# Installing & using the SystemC library

#### **Fetch**

- http://www.systemc.org
- requires free registration
- fetch version 2.1 (systemc-2.1.v1.tgz, ~4 MB)

## Compile

• decompress tgz

tar xzf systemc-2.1.v1.tgz

prepare for compiling
 mkdir buildsc
 cd buildsc
 ../configure --prefix=/destination/directory

- compile: make
- all this takes some 5 minutes

#### Install

- install into the specified destination dir make install
- may require to edit src/sysc/qt/Makefile and remove 4 lines down from "list=`echo md"
- that directory will now hold (among other):
  - include/ with header files
  - lib-ostype/ (e.g. lib-macosx) with the library

#### Use

• in order to compile against the SysC library g++ -I/dest/dir/include -L/dest/dir/lib-linux/-lsystemc -o progname progsrc\*.cpp

## Preparing simple\_bus

- compile & test on its own
   cd examples/sysc/simple\_bus
   make check
- copy its stuff into /dest/dir/simpls\_bus
   mkdir /dest/dir/simple\_bus
   cp simple\_bus\*pp /dest/dir/simple\_bus

### Using simple\_bus

- include simple\_bus' interfaces in sources
- compile against systemc
- include the path to search for those interfaces

```
g++ -I/dest/dir/simple_bus -I/dest/dir/
include -L/dest/dir/lib-linux/ -lsystemc -o
progname progsrc*.cpp simple bus*.cpp
```