[交叉编译bluez-4.95](http://blog.csdn.net/williamwang2013/article/details/8533712)

分类： [linux bluetooth](http://blog.csdn.net/williamwang2013/article/category/1324431)2013-01-23 13:20 1121人阅读 [评论](http://blog.csdn.net/williamwang2013/article/details/8533712#comments)(1) [收藏](javascript:void(0);) [举报](http://blog.csdn.net/williamwang2013/article/details/8533712#report)

[交叉编译bluez](http://www.csdn.net/tag/%e4%ba%a4%e5%8f%89%e7%bc%96%e8%af%91bluez)[蓝牙移植](http://www.csdn.net/tag/%e8%93%9d%e7%89%99%e7%a7%bb%e6%a4%8d)

编译工具 arm-none-linux-gnueabi-

下载expat-2.0.1.tar.gz [http://sourceforge.net/projects/expat/files/expat/](file:///C:\Users\Logyi\AppData\Local\youdao\ynote\editor\web\&nbsp;http:\sourceforge.net\projects\expat\files\expat\)

解压并进入expat-2.0.1

**CC=arm-none-linux-gnueabi-gcc ./configure --prefix=/home/wwtao/Desktop/bluetooth/include/ --host=arm-linux**

**make**

**make install**

下载dbus-1.4.1  <http://dbus.freedesktop.org/releases/dbus/>

tar zxvf dbus-1.4.1.tar.gz

**CC=arm-none-linux-gnueabi-gcc ./configure CFLAGS=-I/home/wwtao/Desktop/bluetooth/include/include LDFLAGS=-L/home/wwtao/Desktop/bluetooth/include/lib --prefix=/home/wwtao/Desktop/bluetooth/include/ --host=arm-linux --enable-abstract-sockets --with-x=no**

**make**

**make install**

下载glib-2.16.0  <http://ftp.gnome.org/pub/gnome/sources/glib/>

Bluez-4.101需要glib-2.28.0及以上

解压并进入（提示：glib-2.30以上比较复杂，要编译zlib和libffi）

**CC=arm-none-linux-gnueabi-gcc ./configure --host=arm-linux --prefix=/home/wwtao/Desktop/bluetooth/include/ glib\_cv\_stack\_grows=no glib\_cv\_uscore=yeses ac\_cv\_func\_posix\_getpwuid\_r=yes ac\_cv\_func\_posix\_getgrgid\_r=yes glib\_cv\_have\_qsort\_r=yes**

出现 error: Could not find a glib-genmarshal in your PATH，  
解决方案：先在主机安装 apt-get install libglib2.0-dev

出现error: 'ARG\_MAX' undeclared (first use in this function)

#define ARG\_MAX 131072

**make**

**make install**

从[http://www.kernel.org/pub/linux/bluetooth/](file:///C:\Users\Logyi\AppData\Local\youdao\ynote\editor\web\&nbsp;http:\www.kernel.org\pub\linux\bluetooth\) 下载bluez-4.95

tar zxvf bluez-4.95.tar.gz

**export PKG\_CONFIG\_LIBDIR=/home/wwtao/Desktop/bluetooth/include/lib/pkgconfig/**

**./configure --prefix=/home/wwtao/Desktop/bluetooth/include/ --host=arm-linux --target=arm-linux CC=arm-none-linux-gnueabi-gcc CFLAGS=-I/home/wwtao/Desktop/bluetooth/include/include LDFLAGS=-L/home/wwtao/Desktop/bluetooth/include/lib --disable-audio --enable-test**

**make**

**make install**

4.编译bluez-libs-3.36

<http://www.bluez.org/download/>

**./configure CC=arm-none-linux-gnueabi-gcc --host=arm-linux --prefix=/home/wwtao/Desktop/bluetooth/include/**

make&make install

5.编译bluez-utils-3.36.

**export PKG\_CONFIG\_LIBDIR=/home/wwtao/Desktop/bluetooth/include/lib/pkgconfig/**

**./configure --prefix=/home/wwtao/Desktop/bluetooth/include/ --host=arm-linux CC="arm-none-linux-gnueabi-gcc -I/home/wwtao/Desktop/bluetooth/include/include -L/home/wwtao/Desktop/bluetooth/include/lib -shared" --disable-audio --enable-test**

make

make install

交叉编译基于bluez的程序：

**export PKG\_CONFIG\_LIBDIR=/home/wwtao/Desktop/bluetooth/include/lib/pkgconfig/**

**arm-none-linux-gnueabi-gcc -static -I/home/wwtao/Desktop/bluetooth/include/include -L/home/wwtao/Desktop/bluetooth/include/lib -o filename filename.c -lbluetooth**如果出现错误：

server.c:(.text+0x2f0): undefined reference to `pthread\_create'

server.c:(.text+0x316): undefined reference to `pthread\_detach'

需要加上-lpthread

其中的-static是为了让程序运行在Android平台设备运行，因为Android设备中没有glibc的程序。

---------------------用ndk生成的交叉编译器编译，方便采用ndk一直Bluetooth-----------------

6.利用ndk-build编译

LOCAL\_PATH := $(call my-dir)

include $(CLEAR\_VARS)

LOCAL\_MODULE := client\_android

LOCAL\_SRC\_FILES := client.c

LOCAL\_CFLAGS += -I/home/wwtao/Desktop/bluetooth/ include/include

LOCAL\_LDLIBS += -L/home/wwtao/Desktop/bluetooth/libfrompanda -lbluetooth

include $(BUILD\_EXECUTABLE)

#include $(BUILD\_STATIC\_LIBRARY)

#include $(BUILD\_SHARED\_LIBRARY)

include $(CLEAR\_VARS)

LOCAL\_MODULE := server\_android

LOCAL\_SRC\_FILES := server.c

LOCAL\_CFLAGS += -I/home/wwtao/Desktop/bluetooth/ include/include

LOCAL\_LDLIBS += -L/home/wwtao/Desktop/bluetooth/libfrompanda -lbluetooth

include $(BUILD\_EXECUTABLE)

#include $(BUILD\_STATIC\_LIBRARY)

#include $(BUILD\_SHARED\_LIBRARY)