

编译某基于openwrt的sdk

由于自己的linux系统比较新，导致编译个基于openwrt的sdk问题多多，在此记录解决过程

1.

问题：

```
freadahead.c: In function 'freadahead':
freadahead.c:91:3: error: #error "Please port gnulib freadahead.c to your platform! Look at the definition of fflush, fread, ungetc on your system, then report this to bug-gnulib."
   91 | #error "Please port gnulib freadahead.c to your platform! Look at the definition of fflush, fread, ungetc on your system, then report this to bug-gnulib."
      | ^~~~~~
make[7]: *** [Makefile:1837: freadahead.o] Error 1
make[7]: Leaving directory '/opt/p2/openwrt/build_dir/host/m4-1.4.17/lib'
```

解决：

```
cd /opt/p2/openwrt/build_dir/host/m4-1.4.17/
sed -i 's/IO_ftrylockfile/IO_EOF_SEEN/' lib/*.c
echo "#define _IO_IN_BACKUP 0x100" >> lib/stdio-impl.h
```

2.

问题：

```
lib/fseterr.c: In function 'fseterr':
lib/fseterr.c:77:3: error: #error "Please port gnulib fseterr.c to your platform! Look at the definitions of ferror and clearerr on your system, then report this to bug-gnulib."
   77 | #error "Please port gnulib fseterr.c to your platform! Look at the definitions of ferror and clearerr on your system, then report this to bug-gnulib."
      | ^~~~~~
make[6]: *** [Makefile:3461: lib/fseterr.o] Error 1
make[6]: Leaving directory '/opt/p2/openwrt/build_dir/host/bison-3.0.4'
```

解决：

```
cd /opt/p2/openwrt/build_dir/host/bison-3.0.4/
sed -i 's/IO_ftrylockfile/IO_EOF_SEEN/' lib/*.c
echo "#define _IO_IN_BACKUP 0x100" >> lib/stdio-impl.h
```

3.

问题：

```
/usr/lib64/gcc/x86_64-suse-linux/9/../../../../x86_64-suse-linux/bin/ld: /opt/p2/openwrt/build_dir/host/mtd-utils-1.5.2/mkfs.jffs2.o: in function `write_special_file':
/opt/p2/openwrt/build_dir/host/mtd-utils-1.5.2/mkfs.jffs2.c:944: undefined reference to `major'
/usr/lib64/gcc/x86_64-suse-linux/9/../../../../x86_64-suse-linux/bin/ld: /opt/p2/openwrt/build_dir/host/mtd-utils-1.5.2/mkfs.jffs2.c:944: undefined reference to `minor'
/usr/lib64/gcc/x86_64-suse-linux/9/../../../../x86_64-suse-linux/bin/ld: /opt/p2/openwrt/build_dir/host/mtd-utils-1.5.2/mkfs.jffs2.o: in function `recursive_populate_directory':
/opt/p2/openwrt/build_dir/host/mtd-utils-1.5.2/mkfs.jffs2.c:1273: undefined reference to `minor'
/usr/lib64/gcc/x86_64-suse-linux/9/../../../../x86_64-suse-linux/bin/ld: /opt/p2/openwrt/build_dir/host/mtd-utils-1.5.2/mkfs.jffs2.c:1273: undefined reference to `major'
```

```
/usr/lib64/gcc/x86_64-suse-linux/9/../../../../x86_64-suse-linux/bin/ld: /opt/p2/openwrt/build_dir/host/mtd-utils-1.5.2/mkfs.jffs2.c:1263:
undefined reference to `minor'
/usr/lib64/gcc/x86_64-suse-linux/9/../../../../x86_64-suse-linux/bin/ld: /opt/p2/openwrt/build_dir/host/mtd-utils-1.5.2/mkfs.jffs2.c:1263:
undefined reference to `major'
/usr/lib64/gcc/x86_64-suse-linux/9/../../../../x86_64-suse-linux/bin/ld: /opt/p2/openwrt/build_dir/host/mtd-utils-1.5.2/mkfs.jffs2.o: in
function `interpret_table_entry':
/opt/p2/openwrt/build_dir/host/mtd-utils-1.5.2/mkfs.jffs2.c:467: undefined reference to `makedev'
/usr/lib64/gcc/x86_64-suse-linux/9/../../../../x86_64-suse-linux/bin/ld: /opt/p2/openwrt/build_dir/host/mtd-utils-1.5.2/mkfs.jffs2.c:503:
undefined reference to `makedev'
/usr/lib64/gcc/x86_64-suse-linux/9/../../../../x86_64-suse-linux/bin/ld: /opt/p2/openwrt/build_dir/host/mtd-utils-1.5.2/mkfs.jffs2.c:510:
undefined reference to `makedev'
```

