

Codeblocks 与 Opencv 的安装与配置

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1 codeblocks 安装

1. 安装基本编译环境

```
sudo apt-get install build-essential
```

```
sudo apt-get install
```

2. 安装 codeblocks

```
sudo apt-get install codeblocks
```

```
sudo apt-get install codeblocks-dbg
```

```
sudo apt-get install wxformbuilder
```

3. 安装 wxWidgets

```
sudo apt-get install libwxbase2.8
```

```
sudo apt-get install libwxbase2.8-dev
```

```
sudo apt-get install libwxgtk2.8-0
```

```
sudo apt-get install libwxgtk2.8-dev
```

```
sudo apt-get install libwxgtk2.8-dbg
```

```
sudo apt-get install wx-common
```

```
sudo apt-get install wx2.8-headers
```

```
sudo apt-get install wx2.8-i18n
```

wx2.8-examples 和 wx2.8-doc 想看文档可以装上

4. 配置 codeblocks

打开 codeblocks

settings->global variables

current variable 标签后面点击 new 按钮，出来的框框填写 wx

然后 built-in fields 下面

base /usr

include /usr/include/wx-2.8

lib /usr/lib

点击 close 保存

2 安装 opencv

1. 系统更新

```
sudo apt-get update
```

```
sudo apt-get upgrade
```

2. 安装必要的组件

```
sudo apt-get install build-essential libgtk2.0-dev libjpeg-dev libtiff4-dev
```

```
libjasper-dev libopenexr-dev cmake python-dev python-numpy python-
```

```
tk libtbb-dev libeigen3-dev yasm libfaac-dev libopencore-amrnb-dev
```

libopencore-amrwb-dev libtheora-dev libvorbis-dev libxvidcore-dev libx264-dev libqt4-dev libqt4-opengl-dev sphinx-common texlive-latex-extra libv4l-dev libdc1394-22-dev libavcodec-dev libavformat-dev libswscale-dev default-jdk ant libvtk5-qt4-dev

3. 编译 opencv3.0

进入解压后的 opencv3.0 目录

mkdir build

进入 build 目录

cd build

```
cmake -D WITH_TBB=ON -D BUILD_NEW_PYTHON_SUPPORT=ON
-D WITH_V4L=ON -D INSTALL_C_EXAMPLES=ON -D INSTALL_PYTHON_EXAMPLES=ON
-D BUILD_EXAMPLES=ON -D WITH_QT=ON -D WITH_OPENGL=ON
..
```

4. 安装 opencv3.0

在 build 目录

(a) make

make 编译失败，出现如下错误：

```
make[2]:*** [modules/java/core+Algorithm-jdoc.java] 错误 126
```

```
make[1]:*** [modules/java/CmakeFiles/opencv_java.dir/all] 错误
```

```
2
```

```
make:*** [all] 错误 2
```

搜网上解决方案，把 CMakeLists.txt 里的有关 java 的 `-java support-`和 `==java==` 部分删掉了，影响未知

(b) sudo make install

5. 配置 opencv.conf file , 加入环境变量

```
sudo gedit /etc/ld.so.conf.d/opencv.conf
```

在 opencv.conf 里面加入命令

```
/usr/local/lib
```

更新库目录

```
sudo ldconfig
```

打开文件 bash.bashrc //这个暂时不知道是干嘛的, 我没执行, 程序没影响

```
sudo gedit /etc/bash.bashrc
```

加入下面两行

```
PKG_CONFIG_PATH=$PKG_CONFIG_PATH:/usr/local/lib/pkg-  
config
```

```
export PKG_CONFIG_PATH
```

3 配置

1. codeblocks 链接库配置: Project->Build Options

test1(工程名称)->Linker settings

在 Link libraries 下面写

```
/../../usr/lib/libopencv_core.so
```

```
/../../usr/lib/libopencv_highgui.so
```

以上仅是列举, lib 文件里的都要加进去

2. codeblocks 头文件目录配置 (pkg-config --cflags opencv 结果)

test1->Search directories->Compiler

/usr/include/opencv

/usr/include/opencv2

include 里 opencv 的包都要加上

3. CodeBlocks 路文件目录配置

test1->Search directories->Linker

/usr/lib

安装好后，用 testprogram 里的.cbp 文件测试下

参考网址：<http://blog.csdn.net/adong76/article/details/40018407>

<http://blog.csdn.net/hitwengqi/article/details/7985343>