]
- 6.42.4.6 BList< BoapServiceEntry > BoapServer::oservices [private]
- 6.42.4.7 BPoll BoapServer::opoll [private]
- 6.42.4.8 BSocket BoapServer::onet [private]
- 6.42.4.9 BSocket BoapServer::onetEvent [private]
- 6.42.4.10 BSocketAddressINET BoapServer::onetEventAddress [private]
- 6.42.4.11 BString BoapServer::ohostName [private]
- 6.42.4.12 BUInt64 BoapServer::onumOperations
- 6.42.4.13 int BoapServer::oboapNs [private]
- 6.42.4.14 BoapPacket BoapServer::orx [private]
- 6.42.4.15 BoapPacket BoapServer::otx [private]

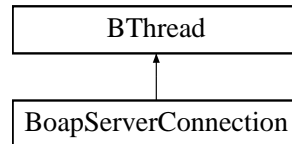
The documentation for this class was generated from the following files:

- [Boap.h](#)
- [BoapSimple.h](#)
- [Boap.cpp](#)
- [BoapSimple.cc](#)

6.43 BoapServerConnection Class Reference

```
#include <Boap.h>
```

Inheritance diagram for BoapServerConnection::



Public Member Functions

- [BoapServerConnection](#) ([BoapServer](#) &boapServer, int fd)
- virtual [~BoapServerConnection](#) ()
- virtual [BError](#) [init](#) ()

Initialise connection.

- virtual [BError](#) [process](#) ()
- virtual [BSocket](#) & [getSocket](#) ()
- virtual void [setMaxLength](#) ([BUInt32](#) maxLength)
- virtual [BError](#) [getHead](#) ([BoapPacketHead](#) &head)
- virtual [BError](#) [validate](#) ()

Validate the connection.

Private Member Functions

- void * [function](#) ()

Private Attributes

- [BoapServer](#) & oboapServer
- [BSocket](#) osocket
- [BoapPacket](#) orx
- [BoapPacket](#) otx
- [BUInt32](#) omaxLength

6.43.1 Constructor & Destructor Documentation

6.43.1.1 [BoapServerConnection::BoapServerConnection](#) ([BoapServer](#) & *boapServer*, int *fd*)

6.43.1.2 [BoapServerConnection::~~BoapServerConnection](#) () [virtual]

6.43.2 Member Function Documentation

6.43.2.1 [BError](#) [BoapServerConnection::init](#) () [virtual]

Initialise connection.

6.43.2.2 `BError BoapServerConnection::process ()` [virtual]

6.43.2.3 `BSocket & BoapServerConnection::getSocket ()` [virtual]

6.43.2.4 `void BoapServerConnection::setMaxLength (BUInt32 maxLength)` [virtual]

6.43.2.5 `BError BoapServerConnection::getHead (BoapPacketHead & head)` [virtual]

6.43.2.6 `BError BoapServerConnection::validate ()` [virtual]

Validate the connection.

6.43.2.7 `void * BoapServerConnection::function ()` [private, virtual]

Reimplemented from [BThread](#).

6.43.3 Member Data Documentation

6.43.3.1 `BoapServer& BoapServerConnection::oboapServer` [private]

6.43.3.2 `BSocket BoapServerConnection::osocket` [private]

6.43.3.3 `BoapPacket BoapServerConnection::orx` [private]

6.43.3.4 `BoapPacket BoapServerConnection::otx` [private]

6.43.3.5 `BUInt32 BoapServerConnection::omaxLength` [private]

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

- [Boap.h](#)
- [Boap.cpp](#)

6.44 BoapServiceEntry Class Reference

```
#include <BoapSimple.h>
```

Public Member Functions

- [BoapServiceEntry](#) ([BoapService](#) service=0, [BoapServiceObject](#) *object=0)
- [BoapServiceEntry](#) ([BoapService](#) service=0, [BoapServiceObject](#) *object=0)

Public Attributes

- [BoapService](#) oservice
- [BoapServiceObject](#) * oobject

6.44.1 Constructor & Destructor Documentation

6.44.1.1 [BoapServiceEntry::BoapServiceEntry](#) ([BoapService](#) *service* = 0, [BoapServiceObject](#) * *object* = 0) [inline]

6.44.1.2 [BoapServiceEntry::BoapServiceEntry](#) ([BoapService](#) *service* = 0, [BoapServiceObject](#) * *object* = 0) [inline]

6.44.2 Member Data Documentation

6.44.2.1 [BoapService](#) [BoapServiceEntry::oservice](#)

6.44.2.2 [BoapServiceObject](#) * [BoapServiceEntry::oobject](#)

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

- [Boap.h](#)
- [BoapSimple.h](#)

6.45 BoapServiceObject Class Reference

```
#include <BoapSimple.h>
```

Public Member Functions

- [BoapServiceObject](#) ([BoapServer](#) &server, [BString](#) name="")
- virtual [~BoapServiceObject](#) ()
- [BError](#) setName ([BString](#) name)
- [BError](#) sendEvent ([BString](#) signalName, [BInt32](#) arg)
- virtual [BError](#) processEvent ([BString](#) objectName, [BString](#) name, [BInt32](#) arg)
- [BString](#) name ()
- [BError](#) doPing ([BoapServerConnection](#) *conn, [BoapPacket](#) &rx, [BoapPacket](#) &tx)
- [BError](#) doConnectionPriority ([BoapServerConnection](#) *conn, [BoapPacket](#) &rx, [BoapPacket](#) &tx)
- [BError](#) process ([BoapServerConnection](#) *conn, [BoapPacket](#) &rx, [BoapPacket](#) &tx)
- virtual [BError](#) processEvent ([BoapPacket](#) &rx)
- [BoapServiceObject](#) ([BoapServer](#) &server, [BString](#) name)
- virtual [~BoapServiceObject](#) ()
- [BError](#) sendEvent ([BString](#) signalName, [Int32](#) arg)
- virtual [BError](#) processEvent ([BString](#) objectName, [BString](#) name, [Int32](#) arg)
- [BString](#) name ()
- [BError](#) process ([BoapPacket](#) &rx, [BoapPacket](#) &tx)
- virtual [BError](#) processEvent ([BoapPacket](#) &rx)

Protected Member Functions

- [BError](#) sendEvent ([BoapPacket](#) &tx)
- [BError](#) sendEvent ([BoapPacket](#) &tx)

Protected Attributes

- [BoapServer](#) & oserver
- [BString](#) oname
- [BUInt32](#) oapiVersion
- [BList](#)< [BoapFuncEntry](#) > ofuncList

6.45.1 Constructor & Destructor Documentation

6.45.1.1 BoapServiceObject::BoapServiceObject (BoapServer & *server*, BString *name* = "")

6.45.1.2 BoapServiceObject::~~BoapServiceObject () [virtual]

6.45.1.3 BoapServiceObject::BoapServiceObject (BoapServer & *server*, BString *name*)

6.45.1.4 virtual BoapServiceObject::~~BoapServiceObject () [virtual]

6.45.2 Member Function Documentation

6.45.2.1 BError BoapServiceObject::setName (BString *name*)

6.45.2.2 BError BoapServiceObject::sendEvent (BString *signalName*, BInt32 *arg*)

6.45.2.3 BError BoapServiceObject::processEvent (BString *objectName*, BString *name*, BInt32 *arg*) [virtual]

6.45.2.4 BString BoapServiceObject::name ()

6.45.2.5 BError BoapServiceObject::doPing (BoapServerConnection * *conn*, BoapPacket & *rx*, BoapPacket & *tx*)

6.45.2.6 BError BoapServiceObject::doConnectionPriority (BoapServerConnection * *conn*, BoapPacket & *rx*, BoapPacket & *tx*)

6.45.2.7 BError BoapServiceObject::process (BoapServerConnection * *conn*, BoapPacket & *rx*, BoapPacket & *tx*)

6.45.2.8 BError BoapServiceObject::processEvent (BoapPacket & *rx*) [virtual]

6.45.2.9 BError BoapServiceObject::sendEvent (BoapPacket & *tx*) [protected]

6.45.2.10 BError BoapServiceObject::sendEvent (BString *signalName*, Int32 *arg*)

6.45.2.11 virtual BError BoapServiceObject::processEvent (BString *objectName*, BString *name*, Int32 *arg*) [virtual]

6.45.2.12 BString BoapServiceObject::name ()

6.45.2.13 BError BoapServiceObject::process (BoapPacket & *rx*, BoapPacket & *tx*)

6.45.2.14 virtual BError BoapServiceObject::processEvent (BoapPacket & *rx*) [virtual]

6.45.2.15 BError BoapServiceObject::sendEvent (BoapPacket & *tx*) [protected]

6.45.3 Member Data Documentation

6.45.3.1 BoapServer & BoapServiceObject::oserver [protected]

6.45.3.2 BString BoapServiceObject::oname [protected]

6.45.3.3 BUInt32 BoapServiceObject::oapiVersion [protected]

Generated on Wed Jun 3 13:59:47 2009 for LibBeamApi by Doxygen

6.45.3.4 BList< BoapFuncEntry > BoapServiceObject::ofuncList [protected]

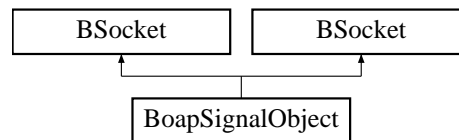
The documentation for this class was generated from the following files:

- [Boap.h](#)
- [BoapSimple.h](#)
- [Boap.cpp](#)
- [BoapSimple.cc](#)

6.46 BoapSignalObject Class Reference

```
#include <BoapSimple.h>
```

Inheritance diagram for BoapSignalObject::



Public Member Functions

- [BoapSignalObject \(\)](#)
- [BoapSignalObject \(\)](#)

Protected Member Functions

- [BError performSend \(BoapPacket &tx\)](#)
- [BError performSend \(BoapPacket &tx\)](#)

Protected Attributes

- [BoapPacket otx](#)
- [BoapPacket orx](#)

6.46.1 Constructor & Destructor Documentation

6.46.1.1 [BoapSignalObject::BoapSignalObject \(\)](#)

6.46.1.2 [BoapSignalObject::BoapSignalObject \(\)](#)

6.46.2 Member Function Documentation

6.46.2.1 [BError BoapSignalObject::performSend \(BoapPacket & tx\)](#) [protected]

6.46.2.2 [BError BoapSignalObject::performSend \(BoapPacket & tx\)](#) [protected]

6.46.3 Member Data Documentation

6.46.3.1 [BoapPacket BoapSignalObject::otx](#) [protected]

6.46.3.2 [BoapPacket BoapSignalObject::orx](#) [protected]

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

- [Boap.h](#)
- [BoapSimple.h](#)

- [Boap.cpp](#)
- [BoapSimple.cc](#)

6.47 BObj Class Reference

```
#include <BObj.h>
```

Public Member Functions

- [BObj \(\)](#)
- virtual [~BObj \(\)](#)
- virtual [BString getType \(\)](#)
- virtual [BError getMembers \(BDictString &members\)](#)
- virtual [BError setMembers \(BDictString &members\)](#)
- virtual [BString getDebugString \(\)](#)

Returns contents as a debug string.

6.47.1 Constructor & Destructor Documentation

6.47.1.1 [BObj::BObj \(\)](#)

6.47.1.2 [BObj::~~BObj \(\)](#) [virtual]

6.47.2 Member Function Documentation

6.47.2.1 [BString BObj::getType \(\)](#) [virtual]

6.47.2.2 [BError BObj::getMembers \(BDictString & *members*\)](#) [virtual]

6.47.2.3 [BError BObj::setMembers \(BDictString & *members*\)](#) [virtual]

6.47.2.4 [BString BObj::getDebugString \(\)](#) [virtual]

Returns contents as a debug string.

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

- [BObj.h](#)
- [BObj.cpp](#)

6.48 BObject Class Reference

```
#include <BObject.h>
```

Public Member Functions

- [BObject](#) ()
- virtual [~BObject](#) ()
- virtual [BError](#) [getBinary](#) (BDataBuf &buf)
- virtual [BError](#) [setBinary](#) (BDataBuf &buf)
- virtual [BString](#) [getString](#) ()
- virtual [BError](#) [setString](#) ([BString](#) str)
- virtual [BMemberList](#) [getMemberList](#) ()
- virtual [BError](#) [addMember](#) ([BString](#) name, [BObject](#) *object)
- virtual void [printIt](#) ()
- virtual BType & [getType](#) ()

Static Public Member Functions

- static [BObject](#) * [createObj](#) ()

Static Public Attributes

- static BType [otype](#) = btypesList.appendType(BType("BObject", BTypeDomainBase, BTypeObject, createObj))

6.48.1 Constructor & Destructor Documentation

6.48.1.1 BObject::BObject ()

6.48.1.2 BObject::~~BObject () [virtual]

6.48.2 Member Function Documentation

6.48.2.1 BError BObject::getBinary (BDataBuf & *buf*) [virtual]

6.48.2.2 BError BObject::setBinary (BDataBuf & *buf*) [virtual]

6.48.2.3 BString BObject::getString () [virtual]

6.48.2.4 BError BObject::setString (BString *str*) [virtual]

6.48.2.5 BMemberList BObject::getMemberList () [virtual]

6.48.2.6 BError BObject::addMember (BString *name*, BObject * *object*) [virtual]

6.48.2.7 void BObject::printIt () [virtual]

6.48.2.8 BType & BObject::getType () [virtual]

6.48.2.9 BObject * BObject::createObj () [static]

6.48.3 Member Data Documentation

6.48.3.1 BType BObject::otype = btypesList.appendType(BType("BObject", BTypeDomainBase, BTypeObject, createObj)) [static]

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

- [BObject.h](#)
- [BObject.cc](#)

6.49 BPoll Class Reference

This class provides an interface for polling a number of file descriptors. It uses round robin polling.

```
#include <BPoll.h>
```

Public Types

- typedef struct pollfd [PollFd](#)

Public Member Functions

- [BPoll](#) ()
- [~BPoll](#) ()
- void [append](#) (int fd, int events=POLLIN|POLLERR|POLLHUP|POLLNVAL)
Append a file descriptor to polling list.
- void [delFd](#) (int fd)
Remove a file descriptor from polling list.
- [BError doPoll](#) (int &fd, int timeoutUs=-1)
Perform polling operation.
- int [getPollFdsNum](#) ()
- [PollFd *](#) [getPollFds](#) ()
- void [clear](#) ()

Private Member Functions

- int [nextFd](#) (int i)

Private Attributes

- int [ofdsNum](#)
The number of FD's in list.
- [PollFd *](#) [ofds](#)
The list of poll fd's.
- int [ofdsNext](#)
The next list entry for round robin polling.