解决:

/opt/p2/openwrt/build_dir/host/mtd-utils-1.5.2/mkfs.jffs2.c 中添加#include <sys/sysmacros.h>

4.

问题:

```
CC      ubi-utils/libubi.o
ubi-utils/libubi.c: In function 'vol_node2nums':
ubi-utils/libubi.c:383:10: error: called object 'major' is not a function or function pointer
```

解决:

此问题与3号问题相似，打开文件发现二者都有#include <sys/types.h>, 暴力点可以直接修改/usr/include/sys/types.h添加#include <sys/sysmacros.h>

5.

问题:

```
/usr/include/asm-generic/int-ll64.h:31:42: error: conflicting types for '__u64'
 31 | __extension__ typedef unsigned long long __u64;
    |                               ^~~~~
In file included from <command-line>:
./include/compiler.h:69:18: note: previous declaration of '__u64' was here
 69 | typedef uint64_t __u64;
```

解决:

修改build_dir/host/u-boot-2018.03/include/compiler.h
注释或者删除typedef uint64_t __u64;

6.

问题:

```
freadahead.c: In function 'freadahead':
freadahead.c:92:3: error: #error "Please port gnulib freadahead.c to your platform! Look at the definition of fflush, fread, ungetc on
your system, then report this to bug-gnulib."
 92 | #error "Please port gnulib freadahead.c to your platform! Look at the definition of fflush, fread, ungetc on your system, then
report this to bug-gnulib."
    | ^~~~~
make[9]: *** [Makefile:2225: freadahead.o] Error 1
make[9]: Leaving directory '/opt/p2/openwrt/build_dir/host/findutils-4.6.0/gl/lib'
```

解决:

进入出错目录:

```
cd /opt/p2/openwrt/build_dir/host/findutils-4.6.0
sed -i 's/IO_ftrylockfile/IO_EOF_SEEN/' lib/*.c
echo "#define _IO_IN_BACKUP 0x100" >> lib/stdio-impl.h

sed -i 's/IO_ftrylockfile/IO_EOF_SEEN/' gl/lib/*.c
echo "#define _IO_IN_BACKUP 0x100" >> gl/lib/stdio-impl.h
sed -i '/unistd/a #include <sys/sysmacros.h>' gl/lib/mountlist.c
```

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问题:

checking version of makeinfo... v. ???, bad

configure: WARNING:

```
*** These auxiliary programs are missing or incompatible versions: makeinfo
*** some features will be disabled.
*** Check the INSTALL file for required versions.
```

checking LD_LIBRARY_PATH variable... contains current directory

configure: error:

```
*** LD_LIBRARY_PATH shouldn't contain the current directory when
*** building glibc. Please change the environment variable
*** and run configure again.
```

make[3]: *** [Makefile:30: /opt/p2/openwrt/build_dir/toolchain-arm_cortex-a7+neon_gcc-5.3.0_glibc-2.22_eabi/glibc-2.22-b995d95-headers/.configured] Error 1

make[3]: Leaving directory '/opt/p2/openwrt/toolchain/glibc/headers'

解决:

