以安装json库为例进行说明:

1指令安装json-c库:

sudo apt-get install libjson-c-dev

2 下载json-c库的压缩包的位置:

/var/cache/apt/archives

3 json-c库压缩包的信息:

:/var/cache/apt/archives \$ dpkg -c libjson-c-dev_0.11-3ubuntu1.2_i386.deb drwxr-xr-x root/root 0 2014-06-04 03:41 ./ drwxr-xr-x root/root 0 2014-06-04 03:40 ./usr/ 0 2014-06-04 03:40 ./usr/lib/ drwxr-xr-x root/root drwxr-xr-x root/root 0 2014-06-04 03:40 ./usr/lib/i386-linux-gnu/ drwxr-xr-x root/root 0 2014-06-04 03:40 ./usr/lib/i386-linux-gnu/pkgconfig/ -rw-r--r- root/root 238 2014-06-04 03:40 ./usr/lib/i386-linux-gnu/pkgconfig/json-c.pc 51146 2014-06-04 03:40 ./usr/lib/i386-linux-gnu/libjson-c.a -rw-r--r- root/root 0 2014-06-04 03:40 ./usr/share/ drwxr-xr-x root/root drwxr-xr-x root/root 0 2014-06-04 03:40 ./usr/share/doc/ 0 2014-06-04 03:41 ./usr/share/doc/libjson-c-dev/ drwxr-xr-x root/root -rw-r--r- root/root 1927 2013-08-27 18:50 ./usr/share/doc/libjson-c-dev/copyright 0 2014-06-04 03:40 ./usr/include/ drwxr-xr-x root/root 0 2014-06-04 03:40 ./usr/include/json-c/ drwxr-xr-x root/root -rw-r--r- root/root 2194 2014-06-04 03:40 ./usr/include/json-c/printbuf.h -rw-r--r- root/root 580 2014-06-04 03:40 ./usr/include/json-c/json inttypes.h -rw-r--r- root/root 407 2014-06-04 03:40 ./usr/include/json-c/random_seed.h 990 2014-06-04 03:40 ./usr/include/json-c/json_object_private.h -rw-r--r- root/root -rw-r--r- root/root 6761 2014-06-04 03:40 ./usr/include/json-c/linkhash.h 684 2014-06-04 03:40 ./usr/include/json-c/json_c_version.h -rw-r--r-- root/root -rw-r--r- root/root 1089 2014-06-04 03:40 ./usr/include/json-c/arraylist.h 1034 2014-06-04 03:40 ./usr/include/json-c/json util.h -rw-r--r- root/root 19749 2014-06-04 03:40 ./usr/include/json-c/json_object.h -rw-r--r- root/root -rw-r--r- root/root 1869 2014-06-04 03:40 ./usr/include/json-c/debug.h -rw-r--r- root/root 693 2014-06-04 03:40 ./usr/include/json-c/bits.h -rw-r--r- root/root 7019 2014-06-04 03:40 ./usr/include/json-c/json_tokener.h -rw-r--r- root/root 163 2014-06-04 03:40 ./usr/include/json-c/json config.h 8187 2014-06-04 03:40 ./usr/include/json-c/json_object_iterator.h -rw-r--r- root/root -rw-r--r- root/root 699 2014-06-04 03:40 ./usr/include/json-c/json.h Irwxrwxrwx root/root 0 2014-06-04 03:40 ./usr/lib/i386-linux-gnu/libjson-c.so -> /lib/i386-linux-gnu/libjsonc.so.2.0.0 Irwxrwxrwx root/root 0 2014-06-04 03:41 ./usr/share/doc/libjson-c-dev/changelog.Debian.gz -> ../libjson-

4 通过步骤3, 就知道 编译时需要的头文件 和 链接时需要的库文件 的存放的位置了。

头文件:/usr/include/

c2/changelog.Debian.gz

库文件:/usr/lib/i386-linux-gun/

5 通过写测试程序也可以知道库文件的位置:

```
#include <json-c/json.h>
#include <stdio.h>
int main()
{
  struct json_object* msg = NULL;
  msg = json_object_new_object();
  if (msg)
  {
    json_object_object_add(msg, "firstName", json_object_new_string("chzh"));
    json_object_object_add(msg, "lastName", json_object_new_string("deng"));
  }
  printf("---%s-----\n", json_object_get_string(msg));
  json_object_put(msg);
  return 0;
编译及链接: gcc json_str.c -o json_str -ljson-c
查看链接了哪些动态库:
:~/github/example/C/module/app_json $ Idd json_str
    linux-gate.so.1 => (0xb7765000)
    libjson-c.so.2 => /lib/i386-linux-gnu/libjson-c.so.2 (0xb7740000)
    libc.so.6 => /lib/i386-linux-gnu/libc.so.6 (0xb758f000)
    /lib/ld-linux.so.2 (0xb7767000)
```

6 ubuntu系统是怎么知道动态库存放的位置或路径的?

