
Scarab Documentation

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Project 8 Collaboration

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CHAPTER 1

Scarab/Library Overview

CHAPTER 2

Scarab/CMake Overview

3.1 library

3.1.1 library/authentication

library/authentication/authentication.cc

Defines

SCARAB_API_EXPORTS

namespace scarab

The standard scarab namespace.

Functions

scarab::LOGGER(mtlog, "authentication")

library/authentication/authentication.hh

namespace scarab

The standard scarab namespace.

class authentication

#include <authentication.hh> Inherits from *param_node*

Public Functions

authentication(const std::string &a_auth_file, bool a_is_in_user_home = true)

```

~authentication()

bool load(const std::string &a_auth_file, bool a_is_in_user_home = true)

mv_referrable(std::string, auth_filename)

mv_accessible_noset(bool, is_loaded)

```

3.1.2 library/logger

library/logger/logger.cc

struct Private

Public Types

```
typedef std::set<logger*> LoggerSet
```

Public Functions

```

void logCout(ELevel level, const string &message, const Location &loc)
void logCerr(ELevel level, const string &message, const Location &loc)

```

Public Members

```

const char *fLogger
ELevel fThreshold

```

Public Static Functions

```

static LoggerSet *AllLoggers()
static size_t getTimeAbsoluteStr()
static const char *level2Str(ELevel level)
static string level2Color(ELevel level)

```

Public Static Attributes

```

mutex sMutex
char sDateTimeFormat
time_t sRawTime
tm *sProcessedTime
char sTimeBuff

```

```
bool fColored = true
std::ostream *fOut = &cout
std::ostream *fErr = &cerr
```

namespace scarab

The standard scarab namespace.

Functions

```
const string &EndColor ()
const string &FatalColor ()
const string &ErrorColor ()
const string &WarnColor ()
const string &InfoColor ()
const string &ProgColor ()
const string &DebugColor ()
const string &TraceColor ()
const string &OtherColor ()
```

library/logger/logger.hh

Contains the logger class and macros, based on Kasper's KLogger class.

Date Created on: 18.11.2011

Author Marco Haag marco.haag@kit.edu

Defines

```
LOGGER_UTILITY_MACROS_
va_num_args (...)
va_num_args_impl (_1, _2, _3, _4, _5, N, ...)
macro_dispatcher (func, ...)
macro_dispatcher_ (func, nargs)
macro_dispatcher__ (func, nargs)
COLOR_NORMAL
COLOR_BRIGHT
COLOR_FOREGROUND_RED
COLOR_FOREGROUND_GREEN
COLOR_FOREGROUND_YELLOW
```

COLOR_FOREGROUND_BLUE
COLOR_FOREGROUND_CYAN
COLOR_FOREGROUND_WHITE
COLOR_PREFIX
COLOR_SUFFIX
COLOR_SEPARATOR
__DEFAULT_LOGGER
__LOG_LOCATION
__LOG_LOG_4 (I, L, M, O)
__LOG_LOG_3 (I, L, M)
__LOG_LOG_2 (L, M)
__LOG_LOG_1 (M)
__LOG_TRACE_2 (I, M)
__LOG_TRACE_1 (M)
__LOG_DEBUG_2 (I, M)
__LOG_DEBUG_1 (M)
__LOG_INFO_2 (I, M)
__LOG_INFO_1 (M)
__LOG_PROG_2 (I, M)
__LOG_PROG_1 (M)
__LOG_WARN_2 (I, M)
__LOG_WARN_1 (M)
__LOG_ERROR_2 (I, M)
__LOG_ERROR_1 (M)
__LOG_FATAL_2 (I, M)
__LOG_FATAL_1 (M)
__LOG_ASSERT_3 (I, C, M)
__LOG_ASSERT_2 (C, M)
__LOG_LOG_ONCE_3 (I, L, M)
__LOG_LOG_ONCE_2 (L, M)
__LOG_LOG_ONCE_1 (M)
__LOG_TRACE_ONCE_2 (I, M)
__LOG_TRACE_ONCE_1 (M)
__LOG_DEBUG_ONCE_2 (I, M)
__LOG_DEBUG_ONCE_1 (M)
__LOG_INFO_ONCE_2 (I, M)

```

__LOG_INFO_ONCE_1 (M)
__LOG_WARN_ONCE_2 (I, M)
__LOG_WARN_ONCE_1 (M)
__LOG_ERROR_ONCE_2 (I, M)
__LOG_ERROR_ONCE_1 (M)
__LOG_FATAL_ONCE_2 (I, M)
__LOG_FATAL_ONCE_1 (M)

```

```
LOGGER (I, K)
```

```
LOG (...)
```

```
LTRACE (...)
```

```
LDEBUG (...)
```

```
LINFO (...)
```

```
LPROG (...)
```

```
LWARN (...)
```

```
LError (...)
```

```
LFATAL (...)
```

```
LASSERT (...)
```

```
LOG_ONCE (...)
```

```
LTRACE_ONCE (...)
```

```
LDEBUG_ONCE (...)
```

```
LINFO_ONCE (...)
```

```
LPROG_ONCE (...)
```

```
LWARN_ONCE (...)
```

```
LError_ONCE (...)
```

```
LFATAL_ONCE (...)
```

```
namespace scarab
```

The standard scarab namespace.

```
class logger
```

#include <logger.hh> The scarab logger.

The usage and syntax is inspired by log4j. logger itself uses the log4cxx library if it was available on the system during compiling, otherwise it falls back to std::stream.

The logger output can be configured in a file specified with the environment variable *LOGGER_CONFIGURATION* (by default log4cxx.properties in the config directory).

In most cases the following macro can be used to instantiate a Logger in your code:

This is equivalent to:

For logging the following macros can be used. The source code location will then automatically included in the output:

Public Types

enum ELevel

Values:

eTrace = 0

eDebug = 1

eInfo = 2

eProg = 3

eWarn = 4

eError = 5

eFatal = 6

Public Functions

logger (**const** char **name* = 0)

Standard constructor assigning a name to the logger instance.

Parameters

- *name*: The logger name.

logger (**const** std::string &*name*)

This is an overloaded member function, provided for convenience. It differs from the above function only in what argument(s) it accepts.

~logger ()

bool IsLevelEnabled (ELevel *level*) **const**

Check whether a certain log-level is enabled.

Return

Parameters

- *level*: The log level

void SetLevel (ELevel *level*) **const**

Set a logger's minimum logging level

Parameters

- *level*: The log level

void SetGlobalLevel (ELevel *level*) **const**

Set all loggers' minimum logging level

Parameters

- *level*: The log level

void Log (ELevel *level*, **const** std::string &*message*, **const** *Location* &*loc* = Location ())

Log a message with the specified level. Use the macro *LOG(logger, level, message)*.

Parameters

- *level*: The log level.
- *message*: The message.
- *loc*: Source code location (set automatically by the corresponding macro).

void LogTrace (**const** std::string &*message*, **const** *Location* &*loc* = Location ())

Log a message at TRACE level. Use the macro *LTRACE(logger, message)*.

Parameters

- `message`: The message.
- `loc`: Source code location (set automatically by the corresponding macro).

void **LogDebug** (**const** std::string &*message*, **const** *Location* &*loc* = Location ())
Log a message at DEBUG level. Use the macro *LDEBUG(logger, message)*.

Parameters

- `message`: The message.
- `loc`: Source code location (set automatically by the corresponding macro).

void **LogInfo** (**const** std::string &*message*, **const** *Location* &*loc* = Location ())
Log a message at INFO level. Use the macro *LINFO(logger, message)*.

Parameters

- `message`: The message.
- `loc`: Source code location (set automatically by the corresponding macro).

void **LogProg** (**const** std::string &*message*, **const** *Location* &*loc* = Location ())
Log a message at PROG level. Use the macro *PROG(logger, message)*.

Parameters

- `message`: The message.
- `loc`: Source code location (set automatically by the corresponding macro).

void **LogWarn** (**const** std::string &*message*, **const** *Location* &*loc* = Location ())
Log a message at WARN level. Use the macro *LWARN(logger, message)*.

Parameters

- `message`: The message.
- `loc`: Source code location (set automatically by the corresponding macro).

void **LogError** (**const** std::string &*message*, **const** *Location* &*loc* = Location ())
Log a message at ERROR level. Use the macro *LError(logger, message)*.

Parameters

- `message`: The message.
- `loc`: Source code location (set automatically by the corresponding macro).

void **LogFatal** (**const** std::string &*message*, **const** *Location* &*loc* = Location ())
Log a message at FATAL level. Use the macro *FATAL(logger, message)*.

Parameters

- `message`: The message.
- `loc`: Source code location (set automatically by the corresponding macro).

Public Static Functions

static *logger* &GetRootLogger ()

void **SetColor** (bool *flag*)
Set whether colored text will be used

Parameters

- `flag`: Bool determining whether colored text will be used

void **SetOutputStream** (std::ostream **stream*)
Set the ostream pointer used for standard output messages

Parameters

- `stream`: Stream object for standard output

void **SetErrStream** (std::ostream **stream*)
Set the ostream pointer used for standard error messages

Parameters

- `stream`: Stream object for standard errors

Private Members

Private `*fPrivate`

`struct Location`

#include <logger.hh> A simple struct used by the Logger macros to pass information about the file-name and line number. Not to be used directly by the user!

Public Functions

`Location (const char *const fileName = "", const char *const functionName = "", int lineNumber = -1)`

Public Members

int `fLineNumber`

std::string `fFileName`

std::string `fFunctionName`

3.1.3 library/param

library/param/configurator.cc

`namespace scarab`

The standard scarab namespace.

Functions

`scarab::LOGGER(slog, "configurator")`

library/param/configurator.hh

`namespace scarab`

The standard scarab namespace.

