libqemu-cxx

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Contents

1	LIBC	QEMU-CXX	1
2	Hiera	archical Index	3
	2.1	Class Hierarchy	3
3	Clas	s Index	5
	3.1	Class List	5
4	Clas	s Documentation	7
	4.1	qemu::ArmNvic Class Reference	7
	4.2	qemu::Bus Class Reference	8
	4.3	qemu::Chardev Class Reference	8
	4.4	qemu::Cpu Class Reference	9
	4.5	qemu::CpuAarch64 Class Reference	10
	4.6	qemu::CpuArm Class Reference	11
	4.7	qemu::CpuMicroblaze Class Reference	11
	4.8	qemu::CpuRiscv Class Reference	12
	4.9	qemu::CpuRiscv32 Class Reference	13
	4.10	qemu::CpuRiscv64 Class Reference	13
	4.11	DefaultLibraryLoader Class Reference	14
	4.12	qemu::Device Class Reference	14
	4.13	qemu::Gpio Class Reference	15
	4.14	qemu::Gpio::GpioProxy Class Reference	16
	4.15	qemu::InvalidLibraryException Class Reference	16
	4 16	gemuiil ihOemu Class Reference	17

ii CONTENTS

4.17	qemu::LibQemuException Class Reference	17
4.18	qemu::LibQemuInternals Class Reference	18
4.19	qemu::LibQemuObjectCallback< T > Class Template Reference	18
4.20	qemu::LibQemuObjectCallbackBase Class Reference	18
4.21	Library Class Reference	19
4.22	qemu::LibraryIface Class Reference	19
4.23	qemu::LibraryLoaderIface Class Reference	20
4.24	qemu::LibraryLoadErrorException Class Reference	20
4.25	qemu::MemoryRegion Class Reference	21
4.26	qemu::MemoryRegionOps Class Reference	22
4.27	qemu::MemoryRegionOps::MemTxAttrs Struct Reference	22
4.28	qemu::Object Class Reference	23
4.29	qemu::SetPropertyException Class Reference	24
4.30	qemu::SysBusDevice Class Reference	24
4.31	qemu::TargetNotSupportedException Class Reference	25
4.32	qemu::Timer Class Reference	25
Index		27

Chapter 1

LIBQEMU-CXX

Libqemu-cxx encapsulates QEMU as a C++ object, such that it can be instanced (for instance) within a SystemC simulation framework.

The libgsutils library does not depend on any library.

2 LIBQEMU-CXX

Chapter 2

Hierarchical Index

2.1 Class Hierarchy

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

qemu::Gpio::GpioProxy
qemu::LibQemu
qemu::LibQemuInternals
qemu::LibQemuObjectCallbackBase
${\sf qemu::LibQemuObjectCallback} < {\sf Cpu::CpuKickCallbackFn} > \dots $
$qemu:: Lib Qemu Object Callback < Cpu:: End Of Loop Callback Fn > \dots $
$qemu:: Lib Qemu Object Callback < Cpu Riscv 64:: Mip Update Callback Fn > \dots $
$qemu::LibQemuObjectCallback < T > \qquad . \qquad$
qemu::Librarylface
Library
qemu::LibraryLoaderIface
DefaultLibraryLoader
gemu::MemoryRegionOps
qemu::MemoryRegionOps::MemTxAttrs
qemu::Object
qemu::Bus
qemu::Chardev
qemu::Device
qemu::ArmNvic
qemu::Cpu
qemu::CpuArm
qemu::CpuAarch64
qemu::CpuMicroblaze
qemu::CpuRiscv
qemu::CpuRiscv32
qemu::CpuRiscv64
qemu::SysBusDevice
qemu::Gpio
qemu::MemoryRegion
runtime_error
qemu::LibQemuException
qemu::InvalidLibraryException
qemu::LibraryLoadErrorException
qemu::SetPropertyException
qemu::TargetNotSupportedException
qemu::Timer

