

paramxx  
1.0.6

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# 1 The C++ parameter interface library

## 1.1 Copyright

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## 2 Directory Hierarchy

### 2.1 Directories

This directory hierarchy is sorted roughly, but not completely, alphabetically:

**paramxx** **3**

## 3 Class Index

### 3.1 Class Hierarchy

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

<b>NameAttributeValue</b>	<b>8</b>
<b>Par</b>	<b>12</b>
<b>BoolPar</b>	<b>4</b>
<b>CommentPar</b>	<b>5</b>
<b>LongPar</b>	<b>7</b>
<b>RealPar</b>	<b>31</b>
<b>StringPar</b>	<b>33</b>
<b>ParFile</b>	<b>17</b>
<b>ParFileException</b>	<b>26</b>
<b>ParFilename</b>	<b>27</b>
<b>ParTxt</b>	<b>29</b>
<b>stlPtrWrapper&lt; Type &gt;</b>	<b>32</b>

## 4 Class Index

### 4.1 Class List

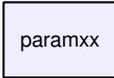
Here are the classes, structs, unions and interfaces with brief descriptions:

<b>BoolPar</b>	<b>4</b>
<b>CommentPar</b>	<b>5</b>
<b>LongPar</b>	<b>7</b>
<b>NameAttributeValue</b>	<b>8</b>
<b>Par</b>	<b>12</b>
<b>ParFile</b>	<b>17</b>
<b>ParFileException</b>	<b>26</b>
<b>ParFilename</b>	<b>27</b>
<b>ParTxt</b> (A class to handle the Param library specific string manipulation )	<b>29</b>

<a href="#">RealPar</a>	31
<a href="#">stlPtrWrapper&lt; Type &gt;</a>	32
<a href="#">StringPar</a>	33

## 5 Directory Documentation

### 5.1 /data/macabretmp/dj/paramxx/paramxx/ Directory Reference



paramxx

#### Files

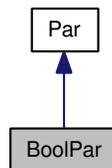
- file **BoolPar.cc**
- file **BoolPar.h**
- file **CommentPar.cc**
- file **CommentPar.h**
- file **LongPar.cc**
- file **LongPar.h**
- file **NameAttributeValue.cc**
- file **NameAttributeValue.h**
- file **Par.cc**
- file **Par.h**
- file **Parameters.cc**
- file **Parameters.h**
- file **ParFile.cc**
- file **ParFile.h**
- file **ParFileException.cc**
- file **ParFileException.h**
- file **ParFilename.cc**
- file **ParFilename.h**
- file **ParTxt.cc**
- file **ParTxt.h**
- file **RealPar.cc**
- file **RealPar.h**
- file **stlPtrWrapper.h**
- file **StringPar.cc**
- file **StringPar.h**

## 6 Class Documentation

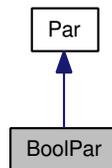
### 6.1 BoolPar Class Reference

```
#include <BoolPar.h>
```

Inheritance diagram for BoolPar:



Collaboration diagram for BoolPar:



#### Public Member Functions

- [BoolPar \(\)](#)
- [BoolPar \(const BoolPar &par\)](#)
- [BoolPar \(ParTxt &par\) throw \( ParFileException \)](#)
- [bool pgetb \(void\) const throw \( ParFileException \)](#)
- [void set\\_val \(const string &str\) throw \( ParFileException, Exception \)](#)

#### 6.1.1 Detailed Description

A boolean parameter. The class is responsible to make sure that the parameter can only take a boolean value. The class currently does not check whether `min > max`.

Definition at line 36 of file BoolPar.h.

#### 6.1.2 Constructor & Destructor Documentation

##### 6.1.2.1 BoolPar::BoolPar () [inline]

The default constructor.

Definition at line 45 of file BoolPar.h.

#### 6.1.2.2 BoolPar::BoolPar (const BoolPar & *par*) [inline]

The copy constructor.

Definition at line 50 of file BoolPar.h.

### 6.1.3 Member Function Documentation

#### 6.1.3.1 bool BoolPar::pgetb (void) const throw ( ParFileException ) [virtual]

The user is trying to get the boolean value of a parameter which is anything but a boolean.

Reimplemented from [Par](#).

Definition at line 59 of file BoolPar.cc.

References `Par::PARNAME`, and `Par::PARVALUE`.

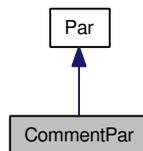
The documentation for this class was generated from the following files:

- BoolPar.h
- BoolPar.cc

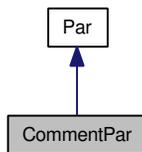
## 6.2 CommentPar Class Reference

```
#include <CommentPar.h>
```

Inheritance diagram for CommentPar:



Collaboration diagram for CommentPar:



### Public Member Functions

- [CommentPar](#) (const [CommentPar](#) &par)
- **CommentPar** ([ParTxt](#) &par) throw ( [ParFileException](#) )
- void [plist](#) (ostream &os) const
- void [set\\_val](#) (const string &str) throw ( [ParFileException](#), [Exception](#) )

#### 6.2.1 Detailed Description

A class to hold a comment line from a parameter file. A comment line can either begin with with a '#' character or the line can be blank.

Definition at line 35 of file [CommentPar.h](#).

#### 6.2.2 Constructor & Destructor Documentation

##### 6.2.2.1 [CommentPar::CommentPar](#) (const [CommentPar](#) &*par*) [[inline](#)]

The copy constructor.

Definition at line 46 of file [CommentPar.h](#).

#### 6.2.3 Member Function Documentation

##### 6.2.3.1 void [CommentPar::plist](#) (ostream &*os*) const [[inline](#), [virtual](#)]

Since [commentPar](#) does not have the 'name = val prompt' format.

