

cxcpamx-2.0
2.0.3

Generated by Doxygen 1.8.15

1 cxcparamx	1
1.1 Introduction	1
2 Class Index	3
2.1 Class List	3
3 Class Documentation	5
3.1 cxcparamx::simple Class Reference	5
3.1.1 Detailed Description	6
3.1.2 Constructor & Destructor Documentation	6
3.1.2.1 simple() [1/2]	6
3.1.2.2 simple() [2/2]	7
3.1.3 Member Function Documentation	7
3.1.3.1 get() [1/7]	7
3.1.3.2 get() [2/7]	7
3.1.3.3 get() [3/7]	8
3.1.3.4 get() [4/7]	8
3.1.3.5 get() [5/7]	9
3.1.3.6 get() [6/7]	9
3.1.3.7 get() [7/7]	10
3.1.3.8 getb()	10
3.1.3.9 getd()	10
3.1.3.10 getf()	11
3.1.3.11 geti()	11
3.1.3.12 getl()	12
3.1.3.13 gets()	12
3.1.3.14 getstr()	12
Index	15

Chapter 1

cxcparamx

1.1 Introduction

`cxcparamx` provides C++ Extensions to `cxcparam`, CIAO's IRAF compatible parameter library

- `cxcparamx::simple` provides a simple wrapper around getting parameter values.

Chapter 2

Class Index

2.1 Class List

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

cxcparamx::simple	5
-----------------------------------	---

Chapter 3

Class Documentation

3.1 cxcparamx::simple Class Reference

```
#include <cxcparamx/simple.h>
```

Public Types

- using **pParamFileImpl** = std::unique_ptr< ParamFileImpl, void(*) (ParamFileImpl *)>

Public Member Functions

- **simple** (int argc, char **argv, const string &mode="rw")
Constructor with file name taken from argv[0].
- **simple** (const string &filename, int argc, char **argv, const string &mode="rw")
Constructor with explicit parameter file name.
- void **get** (const string &name, float &value) const
Retrieve a parameter value into a float.
- void **get** (const string &name, double &value) const
Retrieve a parameter value into a double.
- void **get** (const string &name, short &value) const
Retrieve a parameter value into a short.
- void **get** (const string &name, int &value) const
Retrieve a parameter value into an int.
- void **get** (const string &name, long &value) const
Retrieve a parameter value into a long.
- void **get** (const string &name, bool &value) const
Retrieve a parameter value into a bool.
- void **get** (const string &name, string &value) const
Retrieve a parameter value into a string.
- float **getf** (const string &name) const

Return a parameter value as a float.

- double `getd` (const string &name) const

Return a parameter value as a double.

- short `gets` (const string &name) const

Return a parameter value as a short.

- int `geti` (const string &name) const

Return a parameter value as an int.

- long `getl` (const string &name) const

Return a parameter value as a long.

- bool `getb` (const string &name) const

Return a parameter value as a bool.

- string `getstr` (const string &name) const

Return a parameter value as a string.

- bool `access` (const string &name) const

3.1.1 Detailed Description

A simple wrapper class providing polymorphic attribute retrieval.

Instantiating the class opens the parameter file; the file is closed during object destruction.

3.1.2 Constructor & Destructor Documentation

3.1.2.1 `simple()` [1/2]

```
cxtparamx::simple::simple (
    int argc,
    char ** argv,
    const string & mode = "rw" )
```

Constructor with file name taken from argv[0].

Parameters

in	<code>argc</code>	the number of elements in argv
in	<code>argv</code>	typically, the command line arguments vector passed to <code>main*</code>
in	<code>mode</code>	mode with which to open the file

3.1.2.2 simple() [2/2]

```
cxcparamx::simple::simple (
    const string & in_filename,
    int argc,
    char ** argv,
    const string & mode = "rw" )
```

Constructor with explicit parameter file name.

Parameters

in	<i>filename</i>	the parameter file name
in	<i>argc</i>	the number of elements in <i>argv</i>
	<i>argv</i>	typically, the command line arguments vector passed to <code>main</code>
in	<i>mode</i>	mode with which to open the file

3.1.3 Member Function Documentation

3.1.3.1 get() [1/7]

```
void cxcparamx::simple::get (
    const string & name,
    float & value ) const
```

Retrieve a parameter value into a float.

Parameters

in	<i>name</i>	parameter name
out	<i>value</i>	returned value

Exceptions

<i>Exception</i>	if parameter is not found
------------------	---------------------------

3.1.3.2 get() [2/7]

```
void cxcparamx::simple::get (
    const string & name,
    double & value ) const
```

Retrieve a parameter value into a double.