在/etc/ld.so.conf中添加路径:

比如在/etc/ld.so.conf.d/i686-linux-gnu.conf中添加/lib/i386-linux-gnu的路径;

执行sudo /sbin/ldconfig命令生效,缓存到/etc/ld.so.cache 以供使用

7 手动安装一个Debian软件包的指令

- 1、dpkg -i <package.deb> 安装一个 Debian 软件包,如你手动下载的文件。
- 2、dpkg -c <package.deb>
 列出 <package.deb> 的内容。

8 查看lighttp软件安装的位置:

:/var/cache/apt/archives \$ dpkg -c lighttpd_1.4.33-1+nmu2ubuntu2_i386.deb drwxr-xr-x root/root 0 2014-01-29 01:24 ./

```
drwxr-xr-x root/root
                         0 2014-01-29 01:24 ./lib/
                         0 2014-01-29 01:24 ./lib/systemd/
drwxr-xr-x root/root
                         0 2014-01-29 01:24 ./lib/systemd/system/
drwxr-xr-x root/root
-rw-r--r- root/root
                      234 2014-01-29 01:08 ./lib/systemd/system/lighttpd.service
drwxr-xr-x root/root
                         0 2014-01-29 01:24 ./usr/
                         0 2014-01-29 01:24 ./usr/lib/
drwxr-xr-x root/root
                         0 2014-01-29 01:24 ./usr/lib/cgi-bin/
drwxr-xr-x root/root
                         0 2014-01-29 01:24 ./usr/lib/tmpfiles.d/
drwxr-xr-x root/root
-rw-r--r- root/root
                       45 2014-01-29 01:08 ./usr/lib/tmpfiles.d/lighttpd.tmpfile.conf
drwxr-xr-x root/root
                         0 2014-01-29 01:24 ./usr/lib/lighttpd/
                     22088 2014-01-29 01:24 ./usr/lib/lighttpd/mod_proxy.so
-rw-r--r- root/root
                     30692 2014-01-29 01:24 ./usr/lib/lighttpd/mod_auth.so
-rw-r--r- root/root
-rw-r--r- root/root
                     18204 2014-01-29 01:24 ./usr/lib/lighttpd/mod_dirlisting.so
                     26356 2014-01-29 01:24 ./usr/lib/lighttpd/mod_ssi.so
-rw-r--r- root/root
                     13884 2014-01-29 01:24 ./usr/lib/lighttpd/mod rewrite.so
-rw-r--r- root/root
                     38844 2014-01-29 01:24 ./usr/lib/lighttpd/mod scgi.so
-rw-r--r- root/root
                     18044 2014-01-29 01:24 ./usr/lib/lighttpd/mod_compress.so
-rw-r--r- root/root
                     9596 2014-01-29 01:24 ./usr/lib/lighttpd/mod alias.so
-rw-r--r- root/root
-rw-r--r- root/root
                     9724 2014-01-29 01:24 ./usr/lib/lighttpd/mod_simple_vhost.so
-rw-r--r- root/root
                     22124 2014-01-29 01:24 ./usr/lib/lighttpd/mod_cgi.so
                     9628 2014-01-29 01:24 ./usr/lib/lighttpd/mod expire.so
-rw-r--r- root/root
                     5488 2014-01-29 01:24 ./usr/lib/lighttpd/mod_access.so
-rw-r--r- root/root
                     9648 2014-01-29 01:24 ./usr/lib/lighttpd/mod_extforward.so
-rw-r--r- root/root
-rw-r--r- root/root
                     9640 2014-01-29 01:24 ./usr/lib/lighttpd/mod evhost.so
-rw-r--r- root/root
                     17980 2014-01-29 01:24 ./usr/lib/lighttpd/mod_status.so
                     9756 2014-01-29 01:24 ./usr/lib/lighttpd/mod secdownload.so
-rw-r--r- root/root
                     9624 2014-01-29 01:24 ./usr/lib/lighttpd/mod redirect.so
-rw-r--r- root/root
                     51228 2014-01-29 01:24 ./usr/lib/lighttpd/mod_fastcgi.so
-rw-r--r- root/root
-rw-r--r- root/root
                     9788 2014-01-29 01:24 ./usr/lib/lighttpd/mod_userdir.so
                     9592 2014-01-29 01:24 ./usr/lib/lighttpd/mod setenv.so
-rw-r--r- root/root
                     13772 2014-01-29 01:24 ./usr/lib/lighttpd/mod_staticfile.so
-rw-r--r- root/root
-rw-r--r- root/root
                     9640 2014-01-29 01:24 ./usr/lib/lighttpd/mod_flv_streaming.so
                     13764 2014-01-29 01:24 ./usr/lib/lighttpd/mod rrdtool.so
-rw-r--r- root/root
                     18012 2014-01-29 01:24 ./usr/lib/lighttpd/mod_accesslog.so
-rw-r--r- root/root
                     5480 2014-01-29 01:24 ./usr/lib/lighttpd/mod evasive.so
-rw-r--r- root/root
                     9608 2014-01-29 01:24 ./usr/lib/lighttpd/mod_indexfile.so
-rw-r--r- root/root
                     9756 2014-01-29 01:24 ./usr/lib/lighttpd/mod_usertrack.so
-rw-r--r- root/root
                         0 2014-01-29 01:24 ./usr/share/
drwxr-xr-x root/root
drwxr-xr-x root/root
                         0 2014-01-29 01:24 ./usr/share/lintian/
drwxr-xr-x root/root
                         0 2014-01-29 01:24 ./usr/share/lintian/overrides/
-rw-r--r- root/root
                      350 2014-01-29 01:08 ./usr/share/lintian/overrides/lighttpd
drwxr-xr-x root/root
                         0 2014-01-29 01:24 ./usr/share/doc/
                         0 2014-01-29 01:24 ./usr/share/doc/lighttpd/
drwxr-xr-x root/root
-rw-r--r- root/root