Reimplemented from [Par](#).

Definition at line 58 of file [CommentPar.h](#).

References [Par::print\(\)](#).

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

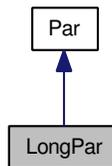
- [CommentPar.h](#)

- CommentPar.cc

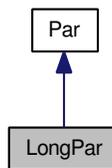
## 6.3 LongPar Class Reference

```
#include <LongPar.h>
```

Inheritance diagram for LongPar:



Collaboration diagram for LongPar:



### Public Member Functions

- [LongPar](#) (const [LongPar](#) &par)
- **LongPar** ([ParTxt](#) &par) throw ( [ParFileException](#), [Exception](#) )
- int [pgeti](#) () const throw ( [ParFileException](#) )  
*only defined in [RealPar](#)*
- long [pgetl](#) () const throw ( [ParFileException](#) )  
*only defined in [LongPar](#)*
- void **set\_val** (const string &str) throw ( [ParFileException](#), [Exception](#) )

### 6.3.1 Detailed Description

An long parameter. The class is responsible to make sure that the parameter can only take a long value.

Definition at line 35 of file LongPar.h.

### 6.3.2 Constructor & Destructor Documentation

#### 6.3.2.1 LongPar::LongPar (const LongPar & par) [inline]

The copy constructor.

Definition at line 46 of file LongPar.h.

### 6.3.3 Member Function Documentation

#### 6.3.3.1 int LongPar::pgeti (void) const throw ( ParFileException ) [virtual]

only defined in [RealPar](#)

Reimplemented from [Par](#).

Definition at line 100 of file LongPar.cc.

References [Par::PARNAME](#), and [Par::PARVALUE](#).

#### 6.3.3.2 long LongPar::pgetl (void) const throw ( ParFileException ) [inline, virtual]

only defined in [LongPar](#)

Reimplemented from [Par](#).

Definition at line 53 of file LongPar.h.

References [Par::PARVALUE](#).

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

- LongPar.h
- LongPar.cc

## 6.4 NameAttributeValue Class Reference

```
#include <NameAttributeValue.h>
```

### Public Member Functions

- virtual [~NameAttributeValue](#) ()  
*Destructor.*
- [NameAttributeValue](#) ()  
*Default constructor, all members are initialize to an empty string.*

- [NameAttributeValue](#) (const char \*str)
- string [get\\_attribute](#) (void)  
*return the attribute of the object*
- string [get\\_name](#) (void) const  
*return the name of the object*
- string [get\\_value](#) (void) const  
*return the pointer to the value of the object*
- void [init\\_NameAttributeValue](#) (const char \*str)  
*Set the name, attribute and value.*
- virtual void [print](#) (ostream &os=cerr)  
*Print the content of the object to a stream.*
- void [set\\_attribute](#) (const char \*a)  
*set the attribute of the object.*
- void [set\\_name](#) (const char \*n)  
*set the name of the object.*
- void [set\\_value](#) (const char \*v)  
*set the value of the object.*

#### Protected Attributes

- string **name**
- string **attribute**
- string **value**

#### Friends

- ostream & [operator<<](#) (ostream &os, [NameAttributeValue](#) &a)
- ostream & [operator<<](#) (ostream &os, [NameAttributeValue](#) \*a)

### 6.4.1 Detailed Description

Parse the name, attribute (if any) and value from a string.

The class parses a string of the form : name.attribute=value, name+, name-, -name for the name 'name', attribute 'attribute' and value 'value'.

Definition at line 40 of file NameAttributeValue.h.

### 6.4.2 Constructor & Destructor Documentation

**6.4.2.1 virtual NameAttributeValue::~NameAttributeValue () [inline, virtual]**

Destructor.

Definition at line 61 of file NameAttributeValue.h.

**6.4.2.2 NameAttributeValue::NameAttributeValue () [inline]**

Default constructor, all members are initialize to an empty string.

Definition at line 64 of file NameAttributeValue.h.

**6.4.2.3 NameAttributeValue::NameAttributeValue (const char \* str) [inline]**

Parse a string, str, into name, attribute and value. Equivalent to calling the default constructor then initialize\_NameAttributeValue.

Definition at line 70 of file NameAttributeValue.h.

References init\_NameAttributeValue().

### 6.4.3 Member Function Documentation

**6.4.3.1 string NameAttributeValue::get\_attribute (void) [inline]**

return the attribute of the object

Definition at line 73 of file NameAttributeValue.h.

**6.4.3.2 string NameAttributeValue::get\_name (void) const [inline]**

return the name of the object

Definition at line 76 of file NameAttributeValue.h.

**6.4.3.3** `string NameAttributeValue::get_value (void) const` [inline]

return the pointer to the value of the object

Definition at line 79 of file NameAttributeValue.h.

**6.4.3.4** `void NameAttributeValue::init_NameAttributeValue (const char * str)`

Set the name, attribute and value.

Definition at line 70 of file NameAttributeValue.cc.

Referenced by NameAttributeValue().

**6.4.3.5** `void NameAttributeValue::print (ostream & os = cerr)` [virtual]

Print the content of the object to a stream.

Definition at line 103 of file NameAttributeValue.cc.

**6.4.3.6** `void NameAttributeValue::set_attribute (const char * a)` [inline]

set the attribute of the object.

Definition at line 88 of file NameAttributeValue.h.

**6.4.3.7** `void NameAttributeValue::set_name (const char * n)` [inline]

set the name of the object.

Definition at line 91 of file NameAttributeValue.h.

**6.4.3.8** `void NameAttributeValue::set_value (const char * v)` [inline]

set the value of the object.

