

gconfmm

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1 gconfmm Reference Manual	1
1.1 Description	1
1.2 Basic Usage	1
2 Topic Index	3
2.1 Topics	3
3 Namespace Index	5
3.1 Namespace List	5
4 Hierarchical Index	7
4.1 Class Hierarchy	7
5 Class Index	9
5.1 Class List	9
6 Topic Documentation	11
6.1 gconfmm Enums and Flags	11
6.1.1 Detailed Description	11
6.1.2 Enumeration Type Documentation	11
6.1.2.1 ClientErrorHandlingMode	11
6.1.2.2 ClientPreloadType	12
6.1.2.3 UnsetFlags	13
6.1.2.4 ValueType	13
7 Namespace Documentation	15
7.1 Glib Namespace Reference	15
7.2 Gnome Namespace Reference	15
7.3 Gnome::Conf Namespace Reference	15
7.3.1 Typedef Documentation	16
7.3.1.1 Callback	16
7.3.1.2 ValuePair	16
7.3.1.3 ValueTypePair	16
7.3.2 Function Documentation	16
7.3.2.1 init()	16
8 Class Documentation	17
8.1 Gnome::Conf::ChangeSet Class Reference	17
8.1.1 Detailed Description	19
8.1.2 Member Typedef Documentation	19
8.1.2.1 ForeachSlot	19
8.1.3 Constructor & Destructor Documentation	19
8.1.3.1 ChangeSet() [1/3]	19
8.1.3.2 ChangeSet() [2/3]	19
8.1.3.3 ChangeSet() [3/3]	19

8.1.3.4 ~ChangeSet()	19
8.1.4 Member Function Documentation	19
8.1.4.1 clear()	19
8.1.4.2 exists()	20
8.1.4.3 for_each()	20
8.1.4.4 gobj() [1/2]	20
8.1.4.5 gobj() [2/2]	20
8.1.4.6 gobj_copy()	20
8.1.4.7 operator=()	20
8.1.4.8 remove()	20
8.1.4.9 set() [1/6]	21
8.1.4.10 set() [2/6]	21
8.1.4.11 set() [3/6]	21
8.1.4.12 set() [4/6]	21
8.1.4.13 set() [5/6]	21
8.1.4.14 set() [6/6]	21
8.1.4.15 size()	22
8.1.4.16 unset()	22
8.1.5 Member Data Documentation	22
8.1.5.1 gobject_	22
8.2 Gnome::Conf::Client Class Reference	22
8.2.1 Detailed Description	26
8.2.2 Member Typedef Documentation	26
8.2.2.1 SListHandleBools	26
8.2.2.2 SListHandleFloats	26
8.2.2.3 SListHandleInts	26
8.2.3 Constructor & Destructor Documentation	26
8.2.3.1 ~Client()	26
8.2.4 Member Function Documentation	26
8.2.4.1 add_dir()	26
8.2.4.2 all_dirs()	27
8.2.4.3 all_entries()	27
8.2.4.4 change_set_commit()	27
8.2.4.5 change_set_from_current()	28
8.2.4.6 change_set_reverse()	28
8.2.4.7 clear_cache()	29
8.2.4.8 dir_exists()	29
8.2.4.9 error()	29
8.2.4.10 get()	29
8.2.4.11 get_bool()	30
8.2.4.12 get_bool_list()	30
8.2.4.13 get_client_for_engine()	30

8.2.4.14 get_default_client()	30
8.2.4.15 get_default_from_schema()	30
8.2.4.16 get_entry() [1/2]	31
8.2.4.17 get_entry() [2/2]	31
8.2.4.18 get_float()	32
8.2.4.19 get_float_list()	32
8.2.4.20 get_int()	32
8.2.4.21 get_int_list()	32
8.2.4.22 get_pair()	33
8.2.4.23 get_schema()	33
8.2.4.24 get_schema_list()	33
8.2.4.25 get_string()	34
8.2.4.26 get_string_list()	34
8.2.4.27 get_without_default()	34
8.2.4.28 gobj() [1/2]	34
8.2.4.29 gobj() [2/2]	34
8.2.4.30 gobj_copy()	35
8.2.4.31 key_is_writable()	35
8.2.4.32 notify()	35
8.2.4.33 notify_add()	35
8.2.4.34 notify_remove()	36
8.2.4.35 on_error()	36
8.2.4.36 on_unreturned_error()	36
8.2.4.37 on_value_changed()	36
8.2.4.38 preload()	37
8.2.4.39 recursive_unset()	37
8.2.4.40 remove_dir()	37
8.2.4.41 set() [1/6]	37
8.2.4.42 set() [2/6]	38
8.2.4.43 set() [3/6]	38
8.2.4.44 set() [4/6]	39
8.2.4.45 set() [5/6]	39
8.2.4.46 set() [6/6]	39
8.2.4.47 set_bool_list()	40
8.2.4.48 set_error_handling()	40
8.2.4.49 set_float_list()	40
8.2.4.50 set_int_list()	40
8.2.4.51 set_schema_list()	40
8.2.4.52 set_string_list()	40
8.2.4.53 signal_error()	41
8.2.4.54 signal_value_changed()	41
8.2.4.55 suggest_sync()	41

8.2.4.56 unset()	41
8.2.4.57 value_changed()	42
8.2.5 Friends And Related Symbol Documentation	42
8.2.5.1 wrap()	42
8.3 Gnome::Conf::Entry Class Reference	42
8.3.1 Detailed Description	43
8.3.2 Constructor & Destructor Documentation	44
8.3.2.1 Entry() [1/4]	44
8.3.2.2 Entry() [2/4]	44
8.3.2.3 Entry() [3/4]	44
8.3.2.4 ~Entry()	44
8.3.2.5 Entry() [4/4]	44
8.3.3 Member Function Documentation	44
8.3.3.1 get_is_default()	44
8.3.3.2 get_is_writable()	44
8.3.3.3 get_key()	44
8.3.3.4 get_schema_name()	45
8.3.3.5 get_value()	45
8.3.3.6 gobj() [1/2]	45
8.3.3.7 gobj() [2/2]	45
8.3.3.8 gobj_copy()	45
8.3.3.9 operator=()	45
8.3.3.10 set_is_default()	45
8.3.3.11 set_is_writable()	46
8.3.3.12 set_schema_name()	46
8.3.3.13 set_value()	46
8.3.4 Friends And Related Symbol Documentation	46
8.3.4.1 wrap()	46
8.3.5 Member Data Documentation	46
8.3.5.1 gobject_	46
8.4 Gnome::Conf::Error Class Reference	47
8.4.1 Detailed Description	48
8.4.2 Member Enumeration Documentation	48
8.4.2.1 Code	48
8.4.3 Constructor & Destructor Documentation	48
8.4.3.1 Error() [1/2]	48
8.4.3.2 Error() [2/2]	48
8.4.4 Member Function Documentation	49
8.4.4.1 code()	49
8.5 Gnome::Conf::Schema Class Reference	49
8.5.1 Constructor & Destructor Documentation	50
8.5.1.1 Schema() [1/3]	50

8.5.1.2 Schema() [2/3]	50
8.5.1.3 Schema() [3/3]	50
8.5.1.4 ~Schema()	50
8.5.2 Member Function Documentation	51
8.5.2.1 get_car_type()	51
8.5.2.2 get_cdr_type()	51
8.5.2.3 get_default_value()	51
8.5.2.4 get_list_type()	51
8.5.2.5 get_locale()	51
8.5.2.6 get_long_desc()	51
8.5.2.7 get_owner()	51
8.5.2.8 get_short_desc()	51
8.5.2.9 get_type()	51
8.5.2.10 gobj() [1/2]	51
8.5.2.11 gobj() [2/2]	52
8.5.2.12 gobj_copy()	52
8.5.2.13 operator=()	52
8.5.2.14 set_car_type()	52
8.5.2.15 set_cdr_type()	52
8.5.2.16 set_default_value()	52
8.5.2.17 set_list_type()	52
8.5.2.18 set_locale()	52
8.5.2.19 set_long_desc()	52
8.5.2.20 set_owner()	53
8.5.2.21 set_short_desc()	53
8.5.2.22 set_type()	53
8.5.3 Friends And Related Symbol Documentation	53
8.5.3.1 wrap()	53
8.5.4 Member Data Documentation	53
8.5.4.1 gobject_	53
8.6 Gnome::Conf::SetInterface Class Reference	54
8.6.1 Detailed Description	54
8.6.2 Member Function Documentation	55
8.6.2.1 set() [1/7]	55
8.6.2.2 set() [2/7]	55
8.6.2.3 set() [3/7]	55
8.6.2.4 set() [4/7]	55
8.6.2.5 set() [5/7]	55
8.6.2.6 set() [6/7]	55
8.6.2.7 set() [7/7]	56
8.6.2.8 set_bool_list()	56
8.6.2.9 set_float_list()	56

8.6.2.10 set_int_list()	56
8.6.2.11 set_schema_list()	56
8.6.2.12 set_string_list()	56
8.7 Gnome::Conf::Value Class Reference	57
8.7.1 Detailed Description	59
8.7.2 Constructor & Destructor Documentation	59
8.7.2.1 Value() [1/3]	59
8.7.2.2 Value() [2/3]	59
8.7.2.3 ~Value()	59
8.7.2.4 Value() [3/3]	59
8.7.3 Member Function Documentation	60
8.7.3.1 get_bool()	60
8.7.3.2 get_bool_list()	60
8.7.3.3 get_car()	60
8.7.3.4 get_cdr()	60
8.7.3.5 get_float()	60
8.7.3.6 get_float_list()	60
8.7.3.7 get_int()	61
8.7.3.8 get_int_list()	61
8.7.3.9 get_list_type()	61
8.7.3.10 get_schema()	61
8.7.3.11 get_schema_list()	61
8.7.3.12 get_string()	61
8.7.3.13 get_string_list()	62
8.7.3.14 get_type()	62
8.7.3.15 gobj() [1/2]	62
8.7.3.16 gobj() [2/2]	62
8.7.3.17 gobj_copy()	62
8.7.3.18 operator=()	62
8.7.3.19 set() [1/5]	62
8.7.3.20 set() [2/5]	63
8.7.3.21 set() [3/5]	63
8.7.3.22 set() [4/5]	63
8.7.3.23 set() [5/5]	63
8.7.3.24 set_bool_list()	63
8.7.3.25 set_car()	63
8.7.3.26 set_cdr()	64
8.7.3.27 set_float_list()	64
8.7.3.28 set_int_list()	64
8.7.3.29 set_list_type()	64
8.7.3.30 set_schema_list()	64
8.7.3.31 set_string_list()	65

8.7.3.32 to_string()	65
8.7.4 Friends And Related Symbol Documentation	65
8.7.4.1 wrap()	65
8.7.5 Member Data Documentation	65
8.7.5.1 gobject_	65
8.8 hash_load_check_resize_trigger_size_base Class Reference	66
8.9 lu_counter_policy_base Class Reference	66
8.10 mask_based_range_hashing Class Reference	67
8.11 mod_based_range_hashing Class Reference	67
Index	69

Chapter 1

gconfmm Reference Manual

1.1 Description

gconfmm is the official C++ interface for the GConf client API for storing and retrieving configuration data. See [Gnome::Conf::Client](#).

1.2 Basic Usage

Include the gconfmm header:

```
#include <gconfmm.h>
```

(You may include individual headers, such as `gconfmm/client.h` instead.)

If your source file is `program.cc`, you can compile it with:

```
g++ program.cc -o program `pkg-config --cflags --libs gconfmm-2.6`
```

Alternatively, if using `autoconf`, use the following in `configure.ac`:

```
PKG_CHECK_MODULES([GCONFMM], [gconfmm-2.4])
```

Then use the generated `GCONFMM_CFLAGS` and `GCONFMM_LIBS` variables in the project `Makefile.am` files. For example:

```
program_CPPFLAGS = $(GCONFMM_CFLAGS)
program_LDADD = $(GCONFMM_LIBS)
```


Chapter 2

Topic Index

2.1 Topics

Here is a list of all topics with brief descriptions:

gconfmm Enums and Flags	11
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Chapter 3

Namespace Index

3.1 Namespace List

Here is a list of all namespaces with brief descriptions:

Glib	15
Gnome	15
Gnome::Conf	15

Chapter 4

Hierarchical Index

4.1 Class Hierarchy

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

Glib::Error	
Gnome::Conf::Error	47
Glib::Object	
Gnome::Conf::Client	22
Gnome::Conf::Entry	42
Gnome::Conf::Schema	49
Gnome::Conf::SetInterface	54
Gnome::Conf::ChangeSet	17
Gnome::Conf::Client	22
Gnome::Conf::Value	57
hash_load_check_resize_trigger_size_base	66
lu_counter_policy_base	66
mask_based_range_hashing	67
mod_based_range_hashing	67

Chapter 5

Class Index

5.1 Class List

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

Gnome::Conf::ChangeSet	
A ChangeSet is a set of changes to the GConf database that can be committed and reversed easily	17
Gnome::Conf::Client	
The main Gnome::Conf object	22
Gnome::Conf::Entry	
An Entry stores an entry from a GConf "directory", including a key-value pair, the name of the Schema applicable to this entry, whether the value is a default value, and whether GConf can write a new value at this key	42
Gnome::Conf::Error	
Exception class for Gnome::Conf::Client errors	47
Gnome::Conf::Schema	49
Gnome::Conf::SetInterface	
Common Interface for key-value settable objects	54
Gnome::Conf::Value	
Wrapper for primitive types	57
hash_load_check_resize_trigger_size_base	66
lu_counter_policy_base	66
mask_based_range_hashing	67
mod_based_range_hashing	67

