

在进行了源的更新之后,我们可以继续进行下面的配置。

2)我们看到这次的实验是利用java进行编译的,那么我们就需要配置一些必要的环境。Ant是我们需要配置的一个环境,它是一个编译java的平台。

sudo apt-get install ant

```
sysuzyc@ubuntu:~$ sudo apt-get install ant
Reading package lists... Done
Bullding dependency tree
Reading state information... Done
ant is already the newest version (1.9.6-lubuntul).
0 upgraded, 0 newly installed, 0 to remove and 191 not upgraded.
sysuzyc@ubuntu:~$
```

看到上面的一些信息,则说明我们的ant是配置成功的。

3)在安装好平台之后,我们的编译语言java的最重要的部分jdk需要安装了,我们用的是jdk7,所以,我们就配置jdk7。由于我用的是Ubuntu16.04的版本,所以,我的jdk是不可以直接进行安装的,需要加入一些适当的库,才可以进行jdk的安装。

```
sudo add-apt-repository ppa:openjdk-r/ppa
sudo apt-get update
sudo apt-get install openjdk-7-jdk // OpenJdk 7安装:
```

这样的话,就可以进行jdk的安装了,但是有的时候,还是不可以进行运行,那么我们需要看的是自己的jdk到底是什么版本的,选择正确的版本即可。

sudo update-alternatives --config java

```
sysuzyc@ubuntu:-$ sudo update-alternatives --config java
[sudo] password for sysuzyc:
There are 2 choices for the alternative java (providing /usr/bin/java).

Selection Path Priority Status

0 /usr/lib/jvm/java-8-openjdk-amd64/jre/bin/java 1081 auto mode
*1 /usr/lib/jvm/java-7-openjdk-amd64/jre/bin/java 1081 manual mode
2 /usr/lib/jvm/java-8-openjdk-amd64/jre/bin/java 1081 manual mode
Press <enter> to keep the current choice[*], or type selection number: 1
sysuzyc@ubuntu:-$
```

这里看到的是,我们选择了jdk7就可以正确运行了,这里是配置好了对应的环境。

4) 为了能够解压我们拷贝进来的压缩包,我们也要安装unzip工具:

sudo apt-get install unzip

```
sysuzyc@ubuntu:~$ sudo apt-get install unzip
Reading package lists... Done
Building dependency tree
Reading state information... Done
unzip is already the newest version (6.0-20ubuntu1).
0 upgraded, 0 newly installed, 0 to remove and 188 not upgraded.
sysuzyc@ubuntu:~$
```

这里, 我们就可以进行下面的操作了。

## 2、进行dol文件的解压和安装

我们将文件中的dol的压缩包拷贝到Ubuntu中,进行解压。

```
mkdir dol
unzip dol_ethz.zip -d dol
```

敲入上面的命令之后,可以看到下面的图片:

```
ES2016_143534
sysuzyc@ubuntu:~$ mkdir dol
sysuzyc@ubuntu:~$ unzip dol_ethz.zip dol
Archive: dol_ethz.zip
caution: filename not matched: dol
sysuzyc@ubuntu:~$ unzip dol_ethz.zip -d dol
Archive: dol_ethz.zip
inflating: dol/JDOM_LICENSE.txt
inflating: dol/JDOM_LICENSE.txt
inflating: dol/NOTICE
inflating: dol/NEADME.txt
inflating: dol/Version.txt
inflating: dol/Version.txt
inflating: dol/Version.txt
inflating: dol/docs/ApplicationExamples.pdf
inflating: dol/docs/ApplicationExamples.pdf
inflating: dol/docs/CodingGuide.pdf
inflating: dol/docs/MappingExamples.pdf
inflating: dol/docs/ToolGuide.pdf
inflating: dol/docs/ToolGuide.pdf
inflating: dol/docs/ToolGuide.pdf
inflating: dol/docs/ToolGuide.pdf
creating: dol/examples/
creating: dol/examples/example1/
creating: dol/examples/example1/
creating: dol/examples/example1/src/
```

