brks 完整安装指南

感谢: 动脑-广州-驰 的指导手册

作者: 动脑-成都-student

说明: 开课快2月了,看群文件下载记录应该还有很多同学环境没打好。是很

打击人的,本人就是个菜鸟,写个菜鸟指南各位多多指点。

建议:为确保不必要的麻烦,请使用和我一样的安装镜像,没有可以找我要

实验环境

IOS: ubuntu-16.04.3-server-amd64.iso

IP: 192.168.40.153 虚拟机上网方式: NAT

root@ubuntu:~# lsb_release -a

No LSB modules are available.

Distributor ID:Ubuntu

Description: Ubuntu 16.04.3 LTS

Release: 16.04 Codename: xenial

替换 sourcelist

#163 guangdong

deb http://mirrors.163.com/ubuntu/ trusty main restricted universe multiverse

deb http://mirrors.163.com/ubuntu/ trusty-security main restricted universe multiverse

deb http://mirrors.163.com/ubuntu/ trusty-updates main restricted universe multiverse

deb http://mirrors.163.com/ubuntu/ trusty-proposed main restricted universe multiverse

deb http://mirrors.163.com/ubuntu/ trusty-backports main restricted universe multiverse

deb-src http://mirrors.163.com/ubuntu/ trusty main restricted universe multiverse

deb-src http://mirrors.163.com/ubuntu/ trusty-security main restricted universe multiverse deb-src http://mirrors.163.com/ubuntu/ trusty-updates main restricted universe multiverse

deb-src http://mirrors.163.com/ubuntu/ trusty-proposed main restricted universe multiverse

deb-src http://mirrors.163.com/ubuntu/ trusty-backports main restricted universe multiverse

#aliyun

deb-src http://archive.ubuntu.com/ubuntu xenial main restricted

deb http://mirrors.aliyun.com/ubuntu/ xenial main restricted

deb-src http://mirrors.aliyun.com/ubuntu/ xenial main restricted multiverse universe

deb http://mirrors.aliyun.com/ubuntu/ xenial-updates main restricted

deb-src http://mirrors.aliyun.com/ubuntu/ xenial-updates main restricted multiverse universe

deb http://mirrors.aliyun.com/ubuntu/ xenial universe

deb http://mirrors.aliyun.com/ubuntu/ xenial-updates universe

deb http://mirrors.alivun.com/ubuntu/ xenial multiverse

deb http://mirrors.aliyun.com/ubuntu/ xenial-updates multiverse

deb http://mirrors.alivun.com/ubuntu/ xenial-backports main restricted universe multiverse

deb-src http://mirrors.alivun.com/ubuntu/ xenial-backports main restricted universe multiverse

deb http://archive.canonical.com/ubuntu xenial partner

deb-src http://archive.canonical.com/ubuntu xenial partner

deb http://mirrors.aliyun.com/ubuntu/ xenial-security main restricted

```
deb-src http://mirrors.aliyun.com/ubuntu/ xenial-security universe
deb http://mirrors.aliyun.com/ubuntu/ xenial-security universe
deb http://mirrors.aliyun.com/ubuntu/ xenial-security multiverse

#tsinghua.edu
deb http://mirrors.tuna.tsinghua.edu.cn/ubuntu/ xenial main restricted
deb http://mirrors.tuna.tsinghua.edu.cn/ubuntu/ xenial-updates main restricted
deb http://mirrors.tuna.tsinghua.edu.cn/ubuntu/ xenial universe
deb http://mirrors.tuna.tsinghua.edu.cn/ubuntu/ xenial universe
deb http://mirrors.tuna.tsinghua.edu.cn/ubuntu/ xenial universe
deb http://mirrors.tuna.tsinghua.edu.cn/ubuntu/ xenial multiverse
deb http://mirrors.tuna.tsinghua.edu.cn/ubuntu/ xenial-updates multiverse
deb http://mirrors.tuna.tsinghua.edu.cn/ubuntu/ xenial-backports main restricted universe multiverse
deb http://mirrors.tuna.tsinghua.edu.cn/ubuntu/ xenial-security main restricted
deb http://mirrors.tuna.tsinghua.edu.cn/ubuntu/ xenial-security universe
deb http://mirrors.tuna.tsinghua.edu.cn/ubuntu/ xenial-security universe
deb http://mirrors.tuna.tsinghua.edu.cn/ubuntu/ xenial-security universe
deb http://mirrors.tuna.tsinghua.edu.cn/ubuntu/ xenial-security universe
```

替换完源以后执行 apt update

安装常用工具

apt-get install build-essential wget tree git vim cmake

下载 brks 源码

3 directories, 0 files download 存放下载的依赖包 dnxy_bike 存放 brks 项目

git init git clone https://github.com/wzcdbzt/brks.git 删除 third 下面,include 和 lib 下面的所有文件

编译 brks

cd src cmake . make

报错

```
root@ubuntu:/DNXY/projects/dnxy_bike/src# make
    Scanning dependencies of target service
    [ 4%] Building CXX object service/CMakeFiles/service.dir/DispatchMsgService.cpp.o
    In file included from /DNXY/projects/dnxy_bike/src/service/DispatchMsgService.cpp:2:0:
    /DNXY/projects/dnxy_bike/src/./common/Logger.h:5:31:
                                                                fatal
                                                                              error:
    log4cpp/Category.hh: No such file or directory
     #include <log4cpp/Category.hh>
    compilation terminated.
    service/CMakeFiles/service.dir/build.make:62:
                                                     recipe
                                                                  for
                                                                             target
    'service/CMakeFiles/service.dir/DispatchMsqService.cpp.o' failed
    make[2]: *** [service/CMakeFiles/service.dir/DispatchMsgService.cpp.o] Error 1
    CMakeFiles/Makefile2:290: recipe for target 'service/CMakeFiles/service.dir/all' failed
    make[1]: *** [service/CMakeFiles/service.dir/all] Error 2
    Makefile:127: recipe for target 'all' failed
    make: *** [all] Error 2
错误原因
    Logger.h 中引用的头文件找不到
       1:┌#ifndef DISTRIBUTED LOGGER H
       2: #define DISTRIBUTED_LOGGER_H_
       3:
       4: #include <string>
       5: #include <log4cpp/Category.hh>
    下载最新 log4cpp 包,目前最新版本 log4cpp-1.1.3
```

解决办法

```
https://nchc.dl.sourceforge.net/project/log4cpp/log4cpp-
wget
1.1.x%20%28new%29/log4cpp-1.1/log4cpp-1.1.3.tar.gz
解压 log4cpp-1.1.3.tar.gz
tar -zxf log4cpp-1.1.3.tar.gz
从 0.2.0 开始, log4cpp 支持 autoconf, 依次执行。
cd log4cpp
./configure --prefix=/usr
make
make check
sudo make install
#ls -lrt /usr/lib/liblog4cpp*
在 third 下面添加 log4cpp 的 include 和 lib
cd /usr/include
```

```
In -s $(readlink -e log4cpp) /DNXY/projects/dnxy_bike/third/include
    cd /usr/
    In -s $(readlink -e lib) /DNXY/projects/dnxy_bike/third/lib/log4cpp
继续编译 brks
    make clean
    make
报错
    root@ubuntu:/DNXY/projects/dnxy_bike/src# make
    [ 4%] Building CXX object service/CMakeFiles/service.dir/DispatchMsgService.cpp.o
    /DNXY/projects/dnxy_bike/src/service/DispatchMsgService.cpp: In static member
    function 'static void* DispatchMsgService::svc(void*)':
    /DNXY/projects/dnxy_bike/src/service/DispatchMsgService.cpp:124:17: warning: unused
    variable 'rsp' [-Wunused-variable]
              iEvent* rsp = dms->process(ev);
    [ 8%] Building CXX object service/CMakeFiles/service.dir/user_service.cpp.o
    In file included from /DNXY/projects/dnxy_bike/src/service/user_service.h:6:0,
                        from /DNXY/projects/dnxy_bike/src/service/user_service.cpp:2:
    /DNXY/projects/dnxy_bike/src/service/sqlconnection.h:4:25: fatal error: mysql/mysql.h:
    No such file or directory
     #include <mysql/mysql.h>
    compilation terminated.
    service/CMakeFiles/service.dir/build.make:86:
                                                         recipe
                                                                         for
                                                                                    target
    'service/CMakeFiles/service.dir/user_service.cpp.o' failed
    make[2]: *** [service/CMakeFiles/service.dir/user_service.cpp.o] Error 1
    CMakeFiles/Makefile2:290: recipe for target 'service/CMakeFiles/service.dir/all' failed
    make[1]: *** [service/CMakeFiles/service.dir/all] Error 2
```