Chapter 6

Topic Documentation

6.1 gconfmm Enums and Flags

Enumerations

- enum `Gnome::Conf::ClientErrorHandlingMode` {
 `Gnome::Conf::CLIENT_HANDLE_NONE` ,
 `Gnome::Conf::CLIENT_HANDLE_UNRETURNED` ,
 `Gnome::Conf::CLIENT_HANDLE_ALL` }
- enum `Gnome::Conf::ClientPreloadType` {
 `Gnome::Conf::CLIENT_PRELOAD_NONE` ,
 `Gnome::Conf::CLIENT_PRELOAD_ONELEVEL` ,
 `Gnome::Conf::CLIENT_PRELOAD_RECURSIVE` }
- enum `Gnome::Conf::ValueType` {
 `Gnome::Conf::VALUE_INVALID` ,
 `Gnome::Conf::VALUE_STRING` ,
 `Gnome::Conf::VALUE_INT` ,
 `Gnome::Conf::VALUE_FLOAT` ,
 `Gnome::Conf::VALUE_BOOL` ,
 `Gnome::Conf::VALUE_SCHEMA` ,
 `Gnome::Conf::VALUE_LIST` ,
 `Gnome::Conf::VALUE_PAIR` }
- enum `Gnome::Conf::UnsetFlags` { `Gnome::Conf::UNSET_INCLUDING_SCHEMA_NAMES` }

6.1.1 Detailed Description

6.1.2 Enumeration Type Documentation

6.1.2.1 ClientErrorHandlingMode

enum `Gnome::Conf::ClientErrorHandlingMode`

Enumerator

CLIENT_HANDLE_NONE	
CLIENT_HANDLE_UNRETURNED	
CLIENT_HANDLE_ALL	

6.1.2.2 ClientPreloadType

```
enum Gnome::Conf::ClientPreloadType
```

Enumerator

CLIENT_PRELOAD_NONE	
CLIENT_PRELOAD_ONELEVEL	
CLIENT_PRELOAD_RECURSIVE	

6.1.2.3 UnsetFlags

```
enum Gnome::Conf::UnsetFlags
```

Enumerator

UNSET_INCLUDING_SCHEMA_NAMES	
------------------------------	--

6.1.2.4 ValueType

```
enum Gnome::Conf::ValueType
```

Enumerator

VALUE_INVALID	
VALUE_STRING	
VALUE_INT	
VALUE_FLOAT	
VALUE_BOOL	
VALUE_SCHEMA	
VALUE_LIST	
VALUE_PAIR	

Chapter 7

Namespace Documentation

7.1 Glib Namespace Reference

7.2 Gnome Namespace Reference

Namespaces

- namespace [Conf](#)

7.3 Gnome::Conf Namespace Reference

Classes

- class [ChangeSet](#)
A [ChangeSet](#) is a set of changes to the GConf database that can be committed and reversed easily.
- class [Client](#)
The main [Gnome::Conf](#) object.
- class [Entry](#)
An [Entry](#) stores an entry from a GConf "directory", including a key-value pair, the name of the [Schema](#) applicable to this entry, whether the value is a default value, and whether GConf can write a new value at this key.
- class [Error](#)
Exception class for [Gnome::Conf::Client](#) errors.
- class [Schema](#)
- class [SetInterface](#)
Common Interface for key-value settable objects.
- class [Value](#)
Wrapper for primitive types.

Typedefs

- typedef `std::pair< Value, Value >` [ValuePair](#)
- typedef `std::pair< ValueType, ValueType >` [ValueTypePair](#)
- typedef `sigc::slot< void, guint, Entry >` [Callback](#)

Enumerations

- enum `ClientErrorHandlingMode` {
`CLIENT_HANDLE_NONE` ,
`CLIENT_HANDLE_UNRETURNED` ,
`CLIENT_HANDLE_ALL` }
- enum `ClientPreloadType` {
`CLIENT_PRELOAD_NONE` ,
`CLIENT_PRELOAD_ONELEVEL` ,
`CLIENT_PRELOAD_RECURSIVE` }
- enum `ValueType` {
`VALUE_INVALID` ,
`VALUE_STRING` ,
`VALUE_INT` ,
`VALUE_FLOAT` ,
`VALUE_BOOL` ,
`VALUE_SCHEMA` ,
`VALUE_LIST` ,
`VALUE_PAIR` }
- enum `UnsetFlags` { `UNSET_INCLUDING_SCHEMA_NAMES` }

Functions

- void `init` ()
- `Glib::RefPtr< Gnome::Conf::Client > wrap` (`GConfClient *object`, `bool take_copy=false`)
A Glib::wrap() method for this object.
- `Gnome::Conf::Entry wrap` (`GConfEntry *object`, `bool take_copy=false`)
A Glib::wrap() method for this object.
- `Gnome::Conf::Schema wrap` (`GConfSchema *object`, `bool take_copy=false`)
A Glib::wrap() method for this object.
- `Gnome::Conf::Value wrap` (`GConfValue *object`, `bool take_copy=false`)
A Glib::wrap() method for this object.

7.3.1 Typedef Documentation

7.3.1.1 Callback

```
typedef sigc::slot<void, guint, Entry> Gnome::Conf::Callback
```

7.3.1.2 ValuePair

```
typedef std::pair<Value, Value> Gnome::Conf::ValuePair
```

7.3.1.3 ValueTypePair

```
typedef std::pair<ValueType, ValueType> Gnome::Conf::ValueTypePair
```

7.3.2 Function Documentation

7.3.2.1 init()

```
void Gnome::Conf::init ()
```

Chapter 8

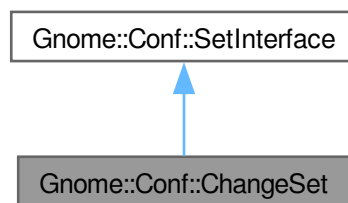
Class Documentation

8.1 Gnome::Conf::ChangeSet Class Reference

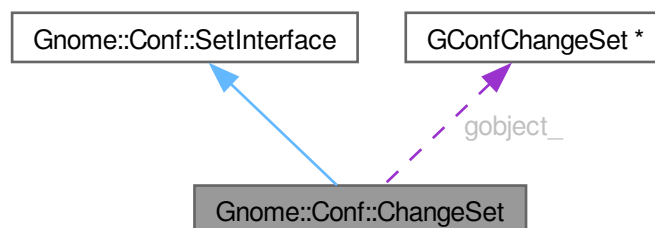
A [ChangeSet](#) is a set of changes to the GConf database that can be committed and reversed easily.

```
#include <gconfmm/changeset.h>
```

Inheritance diagram for Gnome::Conf::ChangeSet:



Collaboration diagram for Gnome::Conf::ChangeSet:



Public Types

- typedef sigc::slot< void, const Glib::ustring &, const [Value](#) & > [ForeachSlot](#)

Public Member Functions

- [ChangeSet](#) ()
- [ChangeSet](#) (GConfChangeSet *castitem, bool make_a_copy=false)
- [ChangeSet](#) (const [ChangeSet](#) &src)
- [ChangeSet](#) & [operator=](#) (const [ChangeSet](#) &src)
- virtual [~ChangeSet](#) ()
- GConfChangeSet * [gobj](#) ()
- const GConfChangeSet * [gobj](#) () const
- GConfChangeSet * [gobj_copy](#) () const
- void [clear](#) ()
Clear all entries.
- unsigned int [size](#) () const
Returns the number of keys in the changeset.
- void [remove](#) (const Glib::ustring &key)
Remove the specified key from the changeset.
- [Value](#) * [exists](#) (const Glib::ustring &key) const
Check whether the given key will be modified by a commit operation.
- void [unset](#) (const Glib::ustring &key)
Unset the given key.
- virtual void [set](#) (const Glib::ustring &key, const [Value](#) &value)
- virtual void [set](#) (const Glib::ustring &key, bool what)
- virtual void [set](#) (const Glib::ustring &key, int what)
- virtual void [set](#) (const Glib::ustring &key, double what)
- virtual void [set](#) (const Glib::ustring &key, const Glib::ustring &what)
- virtual void [set](#) (const Glib::ustring &key, const [Schema](#) &what)
- void [for_each](#) (const [ForeachSlot](#) &slot)
Iterate over the keys marked in this [ChangeSet](#).

Public Member Functions inherited from [Gnome::Conf::SetInterface](#)

- void [set](#) (const Glib::ustring &key, const [ValuePair](#) &pair)
- void [set_int_list](#) (const Glib::ustring &key, const SListHandle_ValueInt &list)
- void [set_bool_list](#) (const Glib::ustring &key, const SListHandle_ValueBool &list)
- void [set_float_list](#) (const Glib::ustring &key, const SListHandle_ValueFloat &list)
- void [set_string_list](#) (const Glib::ustring &key, const SListHandle_ValueString &list)
- void [set_schema_list](#) (const Glib::ustring &key, const SListHandle_ValueSchema &list)

Protected Attributes

- GConfChangeSet * [gobject_](#)

8.1.1 Detailed Description

A [ChangeSet](#) is a set of changes to the GConf database that can be committed and reversed easily.

The changes can be both set and unset operations. Currently the [ChangeSet](#) operations are not atomic, and not specially optimized for. However, it is suitable for use, for instance, preferences dialogs.

The `set*()` methods do not throw errors, they simply store the keys and the values.

See also

[Client::change_set_from_current\(\)](#), [Client::change_set_commit\(\)](#), [Client::change_set_reverse\(\)](#).

8.1.2 Member Typedef Documentation

8.1.2.1 ForeachSlot

```
sigc::slot<void, const Glib::ustring&, const Value&> Gnome::Conf::ChangeSet::ForeachSlot
```

8.1.3 Constructor & Destructor Documentation

8.1.3.1 ChangeSet() [1/3]

```
Gnome::Conf::ChangeSet::ChangeSet ()
```

8.1.3.2 ChangeSet() [2/3]

```
Gnome::Conf::ChangeSet::ChangeSet (
    GConfChangeSet * castitem,
    bool make_a_copy = false) [explicit]
```

8.1.3.3 ChangeSet() [3/3]

```
Gnome::Conf::ChangeSet::ChangeSet (
    const ChangeSet & src)
```

8.1.3.4 ~ChangeSet()

```
virtual Gnome::Conf::ChangeSet::~~ChangeSet () [virtual]
```

8.1.4 Member Function Documentation

8.1.4.1 clear()

```
void Gnome::Conf::ChangeSet::clear ()
```

Clear all entries.

After this method, committing the changeset is a no-op.

8.1.4.2 exists()

```
Value * Gnome::Conf::ChangeSet::exists (
    const Glib::ustring & key) const
```

Check whether the given key will be modified by a commit operation.

Returns

0 if the key will not be modified, else the modified value. Remember to delete the [Value](#).

8.1.4.3 for_each()

```
void Gnome::Conf::ChangeSet::for_each (
    const ForeachSlot & slot)
```

Iterate over the keys marked in this [ChangeSet](#).

Calls `slot` for each key-value pair that is marked in the [ChangeSet](#). Keys marked unset will have a [Value](#) with type `VALUE_INVALID`.

8.1.4.4 gobj() [1/2]

```
GConfChangeSet * Gnome::Conf::ChangeSet::gobj () [inline]
```

8.1.4.5 gobj() [2/2]

```
const GConfChangeSet * Gnome::Conf::ChangeSet::gobj () const [inline]
```

8.1.4.6 gobj_copy()

```
GConfChangeSet * Gnome::Conf::ChangeSet::gobj_copy () const
```

8.1.4.7 operator=()

```
ChangeSet & Gnome::Conf::ChangeSet::operator= (
    const ChangeSet & src)
```

8.1.4.8 remove()

```
void Gnome::Conf::ChangeSet::remove (
    const Glib::ustring & key)
```

Remove the specified key from the changeset.

This means that the given key will not be modified by a commit.

8.1.4.9 set() [1/6]

```
virtual void Gnome::Conf::ChangeSet::set (  
    const Glib::ustring & key,  
    bool what) [virtual]
```

Implements [Gnome::Conf::SetInterface](#).

8.1.4.10 set() [2/6]

```
virtual void Gnome::Conf::ChangeSet::set (  
    const Glib::ustring & key,  
    const Glib::ustring & what) [virtual]
```

Implements [Gnome::Conf::SetInterface](#).

8.1.4.11 set() [3/6]

```
virtual void Gnome::Conf::ChangeSet::set (  
    const Glib::ustring & key,  
    const Schema & what) [virtual]
```

Implements [Gnome::Conf::SetInterface](#).

8.1.4.12 set() [4/6]

```
virtual void Gnome::Conf::ChangeSet::set (  
    const Glib::ustring & key,  
    const Value & value) [virtual]
```

Implements [Gnome::Conf::SetInterface](#).

8.1.4.13 set() [5/6]

```
virtual void Gnome::Conf::ChangeSet::set (  
    const Glib::ustring & key,  
    double what) [virtual]
```

Implements [Gnome::Conf::SetInterface](#).

8.1.4.14 set() [6/6]

```
virtual void Gnome::Conf::ChangeSet::set (  
    const Glib::ustring & key,  
    int what) [virtual]
```

Implements [Gnome::Conf::SetInterface](#).

8.1.4.15 size()

```
unsigned int Gnome::Conf::ChangeSet::size () const
```

Returns the number of keys in the changeset.