Parameters

in	<i>name</i>	parameter name
out	<i>value</i>	returned value

Exceptions

<i>Exception</i>	if parameter is not found
------------------	---------------------------

3.1.3.3 `get()` [3/7]

```
void cxcparamx::simple::get (
    const string & name,
    short & value ) const
```

Retrieve a parameter value into a short.

Parameters

in	<i>name</i>	parameter name
out	<i>value</i>	returned value

Exceptions

<i>Exception</i>	if parameter is not found
------------------	---------------------------

3.1.3.4 `get()` [4/7]

```
void cxcparamx::simple::get (
    const string & name,
    int & value ) const
```

Retrieve a parameter value into an int.

Parameters

in	<i>name</i>	parameter name
out	<i>value</i>	returned value

Exceptions

<i>Exception</i>	if parameter is not found
------------------	---------------------------

3.1.3.5 get() [5/7]

```
void cxcparamx::simple::get (
    const string & name,
    long & value ) const
```

Retrieve a parameter value into a long.

Parameters

in	<i>name</i>	parameter name
out	<i>value</i>	returned value

Exceptions

<i>Exception</i>	if parameter is not found
------------------	---------------------------

3.1.3.6 get() [6/7]

```
void cxcparamx::simple::get (
    const string & name,
    bool & value ) const
```

Retrieve a parameter value into an bool.

Parameters

in	<i>name</i>	parameter name
out	<i>value</i>	returned value

Exceptions

<i>Exception</i>	if parameter is not found
------------------	---------------------------

3.1.3.7 `get()` [7/7]

```
void cxcparamx::simple::get (
    const string & name,
    string & value ) const
```

Retrieve a parameter value into an string.

Parameters

in	<i>name</i>	parameter name
out	<i>value</i>	returned value

Exceptions

<i>Exception</i>	if parameter is not found
------------------	---------------------------

3.1.3.8 `getb()`

```
bool cxcparamx::simple::getb (
    const string & name ) const
```

Return a parameter value as an bool.

Parameters

in	<i>name</i>	parameter name
----	-------------	----------------

Exceptions

<i>Exception</i>	if parameter is not found
------------------	---------------------------

3.1.3.9 `getd()`

```
double cxcparamx::simple::getd (
    const string & name ) const
```

Return a parameter value as a double.

Parameters

in	<i>name</i>	parameter name
----	-------------	----------------

Exceptions

<i>Exception</i>	if parameter is not found
------------------	---------------------------

3.1.3.10 getf()

```
float cxcparamx::simple::getf (
    const string & name ) const
```

Return a parameter value as a float.

Parameters

in	<i>name</i>	parameter name
----	-------------	----------------

Exceptions

<i>Exception</i>	if parameter is not found
------------------	---------------------------

3.1.3.11 geti()

```
int cxcparamx::simple::geti (
    const string & name ) const
```

Return a parameter value as an int.

Parameters

in	<i>name</i>	parameter name
----	-------------	----------------

Exceptions

<i>Exception</i>	if parameter is not found
------------------	---------------------------

3.1.3.12 getl()

```
long cxcparamx::simple::getl (
    const string & name ) const
```

Return a parameter value as a long.

Parameters

in	<i>name</i>	parameter name
----	-------------	----------------

Exceptions

<i>Exception</i>	if parameter is not found
------------------	---------------------------

3.1.3.13 gets()

```
short cxcparamx::simple::gets (
    const string & name ) const
```

Return a parameter value as a short.

Parameters

in	<i>name</i>	parameter name
----	-------------	----------------

Exceptions

<i>Exception</i>	if parameter is not found
------------------	---------------------------

3.1.3.14 getstr()

```
string cxcparamx::simple::getstr (
    const string & name ) const
```

Return a parameter value as an string.

Parameters

in	<i>name</i>	parameter name
----	-------------	----------------

Exceptions

<i>Exception</i>	if parameter is not found
------------------	---------------------------

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

- simple.h
- simple.cc

Index

cxcpamx::simple, [5](#)

 get, [7–9](#)

 getb, [10](#)

 getd, [10](#)

 getf, [11](#)

 geti, [11](#)

 getl, [11](#)

 gets, [12](#)

 getstr, [12](#)

 simple, [6](#)

get

 cxcpamx::simple, [7–9](#)

getb

 cxcpamx::simple, [10](#)

getd

 cxcpamx::simple, [10](#)

getf

 cxcpamx::simple, [11](#)

geti

 cxcpamx::simple, [11](#)

getl

 cxcpamx::simple, [11](#)

gets

 cxcpamx::simple, [12](#)

getstr

 cxcpamx::simple, [12](#)

simple

 cxcpamx::simple, [6](#)