

base-components

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Chapter 1

The GreenSocs SystemC simple components library.

This includes simple models such as routers and memories. The components are "Loosely timed" only. They support DMI where appropriate, and make use of CCI for configuration.

1.0.1 The GreenSocs component library router

The router offers `add_target(socker, base_address, size)` as an API to add components into the address map for routing. (It is recommended that the addresses and size are CCI parameters).

Chapter 2

Hierarchical Index

2.1 Class Hierarchy

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

sc_core::sc_module	
Memory	7
Router< BUSWIDTH >	7

Chapter 3

Class Index

3.1 Class List

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

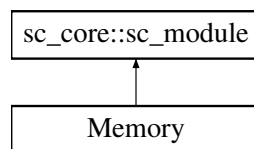
Memory	7
Router< BUSWIDTH >	7

Chapter 4

Class Documentation

4.1 Memory Class Reference

Inheritance diagram for Memory:



Public Member Functions

- **Memory** (sc_core::sc_module_name name, uint64_t size)
- **Memory** (const [Memory](#) &)=delete
- uint64_t **size** ()
- size_t **load** (std::string filename, uint64_t addr)
- void **load** (const uint8_t *ptr, uint64_t len, uint64_t addr)

Public Attributes

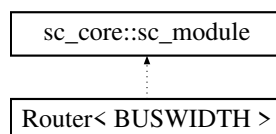
- tlm_utils::simple_target_socket< [Memory](#) > **socket**

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

- /Users/mark/work/libgs/tmp/base-components/include/greensocs/base-components/memory.h

4.2 Router< BUSWIDTH > Class Template Reference

Inheritance diagram for Router< BUSWIDTH >:



Public Member Functions

- **Router** (const sc_core::sc_module_name &nm)
- **Router** (const [Router](#) &)=delete
- void **add_target** (target &t, uint64_t address, uint64_t size)
- virtual void **add_initiator** (initiator &i)

Protected Member Functions

- virtual void **before_end_of_elaboration** ()

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

- /Users/mark/work/libgs/tmp/base-components/include/greensocs/base-components/router.h

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