6.49.1 Detailed Description

This class provides an interface for polling a number of file descriptors. It uses round robin polling.

6.49.2 Member Typedef Documentation

6.49.2.1 `typedef struct pollfd BPoll::PollFd` `[read]`

6.49.3 Constructor & Destructor Documentation

6.49.3.1 `BPoll::BPoll ()`

6.49.3.2 `BPoll::~~BPoll ()`

6.49.4 Member Function Documentation

6.49.4.1 `void BPoll::append (int fd, int events = POLLIN|POLLERR|POLLHUP|POLLNVAL)`

Append a file descriptor to polling list.

6.49.4.2 `void BPoll::delFd (int fd)`

Remove a file descriptor from polling list.

6.49.4.3 `BError BPoll::doPoll (int &fd, int timeoutUs = -1)`

Perform polling operation.

6.49.4.4 `int BPoll::getPollFdsNum ()`

6.49.4.5 `BPoll::PollFd * BPoll::getPollFds ()`

6.49.4.6 `void BPoll::clear ()`

6.49.4.7 `int BPoll::nextFd (int i)` `[private]`

6.49.5 Member Data Documentation

6.49.5.1 `int BPoll::ofdsNum` `[private]`

The number of FD's in list.

6.49.5.2 `PollFd* BPoll::ofds` `[private]`

The list of poll fd's.

6.49.5.3 `int BPoll::ofdsNext` `[private]`

The next list entry for round robin polling.

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

- [BPoll.h](#)

- [BPoll.cpp](#)

6.50 BRefData Class Reference

```
#include <BRefData.h>
```

Public Member Functions

- [BRefData](#) ()
- [BRefData](#) (int len)
- [BRefData](#) (const [BRefData](#) &refData)
- [~BRefData](#) ()
- [BRefData](#) * [copy](#) ()
Create a copy of this reference for writing, if necessary.
- [BRefData](#) * [addRef](#) ()
Increment the reference counter.
- int [deleteRef](#) ()
Decrement the reference counter.
- char * [data](#) ()
Return the raw data pointer.
- int [len](#) ()
Return the length in bytes.
- [BRefData](#) & [operator=](#) (const [BRefData](#) &refData)
- void [setLen](#) (int len)
Set the length in bytes. Note should only be used if orefCount = 1.

Private Attributes

- [BAtomicCount](#) orefCount
The reference count, how many users.
- int olen
The actual length of data in oData.
- void * odata
Pointer to the data.

6.50.1 Detailed Description

Referenced data storage. This is Thread safe to a degree. The reference counting is protected. However, [setLen\(\)](#) is not and should be protected at a higher level.

6.50.2 Constructor & Destructor Documentation

6.50.2.1 BRefData::BRefData ()

6.50.2.2 BRefData::BRefData (int *len*)

6.50.2.3 BRefData::BRefData (const BRefData & *refData*)

6.50.2.4 BRefData::~~BRefData ()

6.50.3 Member Function Documentation

6.50.3.1 BRefData * BRefData::copy ()

Create a copy of this reference for writing, if necessary.

6.50.3.2 BRefData * BRefData::addRef ()

Increment the reference counter.

6.50.3.3 int BRefData::deleteRef ()

Decrement the reference counter.

6.50.3.4 char* BRefData::data () [inline]

Return the raw data pointer.

6.50.3.5 int BRefData::len () [inline]

Return the length in bytes.

6.50.3.6 BRefData & BRefData::operator= (const BRefData & *refData*)

6.50.3.7 void BRefData::setLen (int *len*)

Set the length in bytes. Note should only be used if orefCount = 1.

6.50.4 Member Data Documentation

6.50.4.1 BAtomicCount BRefData::orefCount [private]

The reference count, how many users.

6.50.4.2 int BRefData::olen [private]

The actual length of data in oData.

6.50.4.3 void* BRefData::odata [private]

Pointer to the data.

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

- [BRefData.h](#)
- [BRefData.cpp](#)

6.51 BRtc Class Reference

Realtime clock.

```
#include <BRtc.h>
```

Public Member Functions

- [BRtc \(\)](#)
- [~BRtc \(\)](#)
- [BError init](#) (int rate)
Setup interrupt rate.
- void [wait](#) (int delayUs)
Wait specified uS.

Private Attributes

- int [ofd](#)
- int [orate](#)

6.51.1 Detailed Description

Realtime clock.

6.51.2 Constructor & Destructor Documentation

6.51.2.1 BRtc::BRtc ()

6.51.2.2 BRtc::~~BRtc ()

6.51.3 Member Function Documentation

6.51.3.1 BError BRtc::init (int *rate*)

Setup interrupt rate.

6.51.3.2 void BRtc::wait (int *delayUs*)

Wait specified uS.

6.51.4 Member Data Documentation

6.51.4.1 int BRtc::ofd [private]

6.51.4.2 int BRtc::orate [private]

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

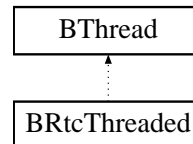
- [BRtc.h](#)
- [BRtc.cpp](#)

6.52 BRtcThreaded Class Reference

Threaded real time clock.

```
#include <BRtc.h>
```

Inheritance diagram for BRtcThreaded::



Public Member Functions

- [BRtcThreaded \(\)](#)
- [~BRtcThreaded \(\)](#)
- [BError init \(int rate\)](#)
Setup interrupt rate.
- void [wait \(int delayUs\)](#)
Wait specified uS.

Private Member Functions

- void * [function \(\)](#)

Private Attributes

- [BRtc orte](#)
- int [orate](#)
- [BCond ocond](#)

6.52.1 Detailed Description

Threaded real time clock.

6.52.2 Constructor & Destructor Documentation

6.52.2.1 BRtcThreaded::BRtcThreaded ()

6.52.2.2 BRtcThreaded::~~BRtcThreaded ()

6.52.3 Member Function Documentation

6.52.3.1 BError BRtcThreaded::init (int rate)

Setup interrupt rate.

6.52.3.2 void BRtcThreaded::wait (int *delayUs*)

Wait specified uS.

6.52.3.3 void * BRtcThreaded::function () [private, virtual]

Reimplemented from [BThread](#).

6.52.4 Member Data Documentation

6.52.4.1 BRtc BRtcThreaded::ortc [private]

6.52.4.2 int BRtcThreaded::orate [private]

6.52.4.3 BCond BRtcThreaded::ocond [private]

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

- [BRtc.h](#)
- [BRtc.cpp](#)

6.53 BRWLock Class Reference

thread read-write locks

```
#include <BRWLock.h>
```

Public Member Functions

- [BRWLock \(\)](#)
- [BRWLock \(const \[BRWLock\]\(#\) &rwlock\)](#)
- [~BRWLock \(\)](#)
- [int rdLock \(\)](#)
Set lock, wait if necessary.
- [int tryRdLock \(\)](#)
Test the lock.
- [int wrLock \(\)](#)
Set lock, wait if necessary.
- [int tryWrLock \(\)](#)
Test the lock.
- [int unlock \(\)](#)
Unlock the lock.
- [BRWLock & operator= \(const \[BRWLock\]\(#\) &rwlock\)](#)

Private Attributes

- `pthread_rwlock_t` [olock](#)

6.53.1 Detailed Description

thread read-write locks

6.53.2 Constructor & Destructor Documentation

6.53.2.1 [BRWLock::BRWLock \(\)](#)

6.53.2.2 [BRWLock::BRWLock \(const \[BRWLock\]\(#\) & *rwlock*\)](#)

6.53.2.3 [BRWLock::~~BRWLock \(\)](#)

6.53.3 Member Function Documentation

6.53.3.1 [int \[BRWLock::rdLock \\(\\)\]\(#\)](#)

Set lock, wait if necessary.

6.53.3.2 int BRWLock::tryRdLock ()

Test the lock.

6.53.3.3 int BRWLock::wrLock ()

Set lock, wait if necessary.

6.53.3.4 int BRWLock::tryWrLock ()

Test the lock.

6.53.3.5 int BRWLock::unlock ()

Unlock the lock.

6.53.3.6 BRWLock & BRWLock::operator= (const BRWLock & *rwlock*)**6.53.4 Member Data Documentation****6.53.4.1 pthread_rwlock_t BRWLock::oLock [private]**

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

- [BRWLock.h](#)
- [BRWLock.cpp](#)

6.54 BSema Class Reference

Sempahore class.

```
#include <BSema.h>
```

Public Member Functions

- [BSema](#) (int value=0)
- [BSema](#) (const [BSema](#) &sema)
- [~BSema](#) ()
- int [post](#) ()
Post condition.
- int [wait](#) ()
Wait for contition.
- int [timedWait](#) (int timeUs)
Wait for condition with timeout.
- int [tryWait](#) ()
Test for the condition.
- int [getValue](#) () const
- [BSema](#) & [operator=](#) (const [BSema](#) &sema)

Private Attributes

- sem_t [osema](#)

6.54.1 Detailed Description

Sempahore class.

6.54.2 Constructor & Destructor Documentation

6.54.2.1 [BSema::BSema](#) (int *value* = 0)

6.54.2.2 [BSema::BSema](#) (const [BSema](#) & *sema*)

6.54.2.3 [BSema::~~BSema](#) ()

6.54.3 Member Function Documentation

6.54.3.1 int [BSema::post](#) ()

Post condition.

6.54.3.2 int BSema::wait ()

Wait for contition.

6.54.3.3 int BSema::timedWait (int *timeUs*)

Wait for condition with timeout.

6.54.3.4 int BSema::tryWait ()

Test for the condition.

6.54.3.5 int BSema::getValue () const**6.54.3.6 BSema & BSema::operator= (const BSema & *sema*)****6.54.4 Member Data Documentation****6.54.4.1 sem_t BSema::osema [private]**

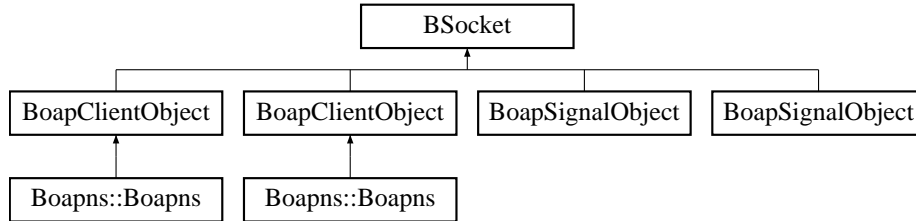
The documentation for this class was generated from the following files:

- [BSema.h](#)
- [BSema.cpp](#)

6.55 BSocket Class Reference

```
#include <BSocket.h>
```

Inheritance diagram for BSocket::



Public Types

- enum [NType](#) { [STREAM](#), [DGRAM](#) }
- enum [Priority](#) { [PriorityLow](#), [PriorityNormal](#), [PriorityHigh](#) }

Public Member Functions

- [BSocket](#) ()
- [BSocket](#) (int fd)
- [BSocket](#) (NType type)
- [~BSocket](#) ()
- [BError](#) init (NType type)
- int [getFd](#) ()
- [BError](#) bind (const [BSocketAddress](#) &add)
- [BError](#) connect (const [BSocketAddress](#) &add)
- [BError](#) shutdown (int how)
- [BError](#) close ()
- [BError](#) listen (int backlog=5)
- [BError](#) accept (int &fd)
- [BError](#) accept (int &fd, [BSocketAddress](#) &address)
- [BError](#) send (const void *buf, BSize nbytes, BSize &nbytesSent, int flags=0)
- [BError](#) sendTo (const [BSocketAddress](#) &address, const void *buf, BSize nbytes, BSize &nbytesSent, int flags=0)
- [BError](#) recv (void *buf, BSize maxbytes, BSize &nbytesRecv, int flags=0)
- [BError](#) recvFrom ([BSocketAddress](#) &address, void *buf, BSize maxbytes, BSize &nbytesRecv, int flags=0)
- [BError](#) recvWithTimeout (void *buf, BSize maxbytes, BSize &nbytesRecv, int timeout, int flags=0)
- [BError](#) recvFromWithTimeout ([BSocketAddress](#) &address, void *buf, BSize maxbytes, BSize &nbytesRecv, int timeout, int flags=0)
- [BError](#) setSockOpt (int level, int optname, void *optval, unsigned int optlen)
- [BError](#) getSockOpt (int level, int optname, void *optval, unsigned int *optlen)
- [BError](#) setReuseAddress (int on)
- [BError](#) setBroadCast (int on)
- [BError](#) setPriority (Priority priority)
- [BError](#) getMTU (uint32_t &mtu)
- [BError](#) getAddress ([BSocketAddress](#) &address)

Private Attributes

- int `osocket`

6.55.1 Member Enumeration Documentation

6.55.1.1 enum BSocket::NType

Enumerator:

STREAM

DGRAM

6.55.1.2 enum BSocket::Priority

Enumerator:

