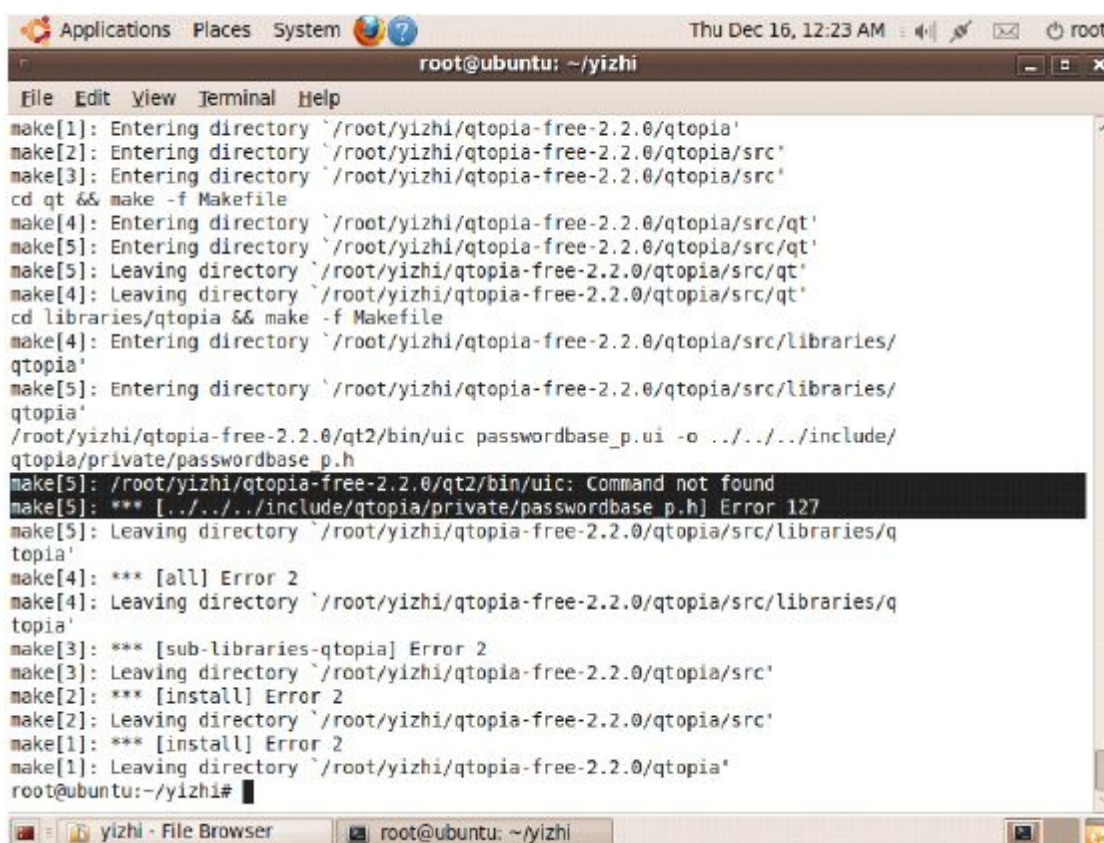


## 附录二 编译 ARM-qtopia-free-src-2.2.0 常见错误的处理

关于一些编译错误的处理

编译过程中如果产生错误信息，需要解决掉才能继续编译下去，错误信息的产生主要是因  
为编译器版本造成的，共有以下几类错误信息：

### 1 缺少工具错误



```
root@ubuntu: ~/yizhi
File Edit View Terminal Help
make[1]: Entering directory `/root/yizhi/qtopia-free-2.2.0/qtopia'
make[2]: Entering directory `/root/yizhi/qtopia-free-2.2.0/qtopia/src'
make[3]: Entering directory `/root/yizhi/qtopia-free-2.2.0/qtopia/src'
cd qt && make -f Makefile
make[4]: Entering directory `/root/yizhi/qtopia-free-2.2.0/qtopia/src/qt'
make[5]: Entering directory `/root/yizhi/qtopia-free-2.2.0/qtopia/src/qt'
make[5]: Leaving directory `/root/yizhi/qtopia-free-2.2.0/qtopia/src/qt'
make[4]: Leaving directory `/root/yizhi/qtopia-free-2.2.0/qtopia/src/qt'
cd libraries/qtopia && make -f Makefile
make[4]: Entering directory `/root/yizhi/qtopia-free-2.2.0/qtopia/src/libraries/
qtopia'
make[5]: Entering directory `/root/yizhi/qtopia-free-2.2.0/qtopia/src/libraries/
qtopia'
/root/yizhi/qtopia-free-2.2.0/qt2/bin/uic passwordbase_p.ui -o ../../../../include/
qtopia/private/passwordbase_p.h
make[5]: /root/yizhi/qtopia-free-2.2.0/qt2/bin/uic: Command not found
make[5]: *** [../../../../include/qtopia/private/passwordbase_p.h] Error 127
make[5]: Leaving directory `/root/yizhi/qtopia-free-2.2.0/qtopia/src/libraries/q
topia'
make[4]: *** [all] Error 2
make[4]: Leaving directory `/root/yizhi/qtopia-free-2.2.0/qtopia/src/libraries/q
topia'
make[3]: *** [sub-libraries-qtopia] Error 2
make[3]: Leaving directory `/root/yizhi/qtopia-free-2.2.0/qtopia/src'
make[2]: *** [install] Error 2
make[2]: Leaving directory `/root/yizhi/qtopia-free-2.2.0/qtopia/src'
make[1]: *** [install] Error 2
make[1]: Leaving directory `/root/yizhi/qtopia-free-2.2.0/qtopia'
root@ubuntu:~/yizhi#
```

这是编译时遇到的第一个问题，编译 qt2 时需要使用 uic 工具，uic 是 PC 上运行的工具，

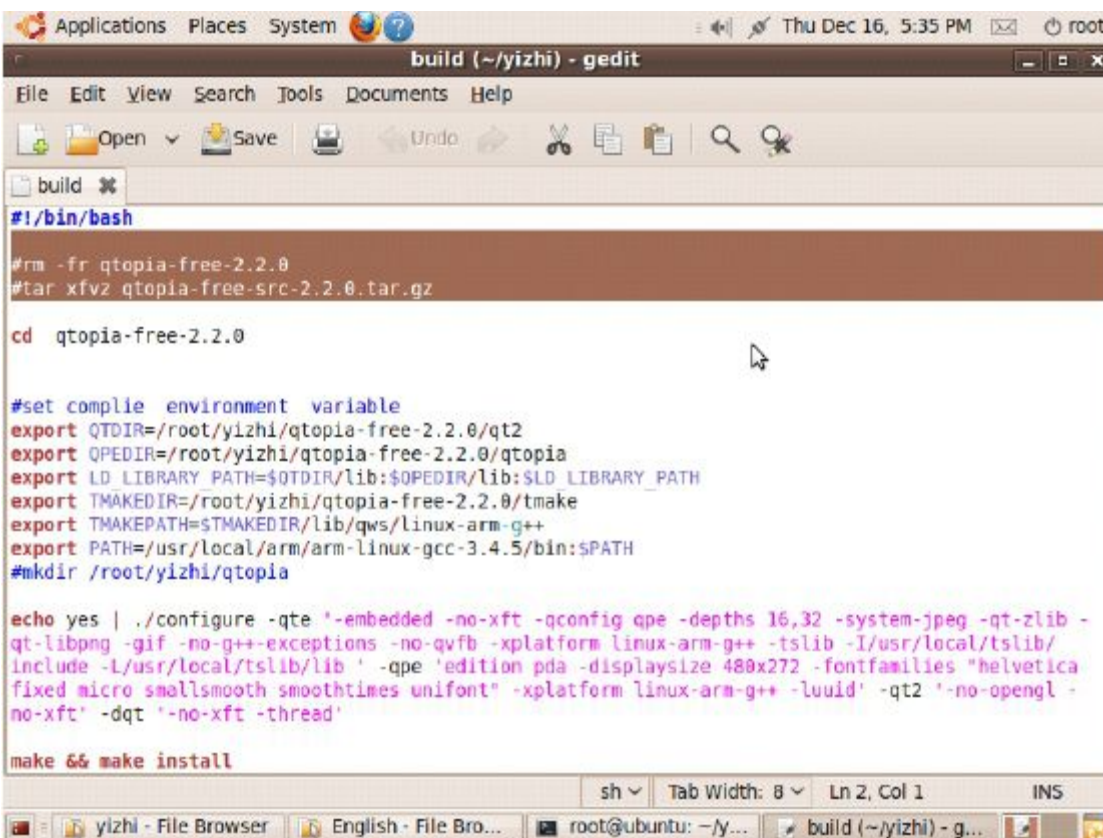
用来把 Qt 的界面文件，也就是.ui 文件转换成.h 文件和.cpp 文件，转换完成后才能交给交叉编译器编译。

解决办法：把 qtopia-free-2.2.0/dqt/bin 里面的 uic 文件拷贝到 qtopia-free-2.2.0/qt2/bin 下面即可。

注意：uic 拷贝到 qtopia-free-2.2.0/qt2/bin 后，需要修改一下 build 脚本文件，因为如果您重新执行 build 命令，该脚本会把刚才编译中的 qtopia-free-2.2.0 文件夹删除，重新解

压，形成新的 qtopia-free-2.2.0，开始编译，这样刚才拷贝的 uic 就没意义了。

修改方法如下图所示：



```
#!/bin/bash

#rm -fr qtopia-free-2.2.0
#tar xfvz qtopia-free-src-2.2.0.tar.gz

cd qtopia-free-2.2.0

#set compile environment variable
export QTDIR=/root/yizhi/qtopia-free-2.2.0/qt2
export QPEDIR=/root/yizhi/qtopia-free-2.2.0/qtopia
export LD_LIBRARY_PATH=$QTDIR/lib:$QPEDIR/lib:$LD_LIBRARY_PATH
export TMAKEDIR=/root/yizhi/qtopia-free-2.2.0/tmake
export TMAKEPATH=$TMAKEDIR/lib/qws/linux-arm-g++
export PATH=/usr/local/arm/arm-linux-gcc-3.4.5/bin:$PATH
#mkdir /root/yizhi/qtopia

echo yes | ./configure -qte '-embedded -no-xft -qconfig qpe -depths 16,32 -system-jpeg -qt-zlib -
qt-libpng -gif -no-g++-exceptions -no-qvfb -xplatform linux-arm-g++ -tslib -I/usr/local/tslib/
include -I/usr/local/tslib/lib ' -qpe 'edition pda -displaysize 480x272 -fontfamilies "helvetica
fixed micro smoothsmoothtimes unifont" -xplatform linux-arm-g++ -luuid' -qt2 '-no-opengl -
no-xft' -dqt '-no-xft -thread'

make && make install
```