4 Hierarchical Index

Chapter 3

Class Index

3.1 Class List

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

qemu::ArmNvic	7
qemu::Bus	8
qemu::Chardev	8
qemu::Cpu	9
qemu::CpuAarch64	10
qemu::CpuArm	11
qemu::CpuMicroblaze	11
qemu::CpuRiscv	12
qemu::CpuRiscv32	13
qemu::CpuRiscv64	13
DefaultLibraryLoader	14
qemu::Device	14
qemu::Gpio	15
qemu::Gpio::GpioProxy	16
qemu::InvalidLibraryException	
qemu::LibQemu	17
qemu::LibQemuException	
qemu::LibQemuInternals	
qemu::LibQemuObjectCallback< T >	
qemu::LibQemuObjectCallbackBase	
Library	19
qemu::LibraryIface	19
qemu::LibraryLoaderlface	
qemu::LibraryLoadErrorException	20
qemu::MemoryRegion	
qemu::MemoryRegionOps	
qemu::MemoryRegionOps::MemTxAttrs	
qemu::Object	
qemu::SetPropertyException	
qemu::SysBusDevice	
qemu::TargetNotSupportedException	25
gemu::Timer	25

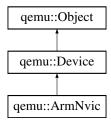
6 Class Index

Chapter 4

Class Documentation

4.1 qemu::ArmNvic Class Reference

Inheritance diagram for gemu::ArmNvic:



Public Member Functions

- ArmNvic (const ArmNvic &)=default
- ArmNvic (const Object &o)
- void add_cpu_link ()

Static Public Attributes

• static constexpr const char *const **TYPE** = "armv7m_nvic"

Additional Inherited Members

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

- · /home/thomas/Documents/GreenSocs/build-lib/libqemu-cxx/include/libqemu-cxx/target/aarch64.h
- $\bullet \ \ / home/thomas/Documents/GreenSocs/build-lib/libqemu-cxx/src/target/aarch64.cc$

4.2 qemu::Bus Class Reference

Inheritance diagram for qemu::Bus:



Public Member Functions

- Bus (const Bus &o)=default
- Bus (const Object &o)

Static Public Attributes

• static constexpr const char *const TYPE = "bus"

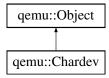
Additional Inherited Members

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

 $\bullet \ \ / home/thomas/Documents/GreenSocs/build-lib/libqemu-cxx/include/libqemu-cxx/libqemu-cxx.h$

4.3 qemu::Chardev Class Reference

Inheritance diagram for qemu::Chardev:



Public Member Functions

- Chardev (const Chardev &o)=default
- Chardev (const Object &o)

Static Public Attributes

• static constexpr const char *const TYPE = "chardev"

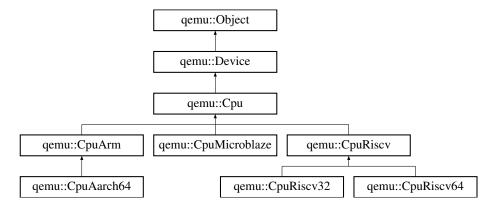
Additional Inherited Members

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

/home/thomas/Documents/GreenSocs/build-lib/libqemu-cxx/include/libqemu-cxx/libqemu-cxx.h

4.4 gemu::Cpu Class Reference

Inheritance diagram for qemu::Cpu:



Public Types

- using EndOfLoopCallbackFn = std::function < void() >
- using CpuKickCallbackFn = std::function < void()>
- typedef void(* AsyncJobFn) (void *)

Public Member Functions

- Cpu (const Cpu &)=default
- Cpu (const Object &o)
- · void loop ()
- bool loop_is_busy ()
- bool can_run ()
- void set_soft_stopped (bool stopped)
- void halt (bool halted)
- · void reset ()
- void set_unplug (bool unplug)
- void remove_sync ()
- void register_thread ()
- Cpu set_as_current ()
- · void kick ()
- void async_safe_run (AsyncJobFn job, void *arg)
- void set end of loop callback (EndOfLoopCallbackFn cb)
- void set_kick_callback (CpuKickCallbackFn cb)

Static Public Attributes

• static constexpr const char *const TYPE = "cpu"

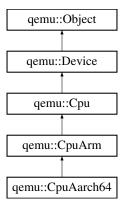
Additional Inherited Members

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

- /home/thomas/Documents/GreenSocs/build-lib/libqemu-cxx/include/libqemu-cxx/libqemu-cxx.h
- /home/thomas/Documents/GreenSocs/build-lib/libqemu-cxx/src/cpu.cc

