

在linux上搭建gtest

标签： linux gtest

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分类：

coding style (7)

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1.获取

wget <https://googletest.googlecode.com/files/gtest-1.7.0.zip>

2.编译

unzip gtest-1.7.0.zip

cd gtest-1.7.0

./configure --prefix=/opt/gtest

make

3.安装

sudo mkdir /opt/gtest /opt/gtest/include /opt/gtest/lib

sudo cp -a include/gtest/ /opt/gtest/include

sudo cp -a lib/.libs/* /opt/gtest/lib

rm /opt/gtest/lib/libgtest.la

rm /opt/gtest/lib/libgtest_main.la

sudo cp -a lib/libgtest.la /opt/gtest/lib

sudo cp -a lib/libgtest_main.la /opt/gtest/lib

vim /etc/ld.so.conf.d/gtest.conf，写入/opt/gtest/lib，执行ldconfig

4.测试

在任意一个位置新建目录，把以下这几个文件放入

main.cpp

```
1  #include<iostream>
2  using namespace std;
3
4  #include <limits.h>
5  #include "gtest/gtest.h"
6
7  int main(int argc, char **argv) {
8      ::testing::InitGoogleTest(&argc, argv);
9      return RUN_ALL_TESTS();
10 }
```

func.cpp

```
1  #include<iostream>
2  using namespace std;
3  #include "func.h"
4
5  int func(int a, int b)
6  {
7      return a+b;
8  }
```

func.h

```
1 int func(int a, int b);
```

funcTest.cpp

```
1 #include<iostream>
2 using namespace std;
3
4 #include <limits.h>
5 #include "gtest/gtest.h"
6 #include "func.h"
7
8 TEST(AdditionTest, twoValues) {
9     EXPECT_EQ(3, func(1, 2));
10 }
```

makefile

```
1 CXX = g++
2 CXXFLAGS = -g -L/opt/gtest/lib -lgtest -lgtest_main -lpthread
3 INCS = -I./ -I../include -I/opt/gtest/include
4 OBJJS = func.o funcTest.o
5
6 testAll: $(OBJJS)
7     $(CXX) $(CXXFLAGS) $(INCS) -o testAll main.cpp $(OBJJS) $(INCS)
8
9 .cpp.o:
10     $(CXX) $(CXXFLAGS) -c $< -o $@ $(INCS)
11
12 clean:
13     rm testAll *.o
```

运行：

make

./testAll

```
1 [=====] Running 1 test from 1 test case.
2 [-----] Global test environment set-up.
3 [-----] 1 test from AdditionTest
4 [ RUN      ] AdditionTest.twoValues
5 [       OK ] AdditionTest.twoValues (0 ms)
6 [-----] 1 test from AdditionTest (0 ms total)
7
8 [-----] Global test environment tear-down
9 [=====] 1 test from 1 test case ran. (0 ms total)
10 [  PASSED  ] 1 test.
```

参考资料：

<http://www.yolinux.com/TUTORIALS/Cpp-GoogleTest.html#INSTALLATION>