就是在 `rm -fr qtopia-free-2.2.0` 和 `tar xfvz qtopia-free-src-2.2.0.tar.gz` 语句前加上 #注释掉，修改后保存退出。

然后执行 `#./build`，重新编译。

## 2 缺少类声明

error: 'QWSInputMethod' has not been declared

修改方法如下：

```
#cd /root/yizhi/qtopia-free-2.2.0/qt2/src/kernel
```

```
# gedit qwindowsystem_qws.h
```

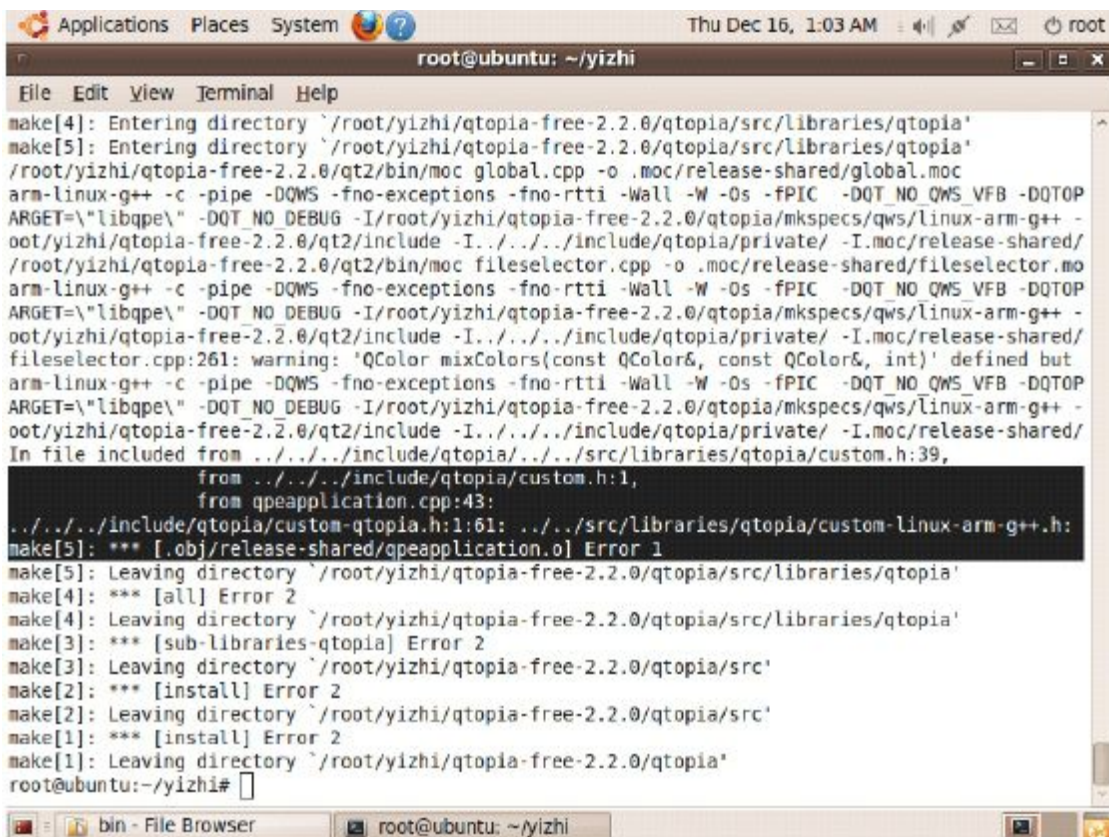
在前面增加以下两行：

```
class QWSInputMethod;
```

```
class QWSGestureMethod;
```

保存退出，继续编译。

## 3 缺少文件错误



```
Applications Places System Thu Dec 16, 1:03 AM root@ubuntu: ~/yizhi
File Edit View Terminal Help
make[4]: Entering directory `/root/yizhi/qtopia-free-2.2.0/qtopia/src/libraries/qtopia'
make[5]: Entering directory `/root/yizhi/qtopia-free-2.2.0/qtopia/src/libraries/qtopia'
/root/yizhi/qtopia-free-2.2.0/qt2/bin/moc global.cpp -o .moc/release-shared/global.moc
arm-linux-g++ -c -pipe -DQWS -fno-exceptions -fno-rtti -Wall -W -Os -fPIC -DQT_NO_QWS_VFB -DQTOP
ARGET="libqpe" -DQT_NO_DEBUG -I/root/yizhi/qtopia-free-2.2.0/qtopia/mkspecs/qws/linux-arm-g++ -
oot/yizhi/qtopia-free-2.2.0/qt2/include -I../../../../include/qtopia/private/ -I.moc/release-shared/
/root/yizhi/qtopia-free-2.2.0/qt2/bin/moc fileselector.cpp -o .moc/release-shared/fileselector.mo
arm-linux-g++ -c -pipe -DQWS -fno-exceptions -fno-rtti -Wall -W -Os -fPIC -DQT_NO_QWS_VFB -DQTOP
ARGET="libqpe" -DQT_NO_DEBUG -I/root/yizhi/qtopia-free-2.2.0/qtopia/mkspecs/qws/linux-arm-g++ -
oot/yizhi/qtopia-free-2.2.0/qt2/include -I../../../../include/qtopia/private/ -I.moc/release-shared/
fileselector.cpp:261: warning: 'QColor mixColors(const QColor&, const QColor&, int)' defined but
arm-linux-g++ -c -pipe -DQWS -fno-exceptions -fno-rtti -Wall -W -Os -fPIC -DQT_NO_QWS_VFB -DQTOP
ARGET="libqpe" -DQT_NO_DEBUG -I/root/yizhi/qtopia-free-2.2.0/qtopia/mkspecs/qws/linux-arm-g++ -
oot/yizhi/qtopia-free-2.2.0/qt2/include -I../../../../include/qtopia/private/ -I.moc/release-shared/
In file included from ../../../../../../include/qtopia/../../../../src/libraries/qtopia/custom.h:39,
from ../../../../../../include/qtopia/custom.h:1,
from qpeapplication.cpp:43:
../../../../include/qtopia/custom-qtopia.h:1:61: ../../src/libraries/qtopia/custom-linux-arm-g++.h:
make[5]: *** [.obj/release-shared/qpeapplication.o] Error 1
make[5]: Leaving directory `/root/yizhi/qtopia-free-2.2.0/qtopia/src/libraries/qtopia'
make[4]: *** [all] Error 2
make[4]: Leaving directory `/root/yizhi/qtopia-free-2.2.0/qtopia/src/libraries/qtopia'
make[3]: *** [sub-libraries-qtopia] Error 2
make[3]: Leaving directory `/root/yizhi/qtopia-free-2.2.0/qtopia/src'
make[2]: *** [install] Error 2
make[2]: Leaving directory `/root/yizhi/qtopia-free-2.2.0/qtopia/src'
make[1]: *** [install] Error 2
make[1]: Leaving directory `/root/yizhi/qtopia-free-2.2.0/qtopia'
root@ubuntu:~/yizhi#
```

源代码需要 custom-linux-arm-g++/h/cpp 文件，但是没找到。

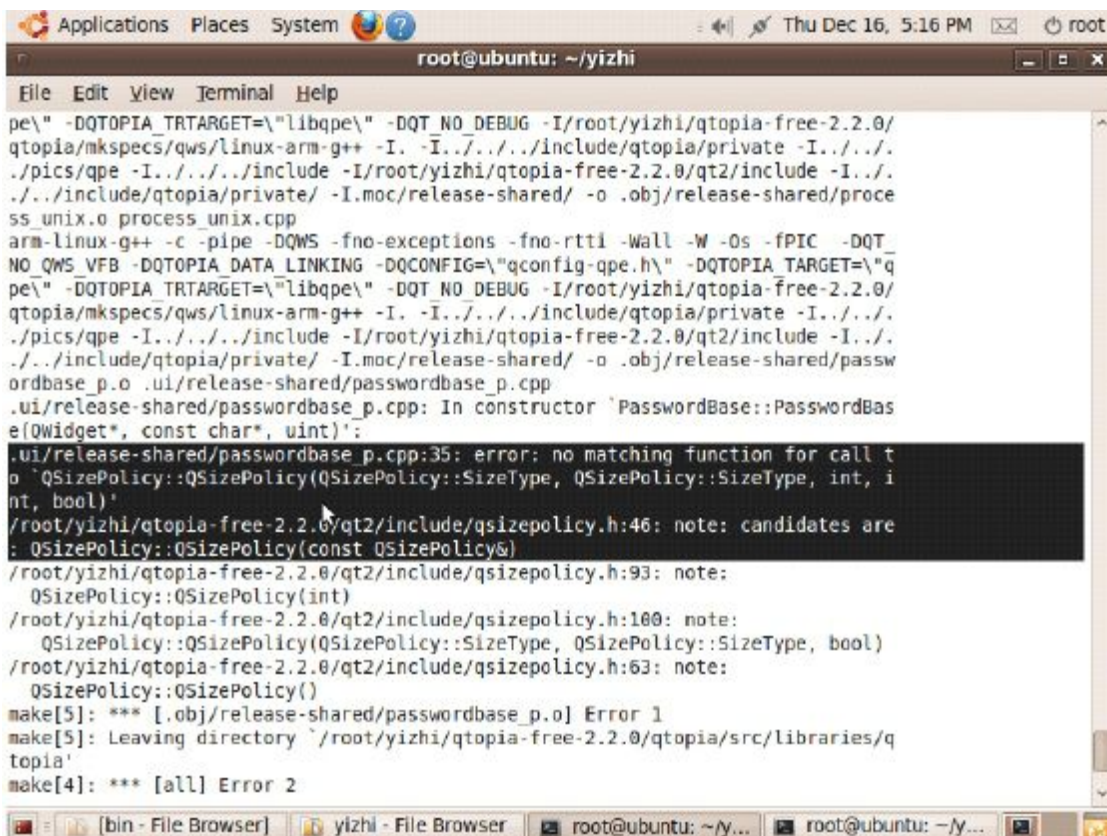
解决办法：



```
#cd ./qtopia-free-2.2.0/qtopia/src/libraries/qtopia
#cp custom-linux-ipaq-g++ .h custom-linux-arm-g++ .h
#cp custom-linux-ipaq-g++.cpp custom-linux-arm-g++.cpp
继续编译
#cd /root/yizhi
#./build
```