`class configurator`

#include <configurator.hh>

Public Functions

`configurator (int an_argc, char **an_argv, scarab::param_node *a_default = NULL)`

`~configurator ()`


```

const std::string &exe_name () const

scarab::param_node &config ()

const scarab::param_node &config () const

bool help_flag () const

bool version_flag () const

template <typename XReturnType>
XReturnType get (const std::string &a_name) const

template <typename XReturnType>
XReturnType get (const std::string &a_name, XReturnType a_default) const

```

Private Members

```

std::string f_exe_name

scarab::param_node *f_master_config

bool f_help_flag

bool f_version_flag

scarab::param *f_param_buffer

std::string f_string_buffer

```

library/param/global_config.cc

namespace scarab

The standard scarab namespace.

library/param/global_config.hh

namespace scarab

The standard scarab namespace.

class global_config

#include <global_config.hh> Inherits from *singleton< global_config >*

Public Functions

```

void set_config (const param_node &a_config)

const param_node &retrieve () const

```

Protected Functions

```

global_config ()

~global_config ()

```

Private Members

param_node **f_config**

Friends

```
friend scarab::scarab::singleton< global_config >
friend scarab::scarab::destroyer< global_config >
```

library/param/param.cc

Defines

SCARAB_API_EXPORTS

namespace scarab

The standard scarab namespace.

Functions

```
SCARAB_API std::ostream & operator<<(std::ostream & out, const param & a_value)
SCARAB_API std::ostream & operator<<(std::ostream & out, const param_value & a_value)
SCARAB_API std::ostream & operator<<(std::ostream & out, const param_array & a_value)
SCARAB_API std::ostream & operator<<(std::ostream & out, const param_node & a_value)
```

library/param/param.hh

namespace scarab

The standard scarab namespace.

Functions

```
template <>
template<>
std::string get<std::string>() const
template <>
template<>
scarab::path get<scarab::path>() const

class param
    #include <param.hh> Subclassed by param_array, param_node, param_value
```

Public Functions

```
param()

param(const param &orig)
```

~param()

param *clone() const

bool is_null() const

bool is_value() const

bool is_array() const

bool is_node() const

bool has_subset(const *param* &a_subset) const

param_value &as_value()

param_array &as_array()

param_node &as_node()

const *param_value* &as_value() const

const *param_array* &as_array() const

const *param_node* &as_node() const

const *param_value* &operator()() const

Assumes that the parameter is a value, and returns a reference to itself.

param_value &operator()()

Assumes that the parameter is a value, and returns a reference to itself.

const *param* &operator[](unsigned *a_index*) const

Assumes that the parameter is an array, and returns a reference to the KTParm at aIndex. Behavior is undefined if aIndex is out-of-range.

param &operator[](unsigned *a_index*)

Assumes that the parameter is an array, and returns a reference to the KTParm at aIndex. Behavior is undefined if aIndex is out-of-range.

const *param* &operator[](const std::string &*a_name*) const

Assumes that the parameter is a node, and returns a reference to the KTParm corresponding to aName. Throws an KTEException if aName is not present.

param &operator[](const std::string &*a_name*)

Assumes that the parameter is a node, and returns a reference to the KTParm corresponding to aName. Adds a new Value if aName is not present.

std::string to_string() const

Public Static Attributes

SCARAB_API unsigned s_indent_level = 0

class param_array

#include <param.hh> Inherits from *param*

Public Types

```
typedef std::deque<param *> contents
typedef contents::iterator iterator
typedef contents::const_iterator const_iterator
typedef contents::reverse_iterator reverse_iterator
typedef contents::const_reverse_iterator const_reverse_iterator
typedef contents::value_type contents_type
```

Public Functions

```
param_array()
param_array(const param_array &orig)
~param_array()
param_array &operator=(const param_array &rhs)
param *clone() const
bool is_null() const
bool is_array() const
bool has_subset(const param &a_subset) const
unsigned size() const
bool empty() const
void resize(unsigned a_size)
    sets the size of the array if smaller than the current size, extra elements are deleted
std::string get_value(unsigned a_index) const
    Returns the result of ParamValue::get if a_name is present and is of type ParamValue Throws an error
    if a_name is not present or is not of type ParamValue
template <typename XValType>
XValType get_value(unsigned a_index) const
    Returns the result of ParamValue::get if a_name is present and is of type ParamValue Throws an error
    if a_name is not present or is not of type ParamValue
std::string get_value(unsigned a_index, const std::string &a_default) const
    Returns the result of ParamValue::get if a_name is present and is of type ParamValue Returns
    a_default if a_name is not present or is not of type ParamValue
std::string get_value(unsigned a_index, const char *a_default) const
template <typename XValType>
XValType get_value(unsigned a_index, XValType a_default) const
    Returns the result of ParamValue::get if a_name is present and is of type ParamValue Returns
    a_default if a_name is not present or is not of type ParamValue
```

const param*at (unsigned *a_index*) **const**

Returns a pointer to the param corresponding to *a_name*. Returns NULL if *a_name* is not present.

param *at (unsigned *a_index*)

Returns a pointer to the param corresponding to *a_name*. Returns NULL if *a_name* is not present.

const param_value*value_at (unsigned *a_index*) **const**

Returns a pointer to the *param_value* (static-ly cast) corresponding to *a_name*. Returns NULL if *a_name* is not present.

param_value *value_at (unsigned *a_index*)

Returns a pointer to the *param_value* (static-ly cast) corresponding to *a_name*. Returns NULL if *a_name* is not present.

const param_array*array_at (unsigned *a_index*) **const**

Returns a pointer to the *param_array* (static-ly cast) corresponding to *a_name*. Returns NULL if *a_name* is not present.

param_array *array_at (unsigned *a_index*)

Returns a pointer to the *param_array* (static-ly cast) corresponding to *a_name*. Returns NULL if *a_name* is not present.

const param_node*node_at (unsigned *a_index*) **const**

Returns a pointer to the *param_node* (static-ly cast) corresponding to *a_name*. Returns NULL if *a_name* is not present.

param_node *node_at (unsigned *a_index*)

Returns a pointer to the *param_node* (static-ly cast) corresponding to *a_name*. Returns NULL if *a_name* is not present.

const param&operator[] (unsigned *a_index*) **const**

Returns a reference to the param at *a_index*. Behavior is undefined if *a_index* is out-of-range.

param &operator[] (unsigned *a_index*)

Returns a reference to the param at *a_index*. Behavior is undefined if *a_index* is out-of-range.

const param*front () **const**

param *front ()

const param*back () **const**

param *back ()

void **assign** (unsigned *a_index*, **const** *param* &*a_value*)

void **assign** (unsigned *a_index*, *param* **a_value_ptr*)

void **push_back** (**const** *param* &*a_value*)

void **push_back** (*param* **a_value_ptr*)

void **push_front** (**const** *param* &*a_value*)

void **push_front** (*param* **a_value_ptr*)

void **append** (**const** *param_array* &*an_array*)

void **erase** (unsigned *a_index*)

```
param *remove (unsigned a_index)

void clear ()

param_array::iterator begin ()

param_array::const_iterator begin () const

param_array::iterator end ()

param_array::const_iterator end () const

param_array::reverse_iterator rbegin ()

param_array::const_reverse_iterator rbegin () const

param_array::reverse_iterator rend ()

param_array::const_reverse_iterator rend () const

std::string to_string () const
```

Protected Attributes

```
contents f_contents
```

```
class param_node
    #include <param.hh> Inherits from param
    Subclassed by authentication, parsable, parser
```

Public Types

```
typedef std::map<std::string, param *> contents
typedef contents::iterator iterator
typedef contents::const_iterator const_iterator
typedef contents::value_type contents_type
```

Public Functions

```
param_node ()

param_node (const param_node &orig)

~param_node ()

param_node &operator= (const param_node &rhs)

param *clone () const

bool is_null () const

bool is_node () const
```

```

bool has_subset (const param &a_subset) const

unsigned size () const

bool empty () const

bool has (const std::string &a_name) const

unsigned count (const std::string &a_name) const

std::string get_value (const std::string &a_name) const
    Returns the result of ParamValue::get if a_name is present and is of type ParamValue Throws an error
    if a_name is not present or is not of type ParamValue

template <typename XValType>
XValType get_value (const std::string &a_name) const
    Returns the result of ParamValue::get if a_name is present and is of type ParamValue Throws an error
    if a_name is not present or is not of type ParamValue

std::string get_value (const std::string &a_name, const std::string &a_default) const
    Returns the result of ParamValue::get if a_name is present and is of type ParamValue Returns
    a_default if a_name is not present or is not of type ParamValue

std::string get_value (const std::string &a_name, const char *a_default) const

template <typename XValType>
XValType get_value (const std::string &a_name, XValType a_default) const
    Returns the result of ParamValue::get if a_name is present and is of type ParamValue Returns
    a_default if a_name is not present or is not of type ParamValue

const param *at (const std::string &a_name) const
    Returns a pointer to the param corresponding to a_name. Returns NULL if a_name is not present.

param *at (const std::string &a_name)
    Returns a pointer to the param corresponding to a_name. Returns NULL if a_name is not present.

const param_value *value_at (const std::string &a_name) const

param_value *value_at (const std::string &a_name)

const param_array *array_at (const std::string &a_name) const

param_array *array_at (const std::string &a_name)

const param_node *node_at (const std::string &a_name) const

param_node *node_at (const std::string &a_name)

const param &operator[] (const std::string &a_name) const
    Returns a reference to the param corresponding to a_name. Throws an error if a_name is not present.

param &operator[] (const std::string &a_name)
    Returns a reference to the param corresponding to a_name. Adds a new value if a_name is not present.

bool add (const std::string &a_name, const param &a_value)
    creates a copy of a_value

bool add (const std::string &a_name, param *a_value_ptr)
    directly adds (without copying) a_value_ptr

```

void **replace** (**const** std::string &a_name, **const** *param* &a_value)
 creates a copy of a_value

void **replace** (**const** std::string &a_name, *param* *a_value_ptr)
 directly adds (without copying) a_value_ptr

void **merge** (**const** *param_node* &a_object)
 Merges the contents of a_object into this object. If names in the contents of a_object exist in this object, the values in this object corresponding to the matching names will be replaced.