PriorityLow

PriorityNormal

PriorityHigh

6.55.2 Constructor & Destructor Documentation

6.55.2.1 BSocket::BSocket ()

6.55.2.2 BSocket::BSocket (int *fd*)

6.55.2.3 BSocket::BSocket (NType *type*)

6.55.2.4 BSocket::~~BSocket ()

6.55.3 Member Function Documentation

6.55.3.1 BError BSocket::init (NType *type*)

6.55.3.2 int BSocket::getFd ()

6.55.3.3 BError BSocket::bind (const BSocketAddress & *add*)

6.55.3.4 BError BSocket::connect (const BSocketAddress & *add*)

6.55.3.5 BError BSocket::shutdown (int *how*)

6.55.3.6 BError BSocket::close ()

6.55.3.7 BError BSocket::listen (int *backlog* = 5)

6.55.3.8 BError BSocket::accept (int & *fd*)

6.55.3.9 BError BSocket::accept (int & *fd*, BSocketAddress & *address*)

6.55.3.10 BError BSocket::send (const void * *buf*, BSize *nbytes*, BSize & *nbytesSent*, int *flags* = 0)

6.55.3.11 BError BSocket::sendTo (const BSocketAddress & *address*, const void * *buf*, BSize *nbytes*, BSize & *nbytesSent*, int *flags* = 0)

6.55.3.12 BError BSocket::recv (void * *buf*, BSize *maxbytes*, BSize & *nbytesRecv*, int *flags* = 0)

6.55.3.13 BError BSocket::recvFrom (BSocketAddress & *address*, void * *buf*, BSize *maxbytes*, BSize & *nbytesRecv*, int *flags* = 0)

6.55.3.14 BError BSocket::recvWithTimeout (void * *buf*, BSize *maxbytes*, BSize & *nbytesRecv*, int *timeout*, int *flags* = 0)

6.55.3.15 BError BSocket::recvFromWithTimeout (BSocketAddress & *address*, void * *buf*, BSize *maxbytes*, BSize & *nbytesRecv*, int *timeout*, int *flags* = 0)

6.55.3.16 BError BSocket::setSockOpt (int *level*, int *optname*, void * *optval*, unsigned int *optlen*)

6.55.3.17 BError BSocket::getSockOpt (int *level*, int *optname*, void * *optval*, unsigned int * *optlen*)

6.55.3.18 BError BSocket::setReuseAddress (int *on*)

6.55.3.19 BError BSocket::setBroadCast (int *on*)

Generated on Wed Jun 3 13:59:47 2009 for LibBeamApi by Doxygen

6.55.3.20 BError BSocket::setPriority (Priority *priority*)

6.55.3.21 BError BSocket::getMTU (uint32_t & *mtu*)

6.55.3.22 BError BSocket::getAddress (BSocketAddress & *address*)

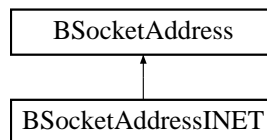
- [BSocket.h](#)
- [BSocket.cpp](#)

6.56 BSocketAddress Class Reference

Socket Address.

```
#include <BSocket.h>
```

Inheritance diagram for BSocketAddress::



Public Types

- typedef struct sockaddr [SockAddr](#)

Public Member Functions

- [BSocketAddress](#) ()
- [BSocketAddress](#) (const [BSocketAddress](#) &add)
- [BSocketAddress](#) ([SockAddr](#) *address, int len)
- [~BSocketAddress](#) ()
- [BError](#) set ([SockAddr](#) *address, int len)
- const [SockAddr](#) * [raw](#) () const
- int [len](#) () const
- [BSocketAddress](#) & [operator=](#) (const [BSocketAddress](#) &add)
- [operator](#) const [SockAddr](#) * () const
- int [operator==](#) (const [BSocketAddress](#) &add) const
- int [operator!=](#) (const [BSocketAddress](#) &add) const

Private Attributes

- int [olen](#)
- [SockAddr](#) * [oaddress](#)

6.56.1 Detailed Description

Socket Address.

6.56.2 Member Typedef Documentation

6.56.2.1 `typedef struct sockaddr BSocketAddress::SockAddr` [read]

6.56.3 Constructor & Destructor Documentation

6.56.3.1 `BSocketAddress::BSocketAddress ()`

6.56.3.2 `BSocketAddress::BSocketAddress (const BSocketAddress & add)`

6.56.3.3 `BSocketAddress::BSocketAddress (SockAddr * address, int len)`

6.56.3.4 `BSocketAddress::~~BSocketAddress ()`

6.56.4 Member Function Documentation

6.56.4.1 `BError BSocketAddress::set (SockAddr * address, int len)`

6.56.4.2 `const BSocketAddress::SockAddr * BSocketAddress::raw () const`

6.56.4.3 `int BSocketAddress::len () const`

6.56.4.4 `BSocketAddress & BSocketAddress::operator= (const BSocketAddress & add)`

6.56.4.5 `BSocketAddress::operator const SockAddr * () const` [inline]

6.56.4.6 `int BSocketAddress::operator== (const BSocketAddress & add) const`

6.56.4.7 `int BSocketAddress::operator!= (const BSocketAddress & add) const`

6.56.5 Member Data Documentation

6.56.5.1 `int BSocketAddress::olen` [private]

6.56.5.2 `SockAddr* BSocketAddress::oaddress` [private]

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

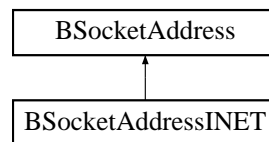
- [BSocket.h](#)
- [BSocket.cpp](#)

6.57 BSocketAddressINET Class Reference

IP aware socket address.

```
#include <BSocket.h>
```

Inheritance diagram for BSocketAddressINET::



Public Types

- typedef struct sockaddr_in [SockAddrIP](#)

Public Member Functions

- [BError](#) set ([BString](#) hostName, uint32_t port)
- [BError](#) set (uint32_t address, uint32_t port)
- [BError](#) set ([BString](#) hostName, [BString](#) service, [BString](#) type)
- void setPort (uint32_t port)
- uint32_t address ()

Returns socket ip address.

- uint32_t port ()

Returns socket port.

- [BString](#) getString ()

Return string version of address <ip>:<port>.

Static Public Member Functions

- static [BString](#) getHostName ()

Get this hosts network name.

- static [BList](#)< uint32_t > getIpAddresses ()

Get a list of all the IP addresses of this host.

- static [BList](#)< [BString](#) > getIpAddressList ()

Get a list of all the IP addresses of this host under hostname.

- static [BList](#)< [BString](#) > getIpAddressListAll ()

Get a list of all the IP addresses of this host looking at physical interfaces.

6.57.1 Detailed Description

IP aware socket address.

6.57.2 Member Typedef Documentation

6.57.2.1 `typedef struct sockaddr_in BSocketAddressINET::SockAddrIP` [read]

6.57.3 Member Function Documentation

6.57.3.1 `BError BSocketAddressINET::set (BString hostName, uint32_t port)`

6.57.3.2 `BError BSocketAddressINET::set (uint32_t address, uint32_t port)`

6.57.3.3 `BError BSocketAddressINET::set (BString hostName, BString service, BString type)`

6.57.3.4 `void BSocketAddressINET::setPort (uint32_t port)`

6.57.3.5 `uint32_t BSocketAddressINET::address ()`

Returns socket ip address.

6.57.3.6 `uint32_t BSocketAddressINET::port ()`

Returns socket port.

6.57.3.7 `BString BSocketAddressINET::getString ()`

Return string version of address <ip>:<port>.

6.57.3.8 `BString BSocketAddressINET::getHostName ()` [static]

Get this hosts network name.

6.57.3.9 `BList< uint32_t > BSocketAddressINET::getIpAddresses ()` [static]

Get a list of all the IP addresses of this host.

6.57.3.10 `BList< BString > BSocketAddressINET::getIpAddressList ()` [static]

Get a list of all the IP addresses of this host under hostname.

6.57.3.11 `BList< BString > BSocketAddressINET::getIpAddressListAll ()` [static]

Get a list of all the IP addresses of this host looking at physical interfaces.

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

- [BSocket.h](#)

- [BSocket.cpp](#)

6.58 BString Class Reference

```
#include <BString.h>
```

Public Member Functions

- [BString](#) ()
- [BString](#) (const [BString](#) &string)
- [BString](#) (const char *str)
- [BString](#) (char ch)
- [BString](#) (int v)
- [BString](#) (unsigned int v)
- [BString](#) (long v)
- [BString](#) (unsigned long long)
- [BString](#) (double v)
- [~BString](#) ()
- [BString copy](#) ()
Return an independant copy.
- int [len](#) () const
Length of string.
- const char * [retStr](#) () const
Ptr to char representation.*
- char * [retStrDup](#) () const
Ptr to newly malloc'd char.*
- int [retInt](#) () const
Return string as a int.
- unsigned int [retUInt](#) () const
Return string as a int.
- double [retDouble](#) () const
Return string as a double.
- int [compare](#) (const [BString](#) &string) const
Compare strings.
- int [compareWild](#) (const [BString](#) &string) const
Compare string to string with wildcards.
- int [compareWildExpression](#) (const [BString](#) &string) const
Compare string to space delimited patterns.
- [BString append](#) (const [BString](#) &str) const
Append a string.

- [BString](#) & [truncate](#) (int len)
Truncate to length len.
- [BString](#) & [pad](#) (int len)
Pad to length len.
- [BString](#) & [toUpper](#) ()
Convert to uppercase.
- [BString](#) & [toLower](#) ()
Convert to lowercase.
- void [removeNL](#) ()
Remove if present NL from last char.
- [BString](#) [justify](#) (int leftMargin, int width)
Justify the string to the given width.
- [BString](#) [subString](#) (int start, int len) const
Returns substring.
- int [del](#) (int start, int len)
Delete substring.
- int [insert](#) (int start, [BString](#) str)
Insert substring.
- void [printf](#) (const char *fmt,...)
Formatted print into the string.
- int [find](#) (char ch) const
Find ch in string searching forwards.
- int [find](#) ([BString](#) str) const
Find string in string searching forwards.
- int [findReverse](#) (char ch) const
Find ch in string searching backwards.
- [BList](#)< [BString](#) > [getTokenList](#) ([BString](#) separators)
Break string into tokens.
- [BString](#) [removeSeparators](#) ([BString](#) separators)
Remove any char from sepatators from string.
- [BString](#) [pullToken](#) ([BString](#) terminators)
Pull token from start of string.
- [BString](#) [pullSeparators](#) ([BString](#) separators)
Pull separators from start of string.

- [BString pullWord \(\)](#)
Pull a word out of the head of the string.
- [BString pullLine \(\)](#)
Pull a line out of the head of the string.
- [BString dirname \(\)](#)
- [BString basename \(\)](#)
- [BString extension \(\)](#)
- [BString & operator= \(const BString &string\)](#)
- [char & operator\[\] \(int pos\)](#)
- [int operator== \(const BString &s\) const](#)
- [int operator== \(const char *s\) const](#)
- [int operator> \(const BString &s\) const](#)
- [int operator> \(const char *s\) const](#)
- [int operator< \(const BString &s\) const](#)
- [int operator< \(const char *s\) const](#)
- [int operator>= \(const BString &s\) const](#)
- [int operator<= \(const BString &s\) const](#)
- [int operator!= \(const BString &s\) const](#)
- [int operator!= \(const char *s\) const](#)
- [BString operator+ \(const BString &s\) const](#)
- [BString operator+ \(const char *s\) const](#)
- [BString operator+= \(const BString &s\)](#)
- [BString operator+= \(const char *s\)](#)
- [BString operator+ \(char ch\) const](#)
- [BString operator+ \(int i\) const](#)
- [BString operator+ \(unsigned int i\) const](#)
- [BString operator+ \(unsigned long long i\) const](#)
- [operator const char * \(\) const](#)
- [BString field \(int field\) const](#)
- [char ** fields \(\)](#)

Static Public Member Functions

- static [BString convert \(char ch\)](#)
Converts char to string.
- static [BString convert \(int value\)](#)
Converts int to string.
- static [BString convert \(unsigned int value\)](#)
Converts uint to string.
- static [BString convert \(long value\)](#)
Converts long to string.
- static [BString convert \(double value\)](#)

Converts double to string.

- static [BString convert](#) (unsigned long long value)
Converts u long long to string.
- static [BString convertHex](#) (int value)
Converts int to string as hex value.
- static [BString convertHex](#) (unsigned int value)
Converts uint to string as hex value.

Protected Attributes

- [BRefData](#) * *ostr*

Private Member Functions

- void [Init](#) (const char *str)
- int [inString](#) (int pos) const
- int [isSpace](#) (char ch) const

6.58.1 Constructor & Destructor Documentation

6.58.1.1 BString::BString ()

6.58.1.2 BString::BString (const BString & *string*)

6.58.1.3 BString::BString (const char * *str*)

6.58.1.4 BString::BString (char *ch*)

6.58.1.5 BString::BString (int *v*)

6.58.1.6 BString::BString (unsigned int *v*)

6.58.1.7 BString::BString (long *v*)

6.58.1.8 BString::BString (unsigned long long *value*)

6.58.1.9 BString::BString (double *v*)

6.58.1.10 BString::~~BString ()

6.58.2 Member Function Documentation

6.58.2.1 BString BString::convert (char *ch*) [static]

Converts char to string.

6.58.2.2 BString BString::convert (int *value*) [static]

Converts int to string.

6.58.2.3 BString BString::convert (unsigned int *value*) [static]

Converts uint to string.

6.58.2.4 BString BString::convert (long *value*) [static]

Converts long to string.

6.58.2.5 BString BString::convert (double *value*) [static]

Converts double to string.

6.58.2.6 BString BString::convert (unsigned long long *value*) [static]

Converts u long long to string.

6.58.2.7 BString BString::convertHex (int *value*) [static]

Converts int to string as hex value.

6.58.2.8 BString BString::convertHex (unsigned int *value*) [static]

Converts uint to string as hex value.

6.58.2.9 BString BString::copy ()

Return an independant copy.