## 4 无法匹配到 QSizePolicy 类的构造函数

即 QSizePolicy 类没有提供特定参数的构造函数

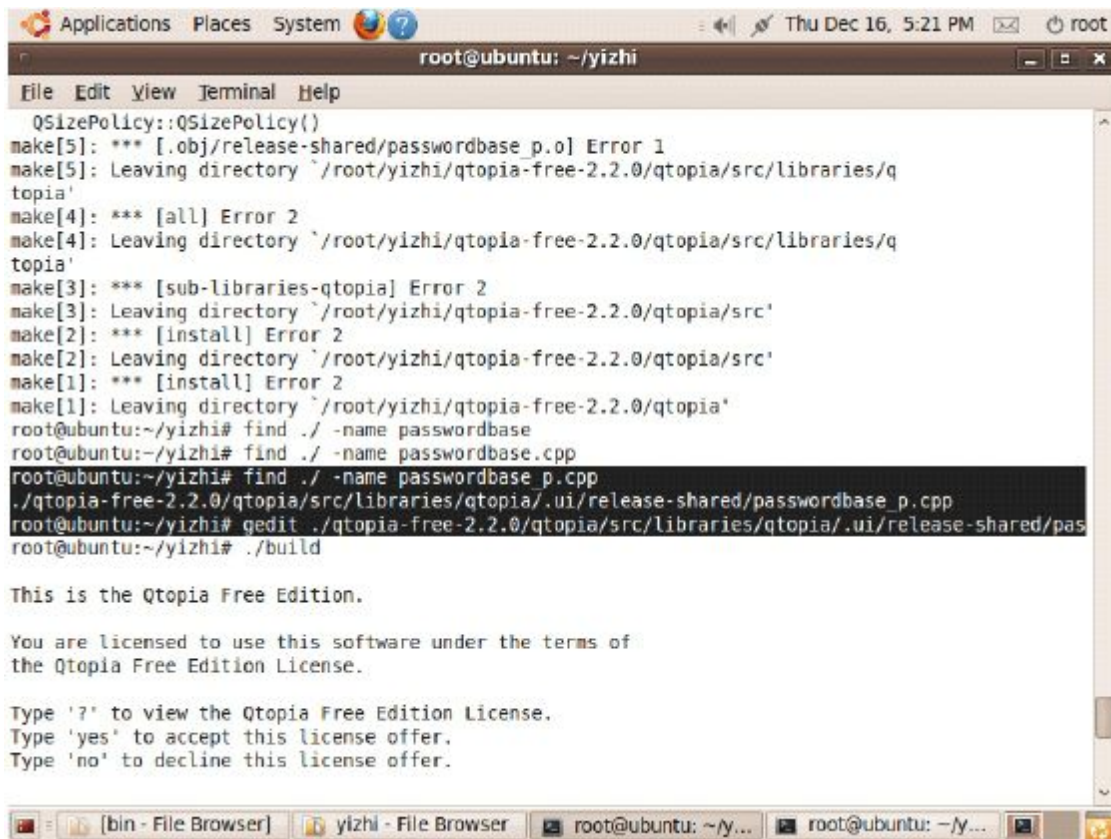


```
pe\" -DQTOPIA_TRITARGET=\"libqpe\" -DQT_NO_DEBUG -I/root/yizhi/qtopia-free-2.2.0/
qtopia/mkspecs/qws/linux-arm-g++ -I. -I../include/qtopia/private -I../.
../pics/qpe -I../include -I/root/yizhi/qtopia-free-2.2.0/qt2/include -I../.
../include/qtopia/private/ -I.moc/release-shared/ -o .obj/release-shared/proce
ss_unix.o process_unix.cpp
arm-linux-g++ -c -pipe -DQWS -fno-exceptions -fno-rtti -Wall -W -Os -fPIC -DQT_
NO_QWS_VFB -DQTOPIA_DATA_LINKING -DQCONFIG=\"qconfig-qpe.h\" -DQTOPIA_TARGET=\"q
pe\" -DQTOPIA_TRITARGET=\"libqpe\" -DQT_NO_DEBUG -I/root/yizhi/qtopia-free-2.2.0/
qtopia/mkspecs/qws/linux-arm-g++ -I. -I../include/qtopia/private -I../.
../pics/qpe -I../include -I/root/yizhi/qtopia-free-2.2.0/qt2/include -I../.
../include/qtopia/private/ -I.moc/release-shared/ -o .obj/release-shared/passw
ordbase_p.o .ui/release-shared/passwordbase_p.cpp
.ui/release-shared/passwordbase_p.cpp: In constructor 'PasswordBase::PasswordBas
e(QWidget*, const char*, uint)':
.ui/release-shared/passwordbase_p.cpp:35: error: no matching function for call t
o 'QSizePolicy::QSizePolicy(QSizePolicy::SizeType, QSizePolicy::SizeType, int, i
nt, bool)'
/root/yizhi/qtopia-free-2.2.0/qt2/include/qsizepolicy.h:46: note: candidates are
: QSizePolicy::QSizePolicy(const QSizePolicy&)
/root/yizhi/qtopia-free-2.2.0/qt2/include/qsizepolicy.h:93: note:
    QSizePolicy::QSizePolicy(int)
/root/yizhi/qtopia-free-2.2.0/qt2/include/qsizepolicy.h:100: note:
    QSizePolicy::QSizePolicy(QSizePolicy::SizeType, QSizePolicy::SizeType, bool)
/root/yizhi/qtopia-free-2.2.0/qt2/include/qsizepolicy.h:63: note:
    QSizePolicy::QSizePolicy()
make[5]: *** [.obj/release-shared/passwordbase_p.o] Error 1
make[5]: Leaving directory `/root/yizhi/qtopia-free-2.2.0/qtopia/src/libraries/q
topia'
make[4]: *** [all] Error 2
```

解决办法：

查看出错信息的文件，这里是 passwordbase\_p.cpp，且出错的地方是第 35 行，使用 find 命令找到该文件在 Ubuntu 中的具体位置：

```
#find ./ -name passwordbase_p.cpp
```



```
root@ubuntu: ~/yizhi
File Edit View Terminal Help
QSizePolicy::QSizePolicy()
make[5]: *** [.obj/release-shared/passwordbase_p.o] Error 1
make[5]: Leaving directory `/root/yizhi/qtopia-free-2.2.0/qtopia/src/libraries/qtopia'
make[4]: *** [all] Error 2
make[4]: Leaving directory `/root/yizhi/qtopia-free-2.2.0/qtopia/src/libraries/qtopia'
make[3]: *** [sub-libraries-qtopia] Error 2
make[3]: Leaving directory `/root/yizhi/qtopia-free-2.2.0/qtopia/src'
make[2]: *** [install] Error 2
make[2]: Leaving directory `/root/yizhi/qtopia-free-2.2.0/qtopia/src'
make[1]: *** [install] Error 2
make[1]: Leaving directory `/root/yizhi/qtopia-free-2.2.0/qtopia'
root@ubuntu:~/yizhi# find ./ -name passwordbase
root@ubuntu:~/yizhi# find ./ -name passwordbase.cpp
root@ubuntu:~/yizhi# find ./ -name passwordbase.p.cpp
./qtopia-free-2.2.0/qtopia/src/libraries/qtopia/.ui/release-shared/passwordbase.p.cpp
root@ubuntu:~/yizhi# gedit ./qtopia-free-2.2.0/qtopia/src/libraries/qtopia/.ui/release-shared/pas
root@ubuntu:~/yizhi# ./build

This is the Qtopia Free Edition.

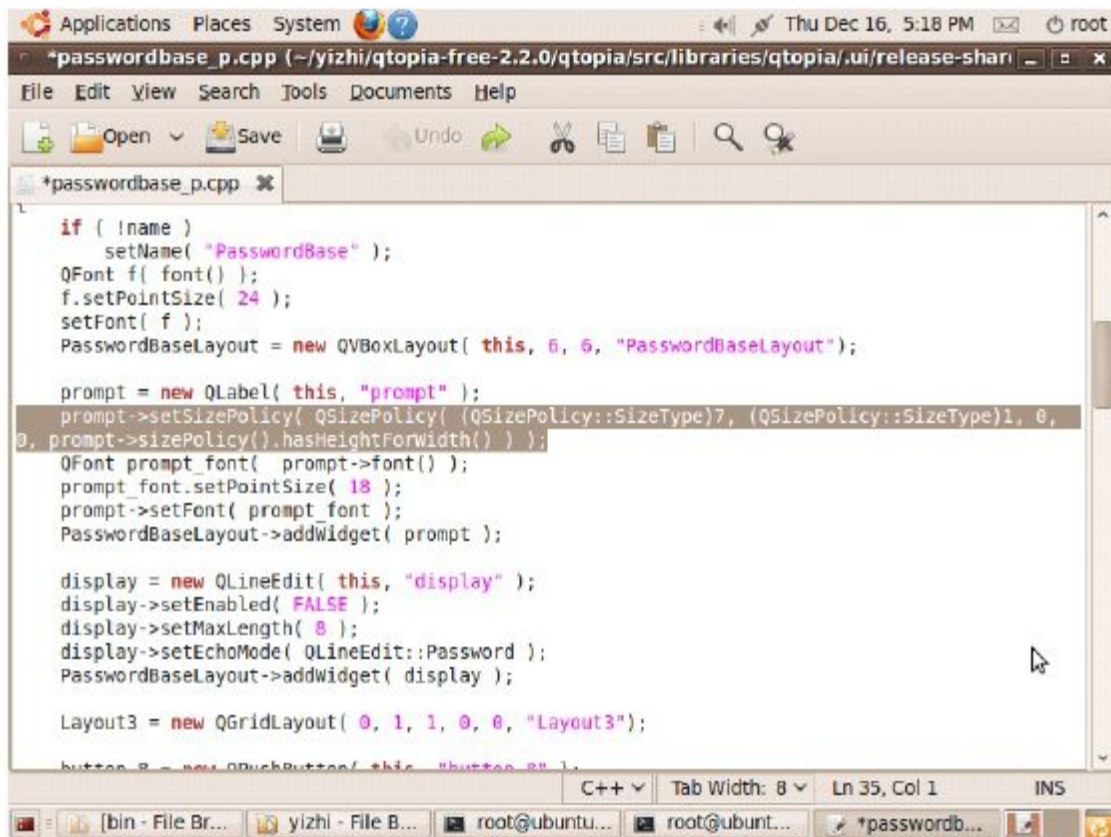
You are licensed to use this software under the terms of
the Qtopia Free Edition License.

Type '?' to view the Qtopia Free Edition License.
Type 'yes' to accept this license offer.
Type 'no' to decline this license offer.
```