8.1.4.16 unset()

```
void Gnome::Conf::ChangeSet::unset (
    const Glib::ustring & key)
```

Unset the given key.

Mark the key, so that it will be removed from the configuration database during a commit.

8.1.5 Member Data Documentation

8.1.5.1 gobject_

```
GConfChangeSet* Gnome::Conf::ChangeSet::gobject_ [protected]
```

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

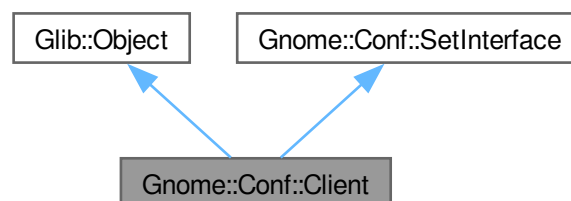
- gconfmm/changeset.h

8.2 Gnome::Conf::Client Class Reference

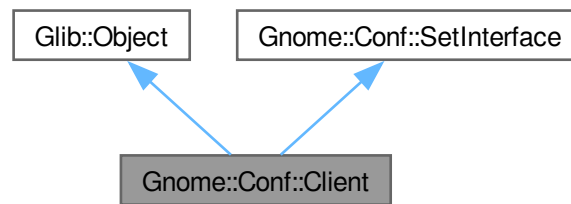
The main [Gnome::Conf](#) object.

```
#include <gconfmm/client.h>
```

Inheritance diagram for Gnome::Conf::Client:



Collaboration diagram for Gnome::Conf::Client:



Public Types

- typedef Glib::SListHandle< int, BasicTypeTraits< int > > [SListHandleInts](#)
- typedef Glib::SListHandle< bool, BasicTypeTraits< bool > > [SListHandleBools](#)
- typedef Glib::SListHandle< double, BasicTypeTraits< double > > [SListHandleFloats](#)

Public Member Functions

- virtual [~Client](#) ()
- GConfClient * [gobj](#) ()
 - Provides access to the underlying C GObject.*
- const GConfClient * [gobj](#) () const
 - Provides access to the underlying C GObject.*
- GConfClient * [gobj_copy](#) ()
 - Provides access to the underlying C instance. The caller is responsible for unrefing it. Use when directly setting fields in structs.*
- void [add_dir](#) (const Glib::ustring &dir, [ClientPreloadType](#) preload=CLIENT_PRELOAD_NONE)
 - Add a directory to the list of directories the [Client](#) will watch.*
- void [remove_dir](#) (const Glib::ustring &dir)
 - Remove a directory from the list of directories the [Client](#) will watch.*
- guint [notify_add](#) (const Glib::ustring &namespace_section, [Callback](#) callback)
 - Request notification of changes to namespace_section.*
- void [notify_remove](#) (guint cnxn)
 - Cancel a notification request.*
- void [notify](#) (const Glib::ustring &key)
 - Emits the value_changed signal and notifies listeners as if key had been changed.*
- void [set_error_handling](#) ([ClientErrorHandlingMode](#) mode)
- void [clear_cache](#) ()
 - Clear the client-side cache.*
- void [preload](#) (const Glib::ustring &dirname, [ClientPreloadType](#) type)
 - Preloads a directory.*
- [Value get](#) (const Glib::ustring &key) const
 - Get the value of a configuration key.*
- [Value get_without_default](#) (const Glib::ustring &key) const
 - Get the value of a configuration key, without falling back to the default if the key has not been set.*

- [Value get_default_from_schema](#) (const Glib::ustring &key) const
Get the default value of this key by looking it up in the appropriate schema.
- [Entry get_entry](#) (const Glib::ustring &key, bool use_schema_default=true) const
Get the complete [Entry](#) of the specified key.
- [Entry get_entry](#) (const Glib::ustring &key, const char *locale, bool use_schema_default=true) const
Get the complete [Entry](#) of the specified key.
- void [unset](#) (const Glib::ustring &key)
Unset a configuration key.
- void [recursive_unset](#) (const Glib::ustring &key, [UnsetFlags](#) flags=UNSET_INCLUDING_SCHEMA_NAMES)
Unsets all keys below key, including key itself.
- Glib::SListHandle< [Entry](#) > [all_entries](#) (const Glib::ustring &dir) const
Retrieve all keys in the given configuration directory.
- Glib::SListHandle< Glib::ustring > [all_dirs](#) (const Glib::ustring &dir) const
Retrieve all subdirectories of a given configuration directory.
- void [suggest_sync](#) ()
Suggest to the GConf server that a sync of cached data to stable storage would be appropriate now.
- bool [dir_exists](#) (const Glib::ustring &p1) const
Determine whether a given configuration directory exists.
- bool [key_is_writable](#) (const Glib::ustring &p1) const
Determine whether a given configuration key is writeable by the application.
- double [get_float](#) (const Glib::ustring &key) const
Get the float value at the given configuration key.
- gint [get_int](#) (const Glib::ustring &key) const
Get the integer at the given configuration key.
- bool [get_bool](#) (const Glib::ustring &key) const
Get the boolean at the given configuration key.
- Glib::ustring [get_string](#) (const Glib::ustring &key) const
Get the string at the given configuration key.
- [Schema get_schema](#) (const Glib::ustring &key) const
Get the [Schema](#) at the given configuration key.
- SListHandle_ValueInt [get_int_list](#) (const Glib::ustring &key) const
Get the list of integers at the given configuration key.
- SListHandle_ValueBool [get_bool_list](#) (const Glib::ustring &key) const
Get the list of booleans at the given configuration key.
- SListHandle_ValueFloat [get_float_list](#) (const Glib::ustring &key) const
Get the list of doubles at the given configuration key.
- SListHandle_ValueSchema [get_schema_list](#) (const Glib::ustring &key) const
Get the list of Schemas at the given configuration key.
- SListHandle_ValueString [get_string_list](#) (const Glib::ustring &key) const
Get the list of strings at the given configuration key.
- [ValuePair get_pair](#) (const Glib::ustring &key, [ValueTypePair](#) types) const
Get the pair at the given configuration key.
- void [set](#) (const Glib::ustring &key, int what)
Set the given configuration key to the specified integer value.
- void [set](#) (const Glib::ustring &key, bool what)
Set the given configuration key to the specified boolean value.
- void [set](#) (const Glib::ustring &key, double what)
Set the given configuration key to the specified double value.
- void [set](#) (const Glib::ustring &key, const Glib::ustring &what)
Set the given configuration key to the specified string.
- void [set](#) (const Glib::ustring &key, const [Schema](#) &what)

Set the given configuration key to the specified *Schema*.

- void `set` (const Glib::ustring &key, const *Value* &what)
- Set the given configuration key to the specified *Value*.
- void `set_int_list` (const Glib::ustring &key, const *SListHandleInts* &what)
- void `set_bool_list` (const Glib::ustring &key, const *SListHandleBools* &what)
- void `set_float_list` (const Glib::ustring &key, const *SListHandleFloats* &what)
- void `set_schema_list` (const Glib::ustring &key, const Glib::SListHandle< *Schema* > &what)
- void `set_string_list` (const Glib::ustring &key, const Glib::SListHandle< Glib::ustring > &what)
- *ChangeSet* `change_set_from_current` (const Glib::SArray &set)

Create a *ChangeSet* from the current values of the configuration database.

- void `change_set_commit` (*ChangeSet* &set, bool remove_committed)

Commit the *ChangeSet* to the configuration database.

- *ChangeSet* `change_set_reverse` (const *ChangeSet* &set)

Creates a *ChangeSet* to reverse the effects of the given *ChangeSet*.

- Glib::SignalProxy2< void, const Glib::ustring &, const *Value* & > `signal_value_changed` ()

A signal emitted when a value changes.

- void `value_changed` (const Glib::ustring &key, const *Value* &value)
- Glib::SignalProxy1< void, const Glib::Error & > `signal_error` ()

A signal emitted when an error occurs.

- void `error` (const Glib::Error &error)

Public Member Functions inherited from Gnome::Conf::SetInterface

- void `set` (const Glib::ustring &key, const *ValuePair* &pair)
- void `set_int_list` (const Glib::ustring &key, const *SListHandle_ValueInt* &list)
- void `set_bool_list` (const Glib::ustring &key, const *SListHandle_ValueBool* &list)
- void `set_float_list` (const Glib::ustring &key, const *SListHandle_ValueFloat* &list)
- void `set_string_list` (const Glib::ustring &key, const *SListHandle_ValueString* &list)
- void `set_schema_list` (const Glib::ustring &key, const *SListHandle_ValueSchema* &list)

Static Public Member Functions

- static Glib::RefPtr< *Client* > `get_default_client` ()
- Get the default client object for this application.
- static Glib::RefPtr< *Client* > `get_client_for_engine` (GConfEngine *engine)

Protected Member Functions

- virtual void `on_value_changed` (const Glib::ustring &key, const *Value* &value)
- virtual void `on_unreturned_error` (const Glib::Error &error)
- virtual void `on_error` (const Glib::Error &error)

Related Symbols

(Note that these are not member symbols.)

- Glib::RefPtr< *Gnome::Conf::Client* > `wrap` (GConfClient *object, bool take_copy=false)
- A *Glib::wrap()* method for this object.

8.2.1 Detailed Description

The main [Gnome::Conf](#) object.

This class allows you to interface with the [Gnome](#) configuration system. Generally, it stores key-value pairs. The keys have an hierarchical namespace, with elements separated by slashes. The values are either typed primitives (int, bool, string, float or a [Schema](#)), or lists of primitives or pairs of primitives (for limits on the compound values, see [Value](#)). For conventions on the names of keys, see the GConf documentation.

8.2.2 Member Typedef Documentation

8.2.2.1 SListHandleBools

```
Glib::SListHandle< bool, BasicTypeTraits<bool> > Gnome::Conf::Client::SListHandleBools
```

8.2.2.2 SListHandleFloats

```
Glib::SListHandle< double, BasicTypeTraits<double> > Gnome::Conf::Client::SListHandleFloats
```

8.2.2.3 SListHandleInts

```
Glib::SListHandle< int, BasicTypeTraits<int> > Gnome::Conf::Client::SListHandleInts
```

8.2.3 Constructor & Destructor Documentation

8.2.3.1 ~Client()

```
virtual Gnome::Conf::Client::~~Client () [virtual]
```

8.2.4 Member Function Documentation

8.2.4.1 add_dir()

```
void Gnome::Conf::Client::add\_dir (
    const Glib::ustring & dir,
    ClientPreloadType preload = CLIENT\_PRELOAD\_NONE)
```

Add a directory to the list of directories the [Client](#) will watch.

Any changes to keys below this directory will cause the "value_changed" signal to be emitted. When you add the directory, you can request that the [Client](#) preloads its contents - see [ClientPreloadType](#) for details.

Added directories may not overlap. That is, if you add "/foo", you may not add "/foo/bar". However you can add "/foo" and "/bar". You can also add "/foo" multiple times; if you add a directory multiple times, it will not be removed until you call [remove_dir\(\)](#) an equal number of times.

Parameters

<i>dir</i>	the directory to watch.
<i>preload</i>	the preload type (if any) to be performed.

8.2.4.2 all_dirs()

```
Glib::SListHandle< Glib::ustring > Gnome::Conf::Client::all_dirs (
    const Glib::ustring & dir) const
```

Retrieve all subdirectories of a given configuration directory.

Parameters

<i>dir</i>	the configuration directory to scan.
------------	--------------------------------------

Returns

a container with the names of the subdirectories.

Exceptions

<i>Gnome::Conf::Error.</i>	
----------------------------	--

8.2.4.3 all_entries()

```
Glib::SListHandle< Entry > Gnome::Conf::Client::all_entries (
    const Glib::ustring & dir) const
```

Retrieve all keys in the given configuration directory.

Get all the configuration keys in the given directory, without recursion.

Parameters

<i>dir</i>	the configuration directory to scan.
------------	--------------------------------------

Returns

a container with the names of the configuration keys.

Exceptions

<i>Gnome::Conf::Error.</i>	
----------------------------	--

8.2.4.4 change_set_commit()

```
void Gnome::Conf::Client::change_set_commit (
    ChangeSet & set,
    bool remove_committed)
```

Commit the [ChangeSet](#) to the configuration database.

Commits the configuration changes in the [ChangeSet](#) to the database. If `remove_committed` is `true`, all successfully committed keys will be removed from the [ChangeSet](#). If an error occurs, a [Gnome::Conf::Error](#) will be thrown. This operation is not atomic - an error will be thrown on the first error.

Parameters

<i>set</i>	the ChangeSet to commit.
<i>remove_committed</i>	whether to remove successfully-committed keys from the ChangeSet .

Exceptions

Gnome::Conf::Error	
------------------------------------	--

See also

[ChangeSet](#)

8.2.4.5 `change_set_from_current()`

```
ChangeSet Gnome::Conf::Client::change_set_from_current (  
    const Glib::SArray & set)
```

Create a [ChangeSet](#) from the current values of the configuration database.

Creates a [ChangeSet](#) containing the current values of all the keys listed in the `set`. For instance, this could be used in a preferences dialog as an undo operation.

Parameters

<i>set</i>	A container of the configuration keys to backup.
------------	--

Returns

the [ChangeSet](#) with the current values.

Exceptions

Gnome::Conf::Error	
------------------------------------	--

See also

[ChangeSet](#)

8.2.4.6 `change_set_reverse()`

```
ChangeSet Gnome::Conf::Client::change_set_reverse (  
    const ChangeSet & set)
```

Creates a [ChangeSet](#) to reverse the effects of the given [ChangeSet](#).