错误原因

sqlconnection.h 中引用的头文件找不到

Makefile:127: recipe for target 'all' failed

make: *** [all] Error 2

```
1: #ifndef DATASTORE_MYSQL_CONNECTION_H
2: #define DATASTORE_MYSQL_CONNECTION_H
3:
4: #include <mysql/mysql.h>
5: #include <string>
6: #include <mysql/errmsg.h>
7: #include <assert.h>
8:
9: #include "glo_def.h"
10: #include "Logger.h"
11:
```

解决办法

安装 mysql

安装制定版本 mysql 参考: <u>https://blog.csdn.net/u011060906/article/details/79612408</u>

我是直接安装最新版的

apt-get install mysql-server

apt install mysql-client

apt install libmysqlclient-dev

root@ubuntu:~# mysql --version

mysql Ver 14.14 Distrib 5.7.23, for Linux (x86_64) using EditLine wrapper

在 third 下面添加 mysql 的 include 和 lib

cd /usr/include

In -s \$(readlink -e mysql) /DNXY/projects/dnxy_bike/third/include

cd /usr/lib

In -s \$(readlink -e mysql) /DNXY/projects/dnxy_bike/third/lib/

继续编译 brks

make clean make

报错

[4%] Building CXX object service/CMakeFiles/service.dir/DispatchMsgService.cpp.o /DNXY/projects/dnxy_bike/src/service/DispatchMsgService.cpp: In static member function 'static void* DispatchMsgService::svc(void*)':

/DNXY/projects/dnxy_bike/src/service/DispatchMsgService.cpp:124:17: warning: unused variable 'rsp' [-Wunused-variable]

```
iEvent* rsp = dms->process(ev);
```

[8%] Building CXX object service/CMakeFiles/service.dir/user_service.cpp.o /DNXY/projects/dnxy_bike/src/service/user_service.cpp: In member function 'bool UserService::list_consume_records(const string&, std::vector<AccountRecord>&)': /DNXY/projects/dnxy_bike/src/service/user_service.cpp:155:60: warning: invalid

```
conversion from 'char*' to 'u64 {aka long long unsigned int}' [-fpermissive]
          AccountRecord ar(atoi(row[3]), atoll(row[4]), row[2]);
In file included from /DNXY/projects/dnxy_bike/src/service/user_service.h:7:0,
                   from /DNXY/projects/dnxy_bike/src/service/user_service.cpp:2:
/DNXY/projects/dnxy_bike/src/./common/events_def.h:236:5: note:
                                                                            initializing
argument 3 of 'AccountRecord::AccountRecord(i16, i32, u64)'
     AccountRecord(i16 type, i32 limit, u64 timestamp)
[ 13%] Building CXX object service/CMakeFiles/service.dir/bike_service.cpp.o
/DNXY/projects/dnxy_bike/src/service/bike_service.cpp: In member function 'bool
BikeService::get_bike(int, Bike&)':
/DNXY/projects/dnxy_bike/src/service/bike_service.cpp:83:25:
                                                                                invalid
                                                                  warning:
conversion from 'int' to 'bike_statu' [-fpermissive]
     bk.st_
                    = atoi(row[1]); // » ´¸ë
/DNXY/projects/dnxy_bike/src/service/bike_service.cpp:89:25:
                                                                  warning:
                                                                                invalid
conversion from 'int' to 'bike_type' [-fpermissive]
                    = atoi(row[7]);
     bk.type_
[ 17%] Building CXX object service/CMakeFiles/service.dir/MsgQueue.cpp.o
[ 21%] Building CXX object service/CMakeFiles/service.dir/sqlconnection.cpp.o
[ 26%] Linking CXX static library libservice.a
[ 26%] Built target service
Scanning dependencies of target common
[ 30%] Building CXX object common/CMakeFiles/common.dir/Logger.cpp.o
[ 34%] Building CXX object common/CMakeFiles/common.dir/events_def.cpp.o
[ 39%] Building CXX object common/CMakeFiles/common.dir/event.cpp.o
[ 43%] Linking CXX static library libcommon.a
[ 43%] Built target common
Scanning dependencies of target bus
[ 47%] Building CXX object bus/CMakeFiles/bus.dir/runer_bike_handler.cpp.o
[ 52%] Building CXX object bus/CMakeFiles/bus.dir/BusProcessor.cpp.o
In file included from /DNXY/projects/dnxy_bike/src/bus/BusProcessor.h:5:0,
                   from /DNXY/projects/dnxy_bike/src/bus/BusProcessor.cpp:2:
/DNXY/projects/dnxy_bike/src/bus/user_event_handler.h:11:23: fatal error: curl/curl.h:
No such file or directory
 #include <curl/curl.h>
compilation terminated.
bus/CMakeFiles/bus.dir/build.make:86:
                                                 recipe
                                                                  for
                                                                                 target
'bus/CMakeFiles/bus.dir/BusProcessor.cpp.o' failed
make[2]: *** [bus/CMakeFiles/bus.dir/BusProcessor.cpp.o] Error 1
CMakeFiles/Makefile2:125: recipe for target 'bus/CMakeFiles/bus.dir/all' failed
```

make[1]: *** [bus/CMakeFiles/bus.dir/all] Error 2 Makefile:127: recipe for target 'all' failed make: *** [all] Error 2

错误原因

user_event_handler.h 中引用的头文件找不到

```
1:
2: #ifndef BRKS_BUS_USERM_HANDLER_H_
3: #define BRKS_BUS_USERM_HANDLER_H_
4:
5: #include "glo_def.h"
6: #include "iEventHandler.h"
7: #include "sqlconnection.h"
8: #include "events_def.h"
9: #include "DispatchMsgService.h"
10:
11: #include <curl/curl.h>
12: #include <string>
13: #include <map>
14: #include <memory>
15:
```

解决办法

```
安装 libcurl
```

```
下载最新 curl 包,目前最新版本 curl-7.61.1.tar.gz
    wget https://curl.haxx.se/download/curl-7.61.1.tar.gz
    解压 curl-7.61.1.tar.gz
    tar -zxf curl-7.61.1.tar.gz
    安装指导 https://curl.haxx.se/docs/install.html
    ./configure --prefix=/usr
    make
    sudo make install
    在 third 下面添加 curl 的 include 和 lib
    cd /usr/include
    In -s $(readlink -e curl) /DNXY/projects/dnxy_bike/third/include
    cd /usr/
    In -s $(readlink -e lib) /DNXY/projects/dnxy_bike/third/lib/curl
继续编译
    make clean
    make
```