找到后在./qtopia-free-2.2.0/qtopia/src/libraries/qtopia/.ui/release-shared 目录下，执行以下命令，修改该文件：

```
# gedit ./qtopia-free-2.2.0/qtopia/src/libraries/qtopia/.ui/release-shared/passwordbase.p.cpp
```

移动光标到第 35 行，如下图所示：



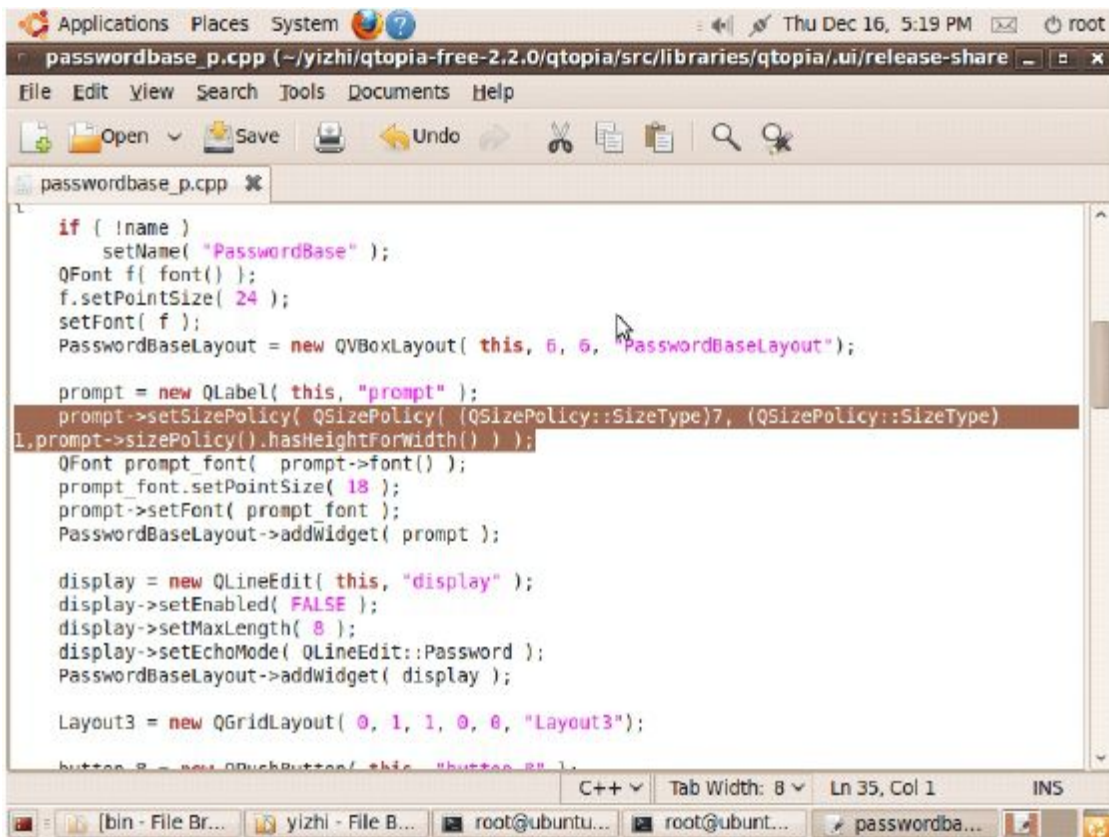
把

prompt->setSizePolicy(QSizePolicy((QSizePolicy::SizeType)7 ,  
(QSizePolicy::SizeType) 7 , 0 , 0 , prompt->sizePolicy().hasHeightForWidth()))

函数中的 0 , 0 去掉 , 即 :

prompt->setSizePolicy(QSizePolicy((QSizePolicy::SizeType)7 ,  
(QSizePolicy::SizeType) 7 , prompt->sizePolicy().hasHeightForWidth()))

去掉后如下图 :