6.58.2.10 int BString::len () const

Length of string.

6.58.2.11 const char * BString::retStr () const

Ptr to char* representation.

6.58.2.12 char * BString::retStrDup () const

Ptr to newly malloc'd char*.

6.58.2.13 int BString::retInt () const

Return string as a int.

6.58.2.14 unsigned int BString::retUInt () const

Return string as a int.

6.58.2.15 double BString::retDouble () const

Return string as a double.

6.58.2.16 int BString::compare (const BString & *string*) const

Compare strings.

6.58.2.17 int BString::compareWild (const BString & *string*) const

Compare string to string with wildcards.

6.58.2.18 int BString::compareWildExpression (const BString & *string*) const

Compare string to space delimited patterns.

6.58.2.19 BString BString::append (const BString & *str*) const

Append a string.

6.58.2.20 BString & BString::truncate (int *len*)

Truncate to length len.

6.58.2.21 BString & BString::pad (int *len*)

Pad to length len.

6.58.2.22 BString & BString::toUpper ()

Convert to uppercase.

6.58.2.23 BString & BString::toLower ()

Convert to lowercase.

6.58.2.24 void BString::removeNL ()

Remove if present NL from last char.

6.58.2.25 BString BString::justify (int *leftMargin*, int *width*)

Justify the string to the given width.

6.58.2.26 BString BString::subString (int *start*, int *len*) const

Returns substring.

6.58.2.27 int BString::del (int *start*, int *len*)

Delete substring.

6.58.2.28 int BString::insert (int *start*, BString *str*)

Insert substring.

6.58.2.29 void BString::printf (const char **fmt*, ...)

Formatted print into the string.

6.58.2.30 int BString::find (char *ch*) const

Find ch in string searching forwards.

6.58.2.31 int BString::find (BString *str*) const

Find string in string searching forwards.

6.58.2.32 int BString::findReverse (char *ch*) const

Find ch in string searching backwards.

6.58.2.33 BList< BString > BString::getTokenList (BString *separators*)

Break string into tokens.

6.58.2.34 BString BString::removeSeparators (BString *separators*)

Remove any char from sepatators from string.

6.58.2.35 BString BString::pullToken (BString *terminators*)

Pull token from start of string.

6.58.2.36 BString BString::pullSeparators (BString *separators*)

Pull separators from start of string.

6.58.2.37 BString BString::pullWord ()

Pull a word out of the head of the string.

6.58.2.38 BString BString::pullLine ()

Pull a line out of the head of the string.

6.58.2.39 BString BString::dirname ()**6.58.2.40 BString BString::basename ()****6.58.2.41 BString BString::extension ()****6.58.2.42 BString & BString::operator= (const BString & *string*)****6.58.2.43]**

char & BString::operator[] (int *pos*)

- 6.58.2.44 `int BString::operator==(const BString & s) const` [inline]
- 6.58.2.45 `int BString::operator==(const char * s) const` [inline]
- 6.58.2.46 `int BString::operator>(const BString & s) const` [inline]
- 6.58.2.47 `int BString::operator>(const char * s) const` [inline]
- 6.58.2.48 `int BString::operator<(const BString & s) const` [inline]
- 6.58.2.49 `int BString::operator<(const char * s) const` [inline]
- 6.58.2.50 `int BString::operator>=(const BString & s) const` [inline]
- 6.58.2.51 `int BString::operator<=(const BString & s) const` [inline]
- 6.58.2.52 `int BString::operator!=(const BString & s) const` [inline]
- 6.58.2.53 `int BString::operator!=(const char * s) const` [inline]
- 6.58.2.54 `BString BString::operator+(const BString & s) const` [inline]
- 6.58.2.55 `BString BString::operator+(const char * s) const` [inline]
- 6.58.2.56 `BString BString::operator+=(const BString & s)` [inline]
- 6.58.2.57 `BString BString::operator+=(const char * s)` [inline]
- 6.58.2.58 `BString BString::operator+(char ch) const` [inline]
- 6.58.2.59 `BString BString::operator+(int i) const` [inline]
- 6.58.2.60 `BString BString::operator+(unsigned int i) const` [inline]
- 6.58.2.61 `BString BString::operator+(unsigned long long i) const` [inline]
- 6.58.2.62 `BString::operator const char * () const` [inline]
- 6.58.2.63 `BString BString::field(int field) const`
- 6.58.2.64 `char ** BString::fields()`
- 6.58.2.65 `void BString::Init(const char * str)` [private]
- 6.58.2.66 `int BString::inString(int pos) const` [private]
- 6.58.2.67 `int BString::isSpace(char ch) const` [private]

6.58.3 Member Data Documentation

- 6.58.3.1 `BRefData* BString::ostr` [protected]

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

- [BString.h](#)
- [BString.cpp](#)

6.59 BStringLocked Class Reference

```
#include <BStringLocked.h>
```

Public Member Functions

- [BStringLocked \(\)](#)
- [BStringLocked \(const BStringLocked &s\)](#)
- [BStringLocked \(const BString &s\)](#)
- [int len \(\) const](#)
Length of string.
- [operator BString \(\) const](#)
- [BStringLocked operator+ \(const BStringLocked &s\) const](#)
- [BStringLocked & operator= \(const BStringLocked &s\)](#)

Private Attributes

- [BStringMutex olock](#)
- [BString ostr](#)

6.59.1 Constructor & Destructor Documentation

6.59.1.1 [BStringLocked::BStringLocked \(\)](#) `[inline]`

6.59.1.2 [BStringLocked::BStringLocked \(const BStringLocked & s\)](#) `[inline]`

6.59.1.3 [BStringLocked::BStringLocked \(const BString & s\)](#) `[inline]`

6.59.2 Member Function Documentation

6.59.2.1 [int BStringLocked::len \(\) const](#) `[inline]`

Length of string.

6.59.2.2 [BStringLocked::operator BString \(\) const](#) `[inline]`

6.59.2.3 [BStringLocked BStringLocked::operator+ \(const BStringLocked & s\) const](#) `[inline]`

6.59.2.4 [BStringLocked& BStringLocked::operator= \(const BStringLocked & s\)](#) `[inline]`

6.59.3 Member Data Documentation

6.59.3.1 [BStringMutex BStringLocked::olock](#) `[mutable, private]`

6.59.3.2 [BString BStringLocked::ostr](#) `[private]`

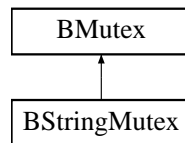
The documentation for this class was generated from the following file:

- [BStringLocked.h](#)

6.60 BStringMutex Class Reference

```
#include <BStringLocked.h>
```

Inheritance diagram for BStringMutex::



Public Member Functions

- [BStringMutex \(\)](#)

6.60.1 Constructor & Destructor Documentation

6.60.1.1 BStringMutex::BStringMutex () [inline]

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

- [BStringLocked.h](#)

6.61 BTable Class Reference

```
#include <BTable.h>
```

Public Member Functions

- [BTable](#) ()
- [~BTable](#) ()
- void [setTitle](#) (BArray< BString > title)
- void [addRow](#) (BArray< BString > data)
- void [print](#) ()

Private Member Functions

- void [calculateWidths](#) ()
- void [printLine](#) (BArray< BString > line, int comment=0)

Private Attributes

- BArray< BString > [otitle](#)
- BList< BArray< BString > > [odata](#)
- BArray< int > [ocolumnWidths](#)

6.61.1 Constructor & Destructor Documentation

6.61.1.1 [BTable::BTable](#) ()

6.61.1.2 [BTable::~~BTable](#) ()

6.61.2 Member Function Documentation

6.61.2.1 void [BTable::setTitle](#) (BArray< BString > *title*)

6.61.2.2 void [BTable::addRow](#) (BArray< BString > *data*)

6.61.2.3 void [BTable::print](#) ()

6.61.2.4 void [BTable::calculateWidths](#) () [private]

6.61.2.5 void [BTable::printLine](#) (BArray< BString > *line*, int *comment* = 0) [private]

6.61.3 Member Data Documentation

6.61.3.1 BArray<BString> [BTable::otitle](#) [private]

6.61.3.2 BList<BArray<BString> > [BTable::odata](#) [private]

6.61.3.3 BArray<int> [BTable::ocolumnWidths](#) [private]

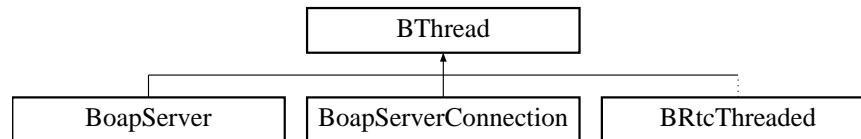
The documentation for this class was generated from the following files:

- [BTable.h](#)
- [BTable.cpp](#)

6.62 BThread Class Reference

```
#include <BThread.h>
```

Inheritance diagram for BThread::



Public Member Functions

- [BThread](#) ()
- virtual [~BThread](#) ()
- int [setInitPriority](#) (int policy, int priority)
- int [setInitStackSize](#) (size_t stackSize)
- int [start](#) ()
- void * [result](#) ()
- int [running](#) ()
- int [setPriority](#) (int policy, int priority)
- int [cancel](#) ()
- void * [waitForCompletion](#) ()
- pthread_t [getThread](#) ()
- virtual void * [function](#) ()

Static Private Member Functions

- static void * [startFunc](#) (void *)

Private Attributes

- pthread_t [othread](#)
- size_t [ostackSize](#)
- int [opolicy](#)
- int [opriority](#)
- int [orunning](#)
- void * [oresult](#)

6.62.1 Constructor & Destructor Documentation

6.62.1.1 `BThread::BThread ()`

6.62.1.2 `BThread::~~BThread ()` [virtual]

6.62.2 Member Function Documentation

6.62.2.1 `int BThread::setInitPriority (int policy, int priority)`

6.62.2.2 `int BThread::setInitStackSize (size_t stackSize)`

6.62.2.3 `int BThread::start ()`

6.62.2.4 `void * BThread::result ()`

6.62.2.5 `int BThread::running ()`

6.62.2.6 `int BThread::setPriority (int policy, int priority)`

6.62.2.7 `int BThread::cancel ()`

6.62.2.8 `void * BThread::waitForCompletion ()`

6.62.2.9 `pthread_t BThread::getThread ()`

6.62.2.10 `void * BThread::function ()` [virtual]

Reimplemented in [BoapServerConnection](#), [BoapServer](#), and [BRtcThreaded](#).

6.62.2.11 `void * BThread::startFunc (void * arg)` [static, private]

6.62.3 Member Data Documentation

6.62.3.1 `pthread_t BThread::othread` [private]

6.62.3.2 `size_t BThread::ostackSize` [private]

6.62.3.3 `int BThread::opolicy` [private]

6.62.3.4 `int BThread::opriority` [private]

6.62.3.5 `int BThread::orunning` [private]

6.62.3.6 `void* BThread::oresult` [private]

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

- [BThread.h](#)
- [BThread.cpp](#)

6.63 BTimer Class Reference

Stopwatch style timer.

```
#include <BTimer.h>
```

Public Member Functions

- [BTimer](#) ()
- [~BTimer](#) ()
- void [start](#) ()
Start timer.
- void [stop](#) ()
Stop timer.
- void [clear](#) ()
Clear timer.
- double [getElapsedTime](#) ()
Returns the elapsed time from the last start.
- void [add](#) ([BTimer](#) &timer)
Add two timers.
- double [average](#) ()
Average time is duration between [start\(\)](#) and [stop\(\)](#) / number of stops.
- double [peak](#) ()
Peak time.

Static Private Member Functions

- static double [getTime](#) ()

Private Attributes

- [BMutex](#) olock
- unsigned int [onum](#)
- double [ostartTime](#)
- double [oendTime](#)
- double [oaverage](#)
- double [opeak](#)

6.63.1 Detailed Description

Stopwatch style timer.

6.63.2 Constructor & Destructor Documentation

6.63.2.1 BTimer::BTimer ()

6.63.2.2 BTimer::~~BTimer ()

6.63.3 Member Function Documentation

6.63.3.1 void BTimer::start ()

Start timer.

6.63.3.2 void BTimer::stop ()

Stop timer.

6.63.3.3 void BTimer::clear ()

Clear timer.

6.63.3.4 double BTimer::getElapsedTime ()

Returns the elapsed time from the last start.

6.63.3.5 void BTimer::add (BTimer & *timer*)

Add two timers.

6.63.3.6 double BTimer::average ()

Average time is duration between [start\(\)](#) and [stop\(\)](#) / number of stops.

6.63.3.7 double BTimer::peak ()

Peak time.

6.63.3.8 `double BTimer::getTime ()` [static, private]

6.63.4 Member Data Documentation

6.63.4.1 `BMutex BTimer::olock` [private]

6.63.4.2 `unsigned int BTimer::onum` [private]

6.63.4.3 `double BTimer::ostartTime` [private]

6.63.4.4 `double BTimer::oendTime` [private]

6.63.4.5 `double BTimer::oaverage` [private]

6.63.4.6 `double BTimer::opeak` [private]

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

- [BTimer.h](#)
- [BTimer.cpp](#)

6.64 BTimeStamp Class Reference

```
#include <BTimeStamp.h>
```

Public Member Functions

- [BTimeStamp](#) ()
- [BTimeStamp](#) (int year, int month=1, int day=1, int hour=0, int minute=0, int second=0, int microsecond=0)
- [BTimeStamp](#) (BString str)
- [~BTimeStamp](#) ()
- void [clear](#) ()
Clear the date/time.
- void [setFirst](#) ()
Set the first date available.
- void [setLast](#) ()
Set the last date available.
- void [set](#) (time_t time, int microSeconds)
Set time using Unix time (seconds from 1970-01-01).
- void [set](#) (int year=0, int month=1, int day=1, int hour=0, int minute=0, int second=0, int microsecond=0)
- void [set](#) (const [BTimeStampMs](#) &timeStamp)
Set the timeStamp to given MS time stamp.
- void [setYDay](#) (int year=0, int yday=0, int hour=0, int minute=0, int second=0, int microsecond=0)
- void [setTime](#) (int hour=0, int minute=0, int second=0, int microsecond=0)
- void [setNow](#) ()
Set the timeStamp to now.
- int [year](#) ()
- int [yday](#) ()
- int [month](#) ()
- int [day](#) ()
- int [hour](#) ()
- int [minute](#) ()
- int [second](#) ()
- int [microSecond](#) ()
- void [getDate](#) (int &year, int &mon, int &day)
- [BString](#) [getString](#) (BString separator="T")
Get the time as an ISO date/time string.
- [BError](#) [setString](#) (BString dateTime)
Set the time from an ISO date/time.
- [BString](#) [getStringNoMs](#) (BString separator="T")

Get the time as an ISO date/time string without microseconds.