4.5 qemu::CpuAarch64 Class Reference

Inheritance diagram for qemu::CpuAarch64:



Public Member Functions

- CpuAarch64 (const CpuAarch64 &)=default
- CpuAarch64 (const Object &o)
- void set_aarch64_mode (bool aarch64_mode)

Static Public Attributes

• static constexpr const char *const TYPE = "arm-cpu"

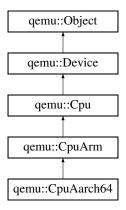
Additional Inherited Members

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

- /home/thomas/Documents/GreenSocs/build-lib/libqemu-cxx/include/libqemu-cxx/target/aarch64.h
- $\bullet \ \ / home/thomas/Documents/GreenSocs/build-lib/libqemu-cxx/src/target/aarch64.cc$

4.6 qemu::CpuArm Class Reference

Inheritance diagram for qemu::CpuArm:



Public Member Functions

- CpuArm (const CpuArm &)=default
- CpuArm (const Object &o)
- void set_cp15_cbar (uint64_t cbar)
- void add_nvic_link ()
- uint64_t get_exclusive_val ()

Static Public Attributes

• static constexpr const char *const TYPE = "arm-cpu"

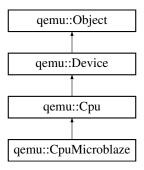
Additional Inherited Members

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

- /home/thomas/Documents/GreenSocs/build-lib/libqemu-cxx/include/libqemu-cxx/target/aarch64.h
- /home/thomas/Documents/GreenSocs/build-lib/libqemu-cxx/src/target/aarch64.cc

4.7 qemu::CpuMicroblaze Class Reference

Inheritance diagram for qemu::CpuMicroblaze:



Public Member Functions

- CpuMicroblaze (const CpuMicroblaze &)=default
- CpuMicroblaze (const Object &o)

Static Public Attributes

• static constexpr const char *const TYPE = "microblaze-cpu"

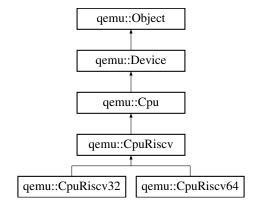
Additional Inherited Members

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

• /home/thomas/Documents/GreenSocs/build-lib/libqemu-cxx/include/libqemu-cxx/target/microblaze.h

4.8 qemu::CpuRiscv Class Reference

Inheritance diagram for qemu::CpuRiscv:



Public Types

• using **MipUpdateCallbackFn** = std::function< void(uint32_t)>

Public Member Functions

- CpuRiscv (const CpuRiscv &)=default
- CpuRiscv (const Object &o)
- void **set_mip_update_callback** (MipUpdateCallbackFn cb)

Static Public Attributes

• static constexpr const char *const TYPE = "riscv-cpu"

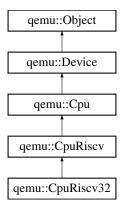
Additional Inherited Members

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

- /home/thomas/Documents/GreenSocs/build-lib/libqemu-cxx/include/libqemu-cxx/target/riscv.h
- /home/thomas/Documents/GreenSocs/build-lib/libqemu-cxx/src/target/riscv.cc

4.9 qemu::CpuRiscv32 Class Reference

Inheritance diagram for qemu::CpuRiscv32:



Public Member Functions

- CpuRiscv32 (const CpuRiscv32 &)=default
- CpuRiscv32 (const Object &o)

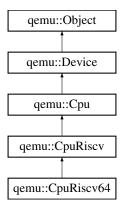
Additional Inherited Members

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

• /home/thomas/Documents/GreenSocs/build-lib/libqemu-cxx/include/libqemu-cxx/target/riscv.h

4.10 qemu::CpuRiscv64 Class Reference

Inheritance diagram for qemu::CpuRiscv64:



Public Member Functions

- CpuRiscv64 (const CpuRiscv64 &)=default
- CpuRiscv64 (const Object &o)

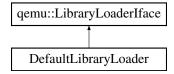
Additional Inherited Members

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

· /home/thomas/Documents/GreenSocs/build-lib/libqemu-cxx/include/libqemu-cxx/target/riscv.h

