[Android编译环境——ubuntu12.04上android2.3.4编译错误以及解决](http://blog.csdn.net/stonecao/article/details/10132841)

**1,** 检查jdk

# java -version

如果没有安装，则安装

安装jdk:  
sudo apt-get install sun-java6-jdk

**2,** Ubuntu 12.04的gcc 4.6版本太高了，android编译需要gcc 4.4  
解决办法：更换gcc、g++版本4.6为4.4  
sudo apt-get install gcc-4.4  
sudo apt-get install g++-4.4  
sudo rm -rf /usr/bin/gcc /usr/bin/g++  
sudo ln -s /usr/bin/gcc-4.4 /usr/bin/gcc  
sudo ln -s /usr/bin/g++-4.4 /usr/bin/g++

**3,**

sudo [apt-get](https://www.baidu.com/s?wd=apt-get&tn=44039180_cpr&fenlei=mv6quAkxTZn0IZRqIHckPjm4nH00T1YkmHD3nAndnHF-nyf1myRY0ZwV5Hcvrjm3rH6sPfKWUMw85HfYnjn4nH6sgvPsT6KdThsqpZwYTjCEQLGCpyw9Uz4Bmy-bIi4WUvYETgN-TLwGUv3EnW0LPjb4rHDdPWndnH63rH0zr0) install git-core gnupg flex bison gperf build-essential zip curl zlib1g-dev libc6-dev lib32ncurses5-dev ia32-libs x11proto-core-dev libx11-dev lib32readline5-dev lib32z-dev libgl1-mesa-dev g++-multilib mingw32 tofrodos texinfo libsdl-dev libwxgtk2.6-dev

**4，**

**编译android**  
机子是 ubuntu 12.04LTS  64位,所以需要修改这几个Android.mk  
**4.1 按手册修改Android.mk**

1. ./external/clearsilver/cgi/Android.mk
2. ./external/clearsilver/java-jni/Android.mk
3. ./external/clearsilver/util/Android.mk
4. ./external/clearsilver/cs/Android.mk
5. 找到
6. LOCAL\_CFLAGS += -m32
7. LOCAL\_LDFLAGS += -m32
8. 替换为
9. LOCAL\_CFLAGS += -m64
10. LOCAL\_LDFLAGS += -m64
11. 记得保存文件。
12. 第二步：
13. 修改文件 ./build/core/main.mk
14. 找到
15. ifneq (i686,$(findstring i686,$(build\_arch)))
16. 替换为
17. ifneq (64,$(findstring 64,$(build\_arch)))

然后，使用书中4.1.4编译工OK6410开发板中带的源代 码。

# 5, make: \*\*\* [out/host/linux-x86/obj/EXECUTABLES/aidl\_intermediates/aidl] 错误 1,make: \*\*\* [out/host/linux-x86/obj/lib/libESR\_Portabl

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错误3：

g++: g++: selected multilib '32' not installed  
selected multilib '32' not installed  
make: \*\*\* [out/host/[Linux](http://www.jikexueyuan.com/course/linuxsys/)-x86/obj/EXECUTABLES/aidl\_intermediates/aidl] 错误 1  
make: \*\*\* 正在等待未完成的任务....  
make: \*\*\* [out/host/linux-x86/obj/lib/libESR\_Portable.so] 错误 1

解决方法：

输入：sudo apt-get install gcc-multilib

sudo apt-get install g++-multilib后出现新问题：

g++: g++: host SharedLib: libfst (out/host/linux-x86/obj/lib/libfst.so)  
g++: selected multilib '32' not installedselected multilib '32' not installed  
  
selected multilib '32' not installed  
make: \*\*\* [out/host/linux-x86/obj/EXECUTABLES/aidl\_intermediates/aidl] 错误 1  
make: \*\*\* 正在等待未完成的任务....  
make: \*\*\* [out/host/linux-x86/obj/lib/libESR\_Portable.so] 错误 1

make: \*\*\* [out/host/linux-x86/obj/lib/libfst.so] 错误 1

解决方法

 sudo apt-get install libc6-dev ia32-libs lib32ncurses5-dev x11proto-core-dev libx11-dev lib32readline-gplv2-dev lib32z-dev libgl1-mesa-dev mingw32 tofrodos python-markdown libxml2-utils

sudo apt-get install g++-4.4-multilib

6,(仅供参考)

配置java运行环境

从oracle官方网站下载SUN JDK文件,jdk-6u45-linux-x64.bin http://download.csdn.net/detail/thjfk/8045983

添加可执行权限 $sudo chmod u+x ./jdk-6u45-linux-x64.bin

执行完后会执行./jdk-6u45-linux-x64.bin生成 /jdk1.6.0\_45/ 目录 ,并移动到/opt  
sudo mv  ./jdk1.6.0\_45  /opt/

设置环境变量

sudo vim /etc/profile

在文件的末尾添加以下几行

export JAVA\_HOME=/opt/jdk1.6.0\_45  
export JRE\_HOME=$JAVA\_HOME/jre  
export PATH=$JAVA\_HOME/bin:$PATH:$JRE\_HOME/bin  
export CLASSPATH=$JAVA\_HOME/lib:$JRE\_HOME/lib:$CLASSPATH

$sudo shutdown -r now

$javac -version

如果安装成功则提示javac 1.6.0\_45

3、安装gcc 4.4.7和g++4.4.7,同时将gcc4.6.3降到gcc4.4.7

$ sudo apt-get install gcc-4.4 g++-4.4 gcc-multilib g++-multilib

同时将gcc 4.6.3降到4.4.7，创建软链接

cd /usr/bin

ls -l gcc\*

sudo mv gcc gcc.bak

sudo ln -s gcc-4.4 gcc

ls -l g++\*

sudo mv g++ g++.bak

sudo ln -s g++-4.4 g++

gcc -v

g++ -v  
4.安装编译android需求的库

$ sudo apt-get install git gnupg flex bison gperf build-essential \  
  zip curl libc6-dev libncurses5-dev:i386 x11proto-core-dev \  
  libx11-dev:i386 libreadline6-dev:i386 libgl1-mesa-glx:i386 \  
  libgl1-mesa-dev g++-multilib mingw32 tofrodos \  
  python-markdown libxml2-utils xsltproc zlib1g-dev:i386 genisoimage  
$ sudo ln -s /usr/lib/i386-linux-gnu/mesa/libGL.so.1 /usr/lib/i386-linux-gnu/libGL.so

如果是ubuntu desktop 64bit在处理时有错误发生：

libc6-dev:i386

E: Sub-process /usr/bin/dpkg returned an error code (1)  
执行以下命令  
sudo apt-get -f install