Creates a [ChangeSet](#) that contains the current values of the keys in `set`, effectively creating a back-up of the values in the database that will be modified when the `set` will be committed. For instance, this allows you to create a back-up changeset to use in case of errors, or an undo facility for preferences.

Parameters

<i>set</i>	the ChangeSet to reverse.
------------	---

Returns

the reverse [ChangeSet](#).

Exceptions

Gnome::Conf::Error	
------------------------------------	--

See also

[ChangeSet](#)

8.2.4.7 clear_cache()

```
void Gnome::Conf::Client::clear_cache ()
```

Clear the client-side cache.

8.2.4.8 dir_exists()

```
bool Gnome::Conf::Client::dir_exists (
    const Glib::ustring & p1) const
```

Determine whether a given configuration directory exists.

Returns

true if the directory exists.

Exceptions

Gnome::Conf::Error.	
-------------------------------------	--

8.2.4.9 error()

```
void Gnome::Conf::Client::error (
    const Glib::Error & error)
```

8.2.4.10 get()

```
Value Gnome::Conf::Client::get (
    const Glib::ustring & key) const
```

Get the value of a configuration key.

@parameter key: the configuration key to retrieve.

Returns

the [Value](#) of the key.

Exceptions

<i>Gnome::Conf::Error.</i>

8.2.4.11 get_bool()

```
bool Gnome::Conf::Client::get_bool (
    const Glib::ustring & key) const
```

Get the boolean at the given configuration key.

8.2.4.12 get_bool_list()

```
SListHandle_ValueBool Gnome::Conf::Client::get_bool_list (
    const Glib::ustring & key) const
```

Get the list of booleans at the given configuration key.

8.2.4.13 get_client_for_engine()

```
static Glib::RefPtr< Client > Gnome::Conf::Client::get_client_for_engine (
    GConfEngine * engine) [static]
```

8.2.4.14 get_default_client()

```
static Glib::RefPtr< Client > Gnome::Conf::Client::get_default_client () [static]
```

Get the default client object for this application.

The object is a Singleton, so you will always get the same instance. Most applications should use this.

8.2.4.15 get_default_from_schema()

```
Value Gnome::Conf::Client::get_default_from_schema (
    const Glib::ustring & key) const
```

Get the default value of this key by looking it up in the appropriate schema.

@parameter key: the configuration key to retrieve.

Returns

the default [Value](#) of the key.

Exceptions

<i>Gnome::Conf::Error.</i>

8.2.4.16 `get_entry()` [1/2]

```
Entry Gnome::Conf::Client::get_entry (  
    const Glib::ustring & key,  
    bool use_schema_default = true) const
```

Get the complete [Entry](#) of the specified key.

Uses the default locale

Parameters

<i>key</i>	the configuration key to retrieve.
<i>use_schema_default</i>	whether to fall back to the Schema default value if the specified configuration key has not been set.

Returns

an [Entry](#) for the corresponding configuration key.

Exceptions

<i>Gnome::Conf::Error.</i>

8.2.4.17 `get_entry()` [2/2]

```
Entry Gnome::Conf::Client::get_entry (  
    const Glib::ustring & key,  
    const char * locale,  
    bool use_schema_default = true) const
```

Get the complete [Entry](#) of the specified key.

Parameters

<i>key</i>	the configuration key to retrieve.
<i>locale</i>	the locale for the user-visible strings in the Entry 's Schema . Use 0 to use the default.
<i>use_schema_default</i>	whether to fall back to the Schema default value if the specified configuration key has not been set.

Returns

an [Entry](#) for the corresponding configuration key.

Exceptions

<i>Gnome::Conf::Error.</i>	
----------------------------	--

8.2.4.18 get_float()

```
double Gnome::Conf::Client::get_float (
    const Glib::ustring & key) const
```

Get the float value at the given configuration key.

Throws an error if the key does not contain the appropriate type.

Parameters

<i>key</i>	the configuration key to fetch.
------------	---------------------------------

Returns

the value at the specified configuration key.

Exceptions

<i>Gnome::Conf::Error</i>	
---	--

8.2.4.19 get_float_list()

```
SListHandle_ValueFloat Gnome::Conf::Client::get_float_list (
    const Glib::ustring & key) const
```

Get the list of doubles at the given configuration key.

8.2.4.20 get_int()

```
gint Gnome::Conf::Client::get_int (
    const Glib::ustring & key) const
```

Get the integer at the given configuration key.

8.2.4.21 get_int_list()

```
SListHandle_ValueInt Gnome::Conf::Client::get_int_list (
    const Glib::ustring & key) const
```

Get the list of integers at the given configuration key.

If the given key is not a list, or the list elements are not of the appropriate type, an error will be thrown.

Parameters

<i>key</i>	the configuration key that contains the list.
------------	---

Returns

a Glib::SListHandle of the appropriate type.

Exceptions

Gnome::Conf::Error	
------------------------------------	--

8.2.4.22 get_pair()

```
ValuePair Gnome::Conf::Client::get_pair (
    const Glib::ustring & key,
    ValueTypePair types) const
```

Get the pair at the given configuration key.

The pair's elements must have the types given in `types` respectively. If the value is not a pair or the types do not match, an error will be thrown.

Parameters

<i>key</i>	the configuration key that contains the pair.
<i>types</i>	a pair of the expected types of the values.

Returns

a ValuePair.

Exceptions

Gnome::Conf::Error	
------------------------------------	--

8.2.4.23 get_schema()

```
Schema Gnome::Conf::Client::get_schema (
    const Glib::ustring & key) const
```

Get the [Schema](#) at the given configuration key.

8.2.4.24 get_schema_list()

```
SListHandle_ValueSchema Gnome::Conf::Client::get_schema_list (
    const Glib::ustring & key) const
```

Get the list of Schemas at the given configuration key.

8.2.4.25 get_string()

```
Glib::ustring Gnome::Conf::Client::get_string (
    const Glib::ustring & key) const
```

Get the string at the given configuration key.

8.2.4.26 get_string_list()

```
SListHandle_ValueString Gnome::Conf::Client::get_string_list (
    const Glib::ustring & key) const
```

Get the list of strings at the given configuration key.

8.2.4.27 get_without_default()

```
Value Gnome::Conf::Client::get_without_default (
    const Glib::ustring & key) const
```

Get the value of a configuration key, without falling back to the default if the key has not been set.

In that case, the type of the value will be VALUE_INVALID.

Parameters

<i>key</i>	the configuration key to retrieve.
------------	------------------------------------

Returns

the [Value](#) of the key.

Exceptions

<i>Gnome::Conf::Error.</i>	
----------------------------	--

8.2.4.28 gobj() [1/2]

```
GConfClient * Gnome::Conf::Client::gobj () [inline]
```

Provides access to the underlying C GObject.

8.2.4.29 gobj() [2/2]

```
const GConfClient * Gnome::Conf::Client::gobj () const [inline]
```

Provides access to the underlying C GObject.

8.2.4.30 gobj_copy()

```
GConfClient * Gnome::Conf::Client::gobj_copy ()
```

Provides access to the underlying C instance. The caller is responsible for unrefing it. Use when directly setting fields in structs.

8.2.4.31 key_is_writable()

```
bool Gnome::Conf::Client::key_is_writable (
    const Glib::ustring & pl) const
```

Determine whether a given configuration key is writeable by the application.

Returns

true if the key is writeable.

Exceptions

<i>Gnome::Conf::Error.</i>	
----------------------------	--

8.2.4.32 notify()

```
void Gnome::Conf::Client::notify (
    const Glib::ustring & key)
```

Emits the value_changed signal and notifies listeners as if key had been changed.

Parameters

<i>key</i>	The key that has changed.
------------	---------------------------

@newin2p24

8.2.4.33 notify_add()

```
guint Gnome::Conf::Client::notify_add (
    const Glib::ustring & namespace_section,
    Callback callback)
```

Request notification of changes to namespace_section.

This includes the key namespace_section itself, and any keys below it. For the notification to happen, namespace_section must be equal to or below one of the directories added with [add_dir\(\)](#). You can still call [notify_add\(\)](#) for other directories, but no notification will be received until you add a directory above or equal to namespace_section. One implication of this is that [remove_dir\(\)](#) temporarily disables notifications that were below the removed directory.

The callback will be called with the key that changed and the [Entry](#) that holds the new [Value](#). If the [Value](#) has a type of VALUE_INVALID, then the key has been unset.

The function returns a connection ID you can use when calling [notify_remove\(\)](#).

Parameters

<i>namespace_section</i>	the namespace section for which notification is required.
<i>callback</i>	the sigc::slot to call when the a key under namespace_section changes.

Returns

a connection id that can be passed to [notify_remove\(\)](#) to cancel the notification request.

8.2.4.34 notify_remove()

```
void Gnome::Conf::Client::notify_remove (  
    guint cnxn)
```

Cancel a notification request.

Parameters

<i>cnxn</i>	a connection id, previously returned by notify_add()
-------------	--

See also

[notify_add\(\)](#)

8.2.4.35 on_error()

```
virtual void Gnome::Conf::Client::on_error (  
    const Glib::Error & error) [protected], [virtual]
```

8.2.4.36 on_unreturned_error()

```
virtual void Gnome::Conf::Client::on_unreturned_error (  
    const Glib::Error & error) [protected], [virtual]
```

8.2.4.37 on_value_changed()

```
virtual void Gnome::Conf::Client::on_value_changed (  
    const Glib::ustring & key,  
    const Value & value) [protected], [virtual]
```

8.2.4.38 preload()

```
void Gnome::Conf::Client::preload (
    const Glib::ustring & dirname,
    ClientPreloadType type)
```

Preloads a directory.

Normally this happens automatically with [add_dir\(\)](#), but if you've called [clear_cache\(\)](#) you may need to do it again.

See also

[add_dir\(\)](#)

8.2.4.39 recursive_unset()

```
void Gnome::Conf::Client::recursive_unset (
    const Glib::ustring & key,
    UnsetFlags flags = UNSET_INCLUDING_SCHEMA_NAMES)
```

Unsets all keys below *key*, including *key* itself.

If any unset fails, it continues on to unset as much as it can. The first failure is then thrown as an exception.

Parameters

<i>key</i>	The configuration key to unset.
<i>flags</i>	Change how the unset is done.

Exceptions

<i>Gnome::Conf::Error.</i>	
----------------------------	--

@newin2p24

8.2.4.40 remove_dir()

```
void Gnome::Conf::Client::remove_dir (
    const Glib::ustring & dir)
```

Remove a directory from the list of directories the [Client](#) will watch.

See also

[add_dir\(\)](#)

8.2.4.41 set() [1/6]

```
void Gnome::Conf::Client::set (
    const Glib::ustring & key,
    bool what) [virtual]
```

Set the given configuration key to the specified boolean value.

Set the given configuration key to the specified integer value.

Parameters

<i>key</i>	the configuration key to set.
<i>what</i>	the value to set it to.

Exceptions

Gnome::Conf::Error	
------------------------------------	--

Implements [Gnome::Conf::SetInterface](#).

8.2.4.42 set() [2/6]

```
void Gnome::Conf::Client::set (  
    const Glib::ustring & key,  
    const Glib::ustring & what) [virtual]
```

Set the given configuration key to the specified string.

Set the given configuration key to the specified integer value.

Parameters

<i>key</i>	the configuration key to set.
<i>what</i>	the value to set it to.

Exceptions

Gnome::Conf::Error	
------------------------------------	--

Implements [Gnome::Conf::SetInterface](#).

8.2.4.43 set() [3/6]

```
void Gnome::Conf::Client::set (  
    const Glib::ustring & key,  
    const Schema & what) [virtual]
```

Set the given configuration key to the specified [Schema](#).

Set the given configuration key to the specified integer value.

Parameters

<i>key</i>	the configuration key to set.
<i>what</i>	the value to set it to.

Exceptions

Gnome::Conf::Error	
------------------------------------	--

Implements [Gnome::Conf::SetInterface](#).

8.2.4.44 set() [4/6]

```
void Gnome::Conf::Client::set (  
    const Glib::ustring & key,  
    const Value & what) [virtual]
```

Set the given configuration key to the specified [Value](#).

Set the given configuration key to the specified integer value.

Parameters

<i>key</i>	the configuration key to set.
<i>what</i>	the value to set it to.

Exceptions

Gnome::Conf::Error	
------------------------------------	--

Implements [Gnome::Conf::SetInterface](#).

8.2.4.45 set() [5/6]

```
void Gnome::Conf::Client::set (  
    const Glib::ustring & key,  
    double what) [virtual]
```

Set the given configuration key to the specified double value.

Set the given configuration key to the specified integer value.

Parameters

<i>key</i>	the configuration key to set.
<i>what</i>	the value to set it to.

Exceptions

Gnome::Conf::Error	
------------------------------------	--

Implements [Gnome::Conf::SetInterface](#).

8.2.4.46 set() [6/6]

```
void Gnome::Conf::Client::set (  
    const Glib::ustring & key,  
    int what) [virtual]
```

Set the given configuration key to the specified integer value.

Parameters

<i>key</i>	the configuration key to set.
<i>what</i>	the value to set it to.

Exceptions

Gnome::Conf::Error	
------------------------------------	--

Implements [Gnome::Conf::SetInterface](#).