报错

[4%] Building CXX object service/CMakeFiles/service.dir/DispatchMsgService.cpp.o /DNXY/projects/dnxy_bike/src/service/DispatchMsgService.cpp: In static member

```
function 'static void* DispatchMsgService::svc(void*)':
/DNXY/projects/dnxy bike/src/service/DispatchMsqService.cpp:124:17: warning: unused
variable 'rsp' [-Wunused-variable]
          iEvent* rsp = dms->process(ev);
8%] Building CXX object service/CMakeFiles/service.dir/user_service.cpp.o
/DNXY/projects/dnxy_bike/src/service/user_service.cpp: In member function 'bool
UserService::list_consume_records(const string&, std::vector<AccountRecord>&)':
/DNXY/projects/dnxy_bike/src/service/user_service.cpp:155:60:
                                                                  warning:
                                                                                invalid
conversion from 'char*' to 'u64 {aka long long unsigned int}' [-fpermissive]
          AccountRecord ar(atoi(row[3]), atoll(row[4]), row[2]);
In file included from /DNXY/projects/dnxy_bike/src/service/user_service.h:7:0,
                   from /DNXY/projects/dnxy_bike/src/service/user_service.cpp:2:
/DNXY/projects/dnxy_bike/src/./common/events_def.h:236:5: note:
                                                                            initializing
argument 3 of 'AccountRecord::AccountRecord(i16, i32, u64)'
     AccountRecord(i16 type, i32 limit, u64 timestamp)
     \wedge
[ 13%] Building CXX object service/CMakeFiles/service.dir/bike_service.cpp.o
/DNXY/projects/dnxy_bike/src/service/bike_service.cpp: In member function 'bool
BikeService::get_bike(int, Bike&)':
/DNXY/projects/dnxy_bike/src/service/bike_service.cpp:83:25:
                                                                  warning:
                                                                                invalid
conversion from 'int' to 'bike statu' [-fpermissive]
                    = atoi(row[1]); // » ´_ë
     bk.st
/DNXY/projects/dnxy_bike/src/service/bike_service.cpp:89:25:
                                                                  warning:
                                                                                invalid
conversion from 'int' to 'bike_type' [-fpermissive]
     bk.type_
                    = atoi(row[7]);
[ 17%] Building CXX object service/CMakeFiles/service.dir/MsgQueue.cpp.o
[21%] Building CXX object service/CMakeFiles/service.dir/sqlconnection.cpp.o
[ 26%] Linking CXX static library libservice.a
[ 26%] Built target service
[ 30%] Building CXX object common/CMakeFiles/common.dir/Logger.cpp.o
[ 34%] Building CXX object common/CMakeFiles/common.dir/events_def.cpp.o
[ 39%] Building CXX object common/CMakeFiles/common.dir/event.cpp.o
[ 43%] Linking CXX static library libcommon.a
[ 43%] Built target common
[ 47%] Building CXX object bus/CMakeFiles/bus.dir/runer_bike_handler.cpp.o
[52%] Building CXX object bus/CMakeFiles/bus.dir/BusProcessor.cpp.o
[ 56%] Building CXX object bus/CMakeFiles/bus.dir/user_event_handler.cpp.o
/DNXY/projects/dnxy_bike/src/bus/user_event_handler.cpp:18:23: fatal error: json/json.h:
No such file or directory
 #include <json/json.h>
```

```
compilation terminated.

bus/CMakeFiles/bus.dir/build.make:110: recipe for target
'bus/CMakeFiles/bus.dir/user_event_handler.cpp.o' failed
make[2]: *** [bus/CMakeFiles/bus.dir/user_event_handler.cpp.o] Error 1
CMakeFiles/Makefile2:125: recipe for target 'bus/CMakeFiles/bus.dir/all' failed
make[1]: *** [bus/CMakeFiles/bus.dir/all] Error 2
Makefile:127: recipe for target 'all' failed
make: *** [all] Error 2
```

错误原因

user_event_handler.cpp 中引用的头文件找不到

```
ser event handler.h
   1:
   2: #include "user_event_handler.h"
   3: #include "Logger.h"
   4:
   5: #include <arpa/inet.h>
   6: #include <assert.h>
   7: #include <errno.h>
   8: #include <netinet/in.h>
   9: #include <signal.h>
  10: #include <stdlib.h>
  11: #include <stdio.h>
  12: #include <string.h>
  13: #include <sys/types.h>
  14: #include <sys/socket.h>
  15: #include <sys/wait.h>
  16: #include <netdb.h>
  17: #include <unistd.h>
  18: #include <json/json.h>
  19:
  20:
  21: #include "user_service.h"
```

解决办法

安装 <u>isoncpp</u>

```
wget https://nchc.dl.sourceforge.net/project/jsoncpp/jsoncpp/0.5.0/jsoncpp-src-0.5.0.tar.gz
tar zxf jsoncpp-src-0.5.0.tar.gz
cd jsoncpp-src-0.5.0/
apt-get install scons
scons platform=linux-gcc
```

```
cd /DNXY/download/jsoncpp-src-0.5.0/include
```

```
cp -a json//usr/include/
cd /DNXY/download/jsoncpp-src-0.5.0/libs/linux-gcc-5.4.0
```

```
在 third 下面添加 json 的 include 和 lib
    cd /usr/include
    In -s $(readlink -e json) /DNXY/projects/dnxy_bike/third/include
    cd /usr/
    In -s $(readlink -e lib) /DNXY/projects/dnxy_bike/third/lib/json
继续编译
    make clean
    make
报错
    4%] Building CXX object service/CMakeFiles/service.dir/DispatchMsgService.cpp.o
    /DNXY/projects/dnxy_bike/src/service/DispatchMsgService.cpp: In static member
    function 'static void* DispatchMsgService::svc(void*)':
    /DNXY/projects/dnxy_bike/src/service/DispatchMsgService.cpp:124:17: warning: unused
    variable 'rsp' [-Wunused-variable]
              iEvent* rsp = dms->process(ev);
    8%] Building CXX object service/CMakeFiles/service.dir/user_service.cpp.o
    /DNXY/projects/dnxy_bike/src/service/user_service.cpp: In member function 'bool
    UserService::list_consume_records(const string&, std::vector<AccountRecord>&)':
    /DNXY/projects/dnxy_bike/src/service/user_service.cpp:155:60:
                                                                      warning:
                                                                                   invalid
    conversion from 'char*' to 'u64 {aka long long unsigned int}' [-fpermissive]
              AccountRecord ar(atoi(row[3]), atoll(row[4]), row[2]);
    In file included from /DNXY/projects/dnxy_bike/src/service/user_service.h:7:0,
                        from /DNXY/projects/dnxy_bike/src/service/user_service.cpp:2:
    /DNXY/projects/dnxy_bike/src/./common/events_def.h:236:5: note:
                                                                                initializing
    argument 3 of 'AccountRecord::AccountRecord(i16, i32, u64)'
          AccountRecord(i16 type, i32 limit, u64 timestamp)
    [ 13%] Building CXX object service/CMakeFiles/service.dir/bike_service.cpp.o
    /DNXY/projects/dnxy_bike/src/service/bike_service.cpp: In member function 'bool
    BikeService::get_bike(int, Bike&)':
    /DNXY/projects/dnxy_bike/src/service/bike_service.cpp:83:25:
                                                                     warning:
                                                                                   invalid
    conversion from 'int' to 'bike_status' [-fpermissive]
                         = atoi(row[1]); // » '_ë
          bk.st
    /DNXY/projects/dnxy_bike/src/service/bike_service.cpp:89:25:
                                                                                   invalid
                                                                     warning:
    conversion from 'int' to 'bike_type' [-fpermissive]
          bk.type_
                         = atoi(row[7]);
```

cp * /usr/lib/

[17%] Building CXX object service/CMakeFiles/service.dir/MsgQueue.cpp.o [21%] Building CXX object service/CMakeFiles/service.dir/sqlconnection.cpp.o [26%] Linking CXX static library libservice.a [26%] Built target service [30%] Building CXX object common/CMakeFiles/common.dir/Logger.cpp.o [34%] Building CXX object common/CMakeFiles/common.dir/events_def.cpp.o [39%] Building CXX object common/CMakeFiles/common.dir/event.cpp.o [43%] Linking CXX static library libcommon.a [43%] Built target common [47%] Building CXX object bus/CMakeFiles/bus.dir/runer bike handler.cpp.o [52%] Building CXX object bus/CMakeFiles/bus.dir/BusProcessor.cpp.o [56%] Building CXX object bus/CMakeFiles/bus.dir/user_event_handler.cpp.o /DNXY/projects/dnxy_bike/src/bus/user_event_handler.cpp: In function 'ListAccountRecordsRspEv* UserEventHandler::handle_list_account_records_req(ListAccountRecordsReqEv*)': /DNXY/projects/dnxy_bike/src/bus/user_event_handler.cpp:89:5: warning: label 'std' defined but not used [-Wunused-label] std:string mobile = ev->get_mobile(); /DNXY/projects/dnxy_bike/src/bus/user_event_handler.cpp: In member function 'std::__cxx11::string UserEventHandler::send_sms(const char*, const char*, const char*)': /DNXY/projects/dnxy bike/src/bus/user event handler.cpp:210:17: warning: ISO C++ forbids converting a string constant to 'char*' [-Wwrite-strings] char *url = "https://sms.yunpian.com/v2/sms/single_send.json"; /DNXY/projects/dnxy_bike/src/bus/user_event_handler.cpp:223:14: warning: unused variable 'res' [-Wunused-variable] CURLcode res = curl_easy_perform(curl_); /DNXY/projects/dnxy_bike/src/bus/user_event_handler.cpp: In member function 'std::__cxx11::string UserEventHandler::get_sms_code()': /DNXY/projects/dnxy_bike/src/bus/user_event_handler.cpp:250:20: warning: ISO C++ forbids converting a string constant to 'char*' [-Wwrite-strings] char* apikey = "9ac068166011ccef83d9882c112810ac"; [60%] Linking CXX static library libbus.a [60%] Built target bus Scanning dependencies of target intf [65%] Building CXX object intf/CMakeFiles/intf.dir/interface_constants.cpp.o In file included from /DNXY/projects/dnxy_bike/src/intf/interface_constants.h:10:0, from /DNXY/projects/dnxy_bike/src/intf/interface_constants.cpp:7:

/DNXY/projects/dnxy_bike/src/intf/interface_types.h:12:27: fatal error: thrift/Thrift.h: No

such file or directory

```
compilation terminated.

intf/CMakeFiles/intf.dir/build.make:62: recipe for target

'intf/CMakeFiles/intf.dir/interface_constants.cpp.o' failed

make[2]: *** [intf/CMakeFiles/intf.dir/interface_constants.cpp.o] Error 1

CMakeFiles/Makefile2:235: recipe for target 'intf/CMakeFiles/intf.dir/all' failed

make[1]: *** [intf/CMakeFiles/intf.dir/all] Error 2

Makefile:127: recipe for target 'all' failed

make: *** [all] Error 2
```

错误原因

interface_types.h 中引用的头文件找不到

```
1: /**
 2:
    * DO NOT EDIT UNLESS YOU ARE SURE THAT YOU KNOW WHAT
 5:
8: #define interface_TYPES_H
10: #include <iosfwd>
11:
12: #include <thrift/Thrift.h>
13: #include <thrift/TApplicationException.h>
14: #include <thrift/TBase.h>
15: #include <thrift/protocol/TProtocol.h>
16: #include <thrift/transport/TTransport.h>
17:
18: #include <thrift/stdcxx.h>
19: #include "struct_types.h"
20:
21:
22: namespace brkservic
```

解决办法

安装 thrift

```
wget http://mirrors.shu.edu.cn/apache/thrift/0.11.0/thrift-0.11.0.tar.gz
```

tar zxf thrift-0.11.0.tar.gz

cd thrift-0.11.0/

安装依赖

sudo apt-get install automake bison flex g++ git libboost-all-dev libevent-dev libssl-dev libtool make pkg-config libglib2.0-dev

```
安装 lua
```

```
wget <a href="http://www.lua.org/ftp/lua-5.3.5.tar.gz">http://www.lua.org/ftp/lua-5.3.5.tar.gz</a>
tar zxf lua-5.3.5.tar.gz
cd lua-5.3.5/
apt-get install libreadline-dev
```

```
cd thrift-0.11.0/
```

./configure --with-cpp --with-boost --with-python --without-csharp --with-java --without-erlang --without-perl --with-php --without-php_extension --without-ruby --without-haskell --without-go 输出

```
thrift 0.11.0
Building C (GLib) Library .... : yes
Building C# (Mono) Library ...: no
Building C++ Library .....: yes
Building D Library ..... no
Building Dart Library .... no
Building dotnetcore Library ... no
Building Erlang Library ..... : no
Building Go Library .....: no
Building Haskell Library ....: no
Building Haxe Library .....: no
Building Java Library .....: no
Building Lua Library .....: no
Building NodeJS Library ....: no
Building Perl Library .....: no
Building PHP Library .....: no
Building Plugin Support ....: no
Building Python Library ....: yes
Building Py3 Library .....: yes
Building Ruby Library .....: no
Building Rust Library .....: no
C++ Library:
   C++ compiler .... : g++ -std=c++11
   Build TZlibTransport ..... : yes
   Build TNonblockingServer .. : yes
   Build TQTcpServer (Qt4) ... : no
   Build TQTcpServer (Qt5) ... : no
   C++ compiler version ..... : g++ (Ubuntu 5.4.0-6ubuntu1~16.04.10) 5.4.0 20160609
Python Library:
   Using Python .....: /usr/bin/python
   Using Python version ..... : Python 2.7.12
   Using Python3 .....: /usr/bin/python3
   Using Python3 version .... : Python 3.5.2
If something is missing that you think should be present,
please skim the output of configure to find the missing
component. Details are present in config.log.
```

make install

继续编译

make clean make

报错

[4%] Building CXX object service/CMakeFiles/service.dir/DispatchMsgService.cpp.o /DNXY/projects/dnxy_bike/src/service/DispatchMsgService.cpp: In static member