Definition at line 94 of file NameAttributeValue.h.

**6.4.4 Friends And Related Function Documentation****6.4.4.1** `ostream& operator<< (ostream & os, NameAttributeValue & a)`  
[friend]

Output operator. This operator outputs the contents of the object.

Definition at line 45 of file NameAttributeValue.h.

### 6.4.4.2 ostream& operator<< (ostream & os, NameAttributeValue \* a) [friend]

Output operator. This operator outputs the contents of the object.

Definition at line 53 of file NameAttributeValue.h.

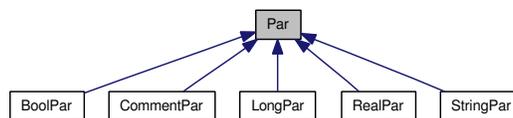
The documentation for this class was generated from the following files:

- NameAttributeValue.h
- NameAttributeValue.cc

## 6.5 Par Class Reference

```
#include <Par.h>
```

Inheritance diagram for Par:



### Public Types

- enum [ParFileDelimit](#) { **DELIMIT** = ' ' }
- enum [ParType](#) {  
[PARNAME](#), [PARTYPE](#), [PARMODE](#), [PARVALUE](#),  
[PARMINIMUM](#), [PARMAXIMUM](#), [PARPROMPT](#) }
- enum [ParamMode](#) {  
**AUTOS** = 'a', **BATCH** = 'b', **hIDDEN** = 'h', **HIDDEN** = 'H',  
**QUERY** = 'q', **LEARN** = 'l' }
- enum [ParamType](#) {  
**BOOLEAN** = 'b', **COMMENT** = 'c', **INTEGER** = 'i', **REAL** = 'r',  
**STRING** = 's' }
- enum [NumTokens](#) { **NUMTOKENS** = 7 }

### Public Member Functions

- virtual [~Par](#) (void)
- [Par](#) (void)
- [Par](#) ([ParTxt](#) &par)

- int **check\_value** (const char \*str) const
- virtual void **plist** (ostream &os) const
- string **get\_name** (void) const
- string **get\_mode** (void) const
- string **get\_prompt** (void) const
- string **get\_value** (void) const
- virtual bool **pgetb** (void) const throw ( ParFileException )
- virtual double **pgetd** (void) const throw ( ParFileException )  
*only defined in BoolPar*
- virtual int **pgeti** (void) const throw ( ParFileException )  
*only defined in RealPar*
- virtual long **pgetl** (void) const throw ( ParFileException )  
*only defined in LongPar*
- virtual void **pgetstr** (char result[ ], size\_t size) const throw ( ParFileException )  
*only defined in LongPar*
- virtual string **pgetstring** (void) const throw ( ParFileException )  
*only defined in StringPar*
- virtual void **print** (ostream &os) const  
*only defined in StringPar*
- virtual void **set\_val** (const string &str) throw ( ParFileException, Exception )

#### Static Public Member Functions

- static int **my\_tokenize** (char \*str, char \*delimit, char \*\*\*tokens) throw ( Exception )
- static void **delete\_tokens** (char \*\*ptr)
- static bool **is\_indirrect** (const string &str, char delimit='')

#### Protected Member Functions

- void **not\_between\_limits** (char str[ ], const char \*left, const string &left\_val, const char \*right, const string &right\_val) const

#### Protected Attributes

- vector< string > **parameter**

## Friends

- ostream & `operator<<` (ostream &os, `Par` &par)
- ostream & `operator<<` (ostream &os, `Par` \*par)

### 6.5.1 Detailed Description

The base class for the boolean, double, integer and string parameters.

Definition at line 41 of file Par.h.

### 6.5.2 Member Enumeration Documentation

#### 6.5.2.1 enum `Par::ParFileDelimit`

The delimit within the par file

Definition at line 64 of file Par.h.

#### 6.5.2.2 enum `Par::ParType`

The position of the parameters.

#### Enumerator:

*PARNAME* The name of the parameter

*PARTYPE* The type of the parameter

*PARMODE* The mode of the parameter

*PARVALUE* The value of the parameter

*PARMINIMUM* The minimum value of the parameter

*PARMAXIMUM* The maximum value of the parameter

*PARPROMPT* The name of the parameter

Definition at line 69 of file Par.h.

### 6.5.3 Constructor & Destructor Documentation

#### 6.5.3.1 virtual `Par::~~Par` (void) [`inline`, `virtual`]

The destructor.

Definition at line 89 of file Par.h.

### 6.5.3.2 `Par::Par (void)` [inline]

The default constructor.

Definition at line 94 of file Par.h.

## 6.5.4 Member Function Documentation

### 6.5.4.1 `void Par::plist (ostream & os) const` [virtual]

All the derived [Par](#) class, with the exception of the comment class, will call this function to print on the screen the parameters with the format name = val prompt

Reimplemented in [CommentPar](#).

Definition at line 105 of file Par.cc.

References `PARMODE`, `PARNAME`, `PARPROMPT`, and `PARVALUE`.

### 6.5.4.2 `string Par::get_name (void) const` [inline]

Get the name member of the class.

Definition at line 110 of file Par.h.

References `PARNAME`.

### 6.5.4.3 `string Par::get_mode (void) const` [inline]

Get the mode of the parameter file

Definition at line 115 of file Par.h.

References `PARMODE`.

### 6.5.4.4 `string Par::get_prompt (void) const` [inline]

Get the prompt of the parameter

Definition at line 120 of file Par.h.

References `PARPROMPT`.

### 6.5.4.5 `bool Par::pgetb (void) const throw ( ParFileException )` [virtual]

The user is trying to get the boolean value of a parameter which is anything but a boolean.