- [BString getStringFormatted](#) ([BString](#) format)
Gets the time in a string form as per the format. Format syntax as per strftime().
- void [addMilliseconds](#) (int milliseconds)
Add the given number of milli seconds. This should be less than a year.
- void [addMicroSeconds](#) (int microSeconds)
Add the given number of micro seconds. This should be less than a year.
- void [addSeconds](#) (int seconds)
Add the given number of seconds. This should be less than a year.
- uint32_t [getYearSeconds](#) ()
Get number of seconds within the year.
- uint64_t [getYearMicroSeconds](#) ()
Get number of micro seconds within the year.
- int [isSet](#) ()
- int [compare](#) (const [BTimeStamp](#) &timeStamp)
Compare two dates.
- [operator BString](#) ()
- [BTimeStamp](#) & [operator=](#) (const [BTimeStampMs](#) &timeStamp)
- int [operator==](#) (const [BTimeStamp](#) &timeStamp)
- int [operator!=](#) (const [BTimeStamp](#) &timeStamp)
- int [operator>](#) (const [BTimeStamp](#) &timeStamp)
- int [operator>=](#) (const [BTimeStamp](#) &timeStamp)
- int [operator<](#) (const [BTimeStamp](#) &timeStamp)
- int [operator<=](#) (const [BTimeStamp](#) &timeStamp)

Static Public Member Functions

- static int [isLeap](#) (int year)
- static [BUInt64](#) [difference](#) ([BTimeStamp](#) t2, [BTimeStamp](#) t1)

Public Attributes

- uint16_t [oyear](#)
Year (0 .. 65535).
- uint16_t [oyday](#)
Day in year (0 .. 365).
- uint8_t [ohour](#)
Hour (0 .. 23).

- uint8_t [ominute](#)
Minute (0 .. 59).
- uint8_t [osecond](#)
Second (0 .. 59).
- uint8_t [ospare](#)
Padding.
- uint32_t [omicroSecond](#)
MicroSecond (0 .. 999999).

6.64.1 Constructor & Destructor Documentation

6.64.1.1 BTimeStamp::BTimeStamp ()

6.64.1.2 BTimeStamp::BTimeStamp (int *year*, int *month* = 1, int *day* = 1, int *hour* = 0, int *minute* = 0, int *second* = 0, int *microsecond* = 0)

6.64.1.3 BTimeStamp::BTimeStamp (BString *str*)

6.64.1.4 BTimeStamp::~~BTimeStamp ()

6.64.2 Member Function Documentation

6.64.2.1 void BTimeStamp::clear ()

Clear the date/time.

6.64.2.2 void BTimeStamp::setFirst ()

Set the first date available.

6.64.2.3 void BTimeStamp::setLast ()

Set the last date available.

6.64.2.4 void BTimeStamp::set (time_t *time*, int *microSeconds*)

Set time using Unix time (seconds from 1970-01-01).

6.64.2.5 void BTimeStamp::set (int *year* = 0, int *month* = 1, int *day* = 1, int *hour* = 0, int *minute* = 0, int *second* = 0, int *microsecond* = 0)

6.64.2.6 void BTimeStamp::set (const BTimeStampMs & *timeStamp*)

Set the timeStamp to given MS time stamp.

6.64.2.7 void BTimeStamp::setYDay (int *year* = 0, int *yday* = 0, int *hour* = 0, int *minute* = 0, int *second* = 0, int *microsecond* = 0)

6.64.2.8 void BTimeStamp::setTime (int *hour* = 0, int *minute* = 0, int *second* = 0, int *microsecond* = 0)

6.64.2.9 void BTimeStamp::setNow ()

Set the timeStamp to now.

6.64.2.10 int BTimeStamp::year ()

6.64.2.11 int BTimeStamp::yday ()

6.64.2.12 int BTimeStamp::month ()

6.64.2.13 int BTimeStamp::day ()

6.64.2.14 int BTimeStamp::hour ()

6.64.2.15 int BTimeStamp::minute ()

6.64.2.16 int BTimeStamp::second ()

6.64.2.17 int BTimeStamp::microSecond ()

6.64.2.18 void BTimeStamp::getDate (int & *year*, int & *mon*, int & *day*)

6.64.2.19 BString BTimeStamp::getString (BString *separator* = "T")

Get the time as an ISO date/time string.

6.64.2.20 BError BTimeStamp::setString (BString *dateTime*)

Set the time from an ISO date/time.

6.64.2.21 BString BTimeStamp::getStringNoMs (BString *separator* = "T")

Get the time as an ISO date/time string without microseconds.

6.64.2.22 BString BTimeStamp::getStringFormatted (BString *format*)

Gets the time in a string form as per the format. Format syntax as per strftime().

6.64.2.23 void BTimeStamp::addMilliseconds (int *milliSeconds*)

Add the given number of milli seconds. This should be less than a year.

6.64.2.24 void BTimeStamp::addMicroSeconds (int *microSeconds*)

Add the given number of micro seconds. This should be less than a year.

6.64.2.25 void BTimeStamp::addSeconds (int *seconds*)

Add the given number of seconds. This should be less than a year.

6.64.2.26 uint32_t BTimeStamp::getYearSeconds ()

Get number of seconds within the year.

6.64.2.27 uint64_t BTimeStamp::getYearMicroSeconds ()

Get number of micro seconds within the year.

6.64.2.28 int BTimeStamp::isSet () [inline]**6.64.2.29 int BTimeStamp::compare (const BTimeStamp & *timeStamp*)**

Compare two dates.

6.64.2.30 BTimeStamp::operator BString () [inline]**6.64.2.31 BTimeStamp& BTimeStamp::operator= (const BTimeStampMs & *timeStamp*) [inline]****6.64.2.32 int BTimeStamp::operator== (const BTimeStamp & *timeStamp*) [inline]****6.64.2.33 int BTimeStamp::operator!= (const BTimeStamp & *timeStamp*) [inline]****6.64.2.34 int BTimeStamp::operator> (const BTimeStamp & *timeStamp*) [inline]****6.64.2.35 int BTimeStamp::operator>= (const BTimeStamp & *timeStamp*) [inline]****6.64.2.36 int BTimeStamp::operator< (const BTimeStamp & *timeStamp*) [inline]****6.64.2.37 int BTimeStamp::operator<= (const BTimeStamp & *timeStamp*) [inline]****6.64.2.38 int BTimeStamp::isLeap (int *year*) [static]****6.64.2.39 BUInt64 BTimeStamp::difference (BTimeStamp *t2*, BTimeStamp *t1*) [static]****6.64.3 Member Data Documentation****6.64.3.1 uint16_t BTimeStamp::oyear**

Year (0 .. 65535).

6.64.3.2 uint16_t BTimeStamp::oyday

Day in year (0 .. 365).

6.64.3.3 uint8_t BTimeStamp::ohour

Hour (0 .. 23).

6.64.3.4 uint8_t BTimeStamp::ominate

Minute (0 .. 59).

6.64.3.5 uint8_t BTimeStamp::osecond

Second (0 .. 59).

6.64.3.6 uint8_t BTimeStamp::ospare

Padding.

6.64.3.7 uint32_t BTimeStamp::omicroSecond

MicroSecond (0 .. 999999).

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

- [BTimeStamp.h](#)
- [BTimeStamp.cpp](#)

6.65 BTimeStampMs Class Reference

```
#include <BTimeStampMs.h>
```

Public Member Functions

- [BTimeStampMs](#) ([BString](#) str="")
- [~BTimeStampMs](#) ()
- void [clear](#) ()
Clear the date/time.
- void [setNow](#) ()
Set the timeStamp to now.
- [BTimeStampMs](#) & [addMilliseconds](#) (int milliseconds)
Add the given number of milli seconds. This should be less than a year.
- [BTimeStampMs](#) & [subMilliseconds](#) (int milliseconds)
Add the given number of milli seconds. This should be less than a year.
- [BTimeStampMs](#) & [addSeconds](#) (int seconds)
Add the given number of seconds. This should be less than a year.
- [BTimeStampMs](#) & [subSeconds](#) (int seconds)
Subtract the given number of seconds. This should be less than a year.
- [uint32_t](#) [getYearSeconds](#) ()
Get number of seconds within the year.
- [uint64_t](#) [getYearMilliseconds](#) ()
Get number of seconds within the year.
- [BString](#) [getString](#) ([BString](#) separator="T")
Get the time as an ISO date/time string.
- [BString](#) [getStringNoMs](#) ([BString](#) separator="T")
Get the time as an ISO date/time string with no ms.
- [BError](#) [setString](#) ([BString](#) dateTime)
Set the time from an ISO date/time.
- [BString](#) [getDurationString](#) ([BString](#) separator="T")
Get the time as an ISO date/time string but with month's and days starting from 0.
- [BString](#) [getDurationStringNoMs](#) ([BString](#) separator="T")
Get the time as an ISO date/time string but with month's and days starting from 0 with no ms.
- [BError](#) [setDurationString](#) ([BString](#) dateTime)
Set the time from an ISO date/time string but with month's and days starting from 0.

- [BString getStringRaw \(\)](#)
- void [getDate](#) (int &[year](#), int &mon, int &day)
Get the year, month and day.
- int [compare](#) (const [BTimeStampMs](#) &timeStamp)
Compare two dates.
- int [operator>](#) (const [BTimeStampMs](#) &timeStamp)
- int [operator>=](#) (const [BTimeStampMs](#) &timeStamp)
- int [operator<](#) (const [BTimeStampMs](#) &timeStamp)
- int [operator<=](#) (const [BTimeStampMs](#) &timeStamp)

Static Public Member Functions

- static int [isLeap](#) (int [year](#))
- static [BUInt64 difference](#) ([BTimeStampMs](#) t2, [BTimeStampMs](#) t1)

Public Attributes

- uint16_t [year](#)
Year (2000 .. 3000).
- uint16_t [yday](#)
Day in year (0 .. 365).
- uint16_t [hour](#)
Hour (0 .. 23).
- uint16_t [minute](#)
Minute (0 .. 59).
- uint16_t [second](#)
Second (0 .. 59).
- uint16_t [milliSecond](#)
MilliSecond (0 .. 999).
- int32_t [sampleNumber](#)
The sample number this time refers to.

6.65.1 Constructor & Destructor Documentation

6.65.1.1 BTimeStampMs::BTimeStampMs (BString *str* = " ")

6.65.1.2 BTimeStampMs::~~BTimeStampMs ()

6.65.2 Member Function Documentation

6.65.2.1 void BTimeStampMs::clear ()

Clear the date/time.

6.65.2.2 void BTimeStampMs::setNow ()

Set the timeStamp to now.

6.65.2.3 BTimeStampMs & BTimeStampMs::addMilliseconds (int *milliseconds*)

Add the given number of milli seconds. This should be less than a year.

6.65.2.4 BTimeStampMs & BTimeStampMs::subMilliseconds (int *milliseconds*)

Add the given number of milli seconds. This should be less than a year.

6.65.2.5 BTimeStampMs & BTimeStampMs::addSeconds (int *seconds*)

Add the given number of seconds. This should be less than a year.

6.65.2.6 BTimeStampMs & BTimeStampMs::subSeconds (int *seconds*)

Subtract the given number of seconds. This should be less than a year.

6.65.2.7 uint32_t BTimeStampMs::getYearSeconds ()

Get number of seconds within the year.

6.65.2.8 uint64_t BTimeStampMs::getYearMilliseconds ()

Get number of seconds within the year.

6.65.2.9 BString BTimeStampMs::getString (BString *separator* = "T")

Get the time as an ISO date/time string.

6.65.2.10 BString BTimeStampMs::getStringNoMs (BString *separator* = "T")

Get the time as an ISO date/time string with no ms.

6.65.2.11 BError BTimeStampMs::setString (BString *dateTime*)

Set the time from an ISO date/time.

6.65.2.12 BString BTimeStampMs::getDurationString (BString *separator* = "T")

Get the time as an ISO date/time string but with month's and days starting from 0.

6.65.2.13 BString BTimeStampMs::getDurationStringNoMs (BString *separator* = "T")

Get the time as an ISO date/time string but with month's and days starting from 0 with no ms.

6.65.2.14 BError BTimeStampMs::setDurationString (BString *dateTime*)

Set the time from an ISO date/time string but with month's and days starting from 0.

6.65.2.15 BString BTimeStampMs::getStringRaw ()**6.65.2.16 void BTimeStampMs::getDate (int & *year*, int & *mon*, int & *day*)**

Get the year, month and day.

6.65.2.17 int BTimeStampMs::compare (const BTimeStampMs & *timeStamp*)

Compare two dates.