function 'static void* DispatchMsgService::svc(void*)': /DNXY/projects/dnxy bike/src/service/DispatchMsqService.cpp:124:17: warning: unused variable 'rsp' [-Wunused-variable] iEvent* rsp = dms->process(ev); 8%] Building CXX object service/CMakeFiles/service.dir/user_service.cpp.o /DNXY/projects/dnxy_bike/src/service/user_service.cpp: In member function 'bool UserService::list_consume_records(const string&, std::vector<AccountRecord>&)': /DNXY/projects/dnxy_bike/src/service/user_service.cpp:155:60: warning: invalid conversion from 'char*' to 'u64 {aka long long unsigned int}' [-fpermissive] AccountRecord ar(atoi(row[3]), atoll(row[4]), row[2]); In file included from /DNXY/projects/dnxy_bike/src/service/user_service.h:7:0, from /DNXY/projects/dnxy_bike/src/service/user_service.cpp:2: /DNXY/projects/dnxy_bike/src/./common/events_def.h:236:5: note: initializing argument 3 of 'AccountRecord::AccountRecord(i16, i32, u64)' AccountRecord(i16 type, i32 limit, u64 timestamp) \wedge [13%] Building CXX object service/CMakeFiles/service.dir/bike_service.cpp.o /DNXY/projects/dnxy_bike/src/service/bike_service.cpp: In member function 'bool BikeService::get_bike(int, Bike&)': /DNXY/projects/dnxy_bike/src/service/bike_service.cpp:83:25: warning: invalid conversion from 'int' to 'bike status' [-fpermissive] = atoi(row[1]); // » ´_ë bk.st /DNXY/projects/dnxy_bike/src/service/bike_service.cpp:89:25: warning: invalid conversion from 'int' to 'bike_type' [-fpermissive] bk.type_ = atoi(row[7]); [17%] Building CXX object service/CMakeFiles/service.dir/MsgQueue.cpp.o [21%] Building CXX object service/CMakeFiles/service.dir/sqlconnection.cpp.o [26%] Linking CXX static library libservice.a [26%] Built target service [30%] Building CXX object common/CMakeFiles/common.dir/Logger.cpp.o [34%] Building CXX object common/CMakeFiles/common.dir/events_def.cpp.o [39%] Building CXX object common/CMakeFiles/common.dir/event.cpp.o [43%] Linking CXX static library libcommon.a [43%] Built target common [47%] Building CXX object bus/CMakeFiles/bus.dir/runer_bike_handler.cpp.o [52%] Building CXX object bus/CMakeFiles/bus.dir/BusProcessor.cpp.o [56%] Building CXX object bus/CMakeFiles/bus.dir/user_event_handler.cpp.o /DNXY/projects/dnxy_bike/src/bus/user_event_handler.cpp: In member function 'ListAccountRecordsRspEv* UserEventHandler::handle_list_account_records_req(ListAccountRecordsReqEv*)':

```
/DNXY/projects/dnxy_bike/src/bus/user_event_handler.cpp:89:5: warning: label 'std'
defined but not used [-Wunused-label]
     std:string mobile = ev->get_mobile();
/DNXY/projects/dnxy_bike/src/bus/user_event_handler.cpp: In member
                                                                             function
'std::__cxx11::string UserEventHandler::send_sms(const char*, const char*, const char*)':
/DNXY/projects/dnxy_bike/src/bus/user_event_handler.cpp:210:17: warning: ISO C++
forbids converting a string constant to 'char*' [-Wwrite-strings]
     char *url = "https://sms.yunpian.com/v2/sms/single_send.json";
/DNXY/projects/dnxy bike/src/bus/user event handler.cpp:223:14: warning: unused
variable 'res' [-Wunused-variable]
     CURLcode res = curl_easy_perform(curl_);
/DNXY/projects/dnxy_bike/src/bus/user_event_handler.cpp: In
                                                                 member
                                                                             function
'std::__cxx11::string UserEventHandler::get_sms_code()':
/DNXY/projects/dnxy_bike/src/bus/user_event_handler.cpp:250:20: warning: ISO C++
forbids converting a string constant to 'char*' [-Wwrite-strings]
     char* apikey = "9ac068166011ccef83d9882c112810ac";
[ 60%] Linking CXX static library libbus.a
[ 60%] Built target bus
[65%] Building CXX object intf/CMakeFiles/intf.dir/interface constants.cpp.o
[ 69%] Building CXX object intf/CMakeFiles/intf.dir/interface.cpp.o
In file included from /usr/include/event2/event_compat.h:58:0,
                   from /usr/local/include/thrift/server/TNonblockingServer.h:43,
                   from /DNXY/projects/dnxy_bike/src/intf/interface.cpp:4:
/usr/local/include/thrift/server/TNonblockingServer.h:76:23: error: multiple types in one
declaration
 typedef THRIFT_SOCKET evutil_socket_t;
/DNXY/projects/dnxy_bike/src/intf/interface.cpp:
                                                  In
                                                        member
                                                                    function
                                                                                'void
BRKServiceHandler::common_response_msg_2_result(brkservice::ApiResult&,
                                                                                const
CommonRspEv*)':
/DNXY/projects/dnxy_bike/src/intf/interface.cpp:186:47: warning:
                                                                     passing
                                                                               'const
CommonRspEv' as 'this' argument discards qualifiers [-fpermissive]
          result.__set_resultCode(rsp->get_code());
In file included from /DNXY/projects/dnxy_bike/src/intf/interface.cpp:15:0:
/DNXY/projects/dnxy_bike/src/./common/events_def.h:47:9: note: in call to 'i32
CommonRspEv::get_code()'
     i32 get_code(){return code_;};
/DNXY/projects/dnxy_bike/src/intf/interface.cpp:187:45: warning:
                                                                     passing
                                                                               'const
```

```
CommonRspEv' as 'this' argument discards qualifiers [-fpermissive]
          result.__set_resultMsg(rsp->get_msg());
In file included from /DNXY/projects/dnxy_bike/src/intf/interface.cpp:15:0:
/DNXY/projects/dnxy_bike/src/./common/events_def.h:48:24: note:
                                                                     in call to 'const
string& CommonRspEv::get_msg('
     const std::string& get_msg(){return msg_;};
/DNXY/projects/dnxy_bike/src/intf/interface.cpp:188:41: warning:
                                                                     passing
                                                                                'const
CommonRspEv' as 'this' argument discards qualifiers [-fpermissive]
          result.__set_data(rsp->get_data());
In file included from /DNXY/projects/dnxy_bike/src/intf/interface.cpp:15:0:
/DNXY/projects/dnxy_bike/src/./common/events_def.h:49:24: note: in call to 'const
string& CommonRspEv::get_data()'
     const std::string& get_data(){ return data_;};
/DNXY/projects/dnxy bike/src/intf/interface.cpp:
                                                         member
                                                                     function
                                                                                 'void
BRKServiceHandler::balance_response_msg_2_result(brkservice::BalanceResult&,
                                                                                const
GetAccountBalanceRspEv*)':
/DNXY/projects/dnxy_bike/src/intf/interface.cpp:201:47: warning:
                                                                     passing
                                                                                'const
GetAccountBalanceRspEv' as 'this' argument discards qualifiers [-fpermissive]
          result. set resultCode(rsp->get code());
In file included from /DNXY/projects/dnxy_bike/src/intf/interface.cpp:15:0:
/DNXY/projects/dnxy_bike/src/./common/events_def.h:47:9: note: in call to 'i32
CommonRspEv::get_code()'
     i32 get_code(){return code_;};
/DNXY/projects/dnxy_bike/src/intf/interface.cpp:202:45: warning:
                                                                                'const
GetAccountBalanceRspEv' as 'this' argument discards qualifiers [-fpermissive]
          result.__set_resultMsg(rsp->get_msg());
In file included from /DNXY/projects/dnxy_bike/src/intf/interface.cpp:15:0:
/DNXY/projects/dnxy_bike/src/./common/events_def.h:48:24: note: in call to 'const
string& CommonRspEv::get_msg('
     const std::string& get_msg(){return msg_;};
/DNXY/projects/dnxy_bike/src/intf/interface.cpp:203:47: warning:
                                                                                'const
GetAccountBalanceRspEv' as 'this' argument discards qualifiers [-fpermissive]
          result.__set_balance(rsp->get_balance());
In file included from /DNXY/projects/dnxy_bike/src/intf/interface.cpp:15:0:
```

/DNXY/projects/dnxy_bike/src/./common/events_def.h:95:10: note: in call to 'i32&

```
GetAccountBalanceRspEv::get_balance()'
     i32& get_balance(){return balance_;};
/DNXY/projects/dnxy_bike/src/intf/interface.cpp:206:12: warning: return-statement with
a value, in function returning 'void' [-fpermissive]
     return result;
/DNXY/projects/dnxy_bike/src/intf/interface.cpp:
                                                         member
                                                                      function
                                                                                  'void
                                                   In
BRKServiceHandler::lock_response_msg_2_result(brkservice::TravelResult&,
                                                                                 const
LockResultRspEv*)':
/DNXY/projects/dnxy_bike/src/intf/interface.cpp:222:48: warning:
                                                                      passing
                                                                                 'const
LockResultRspEv' as 'this' argument discards qualifiers [-fpermissive]
          TravelInfo info = rsp->get_travel_info();
In file included from /DNXY/projects/dnxy_bike/src/intf/interface.cpp:15:0:
/DNXY/projects/dnxy_bike/src/./common/events_def.h:195:23: note: in call to 'const
TravelInfo& LockResultRspEv::get_travel_info()'
     const TravelInfo& get travel info(){ return ti ;};
/DNXY/projects/dnxy_bike/src/intf/interface.cpp:223:47: warning:
                                                                                 'const
                                                                      passing
LockResultRspEv' as 'this' argument discards qualifiers [-fpermissive]
          result.__set_resultCode(rsp->get_code());
In file included from /DNXY/projects/dnxy_bike/src/intf/interface.cpp:15:0:
/DNXY/projects/dnxy_bike/src/./common/events_def.h:47:9: note:
                                                                      in call to 'i32
CommonRspEv::get_code()'
     i32 get_code(){return code_;};
/DNXY/projects/dnxy_bike/src/intf/interface.cpp:224:45: warning:
                                                                      passing
                                                                                 'const
LockResultRspEv' as 'this' argument discards qualifiers [-fpermissive]
          result.__set_resultMsg(rsp->get_msg());
In file included from /DNXY/projects/dnxy_bike/src/intf/interface.cpp:15:0:
/DNXY/projects/dnxy_bike/src/./common/events_def.h:48:24: note: in call to 'const
string& CommonRspEv::get_msg('
     const std::string& get_msg(){return msg_;};
/DNXY/projects/dnxy_bike/src/intf/interface.cpp:225:41: warning:
                                                                                 'const
                                                                      passing
LockResultRspEv' as 'this' argument discards qualifiers [-fpermissive]
          result.__set_data(rsp->get_data());
In file included from /DNXY/projects/dnxy_bike/src/intf/interface.cpp:15:0:
/DNXY/projects/dnxy_bike/src/./common/events_def.h:49:24: note: in call to 'const
string& CommonRspEv::get_data()'
```

```
const std::string& get_data(){ return data_;};
/DNXY/projects/dnxy_bike/src/intf/interface.cpp:240:12: warning: return-statement with
a value, in function returning 'void' [-fpermissive]
     return result;
/DNXY/projects/dnxy bike/src/intf/interface.cpp: In member
                                                                     function
                                                                                 'void
BRKServiceHandler::account_records_response_msg_2_result(brkservice::RecordsResult
&, const ListAccountRecordsRspEv*)':
/DNXY/projects/dnxy_bike/src/intf/interface.cpp:252:47: warning:
                                                                                'const
ListAccountRecordsRspEv' as 'this' argument discards qualifiers [-fpermissive]
          result.__set_resultCode(rsp->get_code());
In file included from /DNXY/projects/dnxy_bike/src/intf/interface.cpp:15:0:
/DNXY/projects/dnxy_bike/src/./common/events_def.h:47:9: note:
                                                                      in call to 'i32
CommonRspEv::get code()'
     i32 get_code(){return code_;};
/DNXY/projects/dnxy_bike/src/intf/interface.cpp:253:45: warning:
                                                                                'const
ListAccountRecordsRspEv' as 'this' argument discards qualifiers [-fpermissive]
          result.__set_resultMsg(rsp->get_msg());
In file included from /DNXY/projects/dnxy bike/src/intf/interface.cpp:15:0:
/DNXY/projects/dnxy_bike/src/./common/events_def.h:48:24: note: in call to 'const
string& CommonRspEv::get_msg('
     const std::string& get_msg(){return msg_;};
/DNXY/projects/dnxy_bike/src/intf/interface.cpp:255:58: warning:
                                                                                'const
ListAccountRecordsRspEv' as 'this' argument discards qualifiers [-fpermissive]
          std::vector<AccountRecord> rs = rsp->get_records();
In file included from /DNXY/projects/dnxy_bike/src/intf/interface.cpp:15:0:
/DNXY/projects/dnxy_bike/src/./common/events_def.h:267:39: note: in call to 'const
std::vector<AccountRecord>& ListAccountRecordsRspEv::get_records()'
     const std::vector<AccountRecord>& get_records(){ return records_;};
/DNXY/projects/dnxy_bike/src/intf/interface.cpp:266:12: warning: return-statement with
a value, in function returning 'void' [-fpermissive]
     return result;
/DNXY/projects/dnxy_bike/src/intf/interface.cpp:
                                                   In
                                                         member
                                                                     function
                                                                                 'void
BRKServiceHandler::trave_result_response_msg_2_result(brkservice::TravelResult&, const
ListTravelRecordsRspEv*)':
```