8.2.4.47 set_bool_list()

```
void Gnome::Conf::Client::set_bool_list (
    const Glib::ustring & key,
    const SListHandleBools & what)
```

8.2.4.48 set_error_handling()

```
void Gnome::Conf::Client::set_error_handling (
    ClientErrorHandlingMode mode)
```

8.2.4.49 set_float_list()

```
void Gnome::Conf::Client::set_float_list (
    const Glib::ustring & key,
    const SListHandleFloats & what)
```

8.2.4.50 set_int_list()

```
void Gnome::Conf::Client::set_int_list (
    const Glib::ustring & key,
    const SListHandleInts & what)
```

8.2.4.51 set_schema_list()

```
void Gnome::Conf::Client::set_schema_list (
    const Glib::ustring & key,
    const Glib::SListHandle< Schema > & what)
```

8.2.4.52 set_string_list()

```
void Gnome::Conf::Client::set_string_list (
    const Glib::ustring & key,
    const Glib::SListHandle< Glib::ustring > & what)
```

8.2.4.53 signal_error()

```
Glib::SignalProxy1< void, const Glib::Error & > Gnome::Conf::Client::signal_error ()
```

A signal emitted when an error occurs.

This signal will be emitted when an error occurs, right before the throw() of the error.

Prototype:

```
void on_my_error(const Glib::Error& error)
```

8.2.4.54 signal_value_changed()

```
Glib::SignalProxy2< void, const Glib::ustring &, const Value & > Gnome::Conf::Client::signal_value_changed ()
```

A signal emitted when a value changes.

This signal will only be called for directories added with [add_dir\(\)](#).

Prototype:

```
void on_my_value_changed(const Glib::ustring& key, const Value& value)
```

8.2.4.55 suggest_sync()

```
void Gnome::Conf::Client::suggest_sync ()
```

Suggest to the GConf server that a sync of cached data to stable storage would be appropriate now.

Exceptions

<i>Gnome::Conf::Error.</i>	
----------------------------	--

8.2.4.56 unset()

```
void Gnome::Conf::Client::unset (
    const Glib::ustring & key)
```

Unset a configuration key.

Parameters

<i>key</i>	the configuration key to unset.
------------	---------------------------------

Exceptions

<code>Gnome::Conf::Error.</code>	
----------------------------------	--

8.2.4.57 value_changed()

```
void Gnome::Conf::Client::value_changed (
    const Glib::ustring & key,
    const Value & value)
```

8.2.5 Friends And Related Symbol Documentation**8.2.5.1 wrap()**

```
Glib::RefPtr< Gnome::Conf::Client > wrap (
    GConfClient * object,
    bool take_copy = false) [related]
```

A Glib::wrap() method for this object.

Parameters

<i>object</i>	The C instance.
<i>take_copy</i>	False if the result should take ownership of the C instance. True if it should take a new copy or ref.

Returns

A C++ instance that wraps this C instance.

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

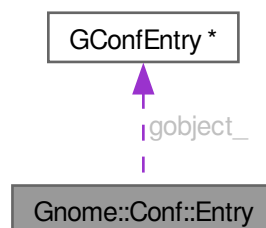
- gconfmm/client.h

8.3 Gnome::Conf::Entry Class Reference

An [Entry](#) stores an entry from a GConf "directory", including a key-value pair, the name of the [Schema](#) applicable to this entry, whether the value is a default value, and whether GConf can write a new value at this key.

```
#include <gconfmm/entry.h>
```

Collaboration diagram for Gnome::Conf::Entry:



Public Member Functions

- [Entry](#) ()
- [Entry](#) (GConfEntry *castitem, bool make_a_copy=false)
- [Entry](#) (const [Entry](#) &src)
- [Entry](#) & [operator=](#) (const [Entry](#) &src)
- [~Entry](#) ()
- GConfEntry * [gobj](#) ()
- const GConfEntry * [gobj](#) () const
- GConfEntry * [gobj_copy](#) () const

Provides access to the underlying C instance. The caller is responsible for freeing it. Use when directly setting fields in structs.
- [Entry](#) (const Glib::ustring &key, const [Value](#) &value)

*Construct an [Entry](#) with the given *key* and *value*.*
- void [set_value](#) (const [Value](#) &val)

Set the [Value](#) of the entry.
- void [set_schema_name](#) (const Glib::ustring &val)

Set the [Schema](#) name of the entry.
- void [set_is_default](#) (bool is_default=true)

Set whether the value has originated from the default given in the [Schema](#).
- void [set_is_writable](#) (bool is_writable=true)

Set whether the given configuration key is writeable.
- [Value](#) [get_value](#) () const

Retrieve the value of the entry.
- Glib::ustring [get_schema_name](#) () const

Retrieve the [Schema](#) name associated with the given entry.
- Glib::ustring [get_key](#) () const
- bool [get_is_default](#) () const
- bool [get_is_writable](#) () const

Protected Attributes

- GConfEntry * [gobject_](#)

Related Symbols

(Note that these are not member symbols.)

- [Gnome::Conf::Entry wrap](#) (GConfEntry *object, bool take_copy=false)

A [Glib::wrap\(\)](#) method for this object.

8.3.1 Detailed Description

An [Entry](#) stores an entry from a GConf "directory", including a key-value pair, the name of the [Schema](#) applicable to this entry, whether the value is a default value, and whether GConf can write a new value at this key.

The key should be an absolute key, not a relative key.

8.3.2 Constructor & Destructor Documentation

8.3.2.1 Entry() [1/4]

```
Gnome::Conf::Entry::Entry ()
```

8.3.2.2 Entry() [2/4]

```
Gnome::Conf::Entry::Entry (  
    GConfEntry * castitem,  
    bool make_a_copy = false) [explicit]
```

8.3.2.3 Entry() [3/4]

```
Gnome::Conf::Entry::Entry (  
    const Entry & src)
```

8.3.2.4 ~Entry()

```
Gnome::Conf::Entry::~Entry ()
```

8.3.2.5 Entry() [4/4]

```
Gnome::Conf::Entry::Entry (  
    const Glib::ustring & key,  
    const Value & value)
```

Construct an [Entry](#) with the given key and value.

8.3.3 Member Function Documentation

8.3.3.1 get_is_default()

```
bool Gnome::Conf::Entry::get_is_default () const
```

8.3.3.2 get_is_writable()

```
bool Gnome::Conf::Entry::get_is_writable () const
```

8.3.3.3 get_key()

```
Glib::ustring Gnome::Conf::Entry::get_key () const
```

8.3.3.4 get_schema_name()

```
Glib::ustring Gnome::Conf::Entry::get_schema_name () const
```

Retrieve the [Schema](#) name associated with the given entry.

8.3.3.5 get_value()

```
Value Gnome::Conf::Entry::get_value () const
```

Retrieve the value of the entry.

Returns

a copy the entry's value.

8.3.3.6 gobj() [1/2]

```
GConfEntry * Gnome::Conf::Entry::gobj () [inline]
```

8.3.3.7 gobj() [2/2]

```
const GConfEntry * Gnome::Conf::Entry::gobj () const [inline]
```

8.3.3.8 gobj_copy()

```
GConfEntry * Gnome::Conf::Entry::gobj_copy () const
```

Provides access to the underlying C instance. The caller is responsible for freeing it. Use when directly setting fields in structs.

8.3.3.9 operator=()

```
Entry & Gnome::Conf::Entry::operator= (  
    const Entry & src)
```

8.3.3.10 set_is_default()

```
void Gnome::Conf::Entry::set_is_default (  
    bool is_default = true)
```

Set whether the value has originated from the default given in the [Schema](#).

8.3.3.11 set_is_writable()

```
void Gnome::Conf::Entry::set_is_writable (
    bool is_writable = true)
```

Set whether the given configuration key is writeable.

8.3.3.12 set_schema_name()

```
void Gnome::Conf::Entry::set_schema_name (
    const Glib::ustring & val)
```

Set the [Schema](#) name of the entry.

8.3.3.13 set_value()

```
void Gnome::Conf::Entry::set_value (
    const Value & val)
```

Set the [Value](#) of the entry.

8.3.4 Friends And Related Symbol Documentation

8.3.4.1 wrap()

```
Gnome::Conf::Entry wrap (
    GConfEntry * object,
    bool take_copy = false) [related]
```

A Glib::wrap() method for this object.

Parameters

<i>object</i>	The C instance.
<i>take_copy</i>	False if the result should take ownership of the C instance. True if it should take a new copy or ref.

Returns

A C++ instance that wraps this C instance.

8.3.5 Member Data Documentation

8.3.5.1 gobject_

```
GConfEntry* Gnome::Conf::Entry::gobject_ [protected]
```

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

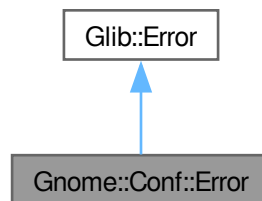
- gconfmm/entry.h

8.4 Gnome::Conf::Error Class Reference

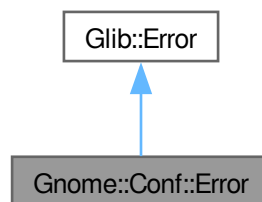
Exception class for [Gnome::Conf::Client](#) errors.

```
#include <gconfmm/client.h>
```

Inheritance diagram for Gnome::Conf::Error:



Collaboration diagram for Gnome::Conf::Error:



Public Types

- enum [Code](#) {
 [SUCCESS](#) = 0 ,
 [NO_SERVER](#) = 2 ,
 [NO_PERMISSION](#) = 3 ,
 [BAD_ADDRESS](#) = 4 ,
 [PARSE_ERROR](#) = 6 ,
 [CORRUPT](#) = 7 ,
 [TYPE_MISMATCH](#) = 8 ,
 [IS_DIR](#) = 9 ,
 [IS_KEY](#) = 10 ,
 [OVERRIDDEN](#) = 11 ,
 [OAF_ERROR](#) = 12 ,
 [LOCAL_ENGINE](#) = 13 ,
 [LOCK_FAILED](#) = 14 ,
 [NO_WRITABLE_DATABASE](#) = 15 ,
 [IN_SHUTDOWN](#) = 16 }

Public Member Functions

- [Error](#) ([Code](#) error_code, const Glib::ustring &error_message)
- [Error](#) (GError *gobject)
- [Code](#) code () const

8.4.1 Detailed Description

Exception class for [Gnome::Conf::Client](#) errors.

8.4.2 Member Enumeration Documentation

8.4.2.1 Code

```
enum Gnome::Conf::Error::Code
```

Enumerator

SUCCESS	
NO_SERVER	
NO_PERMISSION	
BAD_ADDRESS	
PARSE_ERROR	
CORRUPT	
TYPE_MISMATCH	
IS_DIR	
IS_KEY	
OVERRIDDEN	
OAF_ERROR	
LOCAL_ENGINE	
LOCK_FAILED	
NO_WRITABLE_DATABASE	
IN_SHUTDOWN	

8.4.3 Constructor & Destructor Documentation

8.4.3.1 Error() [1/2]

```
Gnome::Conf::Error::Error (
    Code error_code,
    const Glib::ustring & error_message)
```

8.4.3.2 Error() [2/2]

```
Gnome::Conf::Error::Error (
    GError * gobject) [explicit]
```

8.4.4 Member Function Documentation

8.4.4.1 code()

`Gnome::Conf::Error::code () const`

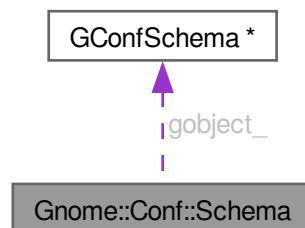
The documentation for this class was generated from the following file:

- gconfmm/client.h

8.5 Gnome::Conf::Schema Class Reference

```
#include <gconfmm/schema.h>
```

Collaboration diagram for Gnome::Conf::Schema:



Public Member Functions

- [Schema](#) ()
- [Schema](#) (GConfSchema *castitem, bool make_a_copy=false)
- [Schema](#) (const [Schema](#) &src)
- [Schema](#) & [operator=](#) (const [Schema](#) &src)
- [~Schema](#) ()
- GConfSchema * [gobj](#) ()
- const GConfSchema * [gobj](#) () const
- GConfSchema * [gobj_copy](#) () const

Provides access to the underlying C instance. The caller is responsible for freeing it. Use when directly setting fields in structs.

- void [set_type](#) (ValueType type)
- void [set_list_type](#) (ValueType type)
- void [set_car_type](#) (ValueType type)
- void [set_cdr_type](#) (ValueType type)
- void [set_locale](#) (const std::string &locale)
- void [set_short_desc](#) (const Glib::ustring &desc)
- void [set_long_desc](#) (const Glib::ustring &desc)
- void [set_owner](#) (const Glib::ustring &owner)

- void `set_default_value` (const `Value` &value)
- `ValueType` `get_type` () const
- `ValueType` `get_list_type` () const
- `ValueType` `get_car_type` () const
- `ValueType` `get_cdr_type` () const
- std::string `get_locale` () const
- Glib::ustring `get_short_desc` () const
- Glib::ustring `get_long_desc` () const
- Glib::ustring `get_owner` () const
- `Value` `get_default_value` () const

Protected Attributes

- GConfSchema * `gobject_`

Related Symbols

(Note that these are not member symbols.)

- `Gnome::Conf::Schema` `wrap` (GConfSchema *object, bool take_copy=false)
A Glib::wrap() method for this object.