                     3620 2011-06-13 20:43 ./usr/share/doc/lighttpd/README
-rw-r--r- root/root
                     20756 2013-08-31 02:46 ./usr/share/doc/lighttpd/NEWS.gz
                     1108 2014-01-29 01:08 ./usr/share/doc/lighttpd/NEWS.Debian.gz
-rw-r--r- root/root
```

```
-rw-r--r- root/root
                     4386 2014-01-29 01:08 ./usr/share/doc/lighttpd/copyright
                     1885 2014-01-29 01:25 ./usr/share/doc/lighttpd/changelog.Debian.gz
-rw-r--r- root/root
                         0 2014-01-29 01:24 ./usr/share/man/
drwxr-xr-x root/root
                         0 2014-01-29 01:24 ./usr/share/man/man1/
drwxr-xr-x root/root
-rw-r--r- root/root
                     1136 2014-01-29 01:24 ./usr/share/man/man1/lighty-enable-mod.1.gz
                         0 2014-01-29 01:24 ./usr/share/man/man8/
drwxr-xr-x root/root
                      936 2014-01-29 01:24 ./usr/share/man/man8/lighttpd.8.gz
-rw-r--r- root/root
                         0 2014-01-29 01:24 ./usr/share/lighttpd/
drwxr-xr-x root/root
-rwxr-xr-x root/root
                       241 2014-01-29 01:08 ./usr/share/lighttpd/include-conf-enabled.pl
                       247 2014-01-29 01:08 ./usr/share/lighttpd/use-ipv6.pl
-rwxr-xr-x root/root
                       461 2014-01-29 01:08 ./usr/share/lighttpd/create-mime.assign.pl
-rwxr-xr-x root/root
                     3568 2014-01-29 01:08 ./usr/share/lighttpd/index.html
-rw-r--r- root/root
drwxr-xr-x root/root
                         0 2014-01-29 01:24 ./usr/sbin/
                      5600 2014-01-29 01:24 ./usr/sbin/lighttpd-angel
-rwxr-xr-x root/root
                      4336 2014-01-29 01:08 ./usr/sbin/lighty-enable-mod
-rwxr-xr-x root/root
                      195792 2014-01-29 01:24 ./usr/sbin/lighttpd
-rwxr-xr-x root/root
drwxr-xr-x root/root
                         0 2014-01-29 01:24 ./var/
                           0 2014-01-29 01:24 ./var/www/
drwxr-xr-x root/root
drwxr-xr-x root/root
                         0 2014-01-29 01:24 ./var/log/
drwxr-x--- www-data/www-data 0 2014-01-29 01:24 ./var/log/lighttpd/
                         0 2014-01-29 01:24 ./var/cache/
drwxr-xr-x root/root
drwxr-xr-x root/root
                         0 2014-01-29 01:24 ./var/cache/lighttpd/
drwxr-xr-x www-data/www-data 0 2014-01-29 01:24 ./var/cache/lighttpd/uploads/
drwxr-xr-x www-data/www-data 0 2014-01-29 01:24 ./var/cache/lighttpd/compress/
drwxr-xr-x root/root
                         0 2014-01-29 01:24 ./etc/
                         0 2014-01-29 01:24 ./etc/logrotate.d/
drwxr-xr-x root/root
                      419 2014-01-29 01:24 ./etc/logrotate.d/lighttpd
-rw-r--r- root/root
                         0 2014-01-29 01:24 ./etc/cron.daily/
drwxr-xr-x root/root
-rwxr-xr-x root/root
                       338 2014-01-29 01:24 ./etc/cron.daily/lighttpd
                         0 2014-01-29 01:24 ./etc/ufw/
drwxr-xr-x root/root
                         0 2014-01-29 01:24 ./etc/ufw/applications.d/
drwxr-xr-x root/root
                      383 2014-01-29 01:24 ./etc/ufw/applications.d/lighttpd
-rw-r--r- root/root
                         0 2014-01-29 01:24 ./etc/init.d/
drwxr-xr-x root/root
                      2887 2014-01-29 01:08 ./etc/init.d/lighttpd
-rwxr-xr-x root/root
                         0 2014-01-29 01:24 ./etc/lighttpd/
drwxr-xr-x root/root
                         0 2014-01-29 01:24 ./etc/lighttpd/conf-available/
drwxr-xr-x root/root
                      508 2014-01-29 01:08 ./etc/lighttpd/conf-available/90-debian-doc.conf
-rw-r--r- root/root
                      849 2014-01-29 01:08 ./etc/lighttpd/conf-available/10-proxy.conf
-rw-r--r- root/root
-rw-r--r- root/root
                      843 2014-01-29 01:08 ./etc/lighttpd/conf-available/README
                      128 2014-01-29 01:08 ./etc/lighttpd/conf-available/10-evhost.conf
-rw-r--r- root/root
                      104 2014-01-29 01:08 ./etc/lighttpd/conf-available/10-expire.conf
-rw-r--r- root/root
                      168 2014-01-29 01:08 ./etc/lighttpd/conf-available/11-extforward.conf
-rw-r--r- root/root
                      450 2014-01-29 01:08 ./etc/lighttpd/conf-available/10-userdir.conf
-rw-r--r- root/root
-rw-r--r- root/root
                      38 2014-01-29 01:08 ./etc/lighttpd/conf-available/10-usertrack.conf
-rw-r--r- root/root
                      36 2014-01-29 01:08 ./etc/lighttpd/conf-available/10-evasive.conf
-rw-r--r- root/root
                      269 2014-01-29 01:08 ./etc/lighttpd/conf-available/10-ssl.conf
```