/DNXY/projects/dnxy_bike/src/intf/interface.cpp:281:48: warning:

passing

'const

```
ListTravelRecordsRspEv' as 'this' argument discards qualifiers [-fpermissive]
          TravelInfo info = rsp->get travel info();
In file included from /DNXY/projects/dnxy_bike/src/intf/interface.cpp:15:0:
/DNXY/projects/dnxy_bike/src/./common/events_def.h:285:23: note: in call to 'const
TravelInfo& ListTravelRecordsRspEv::get_travel_info()'
      const TravelInfo& get travel info(){ return ti ;};
/DNXY/projects/dnxy_bike/src/intf/interface.cpp:282:47: warning:
                                                                                  'const
ListTravelRecordsRspEv' as 'this' argument discards qualifiers [-fpermissive]
          result. set resultCode(rsp->get code());
In file included from /DNXY/projects/dnxy_bike/src/intf/interface.cpp:15:0:
/DNXY/projects/dnxy_bike/src/./common/events_def.h:47:9: note: in call to 'i32
CommonRspEv::get_code()'
      i32 get_code(){return code_;};
/DNXY/projects/dnxy bike/src/intf/interface.cpp:283:45: warning:
                                                                                  'const
ListTravelRecordsRspEv' as 'this' argument discards qualifiers [-fpermissive]
          result.__set_resultMsg(rsp->get_msg());
In file included from /DNXY/projects/dnxy_bike/src/intf/interface.cpp:15:0:
/DNXY/projects/dnxy_bike/src/./common/events_def.h:48:24: note: in call to 'const
string& CommonRspEv::get_msg('
      const std::string& get_msg(){return msg_;};
/DNXY/projects/dnxy_bike/src/intf/interface.cpp:299:12: warning: return-statement with
a value, in function returning 'void' [-fpermissive]
      return result;
intf/CMakeFiles/intf.dir/build.make:86:
                                                                   for
                                                  recipe
                                                                                  target
'intf/CMakeFiles/intf.dir/interface.cpp.o' failed
make[2]: *** [intf/CMakeFiles/intf.dir/interface.cpp.o] Error 1
CMakeFiles/Makefile2:235: recipe for target 'intf/CMakeFiles/intf.dir/all' failed
make[1]: *** [intf/CMakeFiles/intf.dir/all] Error 2
Makefile:127: recipe for target 'all' failed
make: *** [all] Error 2
其实就一条 error
[ 69%] Building CXX object intf/CMakeFiles/intf.dir/interface.cpp.o
In file included from /usr/include/event2/event_compat.h:58:0,
                    from /usr/local/include/thrift/server/TNonblockingServer.h:43,
                    from /DNXY/projects/dnxy_bike/src/intf/interface.cpp:4:
/usr/local/include/thrift/server/TNonblockingServer.h:76:23: error: multiple types in one
declaration
```

```
typedef THRIFT_SOCKET evutil_socket_t;
错误原因
    TNonblockingServer.h 有这个代码
    #if LIBEVENT_VERSION_NUMBER < 0x02000000
    typedef THRIFT_SOCKET evutil_socket_t;
    #endif
    */
解决办法
    下载 libevent
    wget
                   https://github.com/libevent/libevent/releases/download/release-2.1.8-
    stable/libevent-2.1.8-stable.tar.gz
    tar zxf libevent-2.1.8-stable.tar.gz
    cd libevent-2.1.8-stable/
    ./configure --prefix=/usr
    make
    sudo make install
    brks 工程的 CMakefilelist.txt,增加一个宏定义(定义 libevent 的版本,根据自己的版本
    而定)
    cd /DNXY/projects/dnxy_bike/src
    sed -i "31a ADD_DEFINITIONS(-DLIBEVENT_VERSION_NUMBER=0x02010800)\r"
    CMakeLists.txt
    cmake.
    make clean
    make
报错
    4%] Building CXX object service/CMakeFiles/service.dir/DispatchMsgService.cpp.o
    /DNXY/projects/dnxy_bike/src/service/DispatchMsgService.cpp: In static
    function 'static void* DispatchMsgService::svc(void*)':
    /DNXY/projects/dnxy_bike/src/service/DispatchMsgService.cpp:124:17: warning: unused
    variable 'rsp' [-Wunused-variable]
              iEvent* rsp = dms->process(ev);
    8%] Building CXX object service/CMakeFiles/service.dir/user_service.cpp.o
    /DNXY/projects/dnxy_bike/src/service/user_service.cpp: In member function 'bool
    UserService::list_consume_records(const string&, std::vector<AccountRecord>&)':
    /DNXY/projects/dnxy_bike/src/service/user_service.cpp:155:60:
                                                                               invalid
    conversion from 'char*' to 'u64 {aka long long unsigned int}' [-fpermissive]
              AccountRecord ar(atoi(row[3]), atoll(row[4]), row[2]);
```

Λ

```
In file included from /DNXY/projects/dnxy_bike/src/service/user_service.h:7:0,
                   from /DNXY/projects/dnxy bike/src/service/user service.cpp:2:
/DNXY/projects/dnxy_bike/src/./common/events_def.h:236:5: note:
                                                                           initializing
argument 3 of 'AccountRecord::AccountRecord(i16, i32, u64)'
     AccountRecord(i16 type, i32 limit, u64 timestamp)
[ 13%] Building CXX object service/CMakeFiles/service.dir/bike_service.cpp.o
/DNXY/projects/dnxy_bike/src/service/bike_service.cpp: In member function 'bool
BikeService::get_bike(int, Bike&)':
/DNXY/projects/dnxy_bike/src/service/bike_service.cpp:83:25:
                                                                 warning:
                                                                               invalid
conversion from 'int' to 'bike status' [-fpermissive]
                    = atoi(row[1]); // ??????
     bk.st
/DNXY/projects/dnxy_bike/src/service/bike_service.cpp:89:25:
                                                                               invalid
                                                                 warning:
conversion from 'int' to 'bike_type' [-fpermissive]
     bk.type
                    = atoi(row[7]);
[ 17%] Building CXX object service/CMakeFiles/service.dir/MsqQueue.cpp.o
[21%] Building CXX object service/CMakeFiles/service.dir/sqlconnection.cpp.o
[ 26%] Linking CXX static library libservice.a
[ 26%] Built target service
[ 30%] Building CXX object common/CMakeFiles/common.dir/Logger.cpp.o
[ 34%] Building CXX object common/CMakeFiles/common.dir/events def.cpp.o
[ 39%] Building CXX object common/CMakeFiles/common.dir/event.cpp.o
[ 43%] Linking CXX static library libcommon.a
[ 43%] Built target common
[ 47%] Building CXX object bus/CMakeFiles/bus.dir/runer_bike_handler.cpp.o
[ 52%] Building CXX object bus/CMakeFiles/bus.dir/BusProcessor.cpp.o
[ 56%] Building CXX object bus/CMakeFiles/bus.dir/user_event_handler.cpp.o
/DNXY/projects/dnxy_bike/src/bus/user_event_handler.cpp: In
                                                                             function
'ListAccountRecordsRspEv*
UserEventHandler::handle_list_account_records_req(ListAccountRecordsReqEv*)':
/DNXY/projects/dnxy_bike/src/bus/user_event_handler.cpp:89:5: warning: label 'std'
defined but not used [-Wunused-label]
     std:string mobile = ev->get_mobile();
/DNXY/projects/dnxy_bike/src/bus/user_event_handler.cpp:
                                                           In member
'std::_cxx11::string UserEventHandler::send_sms(const char*, const char*, const char*)':
/DNXY/projects/dnxy_bike/src/bus/user_event_handler.cpp:210:17: warning: ISO C++
forbids converting a string constant to 'char*' [-Wwrite-strings]
     char *url = "https://sms.yunpian.com/v2/sms/single_send.json";
/DNXY/projects/dnxy_bike/src/bus/user_event_handler.cpp:223:14: warning: unused
```

