嵌入式系统导论实验报告

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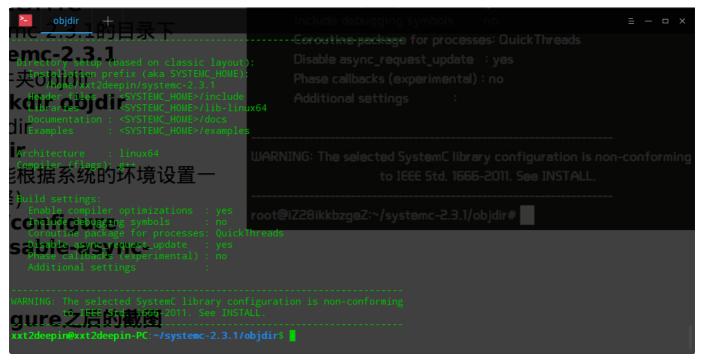
1.实验题目

DOL开发环境配置

2.实验结果

• 下载相关软件环境

• 编译systemc, 运行configure



运行install

```
del copy-check-data
make[4]: Entering directory 'home/xxt2deepin/systemc-2.3.1/objdir/examples/tlm/common'
make[3]: Leaving directory 'home/xxt2deepin/systemc-2.3.1/objdir/examples/tlm/common'
make[3]: Entering directory 'home/xxt2deepin/systemc-2.3.1/objdir/examples/tlm/
components directory 'home/xxt2deepin/systemc-2.3.1/objdir/examples/tlm'
copy-check-data
make[4]: Entering directory 'home/xxt2deepin/systemc-2.3.1/objdir/examples/tlm'
copy-check-data
make[4]: Entering directory 'home/xxt2deepin/systemc-2.3.1/objdir/examples/tlm'
copy-check-data
make[4]: Leaving directory 'home/xxt2deepin/systemc-2.3.1/objdir/examples/tlm'
make[2]: Leaving directory 'home/xxt2deepin/systemc-2.3.1/objdir/examples/tlm'
make[2]: Entering directory 'home/xxt2deepin/systemc-2.3.1/objdir/examples/
copy-check-data
make[3]: Nothing to be done for 'install-exec-am'
make[3]: Nothing to be done for 'install-exec-am'
make[3]: Leaving directory 'home/xxt2deepin/systemc-2.3.1/objdir/examples'
make[3]: Leaving directory 'home/xxt2deepin/systemc-2.3.1/objdir/examples'
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make[2]: Entering directory 'home/xxt2deepin/systemc-2.3.1/objdir/examples'
make[3]: Entering directory 'home/xxt2deepin/systemc-2.3.1/objdir/examples'
make[3]:
```

• 修改dol文件中的build zip.xml文件

```
build_zip.xml
文档
              打开(0) ▼
                                                             保存(S)
                                                                   ■ | - □
              1 <?xml version="1.0" encoding="UTF-8"?>
              3 project name="dol" default="compile" basedir=".">
              4
              5
                 <description>
                  Build file for ETHZ SHAPES Toolbox.
              6
              7
                 </description>
              8
                 9
             10
                 <!-- * properties
             11
             12
                 <!-- modify the following properties as required -->
             13
             15
                 <!-- SystemC paths -->
                 <!-- systemc.inc is the path of the SystemC include directory -->
             16
                 <!-- systemc.lib is the filename of the executable SystemC library -->
                 <!-- These two paths will be used to generate the Makefile that is
               used to build the SystemC
             19
                     executable binary file. -->
                                            value="/home/xxt2deepin/systemc-2.3.1/
             20
                 property name="systemc.inc"
                include"/>
                lib-linux64/libsystemc.a"/>
             22
             23
                 <!-- classpath delimiter (use ":" for UNIX, use ";" for Windows) -->
             24
                 classpathdelimiter" value=":"/>
             25
             26
                 <!-- java compiler properties: a java compiler for Java Platform 5.0</pre>
               is required -->
             27
                 <!-- do _not_ comment out the following line to use the specified
               external java
             28
                     compiler and virtual machine -->
                 <!-- <pre><!-- <pre><!-- <pre><!-- <pre><!-- <pre><!-- <pre>
             29
                                             XML ▼ 制表符宽度: 4 ▼
                                                                行21.列14
                                                                              插入
```