Reimplemented in [BoolPar](#).

Definition at line 146 of file Par.cc.

Referenced by `ParFile::pgetb()`.

#### 6.5.4.6 `double Par::pgetd (void) const throw ( ParFileException ) [virtual]`

only defined in [BoolPar](#)

The user is trying to get the double value of a parameter which is anything but a double.

Reimplemented in [RealPar](#).

Definition at line 153 of file `Par.cc`.

Referenced by `ParFile::pgetd()`.

#### 6.5.4.7 `int Par::pgeti (void) const throw ( ParFileException ) [virtual]`

only defined in [RealPar](#)

Reimplemented in [LongPar](#).

Definition at line 160 of file `Par.cc`.

Referenced by `ParFile::pgeti()`.

#### 6.5.4.8 `long Par::pgetl (void) const throw ( ParFileException ) [virtual]`

only defined in [LongPar](#)

Reimplemented in [LongPar](#).

Definition at line 167 of file `Par.cc`.

Referenced by `ParFile::pgetl()`.

#### 6.5.4.9 `void Par::pgetstr (char result[ ], size_t size) const throw ( ParFileException ) [virtual]`

only defined in [LongPar](#)

Reimplemented in [StringPar](#).

Definition at line 174 of file `Par.cc`.

#### 6.5.4.10 `string Par::pgetstring (void) const throw ( ParFileException ) [virtual]`

only defined in [StringPar](#)

Reimplemented in [StringPar](#).

Definition at line 182 of file `Par.cc`.

Referenced by `ParFile::pgetstr()`, and `ParFile::pgetstring()`.

#### 6.5.4.11 `void Par::print (ostream & os) const` [virtual]

only defined in [StringPar](#)

To output the parameter of the form: name,type,mode,val,min,max,prompt

Reimplemented in [StringPar](#).

Definition at line 189 of file `Par.cc`.

Referenced by `CommentPar::plist()`, and `ParFile::print()`.

### 6.5.5 Friends And Related Function Documentation

#### 6.5.5.1 `ostream& operator<< (ostream & os, Par & par)` [friend]

This operator outputs the contents of the object.

Definition at line 46 of file `Par.h`.

#### 6.5.5.2 `ostream& operator<< (ostream & os, Par * par)` [friend]

This operator outputs the contents of the object.

Definition at line 54 of file `Par.h`.

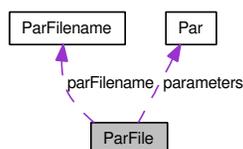
The documentation for this class was generated from the following files:

- `Par.h`
- `Par.cc`

## 6.6 ParFile Class Reference

```
#include <ParFile.h>
```

Collaboration diagram for `ParFile`:



**Public Member Functions**

- [~ParFile](#) ()
- [ParFile](#) ()
- [ParFile](#) (int argc, char \*\*argv, const char \*file=NULL) throw ( ParFileException, Exception )
- string [get\\_filename](#) ()
- void [init\\_ParFile](#) (int argc, char \*\*argv, const char \*file=NULL) throw ( ParFileException, Exception )
- [Par \\*](#) [get\\_par](#) (const char \*name) const throw ( ParFileException )  
*Get the pointer to the parameter.*
  
- void [print](#) (ostream &os) const
- bool [pgetb](#) (const char \*name) const throw ( ParFileException )
- double [pgetd](#) (const char \*name) const throw ( ParFileException )
- int [pgeti](#) (const char \*name) const throw ( ParFileException )
- long [pgetl](#) (const char \*name) const throw ( ParFileException )
- void [pgetstr](#) (const char \*name, char result[ ], size\_t size) const throw ( ParFileException )
- string [pgetstring](#) (const char \*name) const throw ( ParFileException )
- void [pget](#) (const char \*name, bool &result) const throw ( ParFileException )  
*Same functionality as [ParFile::pgetb](#).*
  
- void [pget](#) (const char \*name, double &result) const throw ( ParFileException )  
*Same functionality as [ParFile::pgetd](#).*
  
- void [pget](#) (const char \*name, int &result) const throw ( ParFileException )  
*Same functionality as [ParFile::pgeti](#).*
  
- void [pget](#) (const char \*name, long &result) const throw ( ParFileException )  
*Same functionality as [ParFile::pgetl](#).*
  
- void [pget](#) (const char \*name, char result[ ], size\_t) const throw ( ParFileException )  
*Same functionality as [ParFile::pgetstr](#).*
  
- void [pget](#) (const char \*name, string &result) const throw ( ParFileException )  
*Same functionality as [ParFile::pgetstring](#).*
  
- int [traverse](#) (int(\*fct)([Par \\*](#))) const

### Static Public Member Functions

- static int **is\_blank** (const char \*str)
- static int **is\_comment** (const char \*str, char delimit='#')

### Friends

- ostream & **operator<<** (ostream &os, ParFile &parFile)
- ostream & **operator<<** (ostream &os, ParFile \*parFile)

#### 6.6.1 Detailed Description

To get the parameters in the parameter file.

#### Examples:

[ptest.cc](#).

Definition at line 38 of file ParFile.h.

#### 6.6.2 Constructor & Destructor Documentation

##### 6.6.2.1 ParFile::~~ParFile ()

The destructor.

Definition at line 47 of file ParFile.cc.

##### 6.6.2.2 ParFile::ParFile () [inline]

The default constructor.

Definition at line 66 of file ParFile.h.

##### 6.6.2.3 ParFile::ParFile (int *argc*, char \*\**argv*, const char \**file* = NULL) throw ( ParFileException, Exception )

The constructor to load the parameter file and parse the command line args. Calling this constructor is equivalent to call the default constructor then call the `init_ParFile` method.