等虚拟机跑完了之后,我们就会发现自己的dol文件解压好了。

## 3、编译systemc

我们首先是进行systemc文件的解压,然后再进行编译:

```
tar -zxvf systemc-2.3.1.tgz
cd systemc-2.3.1
mkdir objdir
cd objdir
../configure CXX=g++ --disable-async-updates
sudo make install
```

按照上面的步骤,我们就可以对systemc进行编译。

首先是进行解压:

```
sysuzyc@ubuntu:~$ tar -zxvf systemc-2.3.1
systemc-2.3.1/
systemc-2.3.1/AUTHORS
systemc-2.3.1/COPYING
systemc-2.3.1/ChangeLog
systemc-2.3.1/INSTALL
systemc-2.3.1/INSTALL
systemc-2.3.1/Makefile.am
systemc-2.3.1/Makefile.in
systemc-2.3.1/README
systemc-2.3.1/RELEASENOTES
systemc-2.3.1/readme
systemc-2.3.1/config/
systemc-2.3.1/config/
systemc-2.3.1/config/Make-rules.common
systemc-2.3.1/config/Make-rules.examples
systemc-2.3.1/config/Make-rules.examples
systemc-2.3.1/config/make-rules.sysc
systemc-2.3.1/config/systemc-2.3.1/config/systemc-2.3.1/config/systemc-2.3.1/config/systemc-2.3.1/config/systemc-2.3.1/config/systemc-2.3.1/config/systemc-2.3.1/config/systemc-2.3.1/config/systemc-2.3.1/config/systemc-2.3.1/config/systemc-2.3.1/config/systemc-2.3.1/config/systemc-2.3.1/config/systemc-2.3.1/config/systemc-2.3.1/config/systemc-2.3.1/config/systemc-2.3.1/config/systemc-2.3.1/config/systemc-2.3.1/config/systemc-2.3.1/config/systemc-2.3.1/config/systemc-2.3.1/config/systemc-2.3.1/config/systemc-2.3.1/config/systemc-2.3.1/config/systemc-2.3.1/config/systemc-2.3.1/config/systemc-2.3.1/config/systemc-2.3.1/config/systemc-2.3.1/config/systemc-2.3.1/config/systemc-2.3.1/config/systemc-2.3.1/config/systemc-2.3.1/config/systemc-2.3.1/config/systemc-2.3.1/config/systemc-2.3.1/config/systemc-2.3.1/config/systemc-2.3.1/config/systemc-2.3.1/config/systemc-2.3.1/config/systemc-2.3.1/config/systemc-2.3.1/config/systemc-2.3.1/config/systemc-2.3.1/config/systemc-2.3.1/config/systemc-2.3.1/config/systemc-2.3.1/config/systemc-2.3.1/config/systemc-2.3.1/config/systemc-2.3.1/config/systemc-2.3.1/config/systemc-2.3.1/config/systemc-2.3.1/config/systemc-2.3.1/config/systemc-2.3.1/config/systemc-2.3.1/config/systemc-2.3.1/config/systemc-2.3.1/config/systemc-2.3.1/config/systemc-2.3.1/config/systemc-2.3.1/config/systemc-2.3.1/config/systemc-2.3.1/config/systemc-2.3.1/config/systemc-2.3.1/config/systemc-2.3.1/config/systemc-2.3.1/config/systemc-2.3.1/config/systemc-2.3.1/config/systemc-2.3.1/config/systemc-2.3.1/config/systemc-2.3.1/co
                   sysuzyc@ubuntu:~$ tar -zxvf systemc-2.3.1.tgz
             systemc-2.3.1/config/depcomp
```