4.11 DefaultLibraryLoader Class Reference

Inheritance diagram for DefaultLibraryLoader:



Public Member Functions

- qemu::LibraryLoaderIface::LibraryIfacePtr load_library (const char *lib_name)
- const char * get_lib_ext ()
- const char * get_last_error ()

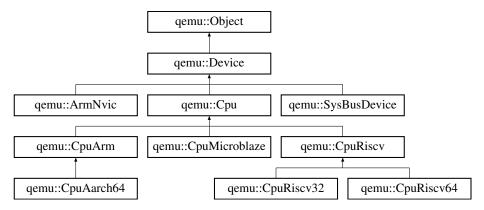
Additional Inherited Members

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

• /home/thomas/Documents/GreenSocs/build-lib/libqemu-cxx/src/loader.cc

4.12 qemu::Device Class Reference

Inheritance diagram for qemu::Device:



Public Member Functions

- Device (const Device &)=default
- Device (const Object &o)
- void connect_gpio_out (int idx, Gpio gpio)
- void connect_gpio_out_named (const char *name, int idx, Gpio gpio)
- Gpio get_gpio_in (int idx)
- Gpio get_gpio_in_named (const char *name, int idx)
- Bus get_child_bus (const char *name)
- void set_parent_bus (Bus bus)
- void set_prop_chardev (const char *name, Chardev chr)

Static Public Attributes

static constexpr const char *const TYPE = "device"

Additional Inherited Members

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

- · /home/thomas/Documents/GreenSocs/build-lib/libqemu-cxx/include/libqemu-cxx/libqemu-cxx.h
- /home/thomas/Documents/GreenSocs/build-lib/libgemu-cxx/src/device.cc

4.13 qemu::Gpio Class Reference

Inheritance diagram for qemu::Gpio:



Classes

class GpioProxy

Public Types

typedef std::function< void(bool)> GpioEventFn

Public Member Functions

- Gpio (const Gpio &o)=default
- Gpio (const Object &o)
- void set (bool lvl)
- void set_proxy (std::shared_ptr< GpioProxy > proxy)
- void set_event_callback (GpioEventFn cb)

Static Public Attributes

static constexpr const char *const TYPE = "irq"

Additional Inherited Members

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

- · /home/thomas/Documents/GreenSocs/build-lib/libqemu-cxx/include/libqemu-cxx/libqemu-cxx.h
- /home/thomas/Documents/GreenSocs/build-lib/libgemu-cxx/src/gpio.cc

4.14 qemu::Gpio::GpioProxy Class Reference

Public Member Functions

- · void event (bool level)
- void set_callback (GpioEventFn cb)

Protected Attributes

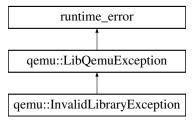
- bool m_prev_valid = false
- bool m prev
- GpioEventFn m_cb

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

• /home/thomas/Documents/GreenSocs/build-lib/libqemu-cxx/include/libqemu-cxx/libqemu-cxx.h

4.15 qemu::InvalidLibraryException Class Reference

Inheritance diagram for qemu::InvalidLibraryException:



Public Member Functions

InvalidLibraryException (const char *lib_name, const char *symbol)

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

• /home/thomas/Documents/GreenSocs/build-lib/libqemu-cxx/include/libqemu-cxx/exceptions.h

4.16 qemu::LibQemu Class Reference

Public Member Functions

- LibQemu (LibraryLoaderlface &library loader, const char *lib path)
- LibQemu (LibraryLoaderlface &library loader, Target t)
- void push_qemu_arg (const char *arg)
- void push_qemu_arg (std::initializer_list< const char *> args)
- const std::vector< char * > & get_qemu_args () const
- · void init ()
- · bool is inited () const
- void start gdb server (std::string port)
- void lock_iothread ()
- void unlock_iothread ()
- void coroutine_yield ()
- template < class T >

T object_new ()