#### Parameters:

- argc* The number of parameters from the command line.
- argv* The command line arguments.

*file* The specific file to use.

**Returns:**

void

**Exceptions:**

[\*ParFileException\*](#)

Definition at line 59 of file ParFile.cc.

References `init_ParFile()`.

### 6.6.3 Member Function Documentation

#### 6.6.3.1 `string ParFile::get_filename ()` [inline]

Get the parameter filename.

**Returns:**

The name of the parameter file.

Definition at line 85 of file ParFile.h.

References `ParFilename::get_filename()`.

#### 6.6.3.2 `void ParFile::init_ParFile (int argc, char ** argv, const char * file = NULL) throw ( ParFileException, Exception )`

Load the appropriate parameter file and parse the command line args.

**Parameters:**

*argc* The number of parameters from the command line.

*argv* The command line arguments.

*file* The specific file to use.

**Returns:**

void

**Exceptions:**

[\*ParFileException\*](#)

Definition at line 294 of file ParFile.cc.

Referenced by `ParFile()`.

**6.6.3.3 Par \* ParFile::get\_par (const char \* name) const throw ( ParFileException )**

Get the pointer to the parameter.

Definition at line 255 of file ParFile.cc.

References Par::get\_value().

Referenced by pgetb(), pgetd(), pgeti(), pgetl(), pgetstr(), and pgetstring().

**6.6.3.4 void ParFile::print (ostream & os) const**

Loop over the parameters to call the print method for each parameter. The individual parameter will print its content in the form: name,type,mode,val,min,max,prompt

**Parameters:**

*os* The stream to print the content of the parameter file.

Definition at line 368 of file ParFile.cc.

References Par::print().

**6.6.3.5 bool ParFile::pgetb (const char \* name) const throw ( ParFileException )**

To get a parameter of type boolean.

**Parameters:**

*name* The name of the parameter to retrieve its value

**Returns:**

The value of the parameter name.

**Exceptions:**

*ParFileException*

**Examples:**

[ptest.cc](#).

Definition at line 138 of file ParFile.cc.

References get\_par(), and Par::pgetb().

Referenced by pget().

**6.6.3.6 double ParFile::pgetd (const char \* *name*) const throw ( ParFileException )**

To get a parameter of type double.

**Parameters:**

*name* The name of the parameter to retrieve its value

**Returns:**

The value of the parameter name.

**Exceptions:**

*ParFileException*

**Examples:**

[ptest.cc](#).

Definition at line 149 of file ParFile.cc.

References `get_par()`, and `Par::pgetd()`.

Referenced by `pget()`.

**6.6.3.7 int ParFile::pgeti (const char \* *name*) const throw ( ParFileException )**

To get a parameter of type long.

**Parameters:**

*name* The name of the parameter to retrieve its value

**Returns:**

The value of the parameter name.

**Exceptions:**

*ParFileException*

**Examples:**

[ptest.cc](#).

Definition at line 160 of file ParFile.cc.

References `get_par()`, and `Par::pgeti()`.

Referenced by `pget()`.

**6.6.3.8 long ParFile::pgetl (const char \* *name*) const throw ( ParFileException )**

To get a parameter of type long.

**Parameters:**

*name* The name of the parameter to retrieve its value

**Returns:**

The value of the parameter name.

**Exceptions:**

*ParFileException*

**Examples:**

[ptest.cc](#).

Definition at line 171 of file ParFile.cc.

References `get_par()`, and `Par::pgetl()`.

Referenced by `pget()`.

**6.6.3.9 void ParFile::pgetstr (const char \* *name*, char *result*[], size\_t *size*) const throw ( ParFileException )**

To get a parameter of type char[]. The length of the result in the following function must be at least size+1

**Parameters:**

*name* The name of the parameter to retrieve its value

**Returns:**

The value of the parameter name.

**Exceptions:**

*ParFileException*

**Examples:**

[ptest.cc](#).

Definition at line 182 of file ParFile.cc.

References `get_par()`, and `Par::pgetstring()`.

Referenced by `pget()`.

**6.6.3.10 string ParFile::pgetstring (const char \* *name*) const throw ( ParFileException )**

To get a parameter of type string.

**Parameters:**

*name* The name of the parameter to retrieve its value

**Returns:**

The value of the parameter name.

**Exceptions:**

[ParFileException](#)

**Examples:**

[ptest.cc](#).

Definition at line 197 of file ParFile.cc.

References [get\\_par\(\)](#), and [Par::pgetstring\(\)](#).

Referenced by [pget\(\)](#).

**6.6.3.11 void ParFile::pget (const char \* *name*, bool & *result*) const throw ( ParFileException )**

Same functionality as [ParFile::pgetb](#).

**Examples:**

[ptest.cc](#).

Definition at line 72 of file ParFile.cc.

References [pgetb\(\)](#).

**6.6.3.12 void ParFile::pget (const char \* *name*, double & *result*) const throw ( ParFileException )**

Same functionality as [ParFile::pgetd](#).

Definition at line 83 of file ParFile.cc.

References [pgetd\(\)](#).

**6.6.3.13 void ParFile::pget (const char \* name, int & result) const throw ( ParFileException )**

Same functionality as [ParFile::pgeti](#).

Definition at line 94 of file ParFile.cc.

References [pgeti\(\)](#).

**6.6.3.14 void ParFile::pget (const char \* name, long & result) const throw ( ParFileException )**

Same functionality as [ParFile::pgetl](#).

Definition at line 105 of file ParFile.cc.

References [pgetl\(\)](#).