保存退出，执行如下命令重新编译：

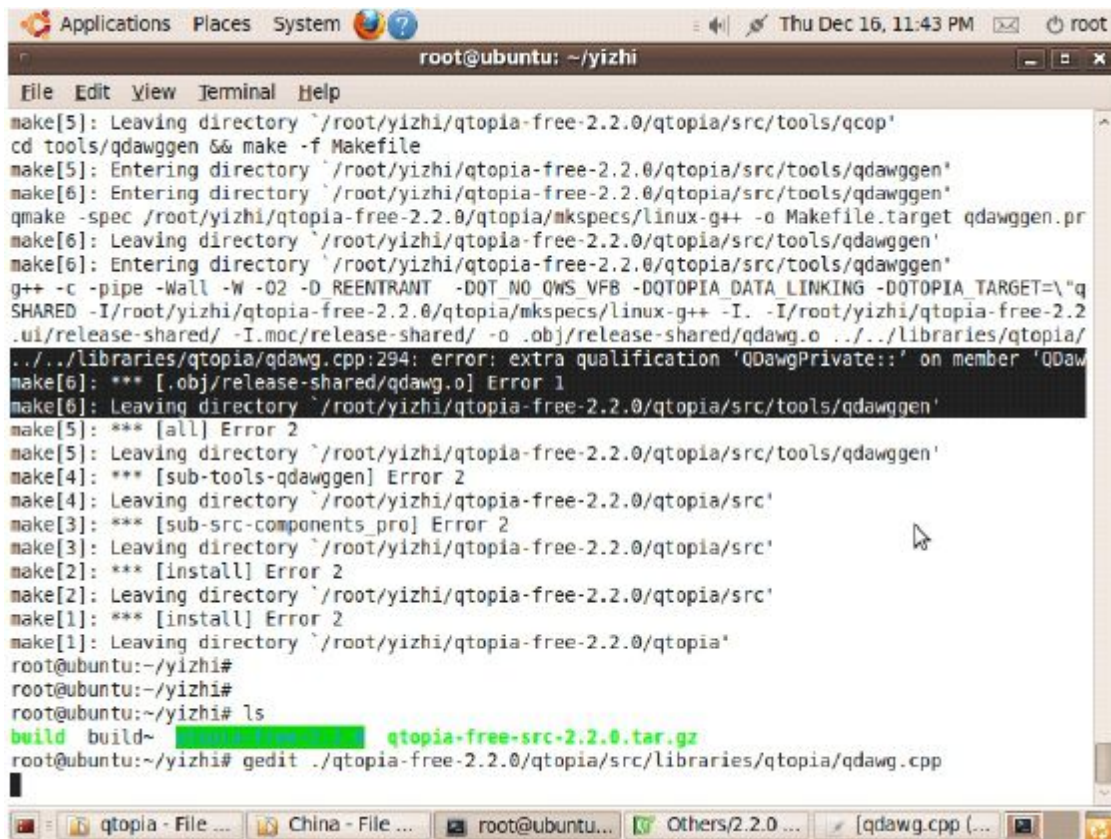
```
#./build
```

重新编译后，会出现若干次这个类型的错误，解决办法非常相似，这里就不一一介绍了。

## 5 类的成员函数前有额外的类名字

如下图：

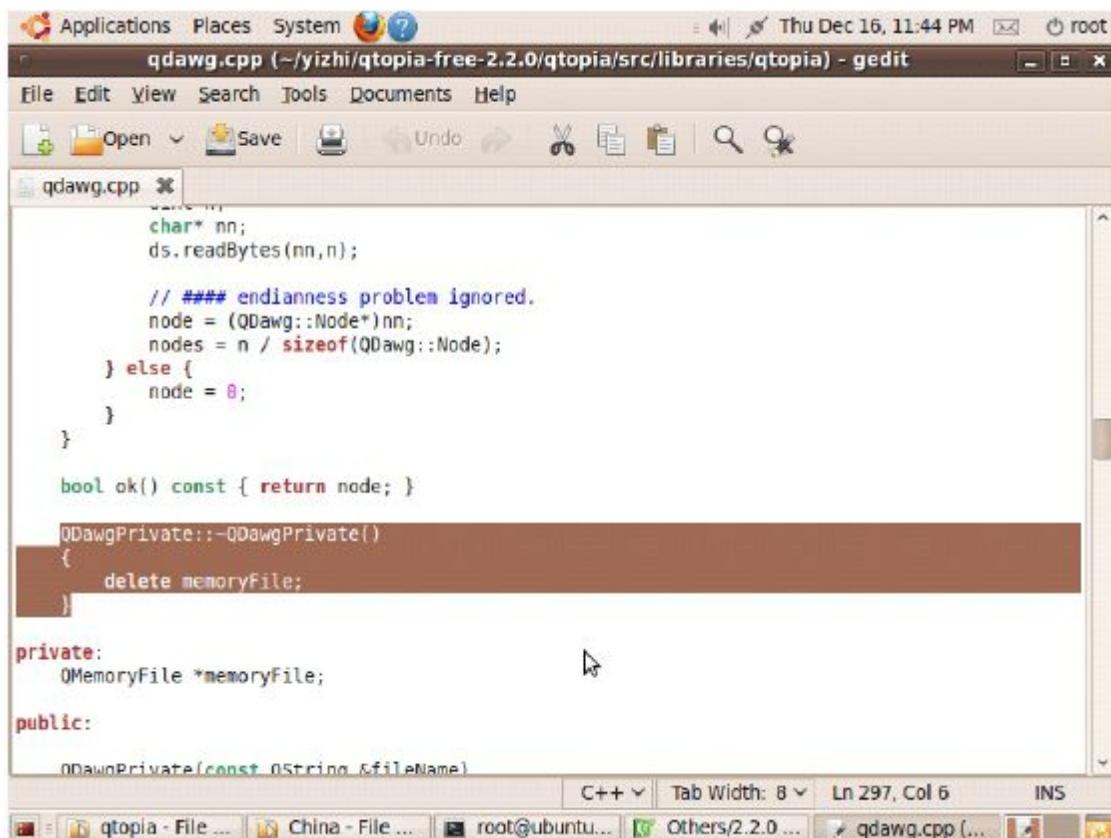




```
root@ubuntu: ~/yizhi
File Edit View Terminal Help
make[5]: Leaving directory `/root/yizhi/qtopia-free-2.2.0/qtopia/src/tools/qcop'
cd tools/qdawggen && make -f Makefile
make[5]: Entering directory `/root/yizhi/qtopia-free-2.2.0/qtopia/src/tools/qdawggen'
make[6]: Entering directory `/root/yizhi/qtopia-free-2.2.0/qtopia/src/tools/qdawggen'
qmake -spec /root/yizhi/qtopia-free-2.2.0/qtopia/mkspecs/linux-g++ -o Makefile.target qdawggen.pr
make[6]: Leaving directory `/root/yizhi/qtopia-free-2.2.0/qtopia/src/tools/qdawggen'
make[6]: Entering directory `/root/yizhi/qtopia-free-2.2.0/qtopia/src/tools/qdawggen'
g++ -c -pipe -Wall -W -O2 -D REENTRANT -DQT_NO_QWS_VFB -DQTOPIA_DATA_LINKING -DQTOPIA_TARGET=\"q
SHARED -I/root/yizhi/qtopia-free-2.2.0/qtopia/mkspecs/linux-g++ -I. -I/root/yizhi/qtopia-free-2.2
.ui/release-shared/ -I.moc/release-shared/ -o .obj/release-shared/qdawg.o ../../libraries/qtopia/
../../libraries/qtopia/qdawg.cpp:294: error: extra qualification 'QDawgPrivate::' on member 'QDaw
make[6]: *** [.obj/release-shared/qdawg.o] Error 1
make[6]: Leaving directory `/root/yizhi/qtopia-free-2.2.0/qtopia/src/tools/qdawggen'
make[5]: *** [all] Error 2
make[5]: Leaving directory `/root/yizhi/qtopia-free-2.2.0/qtopia/src/tools/qdawggen'
make[4]: *** [sub-tools-qdawggen] Error 2
make[4]: Leaving directory `/root/yizhi/qtopia-free-2.2.0/qtopia/src'
make[3]: *** [sub-src-components_pro] Error 2
make[3]: Leaving directory `/root/yizhi/qtopia-free-2.2.0/qtopia/src'
make[2]: *** [install] Error 2
make[2]: Leaving directory `/root/yizhi/qtopia-free-2.2.0/qtopia/src'
make[1]: *** [install] Error 2
make[1]: Leaving directory `/root/yizhi/qtopia-free-2.2.0/qtopia'
root@ubuntu:~/yizhi#
root@ubuntu:~/yizhi#
root@ubuntu:~/yizhi# ls
build build~ qtopia-free-src-2.2.0.tar.gz
root@ubuntu:~/yizhi# gedit ./qtopia-free-2.2.0/qtopia/src/libraries/qtopia/qdawg.cpp
```

解决办法：

根据错误提示信息找到 qdawg.cpp 文件，gedit 打开该文件，移动光标到 294 行。



```
qdawg.cpp (-/yizhi/qtopia-free-2.2.0/qtopia/src/libraries/qtopia) - gedit
File Edit View Search Tools Documents Help
Open Save Undo Cut Copy Paste Find
qdawg.cpp x
char* nn;
ds.readBytes(nn,n);

// ### endianness problem ignored.
node = (QDawg::Node*)nn;
nodes = n / sizeof(QDawg::Node);
} else {
    node = 0;
}
}

bool ok() const { return node; }

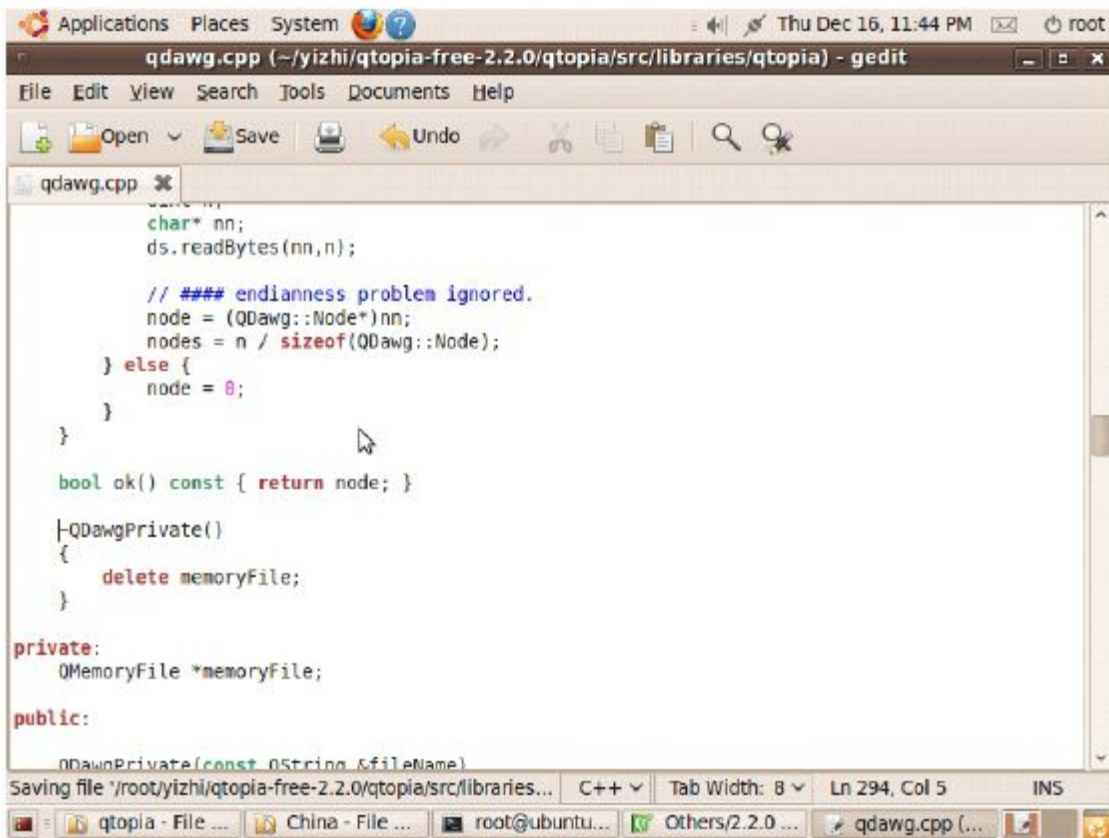
QDawgPrivate::~QDawgPrivate()
{
    delete memoryFile;
}

private:
    QMemoryFile *memoryFile;

public:
    QDawgPrivate(const QString &fileName)
```