8.5.1 Constructor & Destructor Documentation

8.5.1.1 Schema() [1/3]

```
Gnome::Conf::Schema::Schema ()
```

8.5.1.2 Schema() [2/3]

```
Gnome::Conf::Schema::Schema (
    GConfSchema * castitem,
    bool make_a_copy = false) [explicit]
```

8.5.1.3 Schema() [3/3]

```
Gnome::Conf::Schema::Schema (
    const Schema & src)
```

8.5.1.4 ~Schema()

```
Gnome::Conf::Schema::~Schema ()
```

8.5.2 Member Function Documentation

8.5.2.1 get_car_type()

ValueType Gnome::Conf::Schema::get_car_type () const

8.5.2.2 get_cdr_type()

ValueType Gnome::Conf::Schema::get_cdr_type () const

8.5.2.3 get_default_value()

Value Gnome::Conf::Schema::get_default_value () const

8.5.2.4 get_list_type()

ValueType Gnome::Conf::Schema::get_list_type () const

8.5.2.5 get_locale()

std::string Gnome::Conf::Schema::get_locale () const

8.5.2.6 get_long_desc()

Glib::ustring Gnome::Conf::Schema::get_long_desc () const

8.5.2.7 get_owner()

Glib::ustring Gnome::Conf::Schema::get_owner () const

8.5.2.8 get_short_desc()

Glib::ustring Gnome::Conf::Schema::get_short_desc () const

8.5.2.9 get_type()

ValueType Gnome::Conf::Schema::get_type () const

8.5.2.10 gobj() [1/2]

GConfSchema * Gnome::Conf::Schema::gobj () [inline]

8.5.2.11 gobj() [2/2]

```
const GConfSchema * Gnome::Conf::Schema::gobj () const [inline]
```

8.5.2.12 gobj_copy()

```
GConfSchema * Gnome::Conf::Schema::gobj_copy () const
```

Provides access to the underlying C instance. The caller is responsible for freeing it. Use when directly setting fields in structs.

8.5.2.13 operator=()

```
Schema & Gnome::Conf::Schema::operator= (  
    const Schema & src)
```

8.5.2.14 set_car_type()

```
void Gnome::Conf::Schema::set_car_type (  
    ValueType type)
```

8.5.2.15 set_cdr_type()

```
void Gnome::Conf::Schema::set_cdr_type (  
    ValueType type)
```

8.5.2.16 set_default_value()

```
void Gnome::Conf::Schema::set_default_value (  
    const Value & value)
```

8.5.2.17 set_list_type()

```
void Gnome::Conf::Schema::set_list_type (  
    ValueType type)
```

8.5.2.18 set_locale()

```
void Gnome::Conf::Schema::set_locale (  
    const std::string & locale)
```

8.5.2.19 set_long_desc()

```
void Gnome::Conf::Schema::set_long_desc (  
    const Glib::ustring & desc)
```

8.5.2.20 set_owner()

```
void Gnome::Conf::Schema::set_owner (
    const Glib::ustring & owner)
```

8.5.2.21 set_short_desc()

```
void Gnome::Conf::Schema::set_short_desc (
    const Glib::ustring & desc)
```

8.5.2.22 set_type()

```
void Gnome::Conf::Schema::set_type (
    ValueType type)
```

8.5.3 Friends And Related Symbol Documentation

8.5.3.1 wrap()

```
Gnome::Conf::Schema wrap (
    GConfSchema * object,
    bool take_copy = false) [related]
```

A Glib::wrap() method for this object.

Parameters

<i>object</i>	The C instance.
<i>take_copy</i>	False if the result should take ownership of the C instance. True if it should take a new copy or ref.

Returns

A C++ instance that wraps this C instance.

8.5.4 Member Data Documentation

8.5.4.1 gobject_

```
GConfSchema* Gnome::Conf::Schema::gobject_ [protected]
```

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

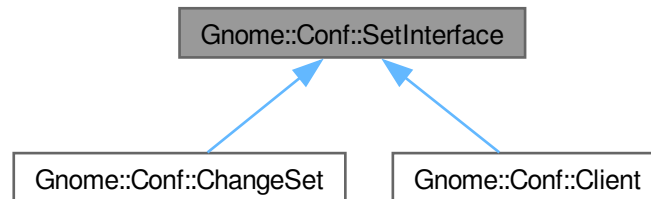
- gconfmm/schema.h

8.6 Gnome::Conf::SetInterface Class Reference

Common Interface for key-value settable objects.

```
#include <gconfmm/setinterface.h>
```

Inheritance diagram for Gnome::Conf::SetInterface:



Public Member Functions

- virtual void [set](#) (const Glib::ustring &key, const [Value](#) &value)=0
- virtual void [set](#) (const Glib::ustring &key, bool what)=0
- virtual void [set](#) (const Glib::ustring &key, int what)=0
- virtual void [set](#) (const Glib::ustring &key, double what)=0
- virtual void [set](#) (const Glib::ustring &key, const Glib::ustring &what)=0
- virtual void [set](#) (const Glib::ustring &key, const [Schema](#) &what)=0
- void [set](#) (const Glib::ustring &key, const [ValuePair](#) &pair)
- void [set_int_list](#) (const Glib::ustring &key, const SListHandle_ValueInt &list)
- void [set_bool_list](#) (const Glib::ustring &key, const SListHandle_ValueBool &list)
- void [set_float_list](#) (const Glib::ustring &key, const SListHandle_ValueFloat &list)
- void [set_string_list](#) (const Glib::ustring &key, const SListHandle_ValueString &list)
- void [set_schema_list](#) (const Glib::ustring &key, const SListHandle_ValueSchema &list)

8.6.1 Detailed Description

Common Interface for key-value settable objects.

This class defines a common interface for GConfmm objects that implement the `set()` methods for configuration keys. It also provides the implementations for the `set_*_list()` family of methods.

The only classes that support this interface are [Client](#) and [ChangeSet](#).

The `set_*_list()` methods take as a parameter any STL-compatible container that has the appropriate `value_type`.

8.6.2 Member Function Documentation

8.6.2.1 set() [1/7]

```
virtual void Gnome::Conf::SetInterface::set (  
    const Glib::ustring & key,  
    bool what) [pure virtual]
```

Implemented in [Gnome::Conf::ChangeSet](#), and [Gnome::Conf::Client](#).

8.6.2.2 set() [2/7]

```
virtual void Gnome::Conf::SetInterface::set (  
    const Glib::ustring & key,  
    const Glib::ustring & what) [pure virtual]
```

Implemented in [Gnome::Conf::ChangeSet](#), and [Gnome::Conf::Client](#).

8.6.2.3 set() [3/7]

```
virtual void Gnome::Conf::SetInterface::set (  
    const Glib::ustring & key,  
    const Schema & what) [pure virtual]
```

Implemented in [Gnome::Conf::ChangeSet](#), and [Gnome::Conf::Client](#).

8.6.2.4 set() [4/7]

```
virtual void Gnome::Conf::SetInterface::set (  
    const Glib::ustring & key,  
    const Value & value) [pure virtual]
```

Implemented in [Gnome::Conf::ChangeSet](#), and [Gnome::Conf::Client](#).

8.6.2.5 set() [5/7]

```
void Gnome::Conf::SetInterface::set (  
    const Glib::ustring & key,  
    const ValuePair & pair)
```

8.6.2.6 set() [6/7]

```
virtual void Gnome::Conf::SetInterface::set (  
    const Glib::ustring & key,  
    double what) [pure virtual]
```

Implemented in [Gnome::Conf::ChangeSet](#), and [Gnome::Conf::Client](#).

8.6.2.7 set() [7/7]

```
virtual void Gnome::Conf::SetInterface::set (
    const Glib::ustring & key,
    int what) [pure virtual]
```

Implemented in [Gnome::Conf::ChangeSet](#), and [Gnome::Conf::Client](#).

8.6.2.8 set_bool_list()

```
void Gnome::Conf::SetInterface::set_bool_list (
    const Glib::ustring & key,
    const SListHandle_ValueBool & list)
```

8.6.2.9 set_float_list()

```
void Gnome::Conf::SetInterface::set_float_list (
    const Glib::ustring & key,
    const SListHandle_ValueFloat & list)
```

8.6.2.10 set_int_list()

```
void Gnome::Conf::SetInterface::set_int_list (
    const Glib::ustring & key,
    const SListHandle_ValueInt & list)
```

8.6.2.11 set_schema_list()

```
void Gnome::Conf::SetInterface::set_schema_list (
    const Glib::ustring & key,
    const SListHandle_ValueSchema & list)
```

8.6.2.12 set_string_list()

```
void Gnome::Conf::SetInterface::set_string_list (
    const Glib::ustring & key,
    const SListHandle_ValueString & list)
```

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

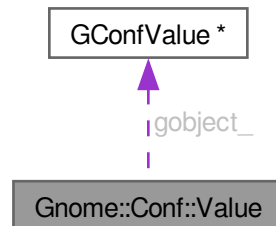
- gconfmm/setinterface.h

8.7 Gnome::Conf::Value Class Reference

Wrapper for primitive types.

```
#include <gconfmm/value.h>
```

Collaboration diagram for Gnome::Conf::Value:



Public Member Functions

- [Value](#) (GConfValue *castitem, bool make_a_copy=false)
- [Value](#) (const [Value](#) &src)
- [Value](#) & [operator=](#) (const [Value](#) &src)
- [~Value](#) ()
- GConfValue * [gobj](#) ()
- const GConfValue * [gobj](#) () const
- GConfValue * [gobj_copy](#) () const

Provides access to the underlying C instance. The caller is responsible for freeing it. Use when directly setting fields in structs.
- [Value](#) (ValueType type=VALUE_INVALID)

Create a [Value](#).
- void [set](#) (gint val)

Set the integer value of a [Value](#) whose type is VALUE_INT.
- void [set](#) (gdouble val)

Set the float value of a [Value](#) whose type is VALUE_FLOAT.
- void [set](#) (bool val)

Set the boolean value of a [Value](#) whose type is VALUE_BOOL.
- void [set](#) (const [Schema](#) &sc)

Set the [Schema](#) of a [Value](#) whose type is VALUE_SCHEMA.
- void [set_car](#) (const [Value](#) &car)

Set the car (in a pair, the first element) of a [Value](#) whose type is VALUE_PAIR.
- void [set_cdr](#) (const [Value](#) &cdr)

Set the cdr (in a pair, the second element) of a [Value](#) whose type is VALUE_PAIR.
- void [set](#) (const Glib::ustring &val)

Set the string of a [Value](#) whose type is VALUE_STRING.
- void [set_list_type](#) (ValueType type)

Sets the type of the elements of a [Value](#) with type VALUE_LIST.

- void [set_int_list](#) (const SListHandle_ValueInt &list)
Sets the [Value](#) to contain a list of integers.
- void [set_bool_list](#) (const SListHandle_ValueBool &list)
Sets the [Value](#) to contain a list of bools.
- void [set_float_list](#) (const SListHandle_ValueFloat &list)
Sets the [Value](#) to contain a list of doubles.
- void [set_string_list](#) (const SListHandle_ValueString &list)
Sets the [Value](#) to contain a list of strings.
- void [set_schema_list](#) (const SListHandle_ValueSchema &list)
Sets the [Value](#) to contain a list of [Schema](#).
- [ValueType](#) [get_type](#) () const
Get the type of the [Value](#).
- [ValueType](#) [get_list_type](#) () const
Get the type of the list elements of the [Value](#).
- int [get_int](#) () const
Get the integer that the [Value](#) contains.
- bool [get_bool](#) () const
Get the boolean that the [Value](#) contains.
- double [get_float](#) () const
Get the double that the [Value](#) contains.
- Glib::ustring [get_string](#) () const
Get the string that the [Value](#) contains.
- [Schema](#) [get_schema](#) () const
Get a copy of the [Schema](#) of the value.
- [Value](#) [get_car](#) () const
Get a copy of the car of a [VALUE_PAIR](#) [Value](#).
- [Value](#) [get_cdr](#) () const
Get a copy of the cdr of a [VALUE_PAIR](#) [Value](#).
- SListHandle_ValueFloat [get_float_list](#) () const
Gets a list of doubles from the [Value](#).
- SListHandle_ValueInt [get_int_list](#) () const
Retrieves the list of integers from the [Value](#).
- SListHandle_ValueBool [get_bool_list](#) () const
Retrieves the list of booleans from the [Value](#).
- SListHandle_ValueString [get_string_list](#) () const
Retrieves the list of strings from the [Value](#).
- SListHandle_ValueSchema [get_schema_list](#) () const
Retrieves the list of Schemas from the [Value](#).
- Glib::ustring [to_string](#) () const
Convert the [Value](#) to a string.

Protected Attributes

- GConfValue * [gobject_](#)

Related Symbols

(Note that these are not member symbols.)

- [Gnome::Conf::Value](#) [wrap](#) (GConfValue *object, bool take_copy=false)
A [Glib::wrap\(\)](#) method for this object.

8.7.1 Detailed Description

Wrapper for primitive types.

This class wraps the primitive types that are passed to and from instances of [Gnome::Conf::Client](#). It has an associated `ValueType`, which is specified at creation time, but can be changed with assignment. If the type is `VALUE_INVALID` then the effect of the set and get methods is undefined. Using a default-constructed [Value](#) without using any of the set methods produces undefined behaviour.

Compound Values of type `VALUE_PAIR` and `VALUE_LIST` can only have elements whose types are neither `VALUE_PAIR` or `VALUE_LIST` - they can only have primitive types.

The [Value](#) class has copy-by-value semantics - all arguments to the set methods are copied.

Note that while the type is named `VALUE_FLOAT`, the accessors for floating-point values use `double`, not `float`, to preserve accuracy.