**6.6.3.15 void ParFile::pget (const char \* name, char result[ ], size\_t size) const throw ( ParFileException )**

Same functionality as [ParFile::pgetstr](#).

Definition at line 116 of file ParFile.cc.

References [pgetstr\(\)](#).

**6.6.3.16 void ParFile::pget (const char \* name, string & rult) const throw ( ParFileException )**

Same functionality as [ParFile::pgetstring](#).

Definition at line 127 of file ParFile.cc.

References [pgetstring\(\)](#).

**6.6.3.17 int ParFile::traverse (int(\*)(Par \*) fct) const**

Traverse the parameters list and invoke the function fct, if fct returns a non-zero the traversal is aborted and the fct return value is returned.

Definition at line 561 of file ParFile.cc.

**6.6.3.18 int ParFile::is\_comment (const char \* str, char delimit = '#')  
[static]**

if the first character is #, or the line is blank, then the line is a comment

Definition at line 585 of file ParFile.cc.

### 6.6.4 Friends And Related Function Documentation

#### 6.6.4.1 ostream& operator<< (ostream & os, ParFile & parFile) [friend]

This operator outputs the contents of the object.

Definition at line 43 of file ParFile.h.

#### 6.6.4.2 ostream& operator<< (ostream & os, ParFile \* parFile) [friend]

This operator outputs the contents of the object.

Definition at line 51 of file ParFile.h.

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

- ParFile.h
- ParFile.cc

## 6.7 ParFileException Class Reference

```
#include <ParFileException.h>
```

### Public Member Functions

- **ParFileException** (const string &msg)

### 6.7.1 Detailed Description

The exception thrown by the [ParFile](#) library.

#### Examples:

[ptest.cc](#).

Definition at line 33 of file ParFileException.h.

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

- ParFileException.h
- ParFileException.cc

## 6.8 ParFilename Class Reference

```
#include <ParFilename.h>
```

### Public Member Functions

- [~ParFilename](#) (void)
- [ParFilename](#) ()
- [ParFilename](#) (int argc, char \*\*argv, const char \*file=NULL) throw ( ParFileException )
- string [get\\_filename](#) (void)
- void [init\\_ParFilename](#) (int argc, char \*\*argv, const char \*file=NULL) throw ( ParFileException )
- void [print](#) (ostream &os)

### Static Public Member Functions

- static vector< string > [parse\\_string](#) (string &str, char delimit)

### Friends

- ostream & [operator<<](#) (ostream &os, [ParFilename](#) &a)
- ostream & [operator<<](#) (ostream &os, [ParFilename](#) \*a)

### 6.8.1 Detailed Description

Find the parameter file. If PFILE=foo is set at the command line then the file 'foo' shall be the file to be opened. PFILE will override even if a specific file to the function (3rd argument) Parfile is set. The class loops over the PFILES, UPARM environment variables to determine then the .par and extension to locate the parameter file.

Definition at line 44 of file ParFilename.h.

### 6.8.2 Constructor & Destructor Documentation

#### 6.8.2.1 ParFilename::~ParFilename (void) [inline]

destructor

Definition at line 69 of file ParFilename.h.

**6.8.2.2 ParFilename::ParFilename ()** [inline]

default constructor

Definition at line 74 of file ParFilename.h.

**6.8.2.3 ParFilename::ParFilename (int *argc*, char \*\* *argv*, const char \* *file* = NULL) throw ( ParFileException )**

constructor

Definition at line 48 of file ParFilename.cc.

**6.8.3 Member Function Documentation****6.8.3.1 string ParFilename::get\_filename (void)** [inline]

Get the parameter filename

Definition at line 85 of file ParFilename.h.

Referenced by ParFile::get\_filename().

**6.8.3.2 void ParFilename::init\_ParFilename (int *argc*, char \*\* *argv*, const char \* *file* = NULL) throw ( ParFileException )**

Initialize the parameter

Definition at line 245 of file ParFilename.cc.

**6.8.3.3 vector< string > ParFilename::parse\_string (string & *str*, char *delimiter*)**  
[static]**Parameters:**

*str* the string to be split.

*delimiter* the delimit to split the string.

Splits the input line on the parameter delimiter.

**Returns:**

Vector of tokens, one for each delimiter delimited field.

Definition at line 315 of file ParFilename.cc.

### 6.8.4 Friends And Related Function Documentation

#### 6.8.4.1 ostream& operator<< (ostream & os, ParFilename & a) [friend]

This output operator outputs the contents of the object.

Definition at line 49 of file ParFilename.h.

#### 6.8.4.2 ostream& operator<< (ostream & os, ParFilename \* a) [friend]

This output operator outputs the contents of the object.

Definition at line 57 of file ParFilename.h.

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

- ParFilename.h
- ParFilename.cc

## 6.9 ParTxt Class Reference

A class to handle the Param library specific string manipulation.

```
#include <ParTxt.h>
```

### Public Member Functions

- **ParTxt** (char \*str=NULL) throw ( ParFileException )
- void **init\_ParTxt** (char \*str=NULL) throw ( ParFileException )
- **operator char \* ()** const
- **operator char \*\* ()** const
- char \* **get\_token** (size\_t n) throw ( ParFileException )
- void **print** (ostream &os)

### Static Public Member Functions

- static void **verify\_mode** (const string &str) throw ( ParFileException )

### Static Public Attributes

- static int **restore** = 0

### Protected Attributes

- char \* **buffer**
- char \*\* **buffer\_argv**
- size\_t **num\_tokens**

### Friends

- ostream & **operator<<** (ostream &os, ParTxt &par)  
*This operator outputs the contents of the object.*
- ostream & **operator<<** (ostream &os, ParTxt \*par)  
*This operator outputs the contents of the object.*

### 6.9.1 Detailed Description

A class to handle the Param library specific string manipulation.