6.65.2.18 int BTimeStampMs::operator> (const BTimeStampMs & *timeStamp*) [inline]**6.65.2.19 int BTimeStampMs::operator>= (const BTimeStampMs & *timeStamp*) [inline]****6.65.2.20 int BTimeStampMs::operator< (const BTimeStampMs & *timeStamp*) [inline]****6.65.2.21 int BTimeStampMs::operator<= (const BTimeStampMs & *timeStamp*) [inline]****6.65.2.22 int BTimeStampMs::isLeap (int *year*) [static]****6.65.2.23 BUInt64 BTimeStampMs::difference (BTimeStampMs *t2*, BTimeStampMs *t1*) [static]****6.65.3 Member Data Documentation****6.65.3.1 uint16_t BTimeStampMs::year**

Year (2000 .. 3000).

6.65.3.2 uint16_t BTimeStampMs::yday

Day in year (0 .. 365).

6.65.3.3 uint16_t BTimeStampMs::hour

Hour (0 .. 23).

6.65.3.4 uint16_t BTimeStampMs::minute

Minute (0 .. 59).

6.65.3.5 uint16_t BTimeStampMs::second

Second (0 .. 59).

6.65.3.6 uint16_t BTimeStampMs::milliSecond

MilliSecond (0 .. 999).

6.65.3.7 int32_t BTimeStampMs::sampleNumber

The sample number this time refers to.

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

- [BTimeStampMs.h](#)
- [BTimeStampMs.cpp](#)

6.66 BUrl Class Reference

Basic access to a Url.

```
#include <BUrl.h>
```

Public Member Functions

- [BUrl \(\)](#)
- [~BUrl \(\)](#)
- [BError readString \(BString url, BString &str\)](#)

Reads URL.

Static Private Member Functions

- static [size_t writeData](#) (void *data, [size_t](#) size, [size_t](#) elSize, void *stream)

Private Attributes

- [BString ores](#)

Static Private Attributes

- static [int oinit](#)

6.66.1 Detailed Description

Basic access to a Url.

6.66.2 Constructor & Destructor Documentation

6.66.2.1 BUrl::BUrl ()

6.66.2.2 BUrl::~~BUrl ()

6.66.3 Member Function Documentation

6.66.3.1 BError BUrl::readString (BString url, BString & str)

Reads URL.

6.66.3.2 `size_t BUrl::writeData (void * data, size_t size, size_t elSize, void * stream)` [static, private]

6.66.4 Member Data Documentation

6.66.4.1 `int BUrl::oinit` [static, private]

6.66.4.2 `BString BUrl::ores` [private]

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

- [BUrl.h](#)
- [BUrl.cpp](#)

6.67 vector Class Reference

Inherited by [BArray< BString >](#), and [BArray< int >](#).

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

- [BArray.h](#)

Chapter 7

File Documentation

7.1 BArray.h File Reference

```
#include <BTypes.h>
#include <vector>
```

Classes

- class [BArray< T >](#)

Defines

- #define [BArray_H 1](#)

7.1.1 Define Documentation

7.1.1.1 #define BArray_H 1

7.2 BAtomicCount.h File Reference

```
#include <bits/atomicity.h>
```

Classes

- class [BAtomicCount](#)
BAtomicCount class.

Defines

- #define [BAtomicCount_H](#) 1

7.2.1 Define Documentation

7.2.1.1 #define BAtomicCount_H 1

7.3 BBuffer.cpp File Reference

```
#include <stdlib.h>
#include <memory.h>
#include <BBuffer.h>
#include <byteswap.h>
```

Variables

- const int `roundSize` = 256

7.3.1 Variable Documentation

7.3.1.1 const int roundSize = 256

7.4 BBuffer.h File Reference

```
#include <BTypes.h>
#include <BString.h>
#include <BError.h>
#include <BTimeStamp.h>
```

Classes

- class [BBuffer](#)
- class [BBufferStore](#)

Defines

- #define [BBUFFER_H](#) 1

7.4.1 Define Documentation

7.4.1.1 #define BBUFFER_H 1

7.5 BCond.cpp File Reference

```
#include <BCond.h>
#include <sys/time.h>
#include <stdio.h>
```

7.6 BCond.h File Reference

```
#include <pthread.h>
```

Classes

- class [BCond](#)

Defines

- #define [BCOND_H](#) 1

7.6.1 Define Documentation

7.6.1.1 #define BCOND_H 1

7.7 BCondInt.cpp File Reference

```
#include <BCondInt.h>
#include <sys/time.h>
#include <stdio.h>
#include <errno.h>
```

7.8 BCondInt.h File Reference

```
#include <BTypes.h>
#include <pthread.h>
```

Classes

- class [BCondValue](#)
Thread conditional value.
- class [BCondInt](#)
Thread conditional integer.
- class [BCondBool](#)
Thread conditional boolean.
- class [BCondWrap](#)

Defines

- #define [BCONDINT_H](#) 1

7.8.1 Define Documentation

7.8.1.1 #define BCONDINT_H 1

7.9 BConfig.cpp File Reference

```
#include <BConfig.h>
```

7.10 BConfig.h File Reference

```
#include <BDict.h>
#include <BFile.h>
#include <BMutex.h>
```

Classes

- class [BConfig](#)

This class implements the configuration file access.

7.11 BDebug.cpp File Reference

```
#include <stdio.h>
#include <string.h>
#include <stdlib.h>
#include <unistd.h>
#include <syslog.h>
#include <sys/time.h>
#include <stdarg.h>
#include <fcntl.h>
#include <execinfo.h>
#include <BDebug.h>
#include <errno.h>
#include <linux/unistd.h>
```

Defines

- #define [BTRACE_SIZE](#) 100

Functions

- void [hd8](#) (void *data, int n)
- void [hda8](#) (void *data, int n)
- void [hd32](#) (void *data, int n)
- void [hda32](#) (void *data, int n)
- double [getTime](#) ()
- void [setDebug](#) (int d)
- void [tprintf](#) (int log, const char *fmt,...)
- pid_t [gettid](#) ()

Variables

- int [bdebug](#)
- const unsigned int [STRBUF_SIZE](#) = (64 * 1024)

7.11.1 Define Documentation

7.11.1.1 `#define BTRACE_SIZE 100`

7.11.2 Function Documentation

7.11.2.1 `pid_t gettid ()`

7.11.2.2 `double getTime ()`

7.11.2.3 `void hd32 (void * data, int n)`

7.11.2.4 `void hd8 (void * data, int n)`

7.11.2.5 `void hda32 (void * data, int n)`

7.11.2.6 `void hda8 (void * data, int n)`

7.11.2.7 `void setDebug (int d)`

7.11.2.8 `void tprintf (int log, const char * fmt, ...)`

7.11.3 Variable Documentation

7.11.3.1 `int bdebug`

7.11.3.2 `const unsigned int STRBUF_SIZE = (64 * 1024)`

7.12 BDebug.h File Reference

```
#include <stdio.h>
#include <syslog.h>
#include <time.h>
```

Classes

- class [BDebugBacktrace](#)

Defines

- #define [BDebug_STD](#) 0x000001
- #define [dprintf](#)(level, fmt, a...)
General debug functions.
- #define [nprintf](#)(fmt, a...) syslog(LOG_NOTICE, fmt, ##a)
Warnings and errors logging.
- #define [wprintf](#)(fmt, a...) syslog(LOG_WARNING, fmt, ##a)
- #define [eprintf](#)(fmt, a...) syslog(LOG_ERR, fmt, ##a)

Functions

- void [hd8](#) (void *data, int n)
- void [hda8](#) (void *data, int n)
- void [hd32](#) (void *data, int n)
- void [hds32](#) (void *data, int n)
- double [getTime](#) ()
- void [setDebug](#) (int debug)
- void [tprintf](#) (int log, const char *fmt,...)
- pid_t [gettid](#) ()

Variables

- int [bdebug](#)

7.12.1 Define Documentation

7.12.1.1 #define BDebug_STD 0x000001

7.12.1.2 #define dprintf(level, fmt, a...)

General debug functions.

7.12.1.3 `#define eprintf(fmt, a...) syslog(LOG_ERR, fmt, ##a)`

7.12.1.4 `#define nprintf(fmt, a...) syslog(LOG_NOTICE, fmt, ##a)`

Warnings and errors logging.

7.12.1.5 `#define wprintf(fmt, a...) syslog(LOG_WARNING, fmt, ##a)`

7.12.2 Function Documentation

7.12.2.1 `pid_t gettid ()`

7.12.2.2 `double getTime ()`

7.12.2.3 `void hd32 (void * data, int n)`

7.12.2.4 `void hd8 (void * data, int n)`

7.12.2.5 `void hda8 (void * data, int n)`

7.12.2.6 `void hds32 (void * data, int n)`

7.12.2.7 `void setDebug (int debug)`

7.12.2.8 `void tprintf (int log, const char * fmt, ...)`

7.12.3 Variable Documentation

7.12.3.1 `int bdebug`

7.13 BDict.cpp File Reference

```
#include <BDict.h>
```

Functions

- void [toBString](#) ([BDictString](#) &*v*, [BString](#) &*s*)
- void [fromBString](#) ([BString](#) &*str*, [BDictString](#) &*v*)

7.13.1 Function Documentation

7.13.1.1 void [fromBString](#) ([BString](#) & *str*, [BDictString](#) & *v*)

7.13.1.2 void [toBString](#) ([BDictString](#) & *v*, [BString](#) & *s*)

7.14 BDict.h File Reference

```
#include <BNameValue.h>
```

Classes

- class [BDictItem< Type >](#)
Template based Dictionary class.
- class [BDict< Type >](#)

Defines

- #define [BDict_H](#) 1

Typedefs

- typedef [BDict< BString >](#) [BDictString](#)

Functions

- void [toBString](#) ([BDictString](#) &v, [BString](#) &s)
- void [fromBString](#) ([BString](#) &s, [BDictString](#) &v)

7.14.1 Define Documentation

7.14.1.1 #define BDict_H 1

7.14.2 Typedef Documentation

7.14.2.1 typedef BDict<BString> BDictString

7.14.3 Function Documentation

7.14.3.1 void fromBString (BString & s, BDictString & v)

7.14.3.2 void toBString (BDictString & v, BString & s)

7.15 BDictMap.h File Reference

```
#include <BString.h>
#include <map>
```

Classes

- class [BDictMap< Value >](#)

Defines

- #define [BDictMap_H 1](#)

Typedefs

- typedef [BDictMap< BString > BDictMapString](#)

7.15.1 Define Documentation

7.15.1.1 #define BDictMap_H 1

7.15.2 Typedef Documentation

7.15.2.1 typedef BDictMap<BString> BDictMapString

7.16 BDir.cpp File Reference

```
#include <BDir.h>
#include <dirent.h>
#include <stdlib.h>
#include <errno.h>
#include <string.h>
```

Functions

- static int [wild](#) (const dirent *e)

Variables

- static [BString wildString](#)

7.16.1 Function Documentation

7.16.1.1 static int [wild](#) (const dirent *e) [static]

7.16.2 Variable Documentation

7.16.2.1 [BString wildString](#) [static]

7.17 BDir.h File Reference

```
#include <BList.h>
#include <BString.h>
#include <BError.h>
#include <sys/stat.h>
```

Classes

- class [BDir](#)
File system directory class.

Defines

- #define [BDIR_H](#) 1

7.17.1 Define Documentation

7.17.1.1 #define BDIR_H 1

7.18 BEntry.cpp File Reference

```
#include <ctype.h>
#include <stdio.h>
#include <string.h>
#include <unistd.h>
#include <fcntl.h>
#include <errno.h>
#include <BEntry.h>
```

7.19 BEntry.h File Reference

```
#include <BList.h>
#include <BString.h>
```

Classes

- class [BEntry](#)
Manipulate a name value pair.
- class [BEntryList](#)
List of Entries. Where an entry is a name value pair.
- class [BEntryFile](#)
File of Entries.

7.20 BError.cpp File Reference

```
#include <BError.h>
```

7.21 BError.h File Reference

```
#include <BString.h>
```

Classes

- class [BError](#)
Error return class.

Defines

- #define [BERROR_H](#) 1

7.21.1 Define Documentation

7.21.1.1 #define BERROR_H 1

7.22 BEvent.cpp File Reference

```
#include <stdlib.h>
#include <unistd.h>
#include <errno.h>
#include <BEvent.h>
#include <BPoll.h>
```


7.23 BEvent.h File Reference

```
#include <stdint.h>
#include <BError.h>
```

Classes

- class [BEvent](#)

This class provides a base class for all event objects that can be sent over the events interface.

- class [BEventError](#)
- class [BEventPipe](#)

This class provides a base interface for sending events via a pipe. This allows threads to send events that can be picked up by the poll system call.

- class [BEventInt](#)

This class provides an interface for sending simple integer events via a file descriptor. This allows threads to send events that can be picked up by the poll system call.

Defines

- #define [BEvent_H](#) 1

Enumerations

- enum [BEventType](#) { [BEventTypeNone](#), [BEventTypeInt](#), [BEventTypeError](#) }

7.23.1 Define Documentation

7.23.1.1 #define BEvent_H 1

7.23.2 Enumeration Type Documentation

7.23.2.1 enum BEventType

Enumerator:

BEventTypeNone

BEventTypeInt

BEventTypeError

7.24 BFifo.cpp File Reference

```
#include <BFifo.h>
#include <fcntl.h>
#include <errno.h>
#include <sys/mman.h>
```

Defines

- #define [DEBUG](#) 0
- #define [dprintf](#)(fmt, a...)

7.24.1 Define Documentation

7.24.1.1 #define [DEBUG](#) 0

7.24.1.2 #define [dprintf](#)(fmt, a...)

7.25 BFifo.h File Reference

```
#include <stdint.h>
#include <BError.h>
#include <BCondInt.h>
#include <BMutex.h>
#include <BFifo.inc>
```

Classes

- class [BFifoPos](#)
This class implements a pointer into the Fifo's circular buffer.
- class [BFifo< Type >](#)
This class implements a thread safe FIFO buffer.