variable 'res' [-Wunused-variable]

```
CURLcode res = curl_easy_perform(curl_);
/DNXY/projects/dnxy_bike/src/bus/user_event_handler.cpp: In member
                                                                             function
'std::_cxx11::string UserEventHandler::get_sms_code()':
/DNXY/projects/dnxy_bike/src/bus/user_event_handler.cpp:250:20: warning: ISO C++
forbids converting a string constant to 'char*' [-Wwrite-strings]
     char* apikey = "9ac068166011ccef83d9882c112810ac";
[ 60%] Linking CXX static library libbus.a
[ 60%] Built target bus
[65%] Building CXX object intf/CMakeFiles/intf.dir/interface_constants.cpp.o
[ 69%] Building CXX object intf/CMakeFiles/intf.dir/interface.cpp.o
/DNXY/projects/dnxy_bike/src/intf/interface.cpp:
                                                  In
                                                        member
                                                                                'void
                                                                    function
BRKServiceHandler::common_response_msg_2_result(brkservice::ApiResult&,
                                                                                const
CommonRspEv*)':
/DNXY/projects/dnxy_bike/src/intf/interface.cpp:186:47: warning:
                                                                     passing
                                                                               'const
CommonRspEv' as 'this' argument discards qualifiers [-fpermissive]
          result.__set_resultCode(rsp->get_code());
In file included from /DNXY/projects/dnxy_bike/src/intf/interface.cpp:15:0:
/DNXY/projects/dnxy_bike/src/./common/events_def.h:47:9: note:
                                                                  in call to 'i32
CommonRspEv::get_code()'
     i32 get_code(){return code_;};
/DNXY/projects/dnxy_bike/src/intf/interface.cpp:187:45: warning:
                                                                     passing
                                                                               'const
CommonRspEv' as 'this' argument discards qualifiers [-fpermissive]
          result.__set_resultMsg(rsp->get_msg());
In file included from /DNXY/projects/dnxy_bike/src/intf/interface.cpp:15:0:
/DNXY/projects/dnxy_bike/src/./common/events_def.h:48:24: note: in call to 'const
string& CommonRspEv::get_msg('
     const std::string& get_msg(){return msg_;};
/DNXY/projects/dnxy_bike/src/intf/interface.cpp:188:41: warning:
                                                                     passing
                                                                               'const
CommonRspEv' as 'this' argument discards qualifiers [-fpermissive]
          result.__set_data(rsp->get_data());
In file included from /DNXY/projects/dnxy_bike/src/intf/interface.cpp:15:0:
/DNXY/projects/dnxy_bike/src/./common/events_def.h:49:24: note: in call to 'const
string& CommonRspEv::get_data()'
     const std::string& get_data(){ return data_;};
/DNXY/projects/dnxy_bike/src/intf/interface.cpp: In
                                                        member
                                                                                'void
BRKServiceHandler::balance_response_msg_2_result(brkservice::BalanceResult&,
                                                                                const
```

GetAccountBalanceRspEv*)':

/DNXY/projects/dnxy_bike/src/intf/interface.cpp:201:47: warning: passing 'const GetAccountBalanceRspEv' as 'this' argument discards qualifiers [-fpermissive]

result.__set_resultCode(rsp->get_code());

In file included from /DNXY/projects/dnxy_bike/src/intf/interface.cpp:15:0:

/DNXY/projects/dnxy_bike/src/./common/events_def.h:47:9: note: in call to 'i32 CommonRspEv::get_code()'

i32 get_code(){return code_;};

٨

/DNXY/projects/dnxy_bike/src/intf/interface.cpp:202:45: warning: passing 'const GetAccountBalanceRspEv' as 'this' argument discards qualifiers [-fpermissive] result.__set_resultMsg(rsp->get_msg());

Λ

In file included from /DNXY/projects/dnxy_bike/src/intf/interface.cpp:15:0: /DNXY/projects/dnxy_bike/src/./common/events_def.h:48:24: note: in call to 'const string& CommonRspEv::get_msg('

const std::string& get_msg(){return msg_;};

 \wedge

/DNXY/projects/dnxy_bike/src/intf/interface.cpp:203:47: warning: passing 'const GetAccountBalanceRspEv' as 'this' argument discards qualifiers [-fpermissive] result.__set_balance(rsp->get_balance());

Λ

In file included from /DNXY/projects/dnxy_bike/src/intf/interface.cpp:15:0:

/DNXY/projects/dnxy_bike/src/./common/events_def.h:95:10: note: in call to 'i32& GetAccountBalanceRspEv::get_balance()'

i32& get_balance(){return balance_;};

 \land

/DNXY/projects/dnxy_bike/src/intf/interface.cpp:206:12: warning: return-statement with a value, in function returning 'void' [-fpermissive]

return result;

 \land

/DNXY/projects/dnxy_bike/src/intf/interface.cpp: In member function 'void BRKServiceHandler::lock_response_msg_2_result(brkservice::TravelResult&, const LockResultRspEv*)':

/DNXY/projects/dnxy_bike/src/intf/interface.cpp:222:48: warning: passing 'const LockResultRspEv' as 'this' argument discards qualifiers [-fpermissive]

TravelInfo info = rsp->get_travel_info();

Λ

In file included from /DNXY/projects/dnxy_bike/src/intf/interface.cpp:15:0:

/DNXY/projects/dnxy_bike/src/./common/events_def.h:195:23: note: in call to 'const TravelInfo& LockResultRspEv::get_travel_info()'

const TravelInfo& get_travel_info(){ return ti_;};

Λ

```
/DNXY/projects/dnxy_bike/src/intf/interface.cpp:223:47: warning:
                                                                      passing
                                                                                'const
LockResultRspEv' as 'this' argument discards qualifiers [-fpermissive]
          result.__set_resultCode(rsp->get_code());
In file included from /DNXY/projects/dnxy_bike/src/intf/interface.cpp:15:0:
/DNXY/projects/dnxy_bike/src/./common/events_def.h:47:9: note:
                                                                     in call to 'i32
CommonRspEv::get code()'
     i32 get_code(){return code_;};
/DNXY/projects/dnxy_bike/src/intf/interface.cpp:224:45: warning:
                                                                      passing
                                                                                'const
LockResultRspEv' as 'this' argument discards qualifiers [-fpermissive]
          result.__set_resultMsg(rsp->get_msg());
In file included from /DNXY/projects/dnxy_bike/src/intf/interface.cpp:15:0:
/DNXY/projects/dnxy_bike/src/./common/events_def.h:48:24: note:
                                                                      in call to 'const
string& CommonRspEv::get msg('
     const std::string& get_msg(){return msg_;};
/DNXY/projects/dnxy_bike/src/intf/interface.cpp:225:41: warning:
                                                                      passing
                                                                                'const
LockResultRspEv' as 'this' argument discards qualifiers [-fpermissive]
          result.__set_data(rsp->get_data());
In file included from /DNXY/projects/dnxy bike/src/intf/interface.cpp:15:0:
/DNXY/projects/dnxy_bike/src/./common/events_def.h:49:24: note: in call to 'const
string& CommonRspEv::get_data()'
     const std::string& get_data(){ return data_;};
/DNXY/projects/dnxy_bike/src/intf/interface.cpp:240:12: warning: return-statement with
a value, in function returning 'void' [-fpermissive]
     return result:
              Λ
/DNXY/projects/dnxy_bike/src/intf/interface.cpp:
                                                   In
                                                         member
                                                                     function
                                                                                  'void
BRKServiceHandler::account_records_response_msg_2_result(brkservice::RecordsResult
&, const ListAccountRecordsRspEv*)':
/DNXY/projects/dnxy_bike/src/intf/interface.cpp:252:47: warning:
                                                                      passing
                                                                                'const
ListAccountRecordsRspEv' as 'this' argument discards qualifiers [-fpermissive]
          result.__set_resultCode(rsp->get_code());
In file included from /DNXY/projects/dnxy_bike/src/intf/interface.cpp:15:0:
/DNXY/projects/dnxy_bike/src/./common/events_def.h:47:9: note: in call to 'i32
CommonRspEv::get_code()'
     i32 get_code(){return code_;};
/DNXY/projects/dnxy_bike/src/intf/interface.cpp:253:45: warning:
                                                                      passing
                                                                                'const
```