Definition at line 31 of file ParTxt.h.

### 6.9.2 Member Function Documentation

#### 6.9.2.1 void ParTxt::verify\_mode (const string & *str*) throw ( ParFileException ) [static]

Check to see if 'mode' is one of the followig options: a, b, h, H, l

Definition at line 127 of file ParTxt.cc.

### 6.9.3 Friends And Related Function Documentation

#### 6.9.3.1 ostream& operator<< (ostream & *os*, ParTxt & *par*) [friend]

This operator outputs the contents of the object.

Definition at line 34 of file ParTxt.h.

#### 6.9.3.2 ostream& operator<< (ostream & *os*, ParTxt \* *par*) [friend]

This operator outputs the contents of the object.

Definition at line 40 of file ParTxt.h.

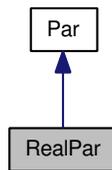
The documentation for this class was generated from the following files:

- ParTxt.h
- ParTxt.cc

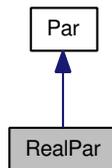
## 6.10 RealPar Class Reference

```
#include <RealPar.h>
```

Inheritance diagram for RealPar:



Collaboration diagram for RealPar:



### Public Member Functions

- [RealPar](#) (const [RealPar](#) &par)  
*The copy constructor.*
- [RealPar](#) ([ParTxt](#) &par) throw ( [ParFileException](#), [Exception](#) )  
*constructor.*
- double [pgetd](#) (void) const throw ( [ParFileException](#) )  
*only defined in [BoolPar](#)*
- void [set\\_val](#) (const string &str) throw ( [ParFileException](#), [Exception](#) )

#### 6.10.1 Detailed Description

An double parameter. The class is responsible to make sure that the parameter can only take a double value.

Definition at line 35 of file `RealPar.h`.

### 6.10.2 Constructor & Destructor Documentation

#### 6.10.2.1 `RealPar::RealPar (const RealPar & par)` [`inline`]

The copy constructor.

Definition at line 44 of file `RealPar.h`.

#### 6.10.2.2 `RealPar::RealPar (ParTxt & par) throw ( ParFileException, Exception )`

constructor.

Definition at line 32 of file `RealPar.cc`.

### 6.10.3 Member Function Documentation

#### 6.10.3.1 `double RealPar::pgetd (void) const throw ( ParFileException )` [`inline`, `virtual`]

only defined in [BoolPar](#)

The user is trying to get the double value of a parameter which is anything but a double.

Reimplemented from [Par](#).

Definition at line 49 of file `RealPar.h`.

References `Par::PARVALUE`.

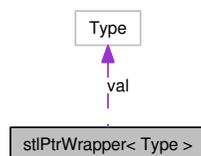
The documentation for this class was generated from the following files:

- `RealPar.h`
- `RealPar.cc`

## 6.11 `stlPtrWrapper< Type >` Class Template Reference

```
#include <stlPtrWrapper.h>
```

Collaboration diagram for `stlPtrWrapper< Type >`:



### Public Member Functions

- `stlPtrWrapper` (Type x=0)
- `stlPtrWrapper` (const `stlPtrWrapper`< Type > &xxx)
- `stlPtrWrapper` & `operator=` (const `stlPtrWrapper`< Type > &rhs)
- const Type `operator`() () const
- Type `operator`() ()

### Friends

- `ostream` & `operator`<< (`ostream` &os, `stlPtrWrapper`< Type > &a)
- `ostream` & `operator`<< (`ostream` &os, `stlPtrWrapper`< Type > \*a)
- bool `operator==` (const `stlPtrWrapper`< Type > &xw1, const `stlPtrWrapper`< Type > &xw2)
- bool `operator`< (const `stlPtrWrapper`< Type > &xw1, const `stlPtrWrapper`< Type > &xw2)

#### 6.11.1 Detailed Description

`template<class Type> class stlPtrWrapper< Type >`

A simple wrapper class to put pointers into STL containers.

Definition at line 36 of file `stlPtrWrapper.h`.

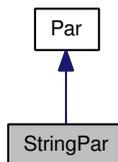
The documentation for this class was generated from the following file:

- `stlPtrWrapper.h`

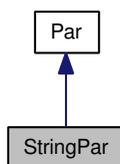
## 6.12 StringPar Class Reference

```
#include <StringPar.h>
```

Inheritance diagram for `StringPar`:



Collaboration diagram for StringPar:



### Public Member Functions

- [StringPar](#) (const [StringPar](#) &par)
- [StringPar](#) ([ParTxt](#) &par) throw ( [ParFileException](#) )
- void [pgetstr](#) (char result[ ], size\_t size) const throw ( [ParFileException](#) )  
*only defined in [LongPar](#)*
- string [pgetstring](#) () const throw ( [ParFileException](#) )  
*only defined in [StringPar](#)*
- void [print](#) (ostream &os) const
- void [set\\_val](#) (const string &str) throw ( [ParFileException](#), [Exception](#) )

#### 6.12.1 Detailed Description

A string parameter. The class is responsible to make sure that the parameter can only take a string value.

Definition at line 35 of file [StringPar.h](#).

#### 6.12.2 Constructor & Destructor Documentation

##### 6.12.2.1 [StringPar::StringPar](#) (const [StringPar](#) & *par*) [[inline](#)]

The copy constructor.

Definition at line 46 of file [StringPar.h](#).