然后,进入我们解压后的文件夹,新建一个文件夹,然后进入其中,进行下面的编译操作:

```
sysuzyc@ubuntu:~$ cd systemc-2.3.1
sysuzyc@ubuntu:~/systemc-2.3.1$ mkdir objdir
sysuzyc@ubuntu:~/systemc-2.3.1$ cd objdir
sysuzyc@ubuntu:~/systemc-2.3.1/objdir$ ../configure CXX=g++ --disable-async-upda
sysuzyc@ubuntu:-/systemc-2.3.1/objdir$ ../conrigure Chx-grites
checking build system type... x86_64-unknown-linux-gnu
checking host system type... x86_64-unknown-linux-gnu
checking target system type... x86_64-unknown-linux-gnu
checking for a BSD-compatible install.. /usr/bin/install -c
checking for a thread-safe mkdir -p... /bin/mkdir -p
checking for gawk... no
checking for mawk... mawk
checking for mawk... mawk
checking whether make sets $(MAKE)... yes
checking whether make supports nested variables... yes
checking whether make supports nested variables... yes
checking whether the C++ compiler works... yes
checking for suffix of executables...
checking for suffix of executables...
checking for suffix of object files... o
```

等到运行完了之后,我们就可以对比下课件,看下自己跑出来的结果是不是正确的。

```
Build settings:

Enable compiler optimizations : yes
Include debugging symbols : no
Coroutine package for processes: QuickThreads
Disable async_request_update : yes
Phase callbacks (experimental) : no
Additional settings :

WARNING: The selected SystemC library configuration is non-conforming
to IEEE Std. 1666-2011. See INSTALL.

sysuzyc@ubuntu:~/systemc-2.3.1/objdir$ ■
```

我们看到最终的结果是正确的,所以,我们就可以看到这次的systemc编译是正确的。

在看到上面的结果之后,我们需要再次检查下看下是不是有什么其他的被遗漏的东西:

```
sysuzyc@ubuntu:~/systemc-2.3.1$ ls
aclocal.m4 configure examples LICENSE NEWS src
AUTHORS configure.ac include Makefile.am objdir
Changelog COPYING INSTALL Makefile.in README
config docs lib-linux64 msvc80 RELEASENOTES
```

可以看到一共21个文件,没有遗漏的,所以,我们可以说是编译成功了。

## 4、编译dol

在前面,我们进行了dol的解压,但是并没有进行编译,所以,这里进行编译:

```
cd ../dol
ant -f build_zip.xml all
cd build/bin/main
ant -f runexample.xml -Dnumber=1
```

首先进入第一步中解压好的文件夹dol,然后,我们去修改对应的xml文件,修改一些路径,改为我们需要的xml文件:

在修改好了之后,我们就可以编译它了。

```
sysuzyc@ubuntu:~/dol$ ant -f build_zip.xml all
Buildfile: /home/sysuzyc/dol/build_zip.xml
showantversion:
   [echo] Use Apache Ant(TM) version 1.9.6 compiled on July 8 2015.
```

```
BUILD SUCCESSFUL
Total time: 2 seconds
sysuzyc@ubuntu:~/dol$
```

所以,我们看到,这个时候,buidl\_zip.xml是编译成功了,然后,我们可以尝试下运行这次的实验,结果如下所示:

```
| Make HdS application.
| make: Nothing to be done for 'all'.
| Run HdS application.
| consumer: 0.000000
| consumer: 1.000000
| consumer: 4.000000
| consumer: 9.000000
| consumer: 9.000000
| consumer: 25.000000
| consumer: 36.000000
| consumer: 49.000000
| consumer: 49.000000
| consumer: 100.000000
| consumer: 121.000000
| consumer: 144.000000
| consumer: 196.000000
| consumer: 196.000000
| consumer: 225.000000
| consumer: 256.000000
| consumer: 324.000000
| consumer: 324.000000
                       echo]
            [exec]
[echo]
[concat]
                concat
               concat1
                concat
               concat]
               concat
concat
               concat
concat
                concat
                concati
                concat
               concat]
concat]
              concat]
              [concat]
[concat]
[concat]
  BUILD SUCCESSFUL
Total time: 10 seconds
sysuzyc@ubuntu:~/dol/build/bin/main$
```

看到上面的结果的话,说明我们这次的实验配置成功了。



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