8.7.2 Constructor & Destructor Documentation

8.7.2.1 Value() [1/3]

```
Gnome::Conf::Value::Value (
    GConfValue * castitem,
    bool make_a_copy = false) [explicit]
```

8.7.2.2 Value() [2/3]

```
Gnome::Conf::Value::Value (
    const Value & src)
```

8.7.2.3 ~Value()

```
Gnome::Conf::Value::~Value ()
```

8.7.2.4 Value() [3/3]

```
Gnome::Conf::Value::Value (
    ValueType type = VALUE_INVALID)
```

Create a [Value](#).

You should call a `set()` method before using the [Value](#).

Parameters

<i>type</i>	The type of the produced value.
-------------	---------------------------------

8.7.3 Member Function Documentation

8.7.3.1 `get_bool()`

```
bool Gnome::Conf::Value::get_bool () const
```

Get the boolean that the [Value](#) contains.

8.7.3.2 `get_bool_list()`

```
SListHandle_ValueBool Gnome::Conf::Value::get_bool_list () const
```

Retrieves the list of booleans from the [Value](#).

See also

[get_float_list](#)

8.7.3.3 `get_car()`

```
Value Gnome::Conf::Value::get_car () const
```

Get a copy of the car of a VALUE_PAIR [Value](#).

8.7.3.4 `get_cdr()`

```
Value Gnome::Conf::Value::get_cdr () const
```

Get a copy of the cdr of a VALUE_PAIR [Value](#).

8.7.3.5 `get_float()`

```
double Gnome::Conf::Value::get_float () const
```

Get the double that the [Value](#) contains.

8.7.3.6 `get_float_list()`

```
SListHandle_ValueFloat Gnome::Conf::Value::get_float_list () const
```

Gets a list of doubles from the [Value](#).

Typical usage is

```
std::vector<double> foo = value.get_float_list();
```

.

Returns

: an STL-compatible container with doubles as its value type. Assign to an **std::vector**, list or deque for proper use.

8.7.3.7 get_int()

```
int Gnome::Conf::Value::get_int () const
```

Get the integer that the [Value](#) contains.

8.7.3.8 get_int_list()

```
SListHandle_ValueInt Gnome::Conf::Value::get_int_list () const
```

Retrieves the list of integers from the [Value](#).

See also

[get_float_list](#)

8.7.3.9 get_list_type()

```
ValueType Gnome::Conf::Value::get_list_type () const
```

Get the type of the list elements of the [Value](#).

Do not call this method on non-list Values.

Returns

the type of the list elements.

8.7.3.10 get_schema()

```
Schema Gnome::Conf::Value::get_schema () const
```

Get a copy of the [Schema](#) of the value.

8.7.3.11 get_schema_list()

```
SListHandle_ValueSchema Gnome::Conf::Value::get_schema_list () const
```

Retrieves the list of Schemas from the [Value](#).

@See [get_float_list](#)

8.7.3.12 get_string()

```
Glib::ustring Gnome::Conf::Value::get_string () const
```

Get the string that the [Value](#) contains.

8.7.3.13 `get_string_list()`

```
SListHandle_ValueString Gnome::Conf::Value::get_string_list () const
```

Retrieves the list of strings from the [Value](#).

See also

[get_float_list](#)

8.7.3.14 `get_type()`

```
ValueType Gnome::Conf::Value::get_type () const
```

Get the type of the [Value](#).

Returns

the type of the [Value](#)

8.7.3.15 `gobj()` [1/2]

```
GConfValue * Gnome::Conf::Value::gobj () [inline]
```

8.7.3.16 `gobj()` [2/2]

```
const GConfValue * Gnome::Conf::Value::gobj () const [inline]
```

8.7.3.17 `gobj_copy()`

```
GConfValue * Gnome::Conf::Value::gobj_copy () const
```

Provides access to the underlying C instance. The caller is responsible for freeing it. Use when directly setting fields in structs.

8.7.3.18 `operator=()`

```
Value & Gnome::Conf::Value::operator= (  
    const Value & src)
```

8.7.3.19 `set()` [1/5]

```
void Gnome::Conf::Value::set (  
    bool val)
```

Set the boolean value of a [Value](#) whose type is VALUE_BOOL.

8.7.3.20 set() [2/5]

```
void Gnome::Conf::Value::set (
    const Glib::ustring & val)
```

Set the string of a [Value](#) whose type is VALUE_STRING.

8.7.3.21 set() [3/5]

```
void Gnome::Conf::Value::set (
    const Schema & sc)
```

Set the [Schema](#) of a [Value](#) whose type is VALUE_SCHEMA.

8.7.3.22 set() [4/5]

```
void Gnome::Conf::Value::set (
    gdouble val)
```

Set the float value of a [Value](#) whose type is VALUE_FLOAT.

Parameters

<i>val</i>	the double this Value will be se to.
------------	--

8.7.3.23 set() [5/5]

```
void Gnome::Conf::Value::set (
    gint val)
```

Set the integer value of a [Value](#) whose type is VALUE_INT.

8.7.3.24 set_bool_list()

```
void Gnome::Conf::Value::set_bool_list (
    const SListHandle_ValueBool & list)
```

Sets the [Value](#) to contain a list of bools.

See also

[set_int_list](#)

8.7.3.25 set_car()

```
void Gnome::Conf::Value::set_car (
    const Value & car)
```

Set the car (in a pair, the first element) of a [Value](#) whose type is VALUE_PAIR.

8.7.3.26 set_cdr()

```
void Gnome::Conf::Value::set_cdr (
    const Value & cdr)
```

Set the cdr (in a pair, the second element) of a [Value](#) whose type is VALUE_PAIR.

8.7.3.27 set_float_list()

```
void Gnome::Conf::Value::set_float_list (
    const SListHandle_ValueFloat & list)
```

Sets the [Value](#) to contain a list of doubles.

See also

[set_int_list](#)

8.7.3.28 set_int_list()

```
void Gnome::Conf::Value::set_int_list (
    const SListHandle_ValueInt & list)
```

Sets the [Value](#) to contain a list of integers.

set_list_type(VALUE_INT) must have been called prior this call.

Parameters

<i>list</i>	an STL-compatible container whose value_type is int
-------------	---

8.7.3.29 set_list_type()

```
void Gnome::Conf::Value::set_list_type (
    ValueType type)
```

Sets the type of the elements of a [Value](#) with type VALUE_LIST.

8.7.3.30 set_schema_list()

```
void Gnome::Conf::Value::set_schema_list (
    const SListHandle_ValueSchema & list)
```

Sets the [Value](#) to contain a list of [Schema](#).

See also

[set_int_list](#)

8.7.3.31 set_string_list()

```
void Gnome::Conf::Value::set_string_list (
    const SListHandle_ValueString & list)
```

Sets the [Value](#) to contain a list of strings.

See also

[set_int_list](#)

8.7.3.32 to_string()

```
Glib::ustring Gnome::Conf::Value::to_string () const
```

Convert the [Value](#) to a string.

The string is not machine-parseable. Do not depend on the format of the string.

8.7.4 Friends And Related Symbol Documentation

8.7.4.1 wrap()

```
Gnome::Conf::Value wrap (
    GConfValue * object,
    bool take_copy = false) [related]
```

A Glib::wrap() method for this object.

Parameters

<i>object</i>	The C instance.
<i>take_copy</i>	False if the result should take ownership of the C instance. True if it should take a new copy or ref.

Returns

A C++ instance that wraps this C instance.

8.7.5 Member Data Documentation

8.7.5.1 gobject_

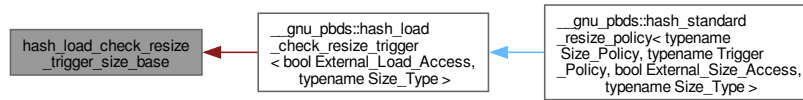
```
GConfValue* Gnome::Conf::Value::gobject_ [protected]
```

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

- gconfmm/value.h

8.8 hash_load_check_resize_trigger_size_base Class Reference

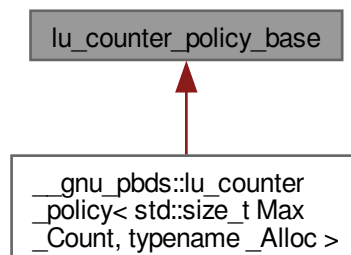
Inheritance diagram for hash_load_check_resize_trigger_size_base:



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

8.9 lu_counter_policy_base Class Reference

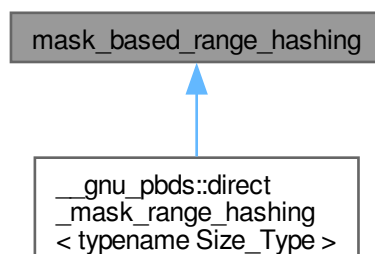
Inheritance diagram for lu_counter_policy_base:



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

8.10 mask_based_range_hashing Class Reference

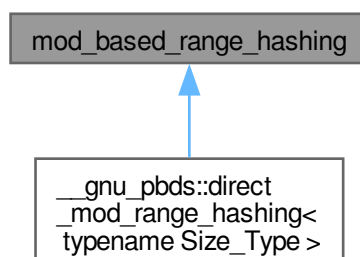
Inheritance diagram for mask_based_range_hashing:



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

8.11 mod_based_range_hashing Class Reference

Inheritance diagram for mod_based_range_hashing:



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

Index

- ~ChangeSet
 - Gnome::Conf::ChangeSet, [19](#)
- ~Client
 - Gnome::Conf::Client, [26](#)
- ~Entry
 - Gnome::Conf::Entry, [44](#)
- ~Schema
 - Gnome::Conf::Schema, [50](#)
- ~Value
 - Gnome::Conf::Value, [59](#)
- add_dir
 - Gnome::Conf::Client, [26](#)
- all_dirs
 - Gnome::Conf::Client, [27](#)
- all_entries
 - Gnome::Conf::Client, [27](#)
- BAD_ADDRESS
 - Gnome::Conf::Error, [48](#)
- Callback
 - Gnome::Conf, [16](#)
- change_set_commit
 - Gnome::Conf::Client, [27](#)
- change_set_from_current
 - Gnome::Conf::Client, [28](#)
- change_set_reverse
 - Gnome::Conf::Client, [28](#)
- ChangeSet
 - Gnome::Conf::ChangeSet, [19](#)
- clear
 - Gnome::Conf::ChangeSet, [19](#)
- clear_cache
 - Gnome::Conf::Client, [29](#)
- CLIENT_HANDLE_ALL
 - gconfmm Enums and Flags, [11](#)
- CLIENT_HANDLE_NONE
 - gconfmm Enums and Flags, [11](#)
- CLIENT_HANDLE_UNRETURNED
 - gconfmm Enums and Flags, [11](#)
- CLIENT_PRELOAD_NONE
 - gconfmm Enums and Flags, [13](#)
- CLIENT_PRELOAD_ONELEVEL
 - gconfmm Enums and Flags, [13](#)
- CLIENT_PRELOAD_RECURSIVE
 - gconfmm Enums and Flags, [13](#)
- ClientErrorHandlingMode
 - gconfmm Enums and Flags, [11](#)
- ClientPreloadType
- gconfmm Enums and Flags, [11](#)
- Code
 - Gnome::Conf::Error, [48](#)
- code
 - Gnome::Conf::Error, [49](#)
- CORRUPT
 - Gnome::Conf::Error, [48](#)
- dir_exists
 - Gnome::Conf::Client, [29](#)
- Entry
 - Gnome::Conf::Entry, [44](#)
- Error
 - Gnome::Conf::Error, [48](#)
- error
 - Gnome::Conf::Client, [29](#)
- exists
 - Gnome::Conf::ChangeSet, [19](#)
- for_each
 - Gnome::Conf::ChangeSet, [20](#)
- ForeachSlot
 - Gnome::Conf::ChangeSet, [19](#)
- gconfmm Enums and Flags, [11](#)
 - CLIENT_HANDLE_ALL, [11](#)
 - CLIENT_HANDLE_NONE, [11](#)
 - CLIENT_HANDLE_UNRETURNED, [11](#)
 - CLIENT_PRELOAD_NONE, [13](#)
 - CLIENT_PRELOAD_ONELEVEL, [13](#)
 - CLIENT_PRELOAD_RECURSIVE, [13](#)
 - ClientErrorHandlingMode, [11](#)
 - ClientPreloadType, [11](#)
 - UNSET_INCLUDING_SCHEMA_NAMES, [13](#)
 - UnsetFlags, [13](#)
 - VALUE_BOOL, [13](#)
 - VALUE_FLOAT, [13](#)
 - VALUE_INT, [13](#)
 - VALUE_INVALID, [13](#)
 - VALUE_LIST, [13](#)
 - VALUE_PAIR, [13](#)
 - VALUE_SCHEMA, [13](#)
 - VALUE_STRING, [13](#)
 - ValueType, [13](#)
- gconfmm Reference Manual, [1](#)
- get
 - Gnome::Conf::Client, [29](#)
- get_bool
 - Gnome::Conf::Client, [30](#)

