

MOSES安装记录

环境: Ubuntu16.04

需要安装的工具: giza++,IRSTLM5.80.08,cmph2.0,xmllrpc1.33.14,boost1.64

0 安装依赖的包

```
1 sudo apt-get install build-essential git-core pkg-config automake libtool wget zlib1g-dev python-dev libbz2-dev
2 sudo apt-get install libsoap-lite-perl
```

1 从GitHub上clone moses

```
1 cd ~
2 mkdir smt
3 cd smt
4 git clone https://github.com/moses-smt/mosesdecoder.git
```

2 安装giza++

```
1 git clone https://github.com/moses-smt/giza-pp.git
2 cd giza-pp
3 make
```

把之后需要用到的giza++文件复制到mosesdecoder文件夹中创建的tools文件夹下

```
1 cd ../mosesdecoer
2 mkdir tools
3 cp ../giza-pp/GIZA++-v2/GIZA++ ../giza-pp/GIZA++-v2/snt2cooc.out ../giza-pp/mkcls-v2/mkcls tools
```

3 安装IRSTLM5.80.08

```
1 cd ..
2 mkdir irstlm
3 wget https://jaist.dl.sourceforge.net/project/irstlm/irstlm/irstlm-5.80/irstlm-5.80.08.tgz
4 tar zxvf irstlm-5.80.08.tgz
5 cd irstlm-5.80.08
6 cd trunk
7 ./regenerate-makefiles.sh
8 ./configure --prefix=~/.smt/irstlm #设置irstlm的安装路径
9 make install
```

4 安装cmph2.0

```
1 cd ~/.smt
2 wget http://www.achrafothman.net/aslsmt/tools/cmph_2.0.orig.tar.gz
3 tar zxvf cmph_2.0.orig.tar.gz
4 cd cmph-2.0/
5 ./configure
6 make
7 make install
```

5 安装xmllrpc1.33.14

```
1 cd ~/.smt
2 wget http://www.achrafothman.net/aslsmt/tools/xmllrpc-c_1.33.14.orig.tar.gz
3 tar zxvf xmllrpc-c_1.33.14.orig.tar.gz
4 cd xmllrpc-c-1.33.14/
5 ./configure
6 make
7 make install
```

6 安装boost1.64

```
1 cd ~/smt
2 wget https://dl.bintray.com/boostorg/release/1.64.0/source/boost_1_64_0.tar.gz
3 tar zxvf boost_1_64_0.tar.gz
4 cd boost_1_64_0/
5 ./bootstrap.sh
6 ./b2 --layout=system link=static install || echo FAILURE
```

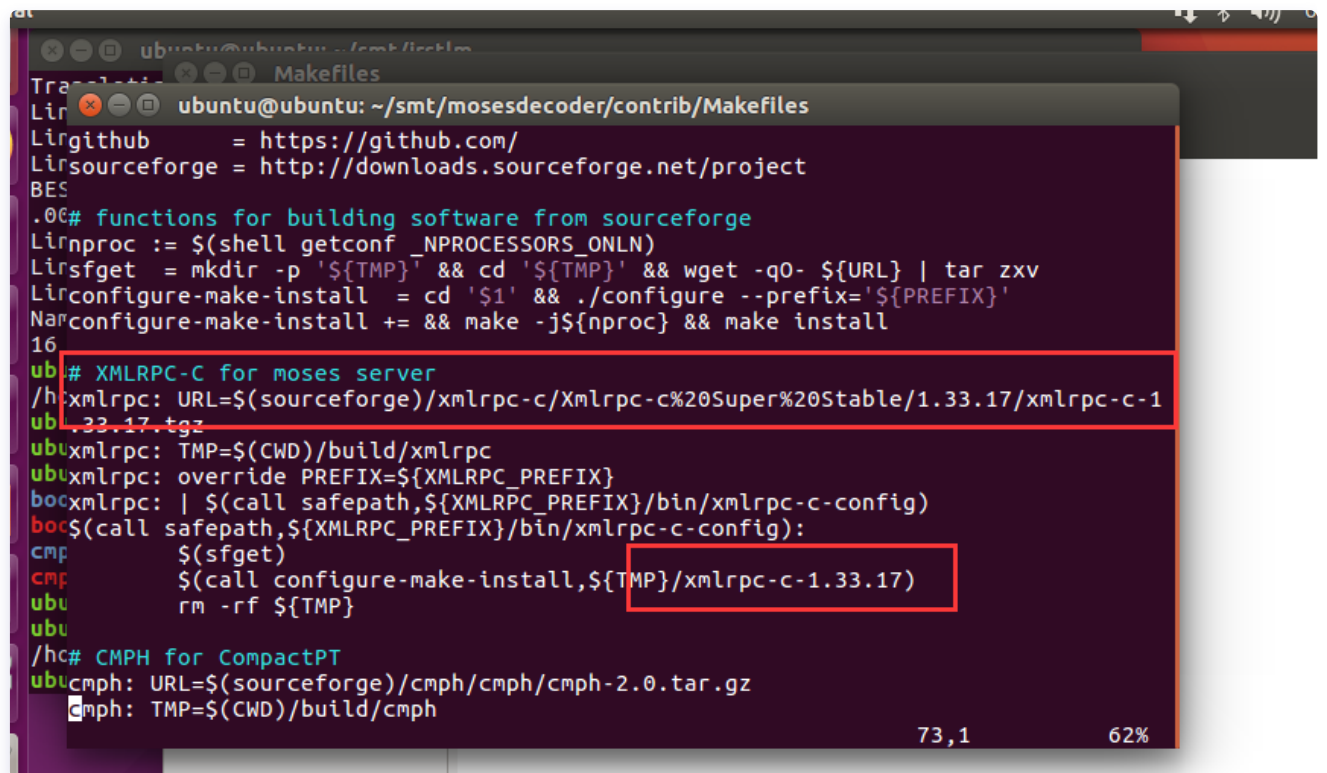
7.1 编译moses

```
1 cd ~/smt/mosesdecoder
2 make -f contrib/Makefiles/install-dependencies.gmake
```