Defines

- #define [BFIFO_H](#) 1

7.25.1 Define Documentation

7.25.1.1 #define BFIFO_H 1

7.26 BFifo.inc File Reference

7.27 BFile.cpp File Reference

```
#include <stdarg.h>
#include <BFile.h>
#include <sys/stat.h>
#include <string.h>
#include <errno.h>
```

Defines

- #define [STRBUF](#) 10240

7.27.1 Define Documentation

7.27.1.1 #define STRBUF 10240

7.28 BFile.h File Reference

```
#include <stdio.h>
#include <BTypes.h>
#include <BString.h>
#include <BError.h>
```

Classes

- class [BFile](#)
File operations class.

Defines

- #define [BFILE_H](#) 1

7.28.1 Define Documentation

7.28.1.1 #define BFILE_H 1

7.29 BList.h File Reference

```
#include <BList_func.h>
```

Classes

- class [BNode](#)
- class [BIter](#)
Iterator for [BList](#).
- class [BList< T >](#)
Template based list class.
- class [BList< T >::Node](#)

Defines

- #define [BLIST_H](#) 1
- #define [BListLoop](#)(list, i) for([BIter](#) i = list.begin(); !list.isEnd(i); list.next(i))

7.29.1 Define Documentation

7.29.1.1 #define [BLIST_H](#) 1

7.29.1.2 #define [BListLoop](#)(list, i) for([BIter](#) i = list.begin(); !list.isEnd(i); list.next(i))

7.30 BList_func.h File Reference

```
#include <stdlib.h>  
#include <stdio.h>  
#include <memory.h>
```


7.31 BMutex.cpp File Reference

```
#include <BMutex.h>
```

Defines

- #define [MDEBUG](#) 0

7.31.1 Define Documentation

7.31.1.1 #define MDEBUG 0

7.32 BMutex.h File Reference

```
#include <pthread.h>
```

Classes

- class [BMutex](#)
Mutex class.
- class [BMutexLock](#)

Defines

- #define [BMUTEX_H](#) 1

7.32.1 Define Documentation

7.32.1.1 #define BMUTEX_H 1

7.33 BMySQL.cpp File Reference

```
#include <stdlib.h>  
#include <string.h>  
#include <BMySQL.h>
```

7.34 BMySQL.h File Reference

```
#include <BTypes.h>
#include <BError.h>
#include <BDict.h>
#include <BMutex.h>
#include <mysql/mysql.h>
```

Classes

- class [BMySQL](#)

Defines

- #define [BMySQL_H](#) 1

7.34.1 Define Documentation

7.34.1.1 #define BMySQL_H 1

7.35 BNameValue.h File Reference

```
#include <BList.h>
#include <BString.h>
```

Classes

- class [BNameValue< T >](#)
- class [BNameValueList< T >](#)

Defines

- `#define` [BNAMEVALUE_H](#) 1

7.35.1 Define Documentation

7.35.1.1 `#define` BNAMEVALUE_H 1

7.36 Boap.cpp File Reference

```
#include <stdlib.h>
#include <stdio.h>
#include <errno.h>
#include <unistd.h>
#include <sys/socket.h>
#include <netinet/in.h>
#include <netinet/tcp.h>
#include <Boap.h>
#include <byteswap.h>
#include <BoapnsD.h>
#include <BoapnsC.h>
```

Defines

- `#define` [DEBUG](#) 0
- `#define` [APIVERSION_TEST](#) 1
- `#define` [dprintf](#)(fmt, a...)
- `#define` [IS_BIG_ENDIAN](#) 1

Variables

- `const int` [boapPort](#) = 12000
The default BOAP connection port.

7.36.1 Define Documentation

7.36.1.1 `#define` [APIVERSION_TEST](#) 1

7.36.1.2 `#define` [DEBUG](#) 0

7.36.1.3 `#define` [dprintf](#)(fmt, a...)

7.36.1.4 `#define` [IS_BIG_ENDIAN](#) 1

7.36.2 Variable Documentation

7.36.2.1 `const int` [boapPort](#) = 12000

The default BOAP connection port.

7.37 Boap.h File Reference

```
#include <stdint.h>
#include <BTypes.h>
#include <BPoll.h>
#include <BSocket.h>
#include <BThread.h>
#include <BError.h>
#include <BEvent.h>
#include <BMutex.h>
#include <BTimeStamp.h>
#include <BBuffer.h>
```

Namespaces

- namespace [Boapns](#)

Classes

- struct [BoapPacketHead](#)
- class [BoapPacket](#)
- class [BoapClientObject](#)
- class [BoapSignalObject](#)
- class [BoapServiceEntry](#)
- class [BoapServerConnection](#)
- class [BoapServer](#)
- class [BoapFuncEntry](#)
- class [BoapServiceObject](#)

Typedefs

- typedef [BUInt32](#) [BoapService](#)
- typedef [BError](#)([BoapServiceObject](#)::* [BoapFunc](#))([BoapServerConnection](#) *conn, [BoapPacket](#) &rx, [BoapPacket](#) &tx)

Enumerations

- enum [BoapType](#) {
 [BoapTypeRpc](#), [BoapTypeRpcReply](#), [BoapTypeSignal](#), [BoapTypeRpcError](#),
 [BoapTypeRpc](#), [BoapTypeSignal](#) }
• enum [BoapPriority](#) { [BoapPriorityLow](#), [BoapPriorityNormal](#), [BoapPriorityHigh](#) }

Variables

- const [BUInt32](#) [BoapMagic](#) = 0x424F4100

7.37.1 Typedef Documentation

7.37.1.1 `typedef BError(BoapServiceObject::* BoapFunc)(BoapServerConnection *conn, BoapPacket &rx, BoapPacket &tx)`

7.37.1.2 `typedef BUInt32 BoapService`

7.37.2 Enumeration Type Documentation

7.37.2.1 `enum BoapPriority`

Enumerator:

BoapPriorityLow

BoapPriorityNormal

BoapPriorityHigh

7.37.2.2 `enum BoapType`

Enumerator:

BoapTypeRpc

BoapTypeRpcReply

BoapTypeSignal

BoapTypeRpcError

BoapTypeRpc

BoapTypeSignal

7.37.3 Variable Documentation

7.37.3.1 `const BUInt32 BoapMagic = 0x424F4100`

7.38 BoapnsC.cc File Reference

```
#include <BoapnsC.h>
```

Namespaces

- namespace [Boapns](#)

Functions

- [Boapns::Boapns](#) (BString name)
- [BError Boapns::getVersion](#) (BString &version)
- [BError Boapns::getEntryList](#) (BList< BoapEntry > &entryList)
- [BError Boapns::getEntry](#) (BString name, BoapEntry &entry)
- [BError Boapns::addEntry](#) (BoapEntry entry)
- [BError Boapns::delEntry](#) (BString name)
- [BError Boapns::getNewName](#) (BString &name)

7.39 BoapnsC.h File Reference

```
#include <stdlib.h>
#include <stdint.h>
#include <Boap.h>
#include <BString.h>
#include <BList.h>
#include <BArray.h>
#include <BoapnsD.h>
```

Namespaces

- namespace [Boapns](#)

Classes

- class [Boapns::Boapns](#)

Defines

- #define [BOAPNSC_H](#) 1

Variables

- const [BUInt32](#) [Boapns::apiVersion](#) = 0

7.39.1 Define Documentation

7.39.1.1 #define BOAPNSC_H 1

7.40 BoapnsD.cc File Reference

```
#include <BoapnsD.h>
```

Namespaces

- namespace [Boapns](#)

7.41 BoapnsD.h File Reference

```
#include <Boap.h>
#include <BObj.h>
#include <BList.h>
#include <BArray.h>
```

Namespaces

- namespace [Boapns](#)

Classes

- class [Boapns::BoapEntry](#)

Defines

- #define [BOAPNSD_H](#) 1

7.41.1 Define Documentation

7.41.1.1 #define BOAPNSD_H 1

7.42 BoapSimple.cc File Reference

```
#include <stdlib.h>
#include <stdio.h>
#include <errno.h>
#include <sys/socket.h>
#include <netinet/in.h>
#include <Boap.h>
#include <BoapnsD.h>
#include <BoapnsC.h>
```

Defines

- #define `DEBUG` 0
- #define `dprintf`(fmt, a...)

Variables

- const int `roundSize` = 256

7.42.1 Define Documentation

7.42.1.1 #define `DEBUG` 0

7.42.1.2 #define `dprintf`(fmt, a...)

7.42.2 Variable Documentation

7.42.2.1 const int `roundSize` = 256

7.43 BoapSimple.h File Reference

```
#include <stdint.h>
#include <BPoll.h>
#include <BSocket.h>
#include <BError.h>
```

Classes

- struct [BoapPacketHead](#)
- class [BoapPacket](#)
- class [BoapClientObject](#)
- class [BoapSignalObject](#)
- class [BoapServiceEntry](#)
- class [BoapServer](#)
- class [BoapFuncEntry](#)
- class [BoapServiceObject](#)

Typedefs

- typedef int8_t [Int8](#)
- typedef uint8_t [UInt8](#)
- typedef int16_t [Int16](#)
- typedef uint16_t [UInt16](#)
- typedef int32_t [Int32](#)
- typedef uint32_t [UInt32](#)
- typedef double [Double](#)
- typedef uint32_t [BoapService](#)
- typedef [BError](#)([BoapServiceObject](#)::* [BoapFunc](#))([BoapPacket](#) &rx, [BoapPacket](#) &tx)

Enumerations

- enum [BoapType](#) {
 [BoapTypeRpc](#), [BoapTypeRpcReply](#), [BoapTypeSignal](#), [BoapTypeRpcError](#),
 [BoapTypeRpc](#), [BoapTypeSignal](#) }

7.43.1 Typedef Documentation

7.43.1.1 `typedef BError(BoapServiceObject::* BoapFunc)(BoapPacket &rx, BoapPacket &tx)`

7.43.1.2 `typedef uint32_t BoapService`

7.43.1.3 `typedef double Double`

7.43.1.4 `typedef int16_t Int16`

7.43.1.5 `typedef int32_t Int32`

7.43.1.6 `typedef int8_t Int8`

7.43.1.7 `typedef uint16_t UInt16`

7.43.1.8 `typedef uint32_t UInt32`

7.43.1.9 `typedef uint8_t UInt8`

7.43.2 Enumeration Type Documentation

7.43.2.1 `enum BoapType`

Enumerator:

BoapTypeRpc

BoapTypeRpcReply

BoapTypeSignal

BoapTypeRpcError

BoapTypeRpc

BoapTypeSignal

7.44 BObj.cpp File Reference

```
#include <BObj.h>
```


7.45 BObj.h File Reference

```
#include <BDict.h>
#include <BString.h>
#include <BError.h>
```

Classes

- class [BObj](#)

Defines

- #define [BObj_H](#) 1

7.45.1 Define Documentation

7.45.1.1 #define BObj_H 1

7.46 BObject.cc File Reference

```
#include <stdio.h>
#include <ctype.h>
#include <memory.h>
#include <string.h>
#include <BObject.h>
#include <iostream>
```

Defines

- #define [DEBUG](#) 0

7.46.1 Define Documentation

7.46.1.1 #define DEBUG 0

7.47 BObject.h File Reference

```
#include <BType.h>
#include <BDataBuf.h>
#include <BString.h>
#include <BNameValue.h>
#include <BList.h>
#include <BError.h>
```

Classes

- class [BObject](#)

Defines

- #define [BOBJECT_H](#) 1

Typedefs

- typedef [BNameValue](#)< [BObject](#) * > [BMember](#)
- typedef [BNameValueList](#)< [BObject](#) * > [BMemberList](#)

7.47.1 Define Documentation

7.47.1.1 #define BOBJECT_H 1

7.47.2 Typedef Documentation

7.47.2.1 typedef BNameValue<BObject*> BMember

7.47.2.2 typedef BNameValueList<BObject*> BMemberList

7.48 BPoll.cpp File Reference

```
#include <stdlib.h>
#include <unistd.h>
#include <errno.h>
#include <BPoll.h>
```

7.49 BPoll.h File Reference

```
#include <BList.h>
#include <BError.h>
#include <sys/poll.h>
```

Classes

- class [BPoll](#)

This class provides an interface for polling a number of file descriptors. It uses round robin polling.

Defines

- #define [BPOLL_H](#) 1

7.49.1 Define Documentation

7.49.1.1 #define BPOLL_H 1

7.50 BRefData.cpp File Reference

```
#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#include <BRefData.h>
```

Defines

- #define [DEBUG](#) 0
- #define [CHUNK](#) 16

7.50.1 Define Documentation

7.50.1.1 #define [CHUNK](#) 16

7.50.1.2 #define [DEBUG](#) 0

7.51 BRefData.h File Reference

```
#include <BAAtomicCount.h>
```

Classes

- class [BRefData](#)

Defines

- #define [BREFDATA_H](#) 1

7.51.1 Define Documentation

7.51.1.1 #define BREFDATA_H 1

7.52 BRtc.cpp File Reference

```
#include <BRtc.h>
#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#include <errno.h>
#include <unistd.h>
#include <fcntl.h>
#include <sys/ioctl.h>
#include <linux/rtc.h>
```


7.53 BRtc.h File Reference

```
#include <BError.h>
#include <BThread.h>
#include <BCond.h>
```

Classes

- class [BRtc](#)
Realtime clock.
- class [BRtcThreaded](#)
Threaded real time clock.

7.54 BRWLock.cpp File Reference

```
#include <BRWLock.h>
```

7.55 BRWLock.h File Reference

```
#include <pthread.h>
```

Classes

- class [BRWLock](#)
thread read-write locks

Defines

- #define [BRWLOCK_H](#) 1

7.55.1 Define Documentation

7.55.1.1 #define BRWLOCK_H 1

7.56 BSema.cpp File Reference

```
#include <BSema.h>
#include <errno.h>
#include <sys/time.h>
```

7.57 BSema.h File Reference

```
#include <semaphore.h>
```

Classes

- class [BSema](#)
Sempahore class.