void **erase** (**const** std::string &a_name)

param ***remove** (**const** std::string &a_name)

void **clear** ()

param_node::iterator **begin** ()

param_node::const_iterator **begin** () **const**

param_node::iterator **end** ()

param_node::const_iterator **end** () **const**

std::string **to_string** () **const**

Protected Attributes

contents **f_contents**

class **param_value**
#include <param.hh> Inherits from *param*

Public Functions

param_value ()

param_value (bool a_value)

param_value (uint8_t a_value)

param_value (uint16_t a_value)

param_value (uint32_t a_value)

param_value (uint64_t a_value)

param_value (int8_t a_value)

param_value (int16_t a_value)

param_value (int32_t a_value)

param_value (int64_t a_value)

param_value (float a_value)


```

param_value (double a_value)
param_value (const std::string &a_value)
param_value (const char *a_value)
param_value (const param_value &orig)
~param_value ()
param_value &operator= (const param_value &rhs)
param *clone () const
bool empty () const
bool is_null () const
bool is_value () const
bool has_subset (const param &a_subset) const
std::string type () const
bool is_bool () const
bool is_uint () const
bool is_int () const
bool is_double () const
bool is_string () const
bool as_bool () const
uint64_t as_uint () const
int64_t as_int () const
double as_double () const
const string &as_string () const
path as_path () const
template <typename XValType>
XValType get () const
void set (bool a_value)
void set (uint8_t a_value)
void set (uint16_t a_value)
void set (uint32_t a_value)
void set (uint64_t a_value)
void set (int8_t a_value)
void set (int16_t a_value)

```

```

void set (int32_t a_value)

void set (int64_t a_value)

void set (float a_value)

void set (double a_value)

void set (const std::string &a_value)

void set (const char *a_value)

std::string to_string () const

void clear ()

template <>
bool get () const

template <>
uint64_t get () const

template <>
int64_t get () const

template <>
double get () const

```

Private Types

```
enum ValueTypes
```

Values:

```

    k_bool

    k_uint

    k_int

    k_double

    k_string

    k_invalid

```

Private Members

```

union scarab::param_value::Values f_value

scarab::param_value::ValueTypes f_value_type

std::string f_buffer

union Values

```

Public Members

```

bool f_bool

uint64_t f_uint

```

```
int64_t f_int
double f_double
std::string *f_string
```

library/param/param_codec.cc

Defines

SCARAB_API_EXPORTS

Functions

LOGGER(slog, "param_codec")

namespace scarab

The standard scarab namespace.

library/param/param_codec.hh

Defines

REGISTER_PARAM_INPUT_CODEC(codec_class, encoding)

REGISTER_PARAM_OUTPUT_CODEC(codec_class, encoding)

namespace scarab

The standard scarab namespace.

class param_input_codec

#include <param_codec.hh>

Public Functions

param_input_codec()

~param_input_codec()

virtual param***read_file**(**const** std::string &a_filename, **const** param_node *a_options
= nullptr) = 0

virtual param***read_string**(**const** std::string &a_string, **const** param_node *a_options
= nullptr) = 0

class param_output_codec

#include <param_codec.hh>

Public Functions

```

param_output_codec()

~param_output_codec()

virtual bool write_file(const param &a_param, const std::string &a_filename, const
                        param_node *a_options = nullptr) = 0

virtual bool write_string(const param &a_param, std::string &a_string, const
                          param_node *a_options = nullptr) = 0

class param_translator
    #include <param_codec.hh>

```

Public Functions

```

param_translator()

~param_translator()

param *read_file(const std::string &a_filename, const param_node *a_options = nullptr)

param *read_string(const std::string &a_string, const param_node *a_options = nullptr)

bool write_file(const param &a_param, const std::string &a_filename, const
                param_node *a_options = nullptr)

bool write_string(const param &a_param, std::string &a_string, const param_node
                  *a_options = nullptr)

```

library/param/parsable.cc

Defines

SCARAB_API_EXPORTS

namespace scarab

The standard scarab namespace.

Functions

```
scarab::LOGGER(dlog, "parsable")
```

library/param/parsable.hh

namespace scarab

The standard scarab namespace.

class parsable

#include <parsable.hh> Inherits from *param_node*

Public Functions

```

parsable ()

parsable (const std::string &a_addr_with_value)

parsable (const std::string &a_addr, const std::string &a_value)

parsable (const parsable &a_orig)

~parsable ()

```

Public Static Attributes

```

const char f_value_separator = '='

const char f_node_separator = '.'

```

Private Functions

```

void add_next (param_node *a_parent, const std::string &a_addr, const std::string
               &a_value)

```

library/param/parser.cc

Defines

```
SCARAB_API_EXPORTS
```

```
namespace scarab
```

The standard scarab namespace.

library/param/parser.hh

```
namespace scarab
```

The standard scarab namespace.

```
class parser
```

#include <parser.hh> Inherits from *param_node*

Public Functions

```

parser (int an_argc, char **an_argv)

~parser ()

void parse (int an_argc, char **an_argv)

```

`library/param/codec`

`library/param/codec/json`

`library/param/codec/json/param_json.cc`

Warning: doxygenfile: Cannot find file “library/param/codec/json/param_json.cc”
--

`library/param/codec/json/param_json.hh`

Warning: doxygenfile: Cannot find file “library/param/codec/json/param_json.hh”
--

library/param/codec/json/rapidjson

library/param/codec/json/rapidjson/CMakeModules

library/param/codec/json/rapidjson/bin

library/param/codec/json/rapidjson/bin/data

library/param/codec/json/rapidjson/bin/draft-04

library/param/codec/json/rapidjson/bin/encodings

library/param/codec/json/rapidjson/bin/jsonchecker

library/param/codec/json/rapidjson/bin/jsonschema

library/param/codec/json/rapidjson/bin/jsonschema/bin

library/param/codec/json/rapidjson/bin/jsonschema/remotes

library/param/codec/json/rapidjson/bin/jsonschema/remotes/folder

library/param/codec/json/rapidjson/bin/jsonschema/tests

library/param/codec/json/rapidjson/bin/jsonschema/tests/draft3

library/param/codec/json/rapidjson/bin/jsonschema/tests/draft3/optional

library/param/codec/json/rapidjson/bin/jsonschema/tests/draft4

library/param/codec/json/rapidjson/bin/jsonschema/tests/draft4/optional

library/param/codec/json/rapidjson/bin/types

library/param/codec/json/rapidjson/doc

library/param/codec/json/rapidjson/doc/diagram

library/param/codec/json/rapidjson/doc/logo

library/param/codec/json/rapidjson/doc/misc

library/param/codec/json/rapidjson/docker

library/param/codec/json/rapidjson/docker/debian

library/param/codec/json/rapidjson/example

library/param/codec/json/rapidjson/example/capitalize

library/param/codec/json/rapidjson/example/condense

Warning: doxygenfile: Cannot find file “library/param/codec/json/rapidjson/thirdparty/gtest/googlemock/src/gmock-all.cc

library/param/codec/json/rapidjson/thirdparty/gtest/googlemock/src/gmock-cardinalities.cc

Warning: doxygenfile: Cannot find file “library/param/codec/json/rapidjson/thirdparty/gtest/googlemock/src/gmock-cardinalities.cc

library/param/codec/json/rapidjson/thirdparty/gtest/googlemock/src/gmock-internal-utils.cc

Warning: doxygenfile: Cannot find file “library/param/codec/json/rapidjson/thirdparty/gtest/googlemock/src/gmock-internal-utils.cc

library/param/codec/json/rapidjson/thirdparty/gtest/googlemock/src/gmock-matchers.cc

Warning: doxygenfile: Cannot find file “library/param/codec/json/rapidjson/thirdparty/gtest/googlemock/src/gmock-matchers.cc

library/param/codec/json/rapidjson/thirdparty/gtest/googlemock/src/gmock-spec-builders.cc

Warning: doxygenfile: Cannot find file “library/param/codec/json/rapidjson/thirdparty/gtest/googlemock/src/gmock-spec-builders.cc

library/param/codec/json/rapidjson/thirdparty/gtest/googlemock/src/gmock.cc

Warning: doxygenfile: Cannot find file “library/param/codec/json/rapidjson/thirdparty/gtest/googlemock/src/gmock.cc

library/param/codec/json/rapidjson/thirdparty/gtest/googlemock/src/gmock_main.cc

Warning: doxygenfile: Cannot find file “library/param/codec/json/rapidjson/thirdparty/gtest/googlemock/src/gmock_main.cc

library/param/codec/json/rapidjson/thirdparty/gtest/googlemock/test

library/param/codec/json/rapidjson/thirdparty/gtest/googlemock/test/gmock-actions_test.cc

Warning: doxygenfile: Cannot find file “library/param/codec/json/rapidjson/thirdparty/gtest/googlemock/test/gmock-actions_test.cc

`library/param/codec/json/rapidjson/thirdparty/gtest/googlemock/test/gmock-cardinalities_test.cc`

Warning: doxygenfile: Cannot find file “library/param/codec/json/rapidjson/thirdparty/gtest/googlemock/test/gmock-cardinalities_test.cc

`library/param/codec/json/rapidjson/thirdparty/gtest/googlemock/test/gmock-generated-actions_test.cc`

Warning: doxygenfile: Cannot find file “library/param/codec/json/rapidjson/thirdparty/gtest/googlemock/test/gmock-generated-actions_test.cc

`library/param/codec/json/rapidjson/thirdparty/gtest/googlemock/test/gmock-generated-function-mockers_test.cc`

Warning: doxygenfile: Cannot find file “library/param/codec/json/rapidjson/thirdparty/gtest/googlemock/test/gmock-generated-function-mockers_test.cc

`library/param/codec/json/rapidjson/thirdparty/gtest/googlemock/test/gmock-generated-internal-utils_test.cc`

Warning: doxygenfile: Cannot find file “library/param/codec/json/rapidjson/thirdparty/gtest/googlemock/test/gmock-generated-internal-utils_test.cc