在这个过程中出现了ERROR

```
1 sudo vim install-dependencies.gmake
```

通过查看这个gmake文件，找到问题的位置。问题应该是出在这个文件编译过程中xmlrpc这个包下载不下来，看了一些博客和教程他们的方法都不管用，我自己认为xmlrpc之前已经安装过了，所以我注释了这一段。



而且在图中可以看到xmlrpc这个包的URL地址，我直接去这个地址上也down不下来，它的版本跟我在前几步中下载安装的版本也不对。

7.2 安装moses

```
1 cd ~/smt/mosesdecoder
2 sudo ./bjam --with-boost=../boost_1_64_0 --with-cmph=../cmph-2.0 --with-irstlm=../irstlm --with-giza=../giza-pp
```

这个过程需要一点时间，我在这一步失败了，提示我built failed

```

ubuntu@ubuntu: ~/smt/mosesdecoder
ary_test.passed
Running 2 test cases...
*** No errors detected
gcc.link mert/mert
gcc.link mert/extractor
gcc.link mert/evaluator
gcc.link mert/pro
gcc.link mert/kbmira
gcc.link mert/sentence-bleu
gcc.link mert/sentence-bleu-nbest
gcc.link mert/hgdecode
...failed updating 1 target...
...skipped 83 targets...
...updated 1160 targets...
The build failed. If you need support, run:
./jam-files/bjam --with-boost=../boost_1_64_0 --with-cmph=../cmph-2.0 --with-irstlm=../irstlm --with-giza=../giza-pp --debug-configuration -d2 |gzip >build.log.gz
then attach build.log.gz to your e-mail.
You MUST do 3 things before sending to the mailing list:
1. Subscribe to the mailing list at http://mailman.mit.edu/mailman/listinfo/moses-support
2. Attach build.log.gz to your e-mail

```

运行如下的命令

```

1 sudo ./jam-files/bjam --with-boost=../boost_1_64_0 --with-cmph=../cmph-2.0 --with-irstlm=../irstlm --with-giza=../giza-pp --debug-configuration -d1 |gzip >build.log.gz

```

在mosesdecoder文件中找到build.log.gz这个压缩包

```

1 # 解压缩
2 gzip -d build.log.gz

```

```

ubuntu@ubuntu: ~/smt/mosesdecoder
ubuntu@ubuntu:~/smt/mosesdecoder$ ls
azure-pipelines.yml  contrib  lib  opt  scripts
biconcor  COPYING  lm  phrase-extract  search
bin  cruise-control  mert  previous.sh  symal
bjam  defer  mingw  probingpt  tools
build  doc  misc  README  util
build.log.gz  doxygen.conf  moses  regression-testing  vw
cgmanifest.json  env-check.yml  moses2  run-regtests.sh
chk.tmp  jam-files  moses-cmd  sample-models
compile.sh  Janroot  onDiskPt  sample-models.tgz
ubuntu@ubuntu:~/smt/mosesdecoder$ gzip -d build.log.gz
ubuntu@ubuntu:~/smt/mosesdecoder$ ls
azure-pipelines.yml  contrib  lib  opt  scripts
biconcor  COPYING  lm  phrase-extract  search
bin  cruise-control  mert  previous.sh  symal
bjam  defer  mingw  probingpt  tools
build  doc  misc  README  util
build.log  doxygen.conf  moses  regression-testing  vw
cgmanifest.json  env-check.yml  moses2  run-regtests.sh
chk.tmp  jam-files  moses-cmd  sample-models
compile.sh  Janroot  onDiskPt  sample-models.tgz
ubuntu@ubuntu:~/smt/mosesdecoder$

```

查看build.log

```

1 vim build.log

```