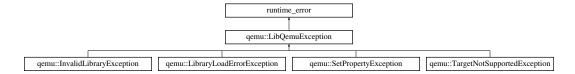
- int64 t get virtual clock ()
- Object object_new (const char *type_name)
- std::shared_ptr< MemoryRegionOps > memory_region_ops_new ()
- Gpio gpio_new ()
- std::shared_ptr< Timer > timer_new ()
- Chardev chardev new (const char *label, const char *type)
- void tb_invalidate_phys_range (uint64_t start, uint64_t end)

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

- · /home/thomas/Documents/GreenSocs/build-lib/libqemu-cxx/include/libqemu-cxx/libqemu-cxx.h
- /home/thomas/Documents/GreenSocs/build-lib/libqemu-cxx/src/callbacks.cc
- /home/thomas/Documents/GreenSocs/build-lib/libqemu-cxx/src/libqemu-cxx.cc

4.17 qemu::LibQemuException Class Reference

Inheritance diagram for qemu::LibQemuException:



Public Member Functions

- LibQemuException (const char *what)
- LibQemuException (const std::string &what)

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

• /home/thomas/Documents/GreenSocs/build-lib/libqemu-cxx/include/libqemu-cxx/exceptions.h

4.18 qemu::LibQemuInternals Class Reference

Public Member Functions

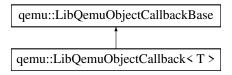
- LibQemuInternals (LibQemu &inst, LibQemuExports *exports)
- · const LibQemuExports & exports () const
- LibQemu & get_inst ()
- void clear callbacks (Object obj)
- $\bullet \ \ \, \text{LibQemuObjectCallback} < \text{Cpu::EndOfLoopCallbackFn} > \& \ \, \textbf{get_cpu_end_of_loop_cb} \ () \\$
- LibQemuObjectCallback
 Cpu::CpuKickCallbackFn > & get_cpu_kick_cb ()
- LibQemuObjectCallback
 CpuRiscv64::MipUpdateCallbackFn > & get_cpu_riscv_mip_update_cb ()

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

• /home/thomas/Documents/GreenSocs/build-lib/libqemu-cxx/src/internals.h

4.19 qemu::LibQemuObjectCallback< T > Class Template Reference

Inheritance diagram for qemu::LibQemuObjectCallback< T >:



Public Member Functions

- void register_cb (Object obj, T cb)
- void clear (Object obj)
- template<typename... Args>
 void call (QemuObject *obj, Args... args) const

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

• /home/thomas/Documents/GreenSocs/build-lib/libqemu-cxx/src/internals.h

4.20 gemu::LibQemuObjectCallbackBase Class Reference

Inheritance diagram for qemu::LibQemuObjectCallbackBase:



Public Member Functions

virtual void clear (Object obj)=0

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

• /home/thomas/Documents/GreenSocs/build-lib/libqemu-cxx/src/internals.h

4.21 Library Class Reference

Inheritance diagram for Library:



Public Member Functions

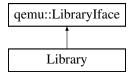
- Library (void *lib)
- bool symbol_exists (const char *name)
- void * get_symbol (const char *name)

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

• /home/thomas/Documents/GreenSocs/build-lib/libqemu-cxx/src/loader.cc

4.22 qemu::Librarylface Class Reference

Inheritance diagram for qemu::LibraryIface:



Public Member Functions

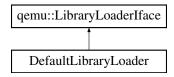
- virtual bool symbol_exists (const char *symbol)=0
- virtual void * get_symbol (const char *symbol)=0

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

• /home/thomas/Documents/GreenSocs/build-lib/libqemu-cxx/include/libqemu-cxx/loader.h

4.23 qemu::LibraryLoaderlface Class Reference

Inheritance diagram for qemu::LibraryLoaderlface:



Public Types

using LibraryIfacePtr = std::shared_ptr< LibraryIface >

Public Member Functions

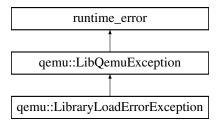
- virtual LibraryIfacePtr load_library (const char *lib_name)=0
- virtual const char * get_lib_ext ()=0
- virtual const char * get_last_error ()=0

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

· /home/thomas/Documents/GreenSocs/build-lib/libqemu-cxx/include/libqemu-cxx/loader.h

4.24 qemu::LibraryLoadErrorException Class Reference

Inheritance diagram for qemu::LibraryLoadErrorException:



Public Member Functions

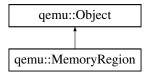
• LibraryLoadErrorException (const char *lib_name, const char *error)

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

• /home/thomas/Documents/GreenSocs/build-lib/libqemu-cxx/include/libqemu-cxx/exceptions.h

4.25 qemu::MemoryRegion Class Reference

Inheritance diagram for qemu::MemoryRegion:



Public Types

- using **MemTxResult** = MemoryRegionOps::MemTxResult
- using **MemTxAttrs** = MemoryRegionOps::MemTxAttrs

Public Member Functions

- MemoryRegion (const MemoryRegion &)=default
- MemoryRegion (const Object &o)
- uint64_t **get_size** ()
- void init_io (Object owner, const char *name, uint64_t size, MemoryRegionOpsPtr ops)
- void init_ram_ptr (Object owner, const char *name, uint64_t size, void *ptr)
- void init_alias (Object owner, const char *name, const MemoryRegion &root, uint64_t offset, uint64_t size)
- void add_subregion (MemoryRegion &mr, uint64_t offset)
- void del_subregion (const MemoryRegion &mr)
- MemTxResult dispatch_read (uint64_t addr, uint64_t *data, uint64_t size, MemTxAttrs attrs)
- MemTxResult dispatch_write (uint64_t addr, uint64_t data, uint64_t size, MemTxAttrs attrs)
- bool operator< (const MemoryRegion &mr) const

Public Attributes

• MemoryRegion * container

Static Public Attributes

• static constexpr const char *const TYPE = "qemu:memory-region"

Additional Inherited Members

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

- · /home/thomas/Documents/GreenSocs/build-lib/libgemu-cxx/include/libgemu-cxx/libgemu-cxx.h
- /home/thomas/Documents/GreenSocs/build-lib/libqemu-cxx/src/memory.cc

4.26 qemu::MemoryRegionOps Class Reference

Classes

struct MemTxAttrs

Public Types

- enum MemTxResult { MemTxOK, MemTxError, MemTxDecodeError, MemTxOKExitTB }
- typedef std::function< MemTxResult(uint64_t, uint64_t *, unsigned int, MemTxAttrs)> ReadCallback
- typedef std::function< MemTxResult(uint64_t, uint64_t, unsigned int, MemTxAttrs)> WriteCallback

Public Member Functions

- MemoryRegionOps (QemuMemoryRegionOps *ops, std::shared_ptr< LibQemuInternals > internals)
- void set_read_callback (ReadCallback cb)
- void set write callback (WriteCallback cb)
- · void set_max_access_size (unsigned size)
- ReadCallback get_read_callback ()
- WriteCallback get_write_callback ()
- QemuMemoryRegionOps * get_qemu_mr_ops ()

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

- · /home/thomas/Documents/GreenSocs/build-lib/libqemu-cxx/include/libqemu-cxx/libqemu-cxx.h
- /home/thomas/Documents/GreenSocs/build-lib/libqemu-cxx/src/memory.cc

4.27 qemu::MemoryRegionOps::MemTxAttrs Struct Reference

Public Member Functions

MemTxAttrs (const ::MemTxAttrs &qemu_attrs)

Public Attributes

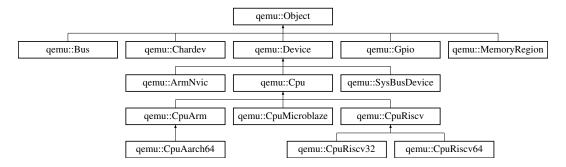
- bool **secure** = false
- bool exclusive = false
- bool debug = false

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

- /home/thomas/Documents/GreenSocs/build-lib/libqemu-cxx/include/libqemu-cxx/libqemu-cxx.h
- /home/thomas/Documents/GreenSocs/build-lib/libqemu-cxx/src/memory.cc

4.28 qemu::Object Class Reference

Inheritance diagram for qemu::Object:



Public Member Functions

- Object (QemuObject *obj, std::shared_ptr< LibQemuInternals > &internals)
- Object (const Object &o)
- Object (Object &&o)
- Object & operator= (Object o)
- · bool valid () const
- void set prop bool (const char *name, bool val)
- void set_prop_int (const char *name, int64_t val)
- void set_prop_str (const char *name, const char *val)
- void set_prop_link (const char *name, const Object &link)
- QemuObject * get_qemu_obj ()
- LibQemu & get_inst ()
- uintptr_t get_inst_id () const
- bool same_inst_as (const Object &o) const
- template < class T > bool check_cast () const
- void clear_callbacks ()

Protected Member Functions

• bool check_cast_by_type (const char *type_name) const

Protected Attributes

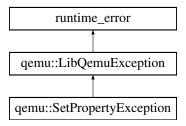
- QemuObject * m_obj = nullptr
- std::shared_ptr< LibQemuInternals > m_int

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

- · /home/thomas/Documents/GreenSocs/build-lib/libgemu-cxx/include/libgemu-cxx/libgemu-cxx.h
- /home/thomas/Documents/GreenSocs/build-lib/libqemu-cxx/src/object.cc

4.29 qemu::SetPropertyException Class Reference

Inheritance diagram for qemu::SetPropertyException:



Public Member Functions

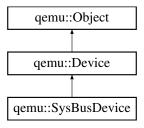
• SetPropertyException (const char *type, const char *name)

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

• /home/thomas/Documents/GreenSocs/build-lib/libqemu-cxx/include/libqemu-cxx/exceptions.h

4.30 qemu::SysBusDevice Class Reference

Inheritance diagram for qemu::SysBusDevice:



Public Member Functions

- SysBusDevice (const SysBusDevice &)=default
- SysBusDevice (const Object &o)
- MemoryRegion mmio_get_region (int id)
- void connect_gpio_out (int idx, Gpio gpio)

Static Public Attributes

static constexpr const char *const TYPE = "sys-bus-device"

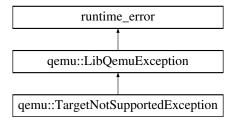
Additional Inherited Members

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

- /home/thomas/Documents/GreenSocs/build-lib/libgemu-cxx/include/libgemu-cxx/libgemu-cxx.h
- /home/thomas/Documents/GreenSocs/build-lib/libqemu-cxx/src/sysbus.cc

4.31 qemu::TargetNotSupportedException Class Reference

Inheritance diagram for qemu::TargetNotSupportedException:



Public Member Functions

• TargetNotSupportedException (Target t)

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

/home/thomas/Documents/GreenSocs/build-lib/libqemu-cxx/include/libqemu-cxx/exceptions.h

4.32 qemu::Timer Class Reference

Public Types

typedef std::function< void()> TimerCallbackFn

Public Member Functions

- Timer (std::shared_ptr< LibQemuInternals > internals)
- void set_callback (TimerCallbackFn cb)
- void mod (int64_t deadline)
- void **del** ()

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

- /home/thomas/Documents/GreenSocs/build-lib/libqemu-cxx/include/libqemu-cxx/libqemu-cxx.h
- /home/thomas/Documents/GreenSocs/build-lib/libgemu-cxx/src/timer.cc

Index

```
DefaultLibraryLoader, 14
Library, 19
qemu::ArmNvic, 7
qemu::Bus, 8
qemu::Chardev, 8
qemu::Cpu, 9
qemu::CpuAarch64, 10
qemu::CpuArm, 11
qemu::CpuMicroblaze, 11
qemu::CpuRiscv, 12
qemu::CpuRiscv32, 13
qemu::CpuRiscv64, 13
qemu::Device, 14
gemu::Gpio, 15
qemu::Gpio::GpioProxy, 16
qemu::InvalidLibraryException, 16
qemu::LibQemu, 17
qemu::LibQemuException, 17
qemu::LibQemuInternals, 18
qemu::LibQemuObjectCallback< T >, 18
qemu::LibQemuObjectCallbackBase, 18
gemu::LibraryIface, 19
qemu::LibraryLoadErrorException, 20
qemu::LibraryLoaderIface, 20
qemu::MemoryRegion, 21
qemu::MemoryRegionOps, 22
qemu::MemoryRegionOps::MemTxAttrs, 22
qemu::Object, 23
qemu::SetPropertyException, 24
qemu::SysBusDevice, 24
qemu::TargetNotSupportedException, 25
qemu::Timer, 25
```