#### 6.12.3 Member Function Documentation

##### 6.12.3.1 void [StringPar::pgetstr](#) (char *result*[ ], size\_t *size*) const throw ( [ParFileException](#) ) [[inline](#), [virtual](#)]

only defined in [LongPar](#)

Reimplemented from [Par](#).

Definition at line 51 of file StringPar.h.

References [Par::PARVALUE](#).

**6.12.3.2** `string StringPar::pgetstring (void) const throw ( ParFileException )`  
[inline, virtual]

only defined in [StringPar](#)

Reimplemented from [Par](#).

Definition at line 56 of file StringPar.h.

References [Par::PARVALUE](#).

**6.12.3.3** `void StringPar::print (ostream & os) const` [virtual]

To output the parameter of the form: name,type,mode,"val",min,max,prompt

Reimplemented from [Par](#).

Definition at line 94 of file StringPar.cc.

References [Par::PARMODE](#).

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

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

## 7 Example Documentation

### 7.1 ptest.cc

The classic way to read the parameter file.

```
#include <stdlib.h>
#include <iostream>

#include <testlib/testlib.h>
#include <paramxx/ParFile.h>

static int test_boolean( ParFile& pf ) {
    try {
        bool abool = pf.pgetb( "abool" );
```

```
bool anotherbool;
pf.pget( "abool", anotherbool );

TEST( "boolean", abool, anotherbool );

return EXIT_SUCCESS;

} catch( ParFileException& pfe ) {

    cerr << pfe;
    return EXIT_FAILURE;

} catch ( Exception& pfe ) {

    cerr << pfe;
    return EXIT_FAILURE;

}

}

static int test_double( ParFile& pf ) {

    try {

        double adouble = pf.pgetd( "areal" );

        double anotherdouble;
        pf.pget( "areal", anotherdouble );

        TEST( "double", adouble, anotherdouble );

        return EXIT_SUCCESS;

    } catch( ParFileException& pfe ) {
        cerr << pfe;
        return EXIT_FAILURE;
    } catch ( Exception& pfe ) {

        cerr << pfe;
        return EXIT_FAILURE;

    }

}

static int test_int( ParFile& pf ) {

    try {

        int anint = pf.pgeti( "anint" );

        int anotherint;

        pf.pget( "anint", anotherint );

        TEST( "integer", anint, anotherint );

    }

}
```

```
        return EXIT_SUCCESS;
    } catch ( ParFileException& pfe ) {
        cerr << pfe;
        return EXIT_FAILURE;
    } catch ( Exception& pfe ) {
        cerr << pfe;
        return EXIT_FAILURE;
    }
}

static int test_long( ParFile& pf ) {
    try {
        long along = pf.pgetl( "along" );

        long anotherlong;
        pf.pget( "along", anotherlong );

        TEST( "long", along, anotherlong );

        return EXIT_SUCCESS;
    } catch ( ParFileException& pfe ) {
        cerr << pfe;
        return EXIT_FAILURE;
    } catch ( Exception& pfe ) {
        cerr << pfe;
        return EXIT_FAILURE;
    }
}

static int test_string( ParFile& pf ) {

    try {

        string astr = pf.pgetstring( "astr" );

        string anotherstring;
        pf.pget( "astr", anotherstring );

        TESTSTRING( "string", astr.c_str( ), anotherstring.c_str( ) );

        return EXIT_SUCCESS;
    }
```

```
    } catch ( ParFileException& pfe ) {

        cerr << pfe;
        return EXIT_FAILURE;

    } catch ( Exception& pfe ) {

        cerr << pfe;
        return EXIT_FAILURE;

    }

}

static int test( int argc, char** argv ) {

    try {
        ParFile pf( argc, argv );

        char str[ 256 ];
        pf.pgetstr( "foo", str, 256 );

        if ( EXIT_FAILURE == test_boolean( pf ) )
            return EXIT_FAILURE;

        if ( EXIT_FAILURE == test_int( pf ) )
            return EXIT_FAILURE;

        if ( EXIT_FAILURE == test_long( pf ) )
            return EXIT_FAILURE;

        if ( EXIT_FAILURE == test_string( pf ) )
            return EXIT_FAILURE;

        if ( EXIT_FAILURE == test_double( pf ) )
            return EXIT_FAILURE;

    } catch ( ParFileException& pfe ) {
        cerr << pfe;
        return EXIT_FAILURE;
    } catch ( Exception& e ) {
        cerr << e;
        return EXIT_FAILURE;
    }

    return EXIT_SUCCESS;

}

int main( int argc, char** argv ) {

    START( "Testing ParFile with indirrection" );

    if ( EXIT_FAILURE == test( argc, argv ) )
        return EXIT_FAILURE;

    SUMMARY();

}
```

```
    return EXIT_SUCCESS;
}
```

## 7.2 ptest.par

Given a parameter file of the form:

```
aboolan,b,a,)aboolanindirrection,,,"To test boolean indirrection"
aboolanindirrection,b,a,no,,,"blah blah..."
anint,i,a,)anintindirrection,-5,5,"To test int indirrection"
anintindirrection,i,a,3,-5,5,"blah blah..."
along,i,a,)alongindirrection,-5,5,"To test long indirrection"
alongindirrection,i,a,3,-5,5,"blah blah..."
areal,r,a,)arealindirrection,-25.0,25.0,"To test real indirrection"
arealindirrection,r,a,1,-10.0,10.0,"blah blah..."
astr,s,"a",)astringindirrection,now|is,"To test string indirrection"
astringindirrection,s,"a",is,now|is|the|time,,,"blah blah..."
foo,s,"a",a,,,"blah blah..."
mode,s,"ahq",a,,,"mode"
# To test is the library aborts if mode is set to batch:
#mode,s,"b",a,,,"mode"
```

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