`library/param/codec/json/rapidjson/thirdparty/gtest/googlemock/test/gmock-generated-matchers_test.cc`

Warning: doxygenfile: Cannot find file “library/param/codec/json/rapidjson/thirdparty/gtest/googlemock/test/gmock-generated-matchers_test.cc

`library/param/codec/json/rapidjson/thirdparty/gtest/googlemock/test/gmock-internal-utils_test.cc`

Warning: doxygenfile: Cannot find file “library/param/codec/json/rapidjson/thirdparty/gtest/googlemock/test/gmock-internal-utils_test.cc

`library/param/codec/json/rapidjson/thirdparty/gtest/googlemock/test/gmock-matchers_test.cc`

Warning: doxygenfile: Cannot find file “library/param/codec/json/rapidjson/thirdparty/gtest/googlemock/test/gmock-matchers_test.cc

`library/param/codec/json/rapidjson/thirdparty/gtest/googlemock/test/gmock-more-actions_test.cc`

Warning: doxygenfile: Cannot find file “library/param/codec/json/rapidjson/thirdparty/gtest/googlemock/test/gmock-more-actions_test.cc

`library/param/codec/json/rapidjson/thirdparty/gtest/googlemock/test/gmock-nice-strict_test.cc`

Warning: doxygenfile: Cannot find file “library/param/codec/json/rapidjson/thirdparty/gtest/googlemock/test/gmock-nice-strict_test.cc

`library/param/codec/json/rapidjson/thirdparty/gtest/googlemock/test/gmock-port_test.cc`

Warning: doxygenfile: Cannot find file “library/param/codec/json/rapidjson/thirdparty/gtest/googlemock/test/gmock-port_test.cc

`library/param/codec/json/rapidjson/thirdparty/gtest/googlemock/test/gmock-spec-builders_test.cc`

Warning: doxygenfile: Cannot find file “library/param/codec/json/rapidjson/thirdparty/gtest/googlemock/test/gmock-spec-builders_test.cc

`library/param/codec/json/rapidjson/thirdparty/gtest/googlemock/test/gmock_all_test.cc`

Warning: doxygenfile: Cannot find file “library/param/codec/json/rapidjson/thirdparty/gtest/googlemock/test/gmock_all_test.cc

`library/param/codec/json/rapidjson/thirdparty/gtest/googlemock/test/gmock_ex_test.cc`

Warning: doxygenfile: Cannot find file “library/param/codec/json/rapidjson/thirdparty/gtest/googlemock/test/gmock_ex_test.cc

`library/param/codec/json/rapidjson/thirdparty/gtest/googlemock/test/gmock_leak_test.cc`

Warning: doxygenfile: Cannot find file “library/param/codec/json/rapidjson/thirdparty/gtest/googlemock/test/gmock_leak_test.cc

`library/param/codec/json/rapidjson/thirdparty/gtest/googlemock/test/gmock_link2_test.cc`

Warning: doxygenfile: Cannot find file “library/param/codec/json/rapidjson/thirdparty/gtest/googlemock/test/gmock_link2_test.cc

`library/param/codec/json/rapidjson/thirdparty/gtest/googlemock/test/gmock_link_test.cc`

Warning: doxygenfile: Cannot find file “library/param/codec/json/rapidjson/thirdparty/gtest/googlemock/test/gmock_link_test.cc

`library/param/codec/json/rapidjson/thirdparty/gtest/googlemock/test/gmock_output_test.cc`

Warning: doxygenfile: Cannot find file “library/param/codec/json/rapidjson/thirdparty/gtest/googlemock/test/gmock_output_test.cc

`library/param/codec/json/rapidjson/thirdparty/gtest/googlemock/test/gmock_stress_test.cc`

Warning: doxygenfile: Cannot find file “library/param/codec/json/rapidjson/thirdparty/gtest/googlemock/test/gmock_stress_test.cc

`library/param/codec/json/rapidjson/thirdparty/gtest/googlemock/test/gmock_test.cc`

Warning: doxygenfile: Cannot find file “library/param/codec/json/rapidjson/thirdparty/gtest/googlemock/test/gmock_test.cc

`library/param/codec/json/rapidjson/thirdparty/gtest/googletest`

`library/param/codec/json/rapidjson/thirdparty/gtest/googletest/build-aux`

`library/param/codec/json/rapidjson/thirdparty/gtest/googletest/cmake`

`library/param/codec/json/rapidjson/thirdparty/gtest/googletest/codegear`

`library/param/codec/json/rapidjson/thirdparty/gtest/googletest/codegear/gtest_all.cc`

Warning: doxygenfile: Cannot find file “library/param/codec/json/rapidjson/thirdparty/gtest/googletest/codegear/gtest_all.cc

`library/param/codec/json/rapidjson/thirdparty/gtest/googletest/codegear/gtest_link.cc`

Warning: doxygenfile: Cannot find file “library/param/codec/json/rapidjson/thirdparty/gtest/googletest/codegear/gtest_link.cc

`library/param/codec/json/rapidjson/thirdparty/gtest/googletest/docs`

`library/param/codec/json/rapidjson/thirdparty/gtest/googletest/include`

`library/param/codec/json/rapidjson/thirdparty/gtest/googletest/include/gtest`

`library/param/codec/json/rapidjson/thirdparty/gtest/googletest/include/gtest/internal`

`library/param/codec/json/rapidjson/thirdparty/gtest/googletest/include/gtest/internal/custom`

`library/param/codec/json/rapidjson/thirdparty/gtest/googletest/m4`

`library/param/codec/json/rapidjson/thirdparty/gtest/googletest/make`

`library/param/codec/json/rapidjson/thirdparty/gtest/googletest/msvc`

`library/param/codec/json/rapidjson/thirdparty/gtest/googletest/samples`

`library/param/codec/json/rapidjson/thirdparty/gtest/googletest/samples/sample1.cc`

Warning: doxygenfile: Cannot find file “library/param/codec/json/rapidjson/thirdparty/gtest/googletest/samples/sample1.cc

`library/param/codec/json/rapidjson/thirdparty/gtest/googletest/samples/sample10_unittest.cc`

Warning: doxygenfile: Cannot find file “library/param/codec/json/rapidjson/thirdparty/gtest/googletest/samples/sample10_unittest.cc

`library/param/codec/json/rapidjson/thirdparty/gtest/googletest/samples/sample1_unittest.cc`

Warning: doxygenfile: Cannot find file “library/param/codec/json/rapidjson/thirdparty/gtest/googletest/samples/sample1_unittest.cc

`library/param/codec/json/rapidjson/thirdparty/gtest/googletest/samples/sample2.cc`

Warning: doxygenfile: Cannot find file “library/param/codec/json/rapidjson/thirdparty/gtest/googletest/samples/sample2.cc

`library/param/codec/json/rapidjson/thirdparty/gtest/googletest/samples/sample2_unittest.cc`

Warning: doxygenfile: Cannot find file “library/param/codec/json/rapidjson/thirdparty/gtest/googletest/samples/sample2_unittest.cc

[library/param/codec/json/rapidjson/thirdparty/gtest/googletest/samples/sample3_unittest.cc](#)

Warning: doxygenfile: Cannot find file “library/param/codec/json/rapidjson/thirdparty/gtest/googletest/samples/sample3_unittest.cc”

[library/param/codec/json/rapidjson/thirdparty/gtest/googletest/samples/sample4.cc](#)

Warning: doxygenfile: Cannot find file “library/param/codec/json/rapidjson/thirdparty/gtest/googletest/samples/sample4.cc”

[library/param/codec/json/rapidjson/thirdparty/gtest/googletest/samples/sample4_unittest.cc](#)

Warning: doxygenfile: Cannot find file “library/param/codec/json/rapidjson/thirdparty/gtest/googletest/samples/sample4_unittest.cc”

[library/param/codec/json/rapidjson/thirdparty/gtest/googletest/samples/sample5_unittest.cc](#)

Warning: doxygenfile: Cannot find file “library/param/codec/json/rapidjson/thirdparty/gtest/googletest/samples/sample5_unittest.cc”

[library/param/codec/json/rapidjson/thirdparty/gtest/googletest/samples/sample6_unittest.cc](#)

Warning: doxygenfile: Cannot find file “library/param/codec/json/rapidjson/thirdparty/gtest/googletest/samples/sample6_unittest.cc”

[library/param/codec/json/rapidjson/thirdparty/gtest/googletest/samples/sample7_unittest.cc](#)

Warning: doxygenfile: Cannot find file “library/param/codec/json/rapidjson/thirdparty/gtest/googletest/samples/sample7_unittest.cc”

[library/param/codec/json/rapidjson/thirdparty/gtest/googletest/samples/sample8_unittest.cc](#)

Warning: doxygenfile: Cannot find file “library/param/codec/json/rapidjson/thirdparty/gtest/googletest/samples/sample8_unittest.cc”

[library/param/codec/json/rapidjson/thirdparty/gtest/googletest/samples/sample9_unittest.cc](#)

Warning: doxygenfile: Cannot find file “library/param/codec/json/rapidjson/thirdparty/gtest/googletest/samples/sample9_unittest.cc”

`library/param/codec/json/rapidjson/thirdparty/gtest/googletest/scripts`

`library/param/codec/json/rapidjson/thirdparty/gtest/googletest/scripts/test`

`library/param/codec/json/rapidjson/thirdparty/gtest/googletest/src`

`library/param/codec/json/rapidjson/thirdparty/gtest/googletest/src/gtest-all.cc`

Warning: doxygenfile: Cannot find file “library/param/codec/json/rapidjson/thirdparty/gtest/googletest/src/gtest-all.cc

`library/param/codec/json/rapidjson/thirdparty/gtest/googletest/src/gtest-death-test.cc`

Warning: doxygenfile: Cannot find file “library/param/codec/json/rapidjson/thirdparty/gtest/googletest/src/gtest-death-test.cc

`library/param/codec/json/rapidjson/thirdparty/gtest/googletest/src/gtest-filepath.cc`

Warning: doxygenfile: Cannot find file “library/param/codec/json/rapidjson/thirdparty/gtest/googletest/src/gtest-filepath.cc