- Gnome::Conf::Value, 60
- get_bool_list
 - Gnome::Conf::Client, 30
 - Gnome::Conf::Value, 60
- get_car
 - Gnome::Conf::Value, 60
- get_car_type
 - Gnome::Conf::Schema, 51
- get_cdr
 - Gnome::Conf::Value, 60
- get_cdr_type
 - Gnome::Conf::Schema, 51
- get_client_for_engine
 - Gnome::Conf::Client, 30
- get_default_client
 - Gnome::Conf::Client, 30
- get_default_from_schema
 - Gnome::Conf::Client, 30
- get_default_value
 - Gnome::Conf::Schema, 51
- get_entry
 - Gnome::Conf::Client, 31
- get_float
 - Gnome::Conf::Client, 32
 - Gnome::Conf::Value, 60
- get_float_list
 - Gnome::Conf::Client, 32
 - Gnome::Conf::Value, 60
- get_int
 - Gnome::Conf::Client, 32
 - Gnome::Conf::Value, 60
- get_int_list
 - Gnome::Conf::Client, 32
 - Gnome::Conf::Value, 61
- get_is_default
 - Gnome::Conf::Entry, 44
- get_is_writable
 - Gnome::Conf::Entry, 44
- get_key
 - Gnome::Conf::Entry, 44
- get_list_type
 - Gnome::Conf::Schema, 51
 - Gnome::Conf::Value, 61
- get_locale
 - Gnome::Conf::Schema, 51
- get_long_desc
 - Gnome::Conf::Schema, 51
- get_owner
 - Gnome::Conf::Schema, 51
- get_pair
 - Gnome::Conf::Client, 33
- get_schema
 - Gnome::Conf::Client, 33
 - Gnome::Conf::Value, 61
- get_schema_list
 - Gnome::Conf::Client, 33
 - Gnome::Conf::Value, 61
- get_schema_name
 - Gnome::Conf::Entry, 44
- get_short_desc
 - Gnome::Conf::Schema, 51
- get_string
 - Gnome::Conf::Client, 33
 - Gnome::Conf::Value, 61
- get_string_list
 - Gnome::Conf::Client, 34
 - Gnome::Conf::Value, 61
- get_type
 - Gnome::Conf::Schema, 51
 - Gnome::Conf::Value, 62
- get_value
 - Gnome::Conf::Entry, 45
- get_without_default
 - Gnome::Conf::Client, 34
- Glib, 15
- Gnome, 15
- Gnome::Conf, 15
 - Callback, 16
 - init, 16
 - ValuePair, 16
 - ValueTypePair, 16
- Gnome::Conf::ChangeSet, 17
 - ~ChangeSet, 19
 - ChangeSet, 19
 - clear, 19
 - exists, 19
 - for_each, 20
 - ForeachSlot, 19
 - gobj, 20
 - gobj_copy, 20
 - gobject_, 22
 - operator=, 20
 - remove, 20
 - set, 20, 21
 - size, 21
 - unset, 22
- Gnome::Conf::Client, 22
 - ~Client, 26
 - add_dir, 26
 - all_dirs, 27
 - all_entries, 27
 - change_set_commit, 27
 - change_set_from_current, 28
 - change_set_reverse, 28
 - clear_cache, 29
 - dir_exists, 29
 - error, 29
 - get, 29
 - get_bool, 30
 - get_bool_list, 30
 - get_client_for_engine, 30
 - get_default_client, 30
 - get_default_from_schema, 30
 - get_entry, 31
 - get_float, 32
 - get_float_list, 32

- get_int, 32
- get_int_list, 32
- get_pair, 33
- get_schema, 33
- get_schema_list, 33
- get_string, 33
- get_string_list, 34
- get_without_default, 34
- gobj, 34
- gobj_copy, 34
- key_is_writable, 35
- notify, 35
- notify_add, 35
- notify_remove, 36
- on_error, 36
- on_unreturned_error, 36
- on_value_changed, 36
- preload, 36
- recursive_unset, 37
- remove_dir, 37
- set, 37–39
- set_bool_list, 40
- set_error_handling, 40
- set_float_list, 40
- set_int_list, 40
- set_schema_list, 40
- set_string_list, 40
- signal_error, 40
- signal_value_changed, 41
- SListHandleBools, 26
- SListHandleFloats, 26
- SListHandleInts, 26
- suggest_sync, 41
- unset, 41
- value_changed, 42
- wrap, 42
- Gnome::Conf::Entry, 42
 - ~Entry, 44
 - Entry, 44
 - get_is_default, 44
 - get_is_writable, 44
 - get_key, 44
 - get_schema_name, 44
 - get_value, 45
 - gobj, 45
 - gobj_copy, 45
 - gobject_, 46
 - operator=, 45
 - set_is_default, 45
 - set_is_writable, 45
 - set_schema_name, 46
 - set_value, 46
 - wrap, 46
- Gnome::Conf::Error, 47
 - BAD_ADDRESS, 48
 - Code, 48
 - code, 49
 - CORRUPT, 48
 - Error, 48
 - IN_SHUTDOWN, 48
 - IS_DIR, 48
 - IS_KEY, 48
 - LOCAL_ENGINE, 48
 - LOCK_FAILED, 48
 - NO_PERMISSION, 48
 - NO_SERVER, 48
 - NO_WRITABLE_DATABASE, 48
 - OAF_ERROR, 48
 - OVERRIDDEN, 48
 - PARSE_ERROR, 48
 - SUCCESS, 48
 - TYPE_MISMATCH, 48
- Gnome::Conf::Schema, 49
 - ~Schema, 50
 - get_car_type, 51
 - get_cdr_type, 51
 - get_default_value, 51
 - get_list_type, 51
 - get_locale, 51
 - get_long_desc, 51
 - get_owner, 51
 - get_short_desc, 51
 - get_type, 51
 - gobj, 51
 - gobj_copy, 52
 - gobject_, 53
 - operator=, 52
 - Schema, 50
 - set_car_type, 52
 - set_cdr_type, 52
 - set_default_value, 52
 - set_list_type, 52
 - set_locale, 52
 - set_long_desc, 52
 - set_owner, 52
 - set_short_desc, 53
 - set_type, 53
 - wrap, 53
- Gnome::Conf::SetInterface, 54
 - set, 55
 - set_bool_list, 56
 - set_float_list, 56
 - set_int_list, 56
 - set_schema_list, 56
 - set_string_list, 56
- Gnome::Conf::Value, 57
 - ~Value, 59
 - get_bool, 60
 - get_bool_list, 60
 - get_car, 60
 - get_cdr, 60
 - get_float, 60
 - get_float_list, 60
 - get_int, 60
 - get_int_list, 61
 - get_list_type, 61

- get_schema, 61
- get_schema_list, 61
- get_string, 61
- get_string_list, 61
- get_type, 62
- gobj, 62
- gobj_copy, 62
- gobject_, 65
- operator=, 62
- set, 62, 63
- set_bool_list, 63
- set_car, 63
- set_cdr, 63
- set_float_list, 64
- set_int_list, 64
- set_list_type, 64
- set_schema_list, 64
- set_string_list, 64
- to_string, 65
- Value, 59
- wrap, 65
- gobj
 - Gnome::Conf::ChangeSet, 20
 - Gnome::Conf::Client, 34
 - Gnome::Conf::Entry, 45
 - Gnome::Conf::Schema, 51
 - Gnome::Conf::Value, 62
- gobj_copy
 - Gnome::Conf::ChangeSet, 20
 - Gnome::Conf::Client, 34
 - Gnome::Conf::Entry, 45
 - Gnome::Conf::Schema, 52
 - Gnome::Conf::Value, 62
- gobject_
 - Gnome::Conf::ChangeSet, 22
 - Gnome::Conf::Entry, 46
 - Gnome::Conf::Schema, 53
 - Gnome::Conf::Value, 65
- hash_load_check_resize_trigger_size_base, 66
- IN_SHUTDOWN
 - Gnome::Conf::Error, 48
- init
 - Gnome::Conf, 16
- IS_DIR
 - Gnome::Conf::Error, 48
- IS_KEY
 - Gnome::Conf::Error, 48
- key_is_writable
 - Gnome::Conf::Client, 35
- LOCAL_ENGINE
 - Gnome::Conf::Error, 48
- LOCK_FAILED
 - Gnome::Conf::Error, 48
- lu_counter_policy_base, 66
- mask_based_range_hashing, 67
- mod_based_range_hashing, 67
- NO_PERMISSION
 - Gnome::Conf::Error, 48
- NO_SERVER
 - Gnome::Conf::Error, 48
- NO_WRITABLE_DATABASE
 - Gnome::Conf::Error, 48
- notify
 - Gnome::Conf::Client, 35
- notify_add
 - Gnome::Conf::Client, 35
- notify_remove
 - Gnome::Conf::Client, 36
- OAF_ERROR
 - Gnome::Conf::Error, 48
- on_error
 - Gnome::Conf::Client, 36
- on_unreturned_error
 - Gnome::Conf::Client, 36
- on_value_changed
 - Gnome::Conf::Client, 36
- operator=
 - Gnome::Conf::ChangeSet, 20
 - Gnome::Conf::Entry, 45
 - Gnome::Conf::Schema, 52
 - Gnome::Conf::Value, 62
- OVERRIDDEN
 - Gnome::Conf::Error, 48
- PARSE_ERROR
 - Gnome::Conf::Error, 48
- preload
 - Gnome::Conf::Client, 36
- recursive_unset
 - Gnome::Conf::Client, 37
- remove
 - Gnome::Conf::ChangeSet, 20
- remove_dir
 - Gnome::Conf::Client, 37
- Schema
 - Gnome::Conf::Schema, 50
- set
 - Gnome::Conf::ChangeSet, 20, 21
 - Gnome::Conf::Client, 37–39
 - Gnome::Conf::SetInterface, 55
 - Gnome::Conf::Value, 62, 63
- set_bool_list
 - Gnome::Conf::Client, 40
 - Gnome::Conf::SetInterface, 56
 - Gnome::Conf::Value, 63
- set_car
 - Gnome::Conf::Value, 63
- set_car_type
 - Gnome::Conf::Schema, 52
- set_cdr

- Gnome::Conf::Value, [63](#)
- set_cdr_type
 - Gnome::Conf::Schema, [52](#)
- set_default_value
 - Gnome::Conf::Schema, [52](#)
- set_error_handling
 - Gnome::Conf::Client, [40](#)
- set_float_list
 - Gnome::Conf::Client, [40](#)
 - Gnome::Conf::SetInterface, [56](#)
 - Gnome::Conf::Value, [64](#)
- set_int_list
 - Gnome::Conf::Client, [40](#)
 - Gnome::Conf::SetInterface, [56](#)
 - Gnome::Conf::Value, [64](#)
- set_is_default
 - Gnome::Conf::Entry, [45](#)
- set_is_writable
 - Gnome::Conf::Entry, [45](#)
- set_list_type
 - Gnome::Conf::Schema, [52](#)
 - Gnome::Conf::Value, [64](#)
- set_locale
 - Gnome::Conf::Schema, [52](#)
- set_long_desc
 - Gnome::Conf::Schema, [52](#)
- set_owner
 - Gnome::Conf::Schema, [52](#)
- set_schema_list
 - Gnome::Conf::Client, [40](#)
 - Gnome::Conf::SetInterface, [56](#)
 - Gnome::Conf::Value, [64](#)
- set_schema_name
 - Gnome::Conf::Entry, [46](#)
- set_short_desc
 - Gnome::Conf::Schema, [53](#)
- set_string_list
 - Gnome::Conf::Client, [40](#)
 - Gnome::Conf::SetInterface, [56](#)
 - Gnome::Conf::Value, [64](#)
- set_type
 - Gnome::Conf::Schema, [53](#)
- set_value
 - Gnome::Conf::Entry, [46](#)
- signal_error
 - Gnome::Conf::Client, [40](#)
- signal_value_changed
 - Gnome::Conf::Client, [41](#)
- size
 - Gnome::Conf::ChangeSet, [21](#)
- SListHandleBools
 - Gnome::Conf::Client, [26](#)
- SListHandleFloats
 - Gnome::Conf::Client, [26](#)
- SListHandleInts
 - Gnome::Conf::Client, [26](#)
- SUCCESS
 - Gnome::Conf::Error, [48](#)
- suggest_sync
 - Gnome::Conf::Client, [41](#)
- to_string
 - Gnome::Conf::Value, [65](#)
- TYPE_MISMATCH
 - Gnome::Conf::Error, [48](#)
- unset
 - Gnome::Conf::ChangeSet, [22](#)
 - Gnome::Conf::Client, [41](#)
- UNSET_INCLUDING_SCHEMA_NAMES
 - gconfmm Enums and Flags, [13](#)
- UnsetFlags
 - gconfmm Enums and Flags, [13](#)
- Value
 - Gnome::Conf::Value, [59](#)
- VALUE_BOOL
 - gconfmm Enums and Flags, [13](#)
- value_changed
 - Gnome::Conf::Client, [42](#)
- VALUE_FLOAT
 - gconfmm Enums and Flags, [13](#)
- VALUE_INT
 - gconfmm Enums and Flags, [13](#)
- VALUE_INVALID
 - gconfmm Enums and Flags, [13](#)
- VALUE_LIST
 - gconfmm Enums and Flags, [13](#)
- VALUE_PAIR
 - gconfmm Enums and Flags, [13](#)
- VALUE_SCHEMA
 - gconfmm Enums and Flags, [13](#)
- VALUE_STRING
 - gconfmm Enums and Flags, [13](#)
- ValuePair
 - Gnome::Conf, [16](#)
- ValueType
 - gconfmm Enums and Flags, [13](#)
- ValueTypePair
 - Gnome::Conf, [16](#)
- wrap
 - Gnome::Conf::Client, [42](#)
 - Gnome::Conf::Entry, [46](#)
 - Gnome::Conf::Schema, [53](#)
 - Gnome::Conf::Value, [65](#)