ListAccountRecordsRspEv' as 'this' argument discards qualifiers [-fpermissive] result.__set_resultMsg(rsp->get_msg()); In file included from /DNXY/projects/dnxy_bike/src/intf/interface.cpp:15:0: /DNXY/projects/dnxy_bike/src/./common/events_def.h:48:24: note: in call to 'const string& CommonRspEv::get_msg(' const std::string& get_msg(){return msg_;}; /DNXY/projects/dnxy_bike/src/intf/interface.cpp:255:58: warning: 'const ListAccountRecordsRspEv' as 'this' argument discards qualifiers [-fpermissive] std::vector<AccountRecord> rs = rsp->get records(); In file included from /DNXY/projects/dnxy_bike/src/intf/interface.cpp:15:0: /DNXY/projects/dnxy_bike/src/./common/events_def.h:267:39: note: std::vector<AccountRecord>& ListAccountRecordsRspEv::get_records()' const std::vector<AccountRecord>& get records(){ return records ;}; /DNXY/projects/dnxy_bike/src/intf/interface.cpp:266:12: warning: return-statement with a value, in function returning 'void' [-fpermissive] return result: /DNXY/projects/dnxy_bike/src/intf/interface.cpp: In member function 'void BRKServiceHandler::trave_result_response_msg_2_result(brkservice::TravelResult&, const ListTravelRecordsRspEv*)': /DNXY/projects/dnxy_bike/src/intf/interface.cpp:281:48: warning: passing 'const ListTravelRecordsRspEv' as 'this' argument discards qualifiers [-fpermissive] TravelInfo info = rsp->get_travel_info(); In file included from /DNXY/projects/dnxy_bike/src/intf/interface.cpp:15:0: /DNXY/projects/dnxy_bike/src/./common/events_def.h:285:23: note: in call to 'const TravelInfo& ListTravelRecordsRspEv::get_travel_info()' const TravelInfo& get_travel_info(){ return ti_;}; /DNXY/projects/dnxy_bike/src/intf/interface.cpp:282:47: warning: 'const ListTravelRecordsRspEv' as 'this' argument discards qualifiers [-fpermissive] result.__set_resultCode(rsp->get_code()); In file included from /DNXY/projects/dnxy_bike/src/intf/interface.cpp:15:0: /DNXY/projects/dnxy_bike/src/./common/events_def.h:47:9: note: in call to 'i32 CommonRspEv::get_code()' i32 get_code(){return code_;}; /DNXY/projects/dnxy_bike/src/intf/interface.cpp:283:45: warning: 'const ListTravelRecordsRspEv' as 'this' argument discards qualifiers [-fpermissive]

```
result.__set_resultMsg(rsp->get_msg());
  In file included from /DNXY/projects/dnxy_bike/src/intf/interface.cpp:15:0:
  /DNXY/projects/dnxy_bike/src/./common/events_def.h:48:24: note: in call to 'const
  string& CommonRspEv::get_msg('
        const std::string& get_msg(){return msg_;};
  /DNXY/projects/dnxy_bike/src/intf/interface.cpp:299:12: warning: return-statement with
  a value, in function returning 'void' [-fpermissive]
        return result;
  [73%] Building CXX object intf/CMakeFiles/intf.dir/interface_types.cpp.o
  [78%] Building CXX object intf/CMakeFiles/intf.dir/struct_types.cpp.o
  [ 82%] Building CXX object intf/CMakeFiles/intf.dir/BRKService.cpp.o
  [ 86%] Building CXX object intf/CMakeFiles/intf.dir/struct_constants.cpp.o
  [ 91%] Linking CXX static library libintf.a
  [91%] Built target intf
  [ 95%] Building CXX object CMakeFiles/brks.dir/main.cpp.o
  [100%] Linking CXX executable brks
  /usr/bin/ld: cannot find -ljsoncpp
  /usr/bin/ld: cannot find -ltinyxml
  collect2: error: Id returned 1 exit status
  CMakeFiles/brks.dir/build.make:98: recipe for target 'brks' failed
  make[2]: *** [brks] Error 1
  CMakeFiles/Makefile2:70: recipe for target 'CMakeFiles/brks.dir/all' failed
  make[1]: *** [CMakeFiles/brks.dir/all] Error 2
  Makefile:127: recipe for target 'all' failed
  make: *** [all] Error 2
  报错关键信息
  [100%] Linking CXX executable brks
  /usr/bin/ld: cannot find -ljsoncpp
  /usr/bin/ld: cannot find -ltinyxml
错误原因
    找不到 ljsoncpp 和 ltinyxml
    解决 lisoncpp
    cd /DNXY/projects/dnxy_bike/third/lib/
    rm rf ison
    mkdir json
    <del>cd json</del>
    In s /usr/lib/libjson_linux gcc 5.4.0_libmt.a libjsoncpp.a
    In -s /usr/lib/libjson_linux-gcc-5.4.0_libmt.so libjsoncpp.so
    cd /usr/lib
    In -s libjson_linux-gcc-5.4.0_libmt.a libjsoncpp.a
```

```
继续编译
cd /DNXY/projects/dnxy_bike/src
make clean
make
这回提示
[100%] Linking CXX executable brks
/usr/bin/ld: cannot find -ltinyxml
解决 Itinyxml
下载 tinyxml
wget https://launchpadlibrarian.net/290269646/tinyxml_2.6.2.orig.tar.gz
tar zxf tinyxml_2.6.2.orig.tar.gz
cd tinyxml/
cp Makefile Makefile.bak
sed 's/OUTPUT := xmltest/OUTPUT := libtinyxml.a/g' Makefile > Makefile.tmp
mv Makefile.tmp Makefile
sed 's/ xmltest.cpp//g' Makefile > Makefile.tmp
mv Makefile.tmp Makefile
sed 's/\t${LD} -o $@ ${LDFLAGS} ${OBJS} ${LIBS} ${EXTRA LIBS}/#
$\{LD\} -o \$@ \$\{LDFLAGS\} \$\{OBJS\} \$\{LIBS\} \$\{EXTRA LIBS\\n\t\$\{AR\}
$@ ${LDFLAGS} ${OBJS} ${LIBS} ${EXTRA LIBS}/g' Makefile >
Makefile.tmp
mv Makefile.tmp Makefile
sed 's/xmltest.o/g' Makefile > Makefile.tmp
mv Makefile.tmp Makefile
make
rm tiny*.o
cp libtinyxml.a /usr/lib/
继续编译
cd /DNXY/projects/dnxy_bike/src
make clean
make
[ 73%] Building CXX object intf/CMakeFiles/intf.dir/interface_types.cpp.o
[ 78%] Building CXX object intf/CMakeFiles/intf.dir/struct types.cpp.o
[ 82%] Building CXX object intf/CMakeFiles/intf.dir/BRKService.cpp.o
[ 86%] Building CXX object intf/CMakeFiles/intf.dir/struct_constants.cpp.o
[ 91%] Linking CXX static library libintf.a
[ 91%] Built target intf
[ 95%] Building CXX object CMakeFiles/brks.dir/main.cpp.o
[100%] Linking CXX executable brks
[100%] Built target brks
编译成功
```