`library/param/codec/json/rapidjson/thirdparty/gtest/googletest/src/gtest-port.cc`

Warning: doxygenfile: Cannot find file “library/param/codec/json/rapidjson/thirdparty/gtest/googletest/src/gtest-port.cc

`library/param/codec/json/rapidjson/thirdparty/gtest/googletest/src/gtest-printers.cc`

Warning: doxygenfile: Cannot find file “library/param/codec/json/rapidjson/thirdparty/gtest/googletest/src/gtest-printers.cc

`library/param/codec/json/rapidjson/thirdparty/gtest/googletest/src/gtest-test-part.cc`

Warning: doxygenfile: Cannot find file “library/param/codec/json/rapidjson/thirdparty/gtest/googletest/src/gtest-test-part.cc

[library/param/codec/json/rapidjson/thirdparty/gtest/googletest/src/gtest-typed-test.cc](#)

Warning: doxygenfile: Cannot find file “library/param/codec/json/rapidjson/thirdparty/gtest/googletest/src/gtest-typed-test.cc

[library/param/codec/json/rapidjson/thirdparty/gtest/googletest/src/gtest.cc](#)

Warning: doxygenfile: Cannot find file “library/param/codec/json/rapidjson/thirdparty/gtest/googletest/src/gtest.cc

[library/param/codec/json/rapidjson/thirdparty/gtest/googletest/src/gtest_main.cc](#)

Warning: doxygenfile: Cannot find file “library/param/codec/json/rapidjson/thirdparty/gtest/googletest/src/gtest_main.cc

[library/param/codec/json/rapidjson/thirdparty/gtest/googletest/test](#)

[library/param/codec/json/rapidjson/thirdparty/gtest/googletest/test/gtest-death-test_ex_test.cc](#)

Warning: doxygenfile: Cannot find file “library/param/codec/json/rapidjson/thirdparty/gtest/googletest/test/gtest-death-test_ex_test.cc

[library/param/codec/json/rapidjson/thirdparty/gtest/googletest/test/gtest-death-test_test.cc](#)

Warning: doxygenfile: Cannot find file “library/param/codec/json/rapidjson/thirdparty/gtest/googletest/test/gtest-death-test_test.cc

[library/param/codec/json/rapidjson/thirdparty/gtest/googletest/test/gtest-filepath_test.cc](#)

Warning: doxygenfile: Cannot find file “library/param/codec/json/rapidjson/thirdparty/gtest/googletest/test/gtest-filepath_test.cc

[library/param/codec/json/rapidjson/thirdparty/gtest/googletest/test/gtest-linked_ptr_test.cc](#)

Warning: doxygenfile: Cannot find file “library/param/codec/json/rapidjson/thirdparty/gtest/googletest/test/gtest-linked_ptr_test.cc

`library/param/codec/json/rapidjson/thirdparty/gtest/googletest/test/gtest-listener_test.cc`

Warning: doxygenfile: Cannot find file “library/param/codec/json/rapidjson/thirdparty/gtest/googletest/test/gtest-listener_test.cc

`library/param/codec/json/rapidjson/thirdparty/gtest/googletest/test/gtest-message_test.cc`

Warning: doxygenfile: Cannot find file “library/param/codec/json/rapidjson/thirdparty/gtest/googletest/test/gtest-message_test.cc

`library/param/codec/json/rapidjson/thirdparty/gtest/googletest/test/gtest-options_test.cc`

Warning: doxygenfile: Cannot find file “library/param/codec/json/rapidjson/thirdparty/gtest/googletest/test/gtest-options_test.cc

`library/param/codec/json/rapidjson/thirdparty/gtest/googletest/test/gtest-param-test2_test.cc`

Warning: doxygenfile: Cannot find file “library/param/codec/json/rapidjson/thirdparty/gtest/googletest/test/gtest-param-test2_test.cc

`library/param/codec/json/rapidjson/thirdparty/gtest/googletest/test/gtest-param-test_test.cc`

Warning: doxygenfile: Cannot find file “library/param/codec/json/rapidjson/thirdparty/gtest/googletest/test/gtest-param-test_test.cc

`library/param/codec/json/rapidjson/thirdparty/gtest/googletest/test/gtest-port_test.cc`

Warning: doxygenfile: Cannot find file “library/param/codec/json/rapidjson/thirdparty/gtest/googletest/test/gtest-port_test.cc

`library/param/codec/json/rapidjson/thirdparty/gtest/googletest/test/gtest-printers_test.cc`

Warning: doxygenfile: Cannot find file “library/param/codec/json/rapidjson/thirdparty/gtest/googletest/test/gtest-printers_test.cc

`library/param/codec/json/rapidjson/thirdparty/gtest/googletest/test/gtest-test-part_test.cc`

Warning: doxygenfile: Cannot find file “library/param/codec/json/rapidjson/thirdparty/gtest/googletest/test/gtest-test-part_test.cc

`library/param/codec/json/rapidjson/thirdparty/gtest/googletest/test/gtest-tuple_test.cc`

Warning: doxygenfile: Cannot find file “library/param/codec/json/rapidjson/thirdparty/gtest/googletest/test/gtest-tuple_test.cc

`library/param/codec/json/rapidjson/thirdparty/gtest/googletest/test/gtest-typed-test2_test.cc`

Warning: doxygenfile: Cannot find file “library/param/codec/json/rapidjson/thirdparty/gtest/googletest/test/gtest-typed-test2_test.cc

`library/param/codec/json/rapidjson/thirdparty/gtest/googletest/test/gtest-typed-test_test.cc`

Warning: doxygenfile: Cannot find file “library/param/codec/json/rapidjson/thirdparty/gtest/googletest/test/gtest-typed-test_test.cc

`library/param/codec/json/rapidjson/thirdparty/gtest/googletest/test/gtest-unittest-api_test.cc`

Warning: doxygenfile: Cannot find file “library/param/codec/json/rapidjson/thirdparty/gtest/googletest/test/gtest-unittest-api_test.cc

`library/param/codec/json/rapidjson/thirdparty/gtest/googletest/test/gtest_all_test.cc`

Warning: doxygenfile: Cannot find file “library/param/codec/json/rapidjson/thirdparty/gtest/googletest/test/gtest_all_test.cc

`library/param/codec/json/rapidjson/thirdparty/gtest/googletest/test/gtest_break_on_failure_unittest.cc`

Warning: doxygenfile: Cannot find file “library/param/codec/json/rapidjson/thirdparty/gtest/googletest/test/gtest_break_on_failure_u

library/param/codec/json/rapidjson/thirdparty/gtest/googletest/test/gtest_catch_exceptions_test.cc

Warning: doxygenfile: Cannot find file “library/param/codec/json/rapidjson/thirdparty/gtest/googletest/test/gtest_catch_exceptions_t

library/param/codec/json/rapidjson/thirdparty/gtest/googletest/test/gtest_color_test.cc

Warning: doxygenfile: Cannot find file “library/param/codec/json/rapidjson/thirdparty/gtest/googletest/test/gtest_color_test.cc

library/param/codec/json/rapidjson/thirdparty/gtest/googletest/test/gtest_env_var_test.cc

Warning: doxygenfile: Cannot find file “library/param/codec/json/rapidjson/thirdparty/gtest/googletest/test/gtest_env_var_test.cc

library/param/codec/json/rapidjson/thirdparty/gtest/googletest/test/gtest_environment_test.cc

Warning: doxygenfile: Cannot find file “library/param/codec/json/rapidjson/thirdparty/gtest/googletest/test/gtest_environment_test.c

library/param/codec/json/rapidjson/thirdparty/gtest/googletest/test/gtest_filter_unittest.cc

Warning: doxygenfile: Cannot find file “library/param/codec/json/rapidjson/thirdparty/gtest/googletest/test/gtest_filter_unittest.cc

library/param/codec/json/rapidjson/thirdparty/gtest/googletest/test/gtest_help_test.cc

Warning: doxygenfile: Cannot find file “library/param/codec/json/rapidjson/thirdparty/gtest/googletest/test/gtest_help_test.cc

library/param/codec/json/rapidjson/thirdparty/gtest/googletest/test/gtest_list_tests_unittest.cc

Warning: doxygenfile: Cannot find file “library/param/codec/json/rapidjson/thirdparty/gtest/googletest/test/gtest_list_tests_unittest_

library/param/codec/json/rapidjson/thirdparty/gtest/googletest/test/gtest_main_unittest.cc

Warning: doxygenfile: Cannot find file “library/param/codec/json/rapidjson/thirdparty/gtest/googletest/test/gtest_main_unittest.cc

`library/param/codec/json/rapidjson/thirdparty/gtest/googletest/test/gtest_no_test_unittest.cc`

Warning: doxygenfile: Cannot find file “library/param/codec/json/rapidjson/thirdparty/gtest/googletest/test/gtest_no_test_unittest.cc”

`library/param/codec/json/rapidjson/thirdparty/gtest/googletest/test/gtest_output_test.cc`

Warning: doxygenfile: Cannot find file “library/param/codec/json/rapidjson/thirdparty/gtest/googletest/test/gtest_output_test.cc”

`library/param/codec/json/rapidjson/thirdparty/gtest/googletest/test/gtest_pred_impl_unittest.cc`

Warning: doxygenfile: Cannot find file “library/param/codec/json/rapidjson/thirdparty/gtest/googletest/test/gtest_pred_impl_unittest.cc”

`library/param/codec/json/rapidjson/thirdparty/gtest/googletest/test/gtest_premature_exit_test.cc`

Warning: doxygenfile: Cannot find file “library/param/codec/json/rapidjson/thirdparty/gtest/googletest/test/gtest_premature_exit_test.cc”

`library/param/codec/json/rapidjson/thirdparty/gtest/googletest/test/gtest_prod_test.cc`

Warning: doxygenfile: Cannot find file “library/param/codec/json/rapidjson/thirdparty/gtest/googletest/test/gtest_prod_test.cc”