修改后如下图：

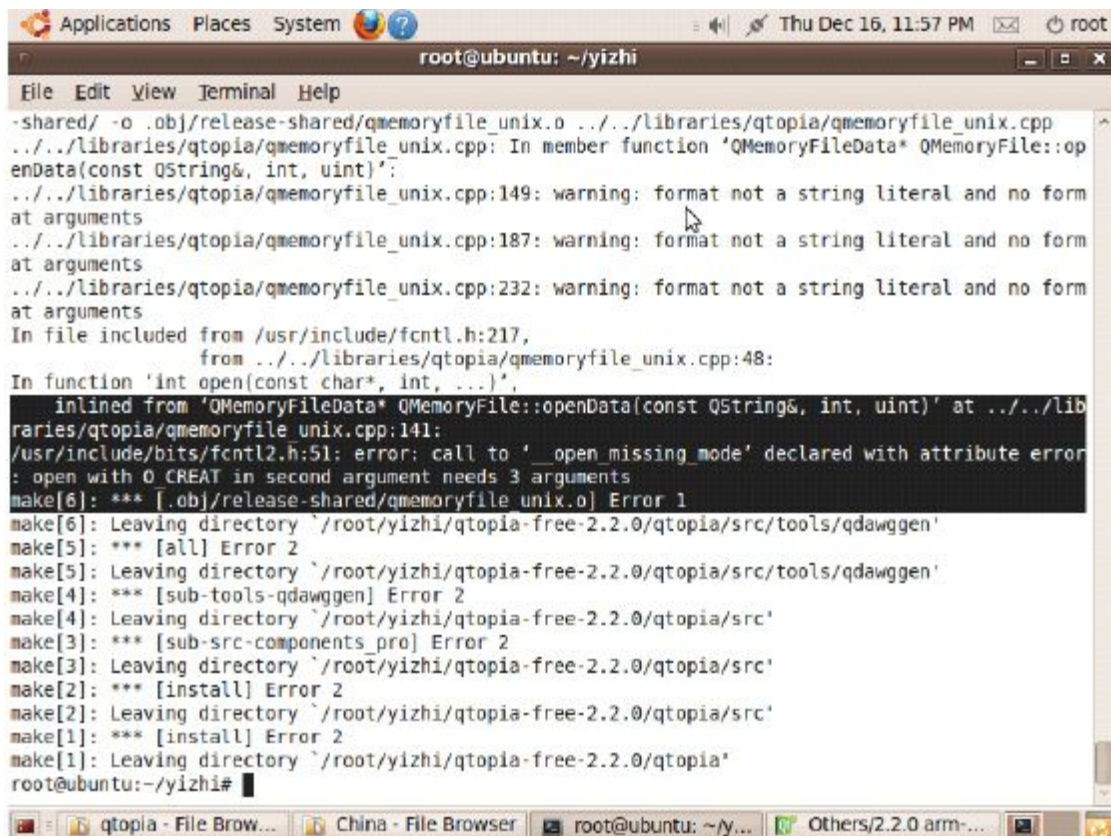


保存退出，继续编译

#./build

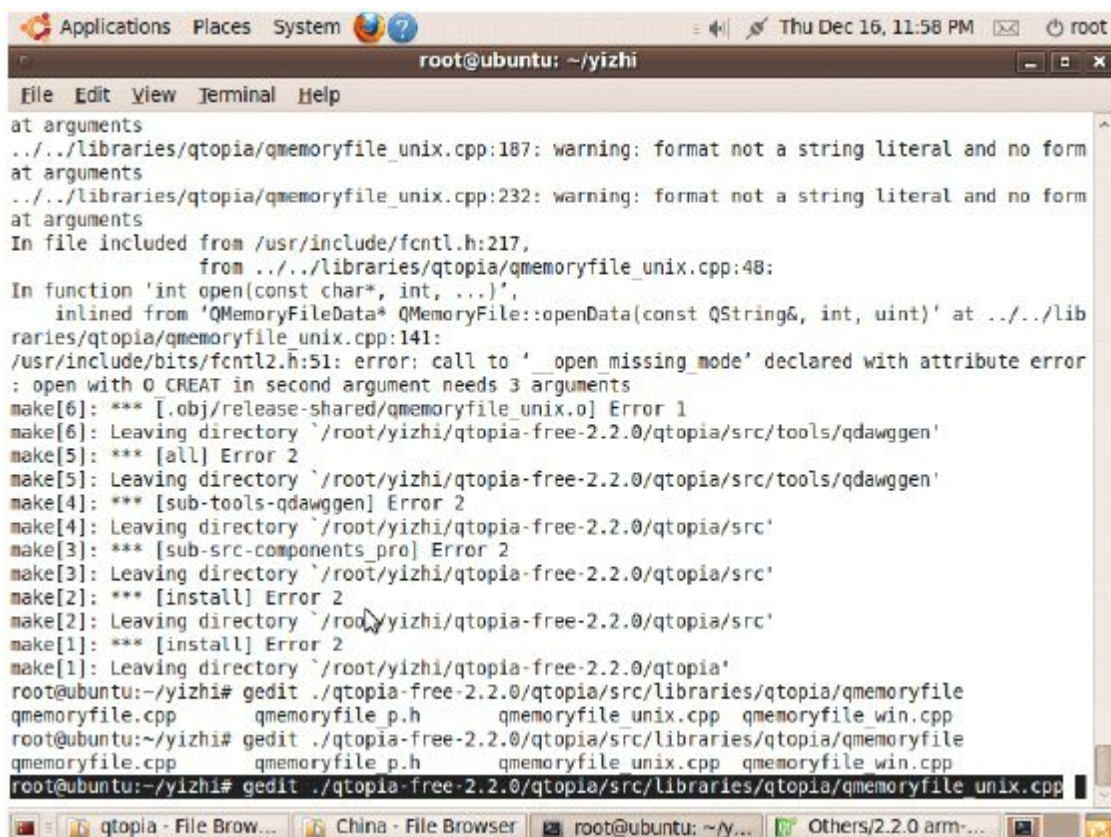
## 6. open 函数调用缺少必要的参数

如下图提示的错误：



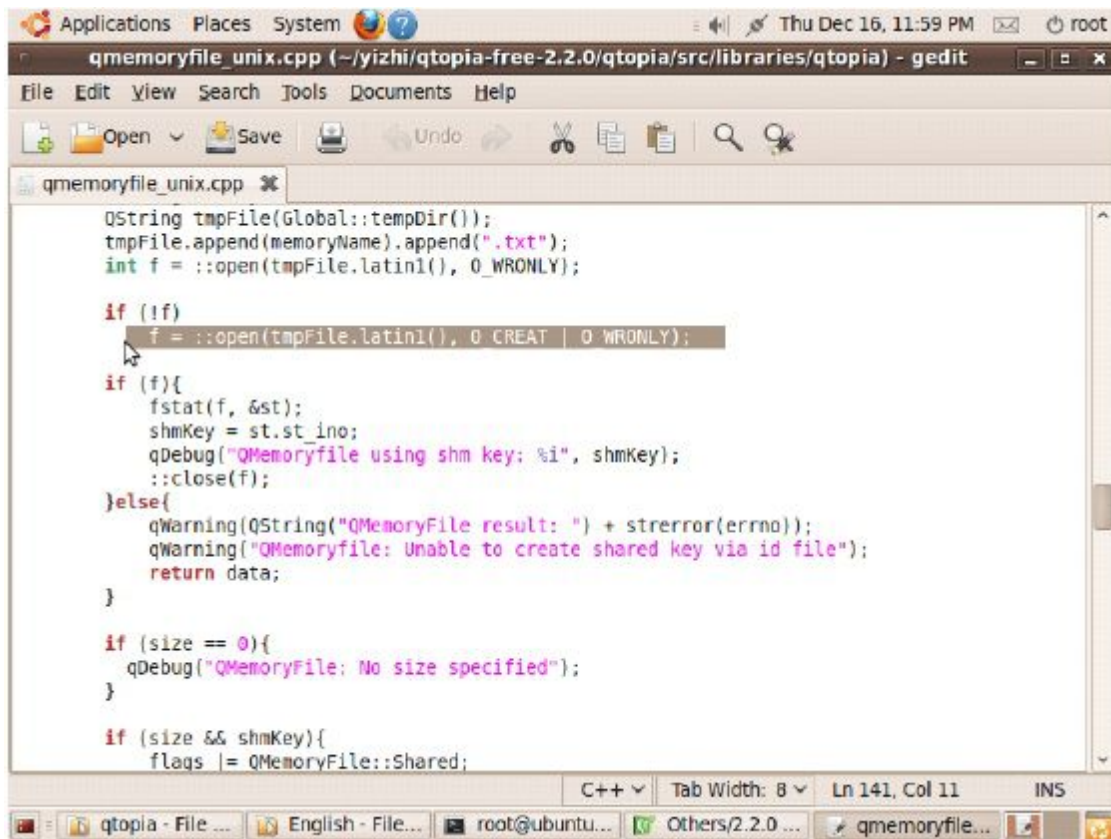
```
Applications Places System ? Thu Dec 16, 11:57 PM root
root@ubuntu: ~/yizhi
File Edit View Terminal Help
-shared/ -o .obj/release-shared/qmemoryfile_unix.o ../../libraries/qtopia/qmemoryfile_unix.cpp
../../libraries/qtopia/qmemoryfile_unix.cpp: In member function 'QMemoryFileData* QMemoryFile::openData(const QString&, int, uint)':
../../libraries/qtopia/qmemoryfile_unix.cpp:149: warning: format not a string literal and no form
at arguments
../../libraries/qtopia/qmemoryfile_unix.cpp:187: warning: format not a string literal and no form
at arguments
../../libraries/qtopia/qmemoryfile_unix.cpp:232: warning: format not a string literal and no form
at arguments
In file included from /usr/include/fcntl.h:217,
from ../../libraries/qtopia/qmemoryfile_unix.cpp:48:
In function 'int open(const char*, int, ...)',
inlined from 'QMemoryFileData* QMemoryFile::openData(const QString&, int, uint)' at ../../lib
raries/qtopia/qmemoryfile_unix.cpp:141:
/usr/include/bits/fcntl2.h:51: error: call to '__open_missing_mode' declared with attribute error
: open with O_CREAT in second argument needs 3 arguments
make[6]: *** [.obj/release-shared/qmemoryfile_unix.o] Error 1
make[6]: Leaving directory `/root/yizhi/qtopia-free-2.2.0/qtopia/src/tools/qdawggen'
make[5]: *** [all] Error 2
make[5]: Leaving directory `/root/yizhi/qtopia-free-2.2.0/qtopia/src/tools/qdawggen'
make[4]: *** [sub-tools-qdawggen] Error 2
make[4]: Leaving directory `/root/yizhi/qtopia-free-2.2.0/qtopia/src'
make[3]: *** [sub-src-components_pro] Error 2
make[3]: Leaving directory `/root/yizhi/qtopia-free-2.2.0/qtopia/src'
make[2]: *** [install] Error 2
make[2]: Leaving directory `/root/yizhi/qtopia-free-2.2.0/qtopia/src'
make[1]: *** [install] Error 2
make[1]: Leaving directory `/root/yizhi/qtopia-free-2.2.0/qtopia'
root@ubuntu:~/yizhi#
```

解决办法参考下图：



```
Applications Places System ? Thu Dec 16, 11:58 PM root
root@ubuntu: ~/yizhi
File Edit View Terminal Help
at arguments
../../libraries/qtopia/qmemoryfile_unix.cpp:187: warning: format not a string literal and no form
at arguments
../../libraries/qtopia/qmemoryfile_unix.cpp:232: warning: format not a string literal and no form
at arguments
In file included from /usr/include/fcntl.h:217,
from ../../libraries/qtopia/qmemoryfile_unix.cpp:48:
In function 'int open(const char*, int, ...)',
inlined from 'QMemoryFileData* QMemoryFile::openData(const QString&, int, uint)' at ../../lib
raries/qtopia/qmemoryfile_unix.cpp:141:
/usr/include/bits/fcntl2.h:51: error: call to '__open_missing_mode' declared with attribute error
: open with O_CREAT in second argument needs 3 arguments
make[6]: *** [.obj/release-shared/qmemoryfile_unix.o] Error 1
make[6]: Leaving directory `/root/yizhi/qtopia-free-2.2.0/qtopia/src/tools/qdawggen'
make[5]: *** [all] Error 2
make[5]: Leaving directory `/root/yizhi/qtopia-free-2.2.0/qtopia/src/tools/qdawggen'
make[4]: *** [sub-tools-qdawggen] Error 2
make[4]: Leaving directory `/root/yizhi/qtopia-free-2.2.0/qtopia/src'
make[3]: *** [sub-src-components_pro] Error 2
make[3]: Leaving directory `/root/yizhi/qtopia-free-2.2.0/qtopia/src'
make[2]: *** [install] Error 2
make[2]: Leaving directory `/root/yizhi/qtopia-free-2.2.0/qtopia/src'
make[1]: *** [install] Error 2
make[1]: Leaving directory `/root/yizhi/qtopia-free-2.2.0/qtopia'
root@ubuntu:~/yizhi# gedit ../../libraries/qtopia/qmemoryfile
qmemoryfile.cpp qmemoryfile.p.h qmemoryfile_unix.cpp qmemoryfile win.cpp
root@ubuntu:~/yizhi# gedit ../../qtopia-free-2.2.0/qtopia/src/libraries/qtopia/qmemoryfile
qmemoryfile.cpp qmemoryfile.p.h qmemoryfile_unix.cpp qmemoryfile win.cpp
root@ubuntu:~/yizhi# gedit ../../qtopia-free-2.2.0/qtopia/src/libraries/qtopia/qmemoryfile_unix.cpp
```