Defines

- #define [BSEMA_H](#) 1

7.57.1 Define Documentation

7.57.1.1 #define BSEMA_H 1

7.58 BSocket.cpp File Reference

```
#include <stdlib.h>
#include <unistd.h>
#include <stdio.h>
#include <errno.h>
#include <sys/types.h>
#include <sys/socket.h>
#include <arpa/inet.h>
#include <netdb.h>
#include <net/if.h>
#include "BSocket.h"
```

Defines

- #define [IP_MTU](#) 14

7.58.1 Define Documentation

7.58.1.1 #define IP_MTU 14

7.59 BSocket.h File Reference

```
#include <BString.h>
#include <BError.h>
#include <BTypes.h>
#include <stdint.h>
#include <sys/types.h>
#include <sys/prctl.h>
```

Classes

- class [BSocketAddress](#)
Socket Address.
- class [BSocketAddressINET](#)
IP aware socket address.
- class [BSocket](#)

Defines

- #define [BSOCKET_H](#) 1

7.59.1 Define Documentation

7.59.1.1 #define BSOCKET_H 1

7.60 BString.cpp File Reference

```
#include <stdio.h>
#include <string.h>
#include <stdlib.h>
#include <stdarg.h>
#include <ctype.h>
#include "BString.h"
```

Defines

- #define [DEBUG](#) 0
- #define [STRIP](#) 0x7f
- #define [MINUS](#) '-'

Functions

- static int [gmatch](#) (const char *s, const char *p)
- std::ostream & [operator<<](#) (std::ostream &o, [BString](#) &s)
- std::istream & [operator>>](#) (std::istream &i, [BString](#) &s)
- int [bstringListinList](#) (BStringList &list, [BString](#) s)
- [BString](#) [blistToString](#) (const BStringList &list)
- BStringList [bstringToList](#) ([BString](#) str)
- BStringList [charToList](#) (char **str)
- [BString](#) [barrayToString](#) (const BStringArray &list)
- BStringArray [bstringToArray](#) ([BString](#) str)
- BStringArray [charToArray](#) (char **str)
- void [toBString](#) ([BString](#) &v, [BString](#) &s)
- void [toBString](#) (BStringList &v, [BString](#) &s)
- void [toBString](#) (BInt32 &v, [BString](#) &s)
- void [toBString](#) (BUInt32 &v, [BString](#) &s)
- void [toBString](#) (BUInt64 &v, [BString](#) &s)
- void [toBString](#) (BFloat64 &v, [BString](#) &s)
- void [fromBString](#) ([BString](#) &s, [BString](#) &v)
- void [fromBString](#) ([BString](#) &s, BStringList &v)
- void [fromBString](#) ([BString](#) &s, BInt32 &v)
- void [fromBString](#) ([BString](#) &s, BUInt32 &v)
- void [fromBString](#) ([BString](#) &s, BUInt64 &v)
- void [fromBString](#) ([BString](#) &s, BFloat64 &v)

7.60.1 Define Documentation

7.60.1.1 `#define DEBUG 0`

7.60.1.2 `#define MINUS '-'`

7.60.1.3 `#define STRIP 0x7f`

7.60.2 Function Documentation

7.60.2.1 `BString barrayToString (const BStringArray & list)`

7.60.2.2 `BString blistToString (const BStringList & list)`

7.60.2.3 `int bstringListinList (BStringList & list, BString s)`

7.60.2.4 `BStringArray bstringToArray (BString str)`

7.60.2.5 `BStringList bstringToList (BString str)`

7.60.2.6 `BStringArray charToArray (char ** str)`

7.60.2.7 `BStringList charToList (char ** str)`

7.60.2.8 `void fromBString (BString & s, BFloat64 & v)`

7.60.2.9 `void fromBString (BString & s, BUInt64 & v)`

7.60.2.10 `void fromBString (BString & s, BUInt32 & v)`

7.60.2.11 `void fromBString (BString & s, BInt32 & v)`

7.60.2.12 `void fromBString (BString & s, BStringList & v)`

7.60.2.13 `void fromBString (BString & s, BString & v)`

7.60.2.14 `static int gmatch (const char *s, const char *p) [static]`

7.60.2.15 `std::ostream& operator<< (std::ostream & o, BString & s)`

7.60.2.16 `std::istream& operator>> (std::istream & i, BString & s)`

7.60.2.17 `void toBString (BFloat64 & v, BString & s)`

7.60.2.18 `void toBString (BUInt64 & v, BString & s)`

7.60.2.19 `void toBString (BUInt32 & v, BString & s)`

7.60.2.20 `void toBString (BInt32 & v, BString & s)`

7.60.2.21 `void toBString (BStringList & v, BString & s)`

7.60.2.22 `void toBString (BString & v, BString & s)`

7.61 BString.h File Reference

```
#include <BTypes.h>
#include <BRefData.h>
#include <BList.h>
#include <BArray.h>
#include <iostream>
```

Classes

- class [BString](#)

Defines

- #define [BSTRING_H](#) 1

Functions

- std::ostream & [operator<<](#) (std::ostream &o, [BString](#) &s)
- std::istream & [operator>>](#) (std::istream &i, [BString](#) &s)
- void [toBString](#) ([BString](#) &v, [BString](#) &s)
- void [toBString](#) (BStringList &v, [BString](#) &s)
- void [toBString](#) (BInt32 &v, [BString](#) &s)
- void [toBString](#) (BUInt32 &v, [BString](#) &s)
- void [toBString](#) (BUInt64 &v, [BString](#) &s)
- void [toBString](#) (BFloat64 &v, [BString](#) &s)
- void [fromBString](#) ([BString](#) &s, [BString](#) &v)
- void [fromBString](#) ([BString](#) &s, BStringList &v)
- void [fromBString](#) ([BString](#) &s, BInt32 &v)
- void [fromBString](#) ([BString](#) &s, BUInt32 &v)
- void [fromBString](#) ([BString](#) &s, BUInt64 &v)
- void [fromBString](#) ([BString](#) &s, BFloat64 &v)

7.61.1 Define Documentation

7.61.1.1 `#define BSTRING_H 1`

7.61.2 Function Documentation

7.61.2.1 `void fromBString (BString & s, BFloat64 & v)`

7.61.2.2 `void fromBString (BString & s, BUInt64 & v)`

7.61.2.3 `void fromBString (BString & s, BUInt32 & v)`

7.61.2.4 `void fromBString (BString & s, BInt32 & v)`

7.61.2.5 `void fromBString (BString & s, BStringList & v)`

7.61.2.6 `void fromBString (BString & s, BString & v)`

7.61.2.7 `std::ostream& operator<< (std::ostream & o, BString & s)`

7.61.2.8 `std::istream& operator>> (std::istream & i, BString & s)`

7.61.2.9 `void toBString (BFloat64 & v, BString & s)`

7.61.2.10 `void toBString (BUInt64 & v, BString & s)`

7.61.2.11 `void toBString (BUInt32 & v, BString & s)`

7.61.2.12 `void toBString (BInt32 & v, BString & s)`

7.61.2.13 `void toBString (BStringList & v, BString & s)`

7.61.2.14 `void toBString (BString & v, BString & s)`

7.62 BStringLocked.h File Reference

```
#include <BString.h>
#include <BMutex.h>
```

Classes

- class [BStringMutex](#)
- class [BStringLocked](#)

Defines

- #define [BStringLocked_H](#) 1

7.62.1 Define Documentation

7.62.1.1 #define BStringLocked_H 1

7.63 BTable.cpp File Reference

```
#include <BTable.h>
```

7.64 BTable.h File Reference

```
#include <BArray.h>  
#include <BString.h>
```

Classes

- class [BTable](#)

7.65 BThread.cpp File Reference

```
#include <BThread.h>
#include <unistd.h>
#include <errno.h>
#include <sys/types.h>
```


7.66 BThread.h File Reference

```
#include <pthread.h>
```

Classes

- class [BThread](#)

Defines

- #define [BTHREAD_H](#) 1

7.66.1 Define Documentation

7.66.1.1 #define BTHREAD_H 1

7.67 BTimer.cpp File Reference

```
#include <BTimer.h>  
#include <sys/time.h>
```

7.68 BTimer.h File Reference

```
#include <BMutex.h>
```

Classes

- class [BTimer](#)
Stopwatch style timer.

7.69 BTimeStamp.cpp File Reference

```
#include <BTimeStamp.h>
#include <BTimeStampMs.h>
#include <sys/time.h>
```

Functions

- void [toBString](#) ([BTimeStamp](#) &*v*, [BString](#) &*s*)
- void [fromBString](#) ([BString](#) &*s*, [BTimeStamp](#) &*v*)

Variables

- static int [mon_yday](#) [2][13]

7.69.1 Function Documentation

7.69.1.1 void [fromBString](#) ([BString](#) & *s*, [BTimeStamp](#) & *v*)

7.69.1.2 void [toBString](#) ([BTimeStamp](#) & *v*, [BString](#) & *s*)

7.69.2 Variable Documentation

7.69.2.1 int [mon_yday](#)[2][13] [static]

Initial value:

```
{
    { 0, 31, 59, 90, 120, 151, 181, 212, 243, 273, 304, 334, 365 },
    { 0, 31, 60, 91, 121, 152, 182, 213, 244, 274, 305, 335, 366 }
}
```

7.70 BTimeStamp.h File Reference

```
#include <stdint.h>
#include <BError.h>
```

Classes

- class [BTimeStamp](#)

Defines

- #define [BTimeStamp_H](#) 1

Functions

- void [toBString](#) ([BTimeStamp](#) &*v*, [BString](#) &*s*)
- void [fromBString](#) ([BString](#) &*s*, [BTimeStamp](#) &*v*)

7.70.1 Define Documentation

7.70.1.1 #define BTimeStamp_H 1

7.70.2 Function Documentation

7.70.2.1 void fromBString (BString & *s*, BTimeStamp & *v*)

7.70.2.2 void toBString (BTimeStamp & *v*, BString & *s*)

7.71 BTimeStampMs.cpp File Reference

```
#include <BTimeStampMs.h>
#include <sys/time.h>
```

Variables

- static int `mon_yday` [2][13]

7.71.1 Variable Documentation

7.71.1.1 `int mon_yday[2][13]` `[static]`

Initial value:

```
{
    { 0, 31, 59, 90, 120, 151, 181, 212, 243, 273, 304, 334, 365 },
    { 0, 31, 60, 91, 121, 152, 182, 213, 244, 274, 305, 335, 366 }
}
```

7.72 BTimeStampMs.h File Reference

```
#include <stdint.h>
```

```
#include <BError.h>
```

Classes

- class [BTimeStampMs](#)

Defines

- #define [BTimeStampMs_H](#) 1

7.72.1 Define Documentation

7.72.1.1 #define BTimeStampMs_H 1

7.73 BTypes.h File Reference

```
#include <stdint.h>
#include <sys/types.h>
#include <vector>
```

Defines

- #define [BTYPES_H](#) 1

Typedefs

- typedef int8_t [BInt8](#)
- typedef uint8_t [BUInt8](#)
- typedef int16_t [BInt16](#)
- typedef uint16_t [BUInt16](#)
- typedef int32_t [BInt32](#)
- typedef uint32_t [BUInt32](#)
- typedef int64_t [BInt64](#)
- typedef uint64_t [BUInt64](#)
- typedef float [BFloat32](#)
- typedef double [BFloat64](#)
- typedef float [BFloat](#)
- typedef double [BDouble](#)
- typedef size_t [BSize](#)
- typedef uint32_t [BUInt](#)
- typedef std::vector< float > [BArrayFloat](#)
- typedef std::vector< double > [BArrayDouble](#)
- typedef [BInt32](#) [BInt](#)

Functions

- void [byteSwap8](#) (void *d, void *s)
- void [byteSwap16](#) (void *d, void *s)
- void [byteSwap32](#) (void *d, void *s)
- void [byteSwap64](#) (void *d, void *s)

7.73.1 Define Documentation

7.73.1.1 `#define BTYPES_H 1`

7.73.2 Typedef Documentation

7.73.2.1 `typedef std::vector<double> BArrayDouble`

7.73.2.2 `typedef std::vector<float> BArrayFloat`

7.73.2.3 `typedef double BDouble`

7.73.2.4 `typedef float BFloat`

7.73.2.5 `typedef float BFloat32`

7.73.2.6 `typedef double BFloat64`

7.73.2.7 `typedef BInt32 BInt`

7.73.2.8 `typedef int16_t BInt16`

7.73.2.9 `typedef int32_t BInt32`

7.73.2.10 `typedef int64_t BInt64`

7.73.2.11 `typedef int8_t BInt8`

7.73.2.12 `typedef size_t BSize`

7.73.2.13 `typedef BUInt32 BUInt`

7.73.2.14 `typedef uint16_t BUInt16`

7.73.2.15 `typedef uint32_t BUInt32`

7.73.2.16 `typedef uint64_t BUInt64`

7.73.2.17 `typedef uint8_t BUInt8`

7.73.3 Function Documentation

7.73.3.1 `void byteSwap16 (void * d, void * s)` `[inline]`

7.73.3.2 `void byteSwap32 (void * d, void * s)` `[inline]`

7.73.3.3 `void byteSwap64 (void * d, void * s)` `[inline]`

7.73.3.4 `void byteSwap8 (void * d, void * s)` `[inline]`

7.74 BUrl.cpp File Reference

```
#include <stdio.h>
#include <stdlib.h>
#include <memory.h>
#include <BUrl.h>
#include <curl/curl.h>
```

7.75 BUrl.h File Reference

```
#include <stdio.h>
#include <BString.h>
#include <BError.h>
```

Classes

- class [BUrl](#)
Basic access to a Url.

Defines

- #define [BURL_H](#) 1

7.75.1 Define Documentation

7.75.1.1 #define [BURL_H](#) 1

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