`library/param/codec/json/rapidjson/thirdparty/gtest/googletest/test/gtest_repeat_test.cc`

Warning: doxygenfile: Cannot find file “library/param/codec/json/rapidjson/thirdparty/gtest/googletest/test/gtest_repeat_test.cc”

`library/param/codec/json/rapidjson/thirdparty/gtest/googletest/test/gtest_shuffle_test.cc`

Warning: doxygenfile: Cannot find file “library/param/codec/json/rapidjson/thirdparty/gtest/googletest/test/gtest_shuffle_test.cc”

`library/param/codec/json/rapidjson/thirdparty/gtest/googletest/test/gtest_sole_header_test.cc`

Warning: doxygenfile: Cannot find file “library/param/codec/json/rapidjson/thirdparty/gtest/googletest/test/gtest_sole_header_test.cc”

library/param/codec/json/rapidjson/thirdparty/gtest/googletest/test/gtest_stress_test.cc

Warning: doxygenfile: Cannot find file “library/param/codec/json/rapidjson/thirdparty/gtest/googletest/test/gtest_stress_test.cc

library/param/codec/json/rapidjson/thirdparty/gtest/googletest/test/gtest_throw_on_failure_ex_test.cc

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library/param/codec/json/rapidjson/thirdparty/gtest/googletest/test/gtest_uninitialized_test.cc

Warning: doxygenfile: Cannot find file “library/param/codec/json/rapidjson/thirdparty/gtest/googletest/test/gtest_uninitialized_test.

library/param/codec/json/rapidjson/thirdparty/gtest/googletest/test/gtest_unittest.cc

Warning: doxygenfile: Cannot find file “library/param/codec/json/rapidjson/thirdparty/gtest/googletest/test/gtest_unittest.cc

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Warning: doxygenfile: Cannot find file “library/param/codec/json/rapidjson/thirdparty/gtest/googletest/test/gtest_xml_output_unittes

`library/param/codec/json/rapidjson/thirdparty/gtest/googletest/test/production.cc`

Warning: doxygenfile: Cannot find file “library/param/codec/json/rapidjson/thirdparty/gtest/googletest/test/production.cc

`library/param/codec/json/rapidjson/thirdparty/gtest/googletest/xcode`

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`library/param/codec/json/rapidjson/thirdparty/gtest/googletest/xcode/Resources`

`library/param/codec/json/rapidjson/thirdparty/gtest/googletest/xcode/Samples`

`library/param/codec/json/rapidjson/thirdparty/gtest/googletest/xcode/Samples/FrameworkSample`

`library/param/codec/json/rapidjson/thirdparty/gtest/googletest/xcode/Samples/FrameworkSample/widget.cc`

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`library/param/codec/json/rapidjson/thirdparty/gtest/googletest/xcode/Scripts`

`library/param/codec/json/rapidjson/thirdparty/gtest/googletest/xcode/gtest.xcodeproj`

`library/param/codec/msgpack`

`library/param/codec/msgpack/param_msgpack.cc`

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`library/param/codec/msgpack/param_msgpack.hh`

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`library/param/codec/msgpack/msgpack-c/include/msgpack`

`library/param/codec/msgpack/msgpack-c/include/msgpack/adaptor`

`library/param/codec/msgpack/msgpack-c/include/msgpack/adaptor/cpp11`

`library/param/codec/msgpack/msgpack-c/include/msgpack/adaptor/detail`

`library/param/codec/msgpack/msgpack-c/include/msgpack/adaptor/tr1`

`library/param/codec/msgpack/msgpack-c/include/msgpack/detail`

`library/param/codec/yaml`

`library/param/codec/yaml/param_yaml.cc`

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`library/param/codec/yaml/param_yaml.hh`

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library/param/codec/yaml/yaml-cpp/include/yaml-cpp/node

library/param/codec/yaml/yaml-cpp/include/yaml-cpp/node/detail

library/param/codec/yaml/yaml-cpp/src

library/param/codec/yaml/yaml-cpp/src/contrib

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library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/build-aux

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`library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/fused-src/gtest`

`library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/gtest`

`library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/gtest/build-aux`

`library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/gtest/cmake`

`library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/gtest/codegear`

`library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/gtest/codegear/gtest_all.cc`

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`library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/gtest/fused-src/gtest`

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`library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/gtest/include/gtest`

`library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/gtest/include/gtest/internal`

`library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/gtest/m4`

`library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/gtest/make`

`library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/gtest/msvc`

`library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/gtest/samples`

`library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/gtest/samples/sample1.cc`

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`library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/gtest/samples/sample2.cc`

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[library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/gtest/samples/sample3_unittest.cc](#)

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[library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/gtest/scripts](#)

[library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/gtest/scripts/test](#)

[library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/gtest/src](#)

[library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/gtest/src/gtest-all.cc](#)

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[library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/gtest/src/gtest-death-test.cc](#)

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`library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/gtest/test/gtest_sole_header_test.cc`

Warning: doxygenfile: Cannot find file “library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/gtest/test/gtest_sole_header_test.cc
--

`library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/gtest/test/gtest_stress_test.cc`

Warning: doxygenfile: Cannot find file “library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/gtest/test/gtest_stress_test.cc

`library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/gtest/test/gtest_throw_on_failure_ex_test.cc`

Warning: doxygenfile: Cannot find file “library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/gtest/test/gtest_throw_on_failure_ex_test.cc
--

`library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/gtest/test/gtest_throw_on_failure_test.cc`

Warning: doxygenfile: Cannot find file “library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/gtest/test/gtest_throw_on_failure_test.cc

`library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/gtest/test/gtest_uninitialized_test.cc`

Warning: doxygenfile: Cannot find file “library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/gtest/test/gtest_uninitialized_test.cc
--

`library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/gtest/test/gtest_unittest.cc`

Warning: doxygenfile: Cannot find file “library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/gtest/test/gtest_unittest.cc

`library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/gtest/test/gtest_xml_outfile1_test_.cc`

Warning: doxygenfile: Cannot find file “library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/gtest/test/gtest_xml_outfile1_test_.cc

`library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/gtest/test/gtest_xml_outfile2_test_.cc`

Warning: doxygenfile: Cannot find file “library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/gtest/test/gtest_xml_outfile2_test_.cc

`library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/gtest/test/gtest_xml_output_unittest.cc`

Warning: doxygenfile: Cannot find file “library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/gtest/test/gtest_xml_output_unittest.cc

`library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/gtest/test/production.cc`

Warning: doxygenfile: Cannot find file “library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/gtest/test/production.cc

`library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/gtest/xcode`

`library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/gtest/xcode/Config`

`library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/gtest/xcode/Resources`

`library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/gtest/xcode/Samples`

`library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/gtest/xcode/Samples/FrameworkSample`

`library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/gtest/xcode/Samples/FrameworkSample/widget.cc`

Warning: doxygenfile: Cannot find file “library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/gtest/xcode/Samples/FrameworkSample/widget.cc

`library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/gtest/xcode/Samples/FrameworkSample/widget_test.cc`

Warning: doxygenfile: Cannot find file “library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/gtest/xcode/Samples/FrameworkSample/widget_test.cc”

`library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/gtest/xcode/Samples/FrameworkSample/WidgetFramework.xcodeproj`

`library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/gtest/xcode/Scripts`

`library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/gtest/xcode/gtest.xcodeproj`

`library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/include`

`library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/include/gmock`

`library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/include/gmock/internal`

`library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/make`

`library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/msvc`

`library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/msvc/2005`

`library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/msvc/2010`

`library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/scripts`

`library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/scripts/generator`

`library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/scripts/generator/cpp`

`library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/src`

`library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/src/gmock-all.cc`

Warning: doxygenfile: Cannot find file “library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/src/gmock-all.cc”

`library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/src/gmock-cardinalities.cc`

Warning: doxygenfile: Cannot find file “library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/src/gmock-cardinalities.cc”

`library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/src/gmock-internal-utils.cc`

Warning: doxygenfile: Cannot find file “library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/src/gmock-internal-utils.cc

`library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/src/gmock-matchers.cc`

Warning: doxygenfile: Cannot find file “library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/src/gmock-matchers.cc

`library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/src/gmock-spec-builders.cc`

Warning: doxygenfile: Cannot find file “library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/src/gmock-spec-builders.cc

`library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/src/gmock.cc`

Warning: doxygenfile: Cannot find file “library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/src/gmock.cc

`library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/src/gmock_main.cc`

Warning: doxygenfile: Cannot find file “library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/src/gmock_main.cc

`library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/test`

`library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/test/gmock-actions_test.cc`

Warning: doxygenfile: Cannot find file “library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/test/gmock-actions_test.cc

`library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/test/gmock-cardinalities_test.cc`

Warning: doxygenfile: Cannot find file “library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/test/gmock-cardinalities_test.cc

[library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/test/gmock-generated-actions_test.cc](#)

Warning: doxygenfile: Cannot find file “library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/test/gmock-generated-actions_test.cc

[library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/test/gmock-generated-function-mockers_test.cc](#)

Warning: doxygenfile: Cannot find file “library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/test/gmock-generated-function-mockers_test.cc

[library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/test/gmock-generated-internal-utils_test.cc](#)

Warning: doxygenfile: Cannot find file “library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/test/gmock-generated-internal-utils_test.cc

[library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/test/gmock-generated-matchers_test.cc](#)

Warning: doxygenfile: Cannot find file “library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/test/gmock-generated-matchers_test.cc

[library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/test/gmock-internal-utils_test.cc](#)

Warning: doxygenfile: Cannot find file “library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/test/gmock-internal-utils_test.cc

[library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/test/gmock-matchers_test.cc](#)

Warning: doxygenfile: Cannot find file “library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/test/gmock-matchers_test.cc

[library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/test/gmock-more-actions_test.cc](#)

Warning: doxygenfile: Cannot find file “library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/test/gmock-more-actions_test.cc

`library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/test/gmock-nice-strict_test.cc`

Warning: doxygenfile: Cannot find file “library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/test/gmock-nice-strict_test.cc