-rw-rr root/root	839 2014-01-29 01:08 ./etc/lighttpd/conf-available/05-auth.conf
-rw-rr- root/root	177 2014-01-29 01:08 ./etc/lighttpd/conf-available/10-fastcgi.conf
-rw-rr- root/root	99 2014-01-29 01:08 ./etc/lighttpd/conf-available/10-ssi.conf
-rw-rr- root/root	82 2014-01-29 01:08 ./etc/lighttpd/conf-available/10-no-www.conf
-rw-rr- root/root	575 2014-01-29 01:08 ./etc/lighttpd/conf-available/15-fastcgi-php.conf
-rw-rr- root/root	253 2014-01-29 01:08 ./etc/lighttpd/conf-available/10-rrdtool.conf
-rw-rr- root/root	91 2014-01-29 01:08 ./etc/lighttpd/conf-available/10-accesslog.conf
-rw-rr- root/root	343 2014-01-29 01:08 ./etc/lighttpd/conf-available/10-cgi.conf
-rw-rr- root/root	63 2014-01-29 01:08 ./etc/lighttpd/conf-available/10-dir-listing.conf
-rw-rr- root/root	398 2014-01-29 01:08 ./etc/lighttpd/conf-available/10-simple-vhost.conf
-rw-rr- root/root	460 2014-01-29 01:08 ./etc/lighttpd/conf-available/10-status.conf
-rw-rr- root/root	42 2014-01-29 01:08 ./etc/lighttpd/conf-available/10-flv-streaming.conf
-rw-rr root/root	1065 2014-01-29 01:08 ./etc/lighttpd/lighttpd.conf
drwxr-xr-x root/root	0 2014-01-29 01:24 ./etc/lighttpd/conf-enabled/
Irwxrwxrwx root/root	0 2014-01-29 01:24 ./usr/share/man/man1/lighttpd-disable-mod.1.gz -> lighty-enable-
mod.1.gz	
Irwxrwxrwx root/root	0 2014-01-29 01:24 ./usr/share/man/man1/lighttpd-enable-mod.1.gz -> lighty-enable-
mod.1.gz	
Irwxrwxrwx root/root	0 2014-01-29 01:24 ./usr/share/man/man1/lighty-disable-mod.1.gz -> lighty-enable-mod.1.gz
Irwxrwxrwx root/root	0 2014-01-29 01:24 ./usr/sbin/lighttpd-disable-mod -> lighty-enable-mod
Irwxrwxrwx root/root	0 2014-01-29 01:24 ./usr/sbin/lighttpd-enable-mod -> lighty-enable-mod
Irwxrwxrwx root/root	0 2014-01-29 01:24 ./usr/sbin/lighty-disable-mod -> lighty-enable-mod