打开 qmemoryfile\_unix.cpp 文件，修改第 51 行



`f::open(tmpFile , latin1() , 0_CREAT | 0_WRONLY);` 修改为

`f::open(tmpFile , latin1() , 0_CREAT | 0_WRONLY , 0666);`即增加 0666 参数 , 保存, 退出。

对于 open 函数来说, 仅当创建新文件时, 第三个参数使用, 用于指定文件的访问权限位

注意: 共有两处这样的修改, 另外一处:

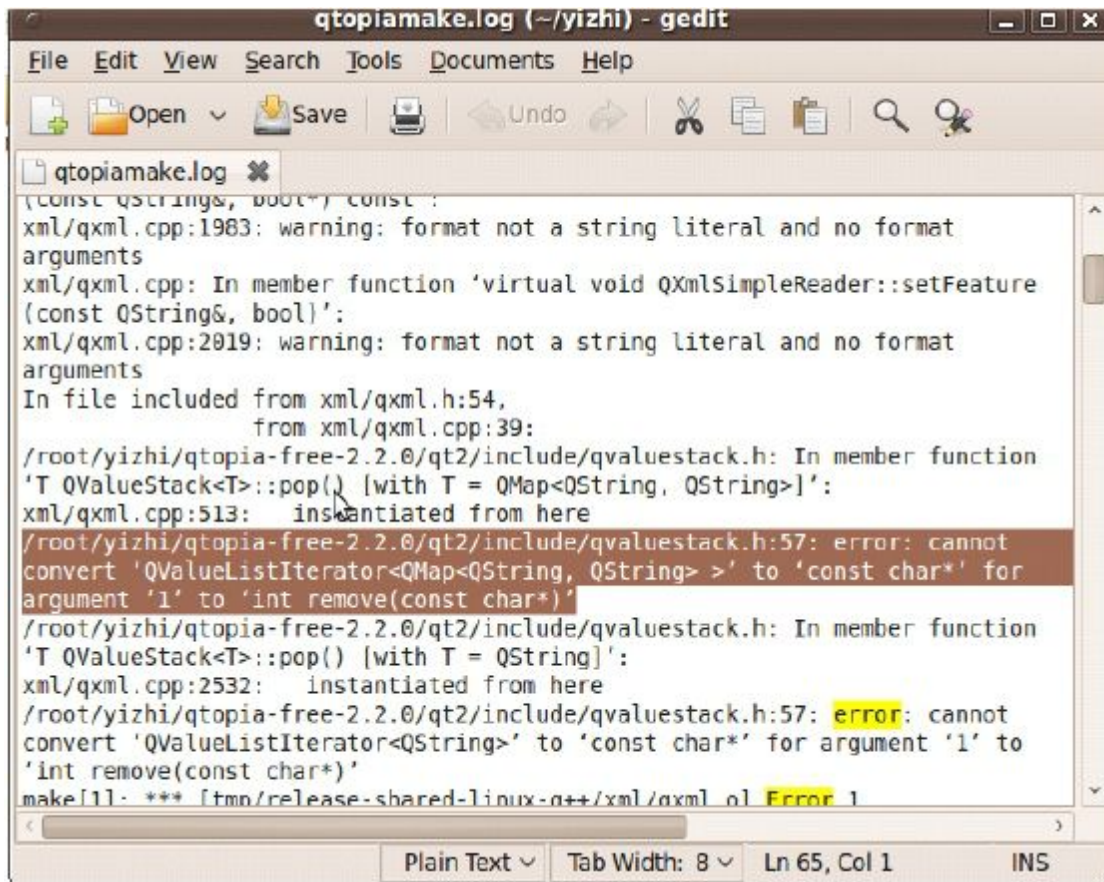
qtopia-free-2.2.0\qt2\src\tools\qmemoryfile\_unix.cpp 文件的第 143 行位置, 修改方法与 qmemoryfile\_unix.cpp 文件相似。

`#./build` 重新编译

## 7 缺少 this 指针

如下图:





解决办法：执行下面的命令

```
# gedit ./qtopia-free-2.2.0/qt2/include/qvaluestack.h
```

移动光标到 57 行

将 `remove( this->fromLast());`改为 `this->remove( this->fromLast());`;

保存退出。

## 8 缺少系统头文件

如下图所示：

The screenshot shows a gedit window titled "qtopiamake.log (~/yizhi) - gedit". The window contains the following text:

```

fno-exceptions -fno-rtti -O2 -Wall -W -DNO_DEBUG -TPIC -DQT_NO_QWS_SWAP -
DQT_NO_QWS_VOODOO3 -DQT_NO_QWS_MACH64 -DQT_NO_QWS_MATROX -DQT_NO_QWS_VNC -
DQT_NO_QWS_VGA 16 -DQT_NO_QWS_DEPTH 4 -DQT_NO_QWS_DEPTH 8 -
DQT_NO_QWS_DEPTH 18 -DQT_NO_QWS_DEPTH 24 -DQT_NO_QWS_VFB -
DQT_BUILTIN_GIF_READER=1 -DQT_NO_IMAGEIO_MNG -DQT_NO_SM_SUPPORT -DQT_NO_XKB -
DQT_QWS_TSLIB -fno-exceptions -I/usr/local/tslib/include -I/root/yizhi/
qtopia-free-2.2.0/qt2/src/3rdparty/zlib -I/root/yizhi/qtopia-free-2.2.0/qt2/
src/3rdparty/libpng -I/usr/X11R6/include -I3rdparty/kernel -I3rdparty/tools
-o tmp/release-shared-linux-arm-g++-no-keypad/kernel/qpixmapcache.o kernel/
qpixmapcache.cpp
kernel/qpixmapcache.cpp:125: fatal error: asm/page.h: No such file or
directory
compilation terminated.
make[1]: *** [tmp/release-shared-linux-arm-g++-no-keypad/kernel/
qpixmapcache.o] Error 1
make[1]: Leaving directory `/root/yizhi/qtopia-free-2.2.0/qt2/src'

*****
*
*
*
*
* ERROR: Building Qtopia has failed.
*
* Please search the make output for any error messages

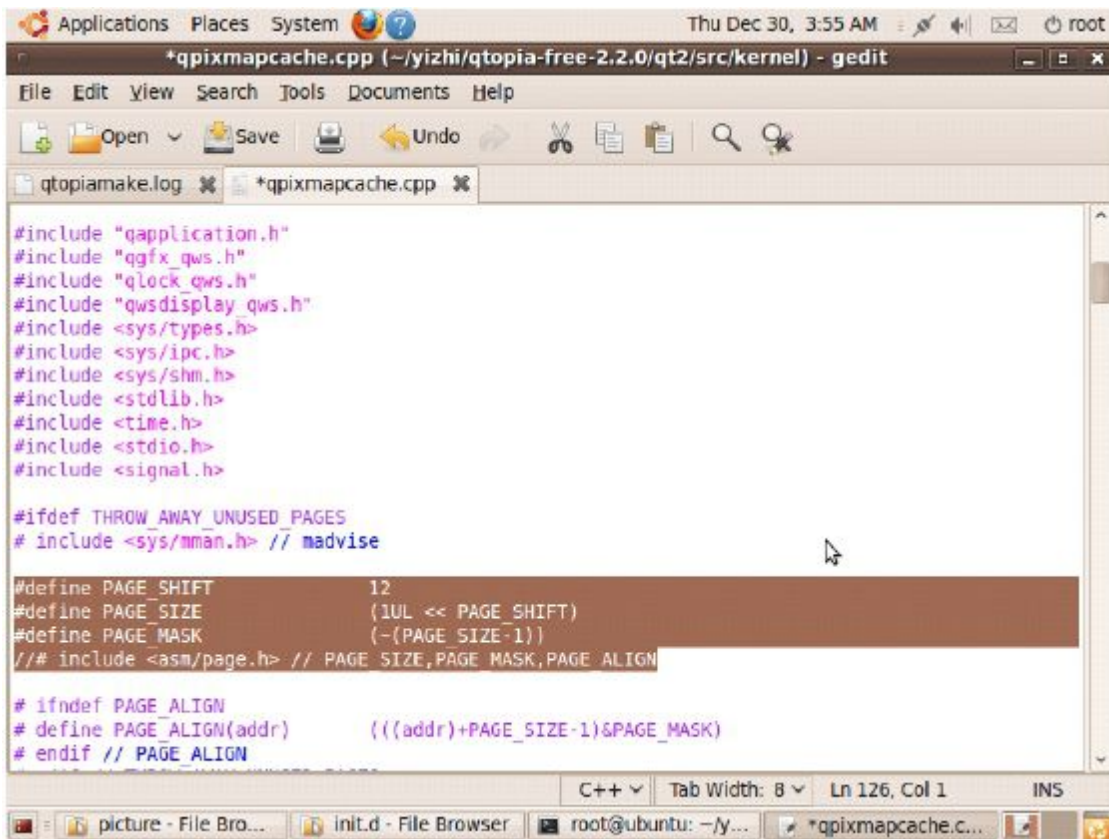
```

The error message "kernel/qpixmapcache.cpp:125: fatal error: asm/page.h: No such file or directory" is highlighted in red. The status bar at the bottom shows "Plain Text", "Tab Width: 8", "Ln 348, Col 1", and "INS".