`library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/test/gmock-port_test.cc`

Warning: doxygenfile: Cannot find file “library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/test/gmock-port_test.cc

`library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/test/gmock-spec-builders_test.cc`

Warning: doxygenfile: Cannot find file “library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/test/gmock-spec-builders_test.cc

`library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/test/gmock_all_test.cc`

Warning: doxygenfile: Cannot find file “library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/test/gmock_all_test.cc

`library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/test/gmock_ex_test.cc`

Warning: doxygenfile: Cannot find file “library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/test/gmock_ex_test.cc

`library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/test/gmock_leak_test.cc`

Warning: doxygenfile: Cannot find file “library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/test/gmock_leak_test.cc

`library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/test/gmock_link2_test.cc`

Warning: doxygenfile: Cannot find file “library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/test/gmock_link2_test.cc

[library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/test/gmock_link_test.cc](#)

Warning: doxygenfile: Cannot find file "library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/test/gmock_link_test.cc"
--

[library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/test/gmock_output_test.cc](#)

Warning: doxygenfile: Cannot find file "library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/test/gmock_output_test.cc"
--

[library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/test/gmock_stress_test.cc](#)

Warning: doxygenfile: Cannot find file "library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/test/gmock_stress_test.cc"
--

[library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/test/gmock_test.cc](#)

Warning: doxygenfile: Cannot find file "library/param/codec/yaml/yaml-cpp/test/gmock-1.7.0/test/gmock_test.cc"

[library/param/codec/yaml/yaml-cpp/test/integration](#)

[library/param/codec/yaml/yaml-cpp/test/node](#)

[library/param/codec/yaml/yaml-cpp/util](#)

3.1.4 library/test

[library/test/test__member_variables.cc](#)

Functions

int **main** ()

[library/test/test__member_variables.hh](#)

Defines

set_prefix

get_prefix

var_prefix

static_prefix

struct test_acc

#include <test__member_variables.hh>

Public Functions

mv_accessible_noset (int, mv_acc_ns_int)

struct test_acc_static

#include <test__member_variables.hh>

Public Functions

mv_accessible_static_noset (int, mv_acc_ns_int)

struct test_acc_mutable

#include <test__member_variables.hh>

Public Functions

mv_accessible_mutable_noset (int, mv_acc_ns_int)

struct test_ref

#include <test__member_variables.hh>

Public Functions

mv_referrable_const (int, mv_ref_c_int)

struct test_ptr

#include <test__member_variables.hh>

Public Functions

mv_assignable_noset (int, mv_ptr_ns_int)

struct test_ptr_static

#include <test__member_variables.hh>

Public Functions

mv_assignable_static_noset (int, mv_ptr_ns_int)

struct test_ptr_mutable

#include <test__member_variables.hh>

Public Functions

```
mv_assignable_mutable_noset (int, mv_ptr_ns_int)

struct test_shptr
    #include <test__member_variables.hh>
```

Public Functions

```
mv_shared_ptr_const (int, mv_shptr_c_int)

struct test_atm
    #include <test__member_variables.hh>
```

Public Functions

```
mv_atomic_noset (int, mv_atm_ns_int)

struct test_atm_static
    #include <test__member_variables.hh>
```

Public Functions

```
mv_atomic_static_noset (int, mv_atm_ns_int)

struct test_atm_mutable
    #include <test__member_variables.hh>
```

Public Functions

```
mv_atomic_mutable_noset (int, mv_atm_ns_int)
```

library/test/test_configurator.cc

Functions

```
LOGGER(conflog, "test_configurator")

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

library/test/test_logger.cc

Functions

```
LOGGER(tlog, "test_logger")

int main ()
```

library/test/test_yaml.cc

Functions

LOGGER(slog, "test_yaml")

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

3.1.5 library/utility

library/utility/_member_variables.hh

Defines

get_fcn (x_variable)

Templates for macros for class member variables

Types of variables:

- "normal"
- referrable (i.e. accessed by reference)
- pointers
- std::shared_ptr
- std::atomic

Variations:

- no set (non-const) accessor
- static
- mutable

How to use this file:

1. Create the include file that will be used (see e.g. member_variables.hh)
2. Add include guards
3. Define set_prefix, get_prefix, var_prefix, and static_prefix
4. #include this file

Macros that must be defined to use this file:

- set_prefix: the prefix for set accessor functions (e.g. set_)
- get_prefix: the prefix for get accessor functions (e.g. get_)
- var_prefix: the prefix for variables (e.g. f_)
- static_prefix: the prefix for static variables (e.g. s_)

Accessors for normal variables, pointers, and atomics are of the form [set_prefix][variable name] and [get_prefix][variable_name]. Accessors for referrable variables and shared_ptr's are of the form [variable name], both const and non-const

set_fcn (x_variable)

var_name (x_variable)
static_var_name (x_variable)
mv_accessible_noset (x_type, x_variable)
mv_accessible (x_type, x_variable)
mv_accessible_static_noset (x_type, x_variable)
mv_accessible_static (x_type, x_variable)
mv_accessible_mutable_noset (x_type, x_variable)
mv_accessible_mutable (x_type, x_variable)
mv_referrable_const (x_type, x_variable)
mv_referrable (x_type, x_variable)
mv_referrable_static (x_type, x_variable)
mv_referrable_mutable (x_type, x_variable)
mv_assignable_noset (x_type, x_variable)
mv_assignable (x_type, x_variable)
mv_assignable_static_noset (x_type, x_variable)
mv_assignable_static (x_type, x_variable)
mv_assignable_mutable_noset (x_type, x_variable)
mv_assignable_mutable (x_type, x_variable)
mv_shared_ptr_const (x_type, x_variable)
mv_shared_ptr (x_type, x_variable)
mv_shared_ptr_static (x_type, x_variable)
mv_shared_ptr_mutable (x_type, x_variable)
mv_atomic_noset (x_type, x_variable)
mv_atomic (x_type, x_variable)
mv_atomic_static_noset (x_type, x_variable)
mv_atomic_static (x_type, x_variable)
mv_atomic_mutable_noset (x_type, x_variable)
mv_atomic_mutable (x_type, x_variable)

library/utility/cancelable.cc

namespace scarab

The standard scarab namespace.

Functions

scarab::LOGGER(slog, "cancelable")

library/utility/cancelable.hh

namespace scarab

The standard scarab namespace.

class cancelable

#include <cancelable.hh>

Public Functions

cancelable ()

~cancelable ()

void **cancel** ()
asynchronous cancel function

void **reset_cancel** ()
reset to non-canceled state

bool **is_canceled** () **const**
check canceled state

Protected Attributes

std::atomic<bool> **f_canceled**

Private Functions

void **do_cancellation** ()

void **do_reset_cancellation** ()

library/utility/concurrent_queue.hh

namespace scarab

The standard scarab namespace.

Functions

scarab::LOGGER(slog_cq, "concurrent_queue")

template <class XDataType>

class concurrent_queue

#include <concurrent_queue.hh>

Public Types

typedef std::deque<XDataType> **queue**

typedef std::unique_lock<std::mutex> **cq_lock**

Public Functions

```
concurrent_queue ()  
  
virtual ~concurrent_queue ()  
  
void push (XDataType const &a_data)  
  
bool empty () const  
  
bool size () const  
  
bool try_pop (XDataType &a_popped_value)  
  
bool wait_and_pop (XDataType &a_popped_value)  
  
bool timed_wait_and_pop (XDataType &a_popped_value)  
  
void interrupt ()  
  
unsigned get_timeout () const  
  
void set_timeout (unsigned a_duration)
```

Private Members

```
queue f_queue  
  
bool f_interrupt  
  
std::chrono::milliseconds f_timeout  
  
std::mutex f_mutex  
    Timeout duration in milliseconds.  
  
std::condition_variable f_condition_var  
  
struct queue_not_empty  
    #include <concurrent_queue.hh>
```

Public Functions

```
queue_not_empty (queue &a_queue)  
  
bool operator () () const
```

Public Members

```
queue &f_queue
```

library/utility/destroyer.hh

namespace scarab

The standard scarab namespace.

template <class *XDoomed*>

class **destroyer**

#include <destroyer.hh>

Public Functions

destroyer (*XDoomed* **d* = 0)

~destroyer ()

void **set_doomed** (*XDoomed* **d*)

Private Functions

destroyer (**const** *destroyer*<*XDoomed*>&)

void **operator=** (**const** *destroyer*<*XDoomed*>&)

Private Members

XDoomed ***f_doomed**

library/utility/digital.cc

Defines

SCARAB_API_EXPORTS

namespace scarab

The standard scarab namespace.

Functions

SCARAB_API void **get_calib_params** (unsigned *n_bits*, unsigned *data_type_size*, double *v_of*

SCARAB_API void **get_calib_params2** (unsigned *n_bits*, unsigned *data_type_size*, double *v_o*

library/utility/digital.hh

namespace scarab

The standard scarab namespace.

Functions

```
template <typename dig_type, typename an_type>
an_type d2a (dig_type dig, const struct dig_calib_params *params)
template <typename an_type, typename dig_type>
dig_type a2d (an_type analog, const struct dig_calib_params *params)

struct dig_calib_params
    #include <digital.hh>
```

Public Members

```
unsigned bit_depth
unsigned levels
unsigned data_type_size
double v_range
double v_offset
double inv_levels
double inv_v_range
double dac_gain
bool bits_right_aligned
```

library/utility/error.cc

Defines

SCARAB_API_EXPORTS

namespace scarab

The standard scarab namespace.

library/utility/error.hh

namespace scarab

The standard scarab namespace.

class error

#include <error.hh> Inherits from exception

Public Functions

```
error ()
error (const error &an_error)
~error ()
template <class x_streamable>
```



```

    error &operator<< (x_streamable a_fragment)

    error &operator<< (const std::string &a_fragment)

    error &operator<< (const char *a_fragment)

    const char *what () const

```

Private Members

```
std::string f_error
```

library/utility/factory.hh

namespace scarab

The standard scarab namespace.

Functions