• 编译ant文件

编译第一个example

(由于C++版本过高出现错误,检查后发现在新版本中是函数std:gets没有识别出来)

• 上网查找解决方案如下



std::gets has been removed in C++11 (See What is gets() equivalent in C11?)



If you're building using C++11 flag (maybe with a g++ alias), you have to disable this line in systemc.h.



Replace



```
using std::gets;
with
#if defined(__cplusplus) && (__cplusplus < 201103L)</pre>
```

```
using std::gets;
#endif

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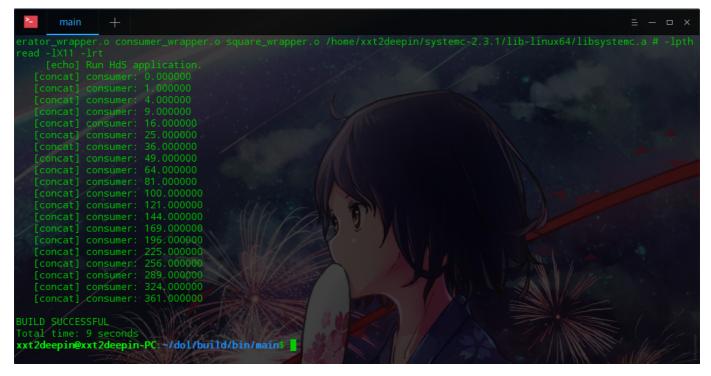
edited May 23 at 11:46

answered Jul 13 '16 at 14:00

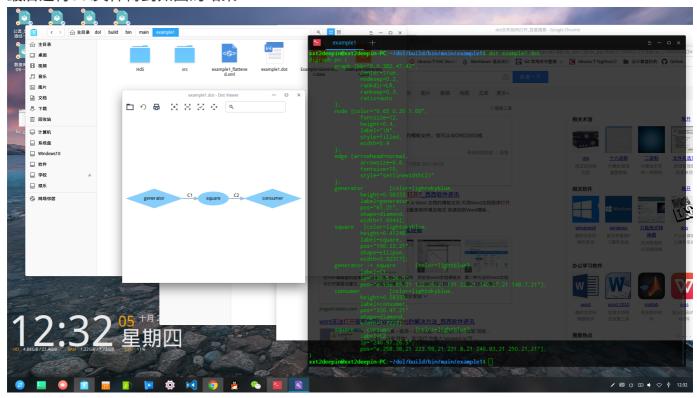
Community ◆
1 ● 1

Guillaume
460 ● 2 ● 6
```

• 运行后successful



• 最后运行dot文件得到如图的结果



关于systemC和doI的一些理解

对于这次实验中用到的systemC和dol,从TA那里就已经了解到了,systemC是为dol所调用的编译语言,包含各种需要的库,而dol则是利用systemC和其他语言(Java...)完成多线程编译的一个工具。

3.实验心得

这次实验也是主要照着ppt的提示完成就ok了,遇到的问题也就是最后一步的build由于系统自带 gcc版本较高无法识别出systemc库中的std:gets导致的编译失败,所以只要将std::gets给相应注释掉就 OK了。

然后是排版的问题,由于在markdown中并不支持图片的直接修改大小,一般都是用html语句进行兼容执行,同时由于无法通过markdown的修改直接看到所导出的pdf具体排版,所以我也只能随机地导出,结果就是导致了pdf的图片排版很不好,目前还找不到什么方法来有效快捷的让pdf的排版也同时顾及到。