解决办法如下：

```
# gedit .\ qtopia-free-2.2.0\qt2\src\kernel\qpixmapcache.cpp
```

## 修改第 125 行为



即：

```
#define PAGE_SHIFT 12
```

```
#define PAGE_SIZE (1UL << PAGE_SHIFT)
```

```
#define PAGE_MASK (~(PAGE_SIZE-1))
```

```
// # include <asm/page.h> //PAGE_SIZE , PAGE_MASK , PAGE_ALIGN
```

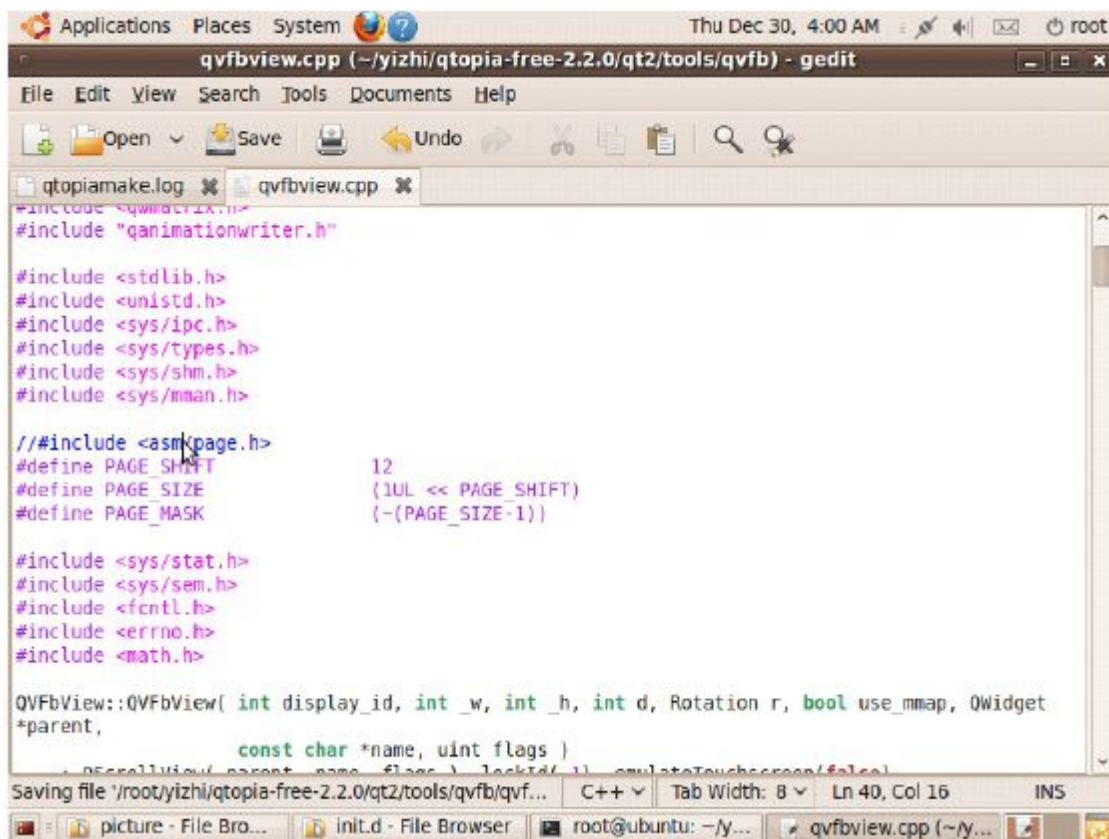
这样修改是因为新的 Linux 内核源码中已经不包含这个头文件了。

另外其他的地方也用到了该头文件，同样需要去掉，执行以下命令：

```
# gedit ./qtopia-free-2.2.0/qt2/tools/qvfb/qvfbview.cpp
```

移动到第 39 行，修改为下图所示：

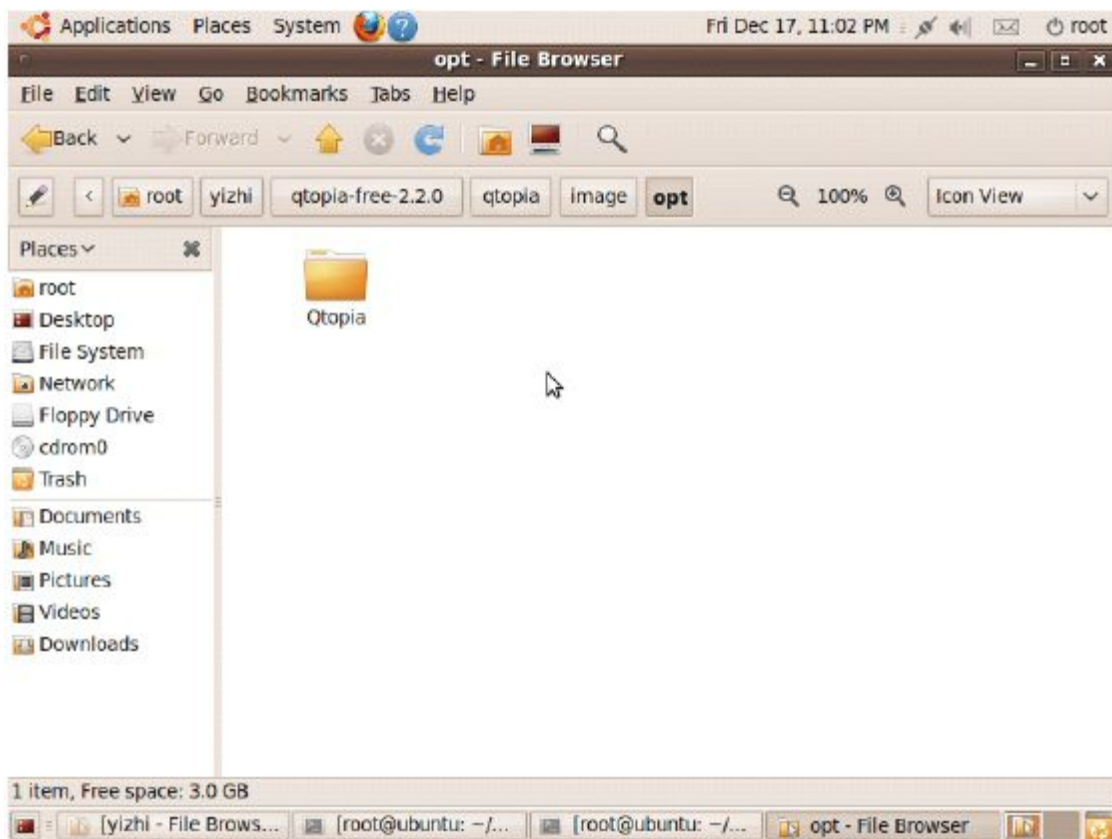




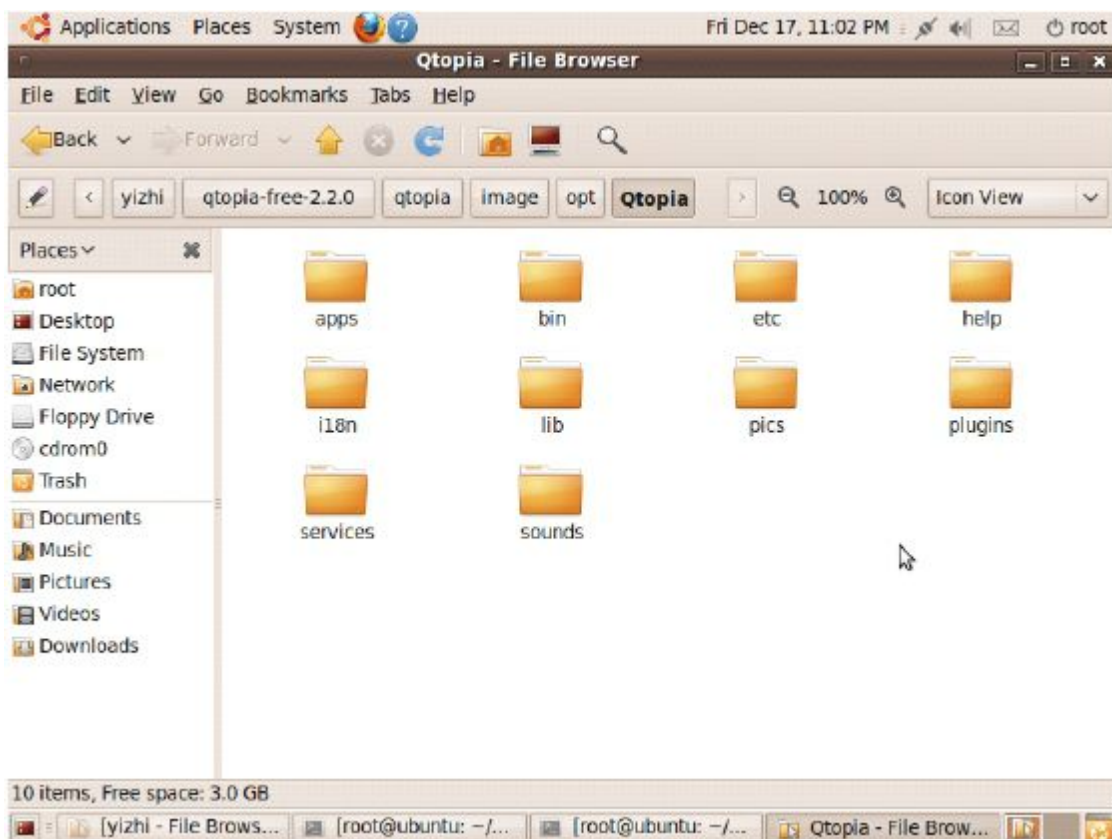
修改原因是因为 asm/page.h 文件里面定义了一些宏，咱们在这里重新定义了必须使用的宏，所以这里就不需要 asm/page.h 文件了。

说明：继续编译后会出现几次以上类型的错误，出现的错误类型就是以上总结的几种（出错的信息通过 google 能找到解决方法），修改方法按以上步骤即可，主要就是发现哪个文件出错，找到该文件，用 gedit 打开该文件，移动到出错的行上，修改，保存退出。出错的文件和行号是根据编译时的错误提示信息来找到的，一定要查找第一个 Error 的地方，这里是需要重点关注的。通过这几种错误类型的修改，您会对 Qt 移植有了新的认识，也提高了您的软件移植能力。

编译成功完成后，Qttopia2.2.0 会自动的安装到 qtopia-free-2.2.0/qtopia/zImage/opt 下面，如下图



进入到 Qtopia 录下面，如图：



注意：编译好的 Qtopia 下面没有字体，自己需要把字体放到 Qtopia/lib/fonts 下面，qtopia-free-2.2.0/qt2/lib/fonts 文件夹下有各种可以用的字体，但是我们只需要 helvetica 类型，该类型支持中文。执行以下命令：

```
#cp/root/yizhi/qtopia-free-2.2.0/qt2/lib/fonts/Helvetica* /root/yizhi/qtopia-free-2.2.0/qtopia/image/opt/Qtopia/lib/fonts/
```

另外需要把/root/yizhi/armlib下面的文件全部拷贝到  
/root/yizhi/qtopia-free-2.2.0/qtopia/image/opt/Qtopia/lib/下面

字体文件和库文件拷贝完成后，把 Qtopia 整个录拷贝到文件系统的 /opt 录下面，如果该目录下面已经有迅为电子提供的 Qtopia 文件夹，您可以把迅为电子提供的 Qtopia 文件夹删除掉，来运行您自己编译的版本，运行方法参考下一章节的 Qtopia2.2.0 的使用。