```

scarab::LOGGER(slog_fact, "factory")
template <class XBaseType, typename... XArgs>
class base_registrar
    #include <factory.hh>

```

Public Functions

```

base_registrar()

virtual ~base_registrar()

```

Protected Functions

```
virtual XBaseType *create (XArgs... args) const = 0
```

Friends

```

    friend scarab::factory< XBaseType, XArgs... >
template <class XBaseType>
template<>
class base_registrar<XBaseType, void>
    #include <factory.hh>

```

Public Functions

```

base_registrar()

virtual ~base_registrar()

```

Protected Functions

```
virtual XBaseType *create () const = 0
```

Friends

```
friend scarab::factory< XBaseType >  
template <class XBaseType, typename... XArgs>  
class factory  
    #include <factory.hh> Inherits from singleton<factory< XBaseType, XArgs... > >
```

Public Types

```
typedef std::map<std::string, const base_registrar<XBaseType, XArgs...> *> FactoryMap  
typedef FactoryMap::value_type FactoryEntry  
typedef FactoryMap::iterator FactoryIt  
typedef FactoryMap::const_iterator FactoryCIt
```

Public Functions

```
XBaseType *create (const std::string &a_class_name, XArgs... args)  
XBaseType *create (const FactoryCIt &iter, XArgs... args)  
void register_class (const std::string &a_class_name, const base_registrar<XBaseType,  
    XArgs...> *base_registrar)  
bool has_class (const std::string &a_class_name) const  
void remove_class (const std::string &a_class_name)  
factory<XBaseType, XArgs...>::FactoryCIt begin () const  
factory<XBaseType, XArgs...>::FactoryCIt end () const
```

Protected Functions

```
allow_singleton_access (factory)  
factory ()  
~factory ()
```

Protected Attributes

```
FactoryMap *fMap
std::mutex f_factory_mutex
template <class XBaseType>
template<>
class factory<XBaseType, void>
    #include <factory.hh> Inherits from singleton<factory< XBaseType > >
```

Public Types

```
typedef std::map<std::string, const base_registrar<XBaseType> *> FactoryMap
typedef FactoryMap::value_type FactoryEntry
typedef FactoryMap::iterator FactoryIt
typedef FactoryMap::const_iterator FactoryCIt
```

Public Functions

```
XBaseType *create (const std::string &a_class_name)
XBaseType *create (const FactoryCIt &iter)
void register_class (const std::string &a_class_name, const base_registrar<XBaseType>
    *base_registrar)
bool has_class (const std::string &a_class_name) const
void remove_class (const std::string &a_class_name)
factory<XBaseType, void>::FactoryCIt begin () const
factory<XBaseType, void>::FactoryCIt end () const
```

Protected Functions

```
factory ()
~factory ()
```

Protected Attributes

```
FactoryMap *fMap
std::mutex f_factory_mutex
```

Friends

```
friend scarab::singleton< factory >
friend scarab::destroyer< factory >
template <class XBaseType, class XDerivedType, typename... XArgs>
class registrar
    #include <factory.hh> Inherits from base_registrar< XBaseType, XArgs... >
```

Public Functions

```
registrar (const std::string &a_class_name)
~registrar ()
```

Protected Functions

```
void register_class (const std::string &a_class_name) const
XBaseType *create (XArgs... args) const
```

Protected Attributes

```
std::string f_class_name
template <class XBaseType, class XDerivedType>
template<>
class registrar<XBaseType, XDerivedType, void>
    #include <factory.hh> Inherits from base_registrar< XBaseType >
```

Public Functions

```
registrar (const std::string &a_class_name)
~registrar ()
```

Protected Functions

```
void register_class (const std::string &a_class_name) const
XBaseType *create () const
```

Protected Attributes

```
std::string f_class_name
```

library/utility/macros.hh**Defines****PASTE2** (x, y)**PASTE** (x, y)**STRINGIFY** (x)**TOSTRING** (x)**__FILE__** **__LINE__****__FILENAME__** **__LINE__****__FUNC__****library/utility/member_variables.hh****Defines****set_prefix**

Macros for class member variables

In all cases remember to initialize the variables!

For “normal” variables Defines accessors [type get_my_var() const], [void set_my_var(type)], and member variable [type f_my_var] The set_ function is not available if the _noset macros are used

- mv_accessible
- mv_accessible_noset
- mv_accessible_static
- mv_accessible_static_noset

For variables accessed by reference Defines accessors [const type& my_var() const], [type& my_var()], and member variable [type f_my_var] The non-const function is not available if the _const macros are used

- mv_referrable
- mv_referrable_const
- mv_referrable_static
- mv_referrable_static_const

For pointer variables Defines accessors [type* get_my_var() const], [void set_my_var(type*)], and member variable [type* f_my_var] The set_ function is not available if the _noset macros are used

- mv_assignable
- mv_assignable_noset
- mv_assignable_static
- mv_assignable_static_noset

For std::shared_ptr's Defines accessors [const std::shared_ptr< type > my_var() const], [std::shared_ptr< type > my_var()], and member variable [std::shared_ptr< type > f_my_var] The non-const function is not available if the _const macros are used

- `mv_shared_ptr`
- `mv_shared_ptr_const`
- `mv_shared_ptr_static`
- `mv_shared_ptr_static_const`

For atomic variables Defines accessors `[type get_my_var() const]`, `[void set_my_var(type)]`, and member variable `[std::atomic< type > f_my_var]` The `set_` function is not available if the `_noset` macros are used

- `mv_atomic`
- `mv_atomic_noset`
- `mv_atomic_static`
- `mv_atomic_static_noset`

get_prefix

var_prefix

static_prefix

library/utility/path.cc

Defines

SCARAB_API_EXPORTS

namespace scarab

The standard scarab namespace.

Functions

path SCARAB_API expand_path(const string & a_path)

library/utility/path.hh

namespace scarab

The standard scarab namespace.

Typedefs

typedef fs::path path

library/utility/scarab_api.hh

Defines

SCARAB_API

namespace scarab

The standard scarab namespace.

library/utility/scarab_version.hh**namespace scarab**

The standard scarab namespace.

class version

#include <scarab_version.hh> Inherits from *version_semantic*

Public Functions

version()

~version()

class version_ifc

#include <scarab_version.hh> Subclassed by *version_semantic*

Public Functions

version_ifc()

version_ifc(const *version_ifc*&)

virtual ~version_ifc()

version_ifc &**operator=**(const *version_ifc*&)

virtual unsigned major_version() const = 0

virtual unsigned minor_version() const = 0

virtual unsigned patch_version() const = 0

virtual const std::string &version_str() const = 0

virtual const std::string &package() const = 0

virtual const std::string &commit() const = 0

virtual const std::string &exe_name() const = 0

virtual const std::string &hostname() const = 0

virtual const std::string &username() const = 0

virtual std::string version_info_string() const = 0

class version_semantic

#include <scarab_version.hh> Inherits from *version_ifc*

Subclassed by *version*

Public Functions

```
version_semantic()  
version_semantic(unsigned a_maj_ver, unsigned a_min_ver, unsigned a_patch_ver)  
version_semantic(const std::string &a_ver)  
version_semantic(const version_semantic &a_orig)  
~version_semantic()  
version_semantic &operator=(const version_semantic &a_orig)  
unsigned major_version() const  
unsigned minor_version() const  
unsigned patch_version() const  
const std::string &version_str() const  
const std::string &package() const  
const std::string &commit() const  
const std::string &exe_name() const  
const std::string &hostname() const  
const std::string &username() const  
virtual std::string version_info_string() const  
bool parse(const std::string &a_ver)  
bool combine(unsigned a_maj_ver, unsigned a_min_ver, unsigned a_patch_ver)  
bool update_exe_host_user()
```

Protected Attributes

```
unsigned f_major_ver  
unsigned f_minor_ver  
unsigned f_patch_ver  
std::string f_version  
std::string f_package  
std::string f_commit  
std::string f_exe_name  
std::string f_hostname  
std::string f_username
```


Protected Static Attributes

char **s_delimiter**

library/utility/singleton.hh

Defines

allow_singleton_access (class_name)

namespace scarab

The standard scarab namespace.

template <class *x_type*>

class singleton

#include <singleton.hh>

Public Static Functions

x_type ***get_instance** ()

void **kill_instance** ()

template <class... *x_args*>

x_type ***create_instance** (*x_args*... *args*)

Protected Functions

singleton ()

~singleton ()

Private Static Functions

void **construct_instance** ()

void **delete_instance** ()

Private Static Attributes

x_type ***f_instance** = nullptr

destroyer<*x_type*> **f_destroyer**

std::mutex **f_mutex**

Friends

friend scarab::destroyer< *x_type* >

library/utility/time.cc

Defines

SCARAB_API_EXPORTS

namespace scarab

The standard scarab namespace.

Functions

SCARAB_API int get_time_monotonic(struct timespec * time)

SCARAB_API int get_time_current(struct timespec * time)

SCARAB_API time_nsec_type time_to_nsec(struct timespec time)

SCARAB_API double time_to_sec(struct timespec time)

SCARAB_API void time_diff(struct timespec start, struct timespec end, struct timespec

SCARAB_API size_t get_time_absolute_str(char * ptr)

SCARAB_API std::string get_absolute_time_string()

Variables

SCARAB_API char date_time_format = “%Y-%m-%dT%H:%M:%SZ”

library/utility/time.hh

Defines

NSEC_PER_SEC

SEC_PER_NSEC

Functions

SCARAB_API bool operator==(const timespec & lhs, const timespec & rhs)

SCARAB_API bool operator<(const timespec & lhs, const timespec & rhs)

namespace scarab

The standard scarab namespace.

Typedefs

typedef uint64_t time_nsec_type

library/utility/typename.cc

namespace scarab

The standard scarab namespace.

Functions

std::string **demangle** (**const** char **a_name*)

library/utility/typename.hh

namespace scarab

The standard scarab namespace.

Functions

template <**class** x_type>
std::string **type** (**const** x_type &*a_param*)

[Full Doxygen API Reference](#)

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