系统中安装有makeinfo 6.7 真正指向的是texi2any /usr/bin/makeinfo -> texi2any

安装旧版的makeinfo4 发现无效

只能修改build_dir/toolchain-arm_cortex-a7+neon_gcc-5.3.0_glibc-2.22_eabi/glibc-2.22-b995d95/configure

```
{ $as_echo "$as_me:${as_lineno-$LINENO}: checking version of $MAKEINFO" >&5
$as_echo_n "checking version of $MAKEINFO... " >&6; }
ac_prog_version=`$MAKEINFO --version 2>&1 | sed -n 's/^.*GNU texinfo.* \([0-9][0-9.]*\).*$/\1/p`
test_info=`$MAKEINFO --version`
$as_echo "$test_info";
case $ac_prog_version in
  ") ac_prog_version="v. ???, bad"; ac_verc_fail=yes;;
```

中的

```
) ac_prog_version="v. ???, bad"; ac_verc_fail=yes;;
```

改成

```
) ac_prog_version="v. ???, bad"; ac_verc_fail=no;;
```

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问题:

checking LD_LIBRARY_PATH variable... contains current directory

configure: error:

```
*** LD_LIBRARY_PATH shouldn't contain the current directory when
*** building glibc. Please change the environment variable
*** and run configure again.
```

解决:

echo \$LD_LIBRARY_PATH 查看当前LD_LIBRARY_PATH变量

```
:/usr/lib64:/usr/local/lib:/usr/local/lib64:/usr/local/cuda/lib64:/usr/local/cuda/extras/CUPTI/lib64:/usr/lib64:/usr/local/lib:/usr/local/lib64:/usr/local/cuda/lib64:/usr/local/cuda/extras/CUPTI/lib64
```

第一个字符是多余的, 可以把它删除, 或者暴力点直接把变量清空

```
export LD_LIBRARY_PATH=""
```

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问题

```
./scripts/dtc-version.sh: line 17: dtc: command not found
```

```
./scripts/dtc-version.sh: line 18: dtc: command not found
```

```
*** Your dtc is too old, please upgrade to dtc 1.4 or newer
```

```
make[4]: *** [Makefile:1375: checkdtc] Error 1
```

```
make[4]: Leaving directory '/opt/p2/u-boot'
```

解决:

系统中安装dtc这个软件

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问题

```
make[8]: Entering directory '/opt/p2/openwrt/build_dir/target-arm_cortex-a7+neon_glibc-2.22_eabi/host/glib-2.50.3/gio'
```

```
CC      libgio_2_0_la-gdbusauth.lo
```

```
gdbusauth.c: In function '_g_dbus_auth_run_server':
```

```
gdbusauth.c:1304:11: error: '%s' directive argument is null [-Werror=format-overflow=]
```

```
1304 |         debug_print ("SERVER: WaitingForBegin, read '%s'", line);
```

```
      |         ^-----
```

```
cc1: some warnings being treated as errors
```

```
make[8]: *** [Makefile:3531: libgio_2_0_la-gdbusauth.lo] Error 1
```

```
make[8]: Leaving directory '/opt/p2/openwrt/build_dir/target-arm_cortex-a7+neon_glibc-2.22_eabi/host/glib-2.50.3/gio'
```

解决:

```
cd /opt/p2/openwrt/build_dir/target-arm_cortex-a7+neon_glibc-2.22_eabi/host/glib-2.50.3/gio
```

修改

```
    debug_print ("SERVER: WaitingForBegin, read '%s'", line);
```

```
    if (line == NULL)
```

```
        goto out;
```

为

```
    if (line == NULL)
```

```
        goto out;
```

```
    debug_print ("SERVER: WaitingForBegin, read '%s'", line);
```

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问题:

```
gdbusmessage.c: In function 'g_dbus_message_to_blob':
```

```
gdbusmessage.c:2698:30: error: '%s' directive argument is null [-Werror=format-overflow=]
```

```
2698 |     tupled_signature_str = g_strdup_printf ("(%s)", signature_str);
```

解决:

修改gdbusmessage.c 2698行

```
    tupled_signature_str = g_strdup_printf ("(%s)", signature_str);
```

改为

```
if (signature_str)
    tupled_signature_str = g_strdup_printf ("%s", signature_str);
```

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问题:

make[8]: Entering directory '/opt/p2/openwrt/build_dir/target-arm_cortex-a7+neon_glibc-2.22_eabi/host/glib-2.50.3/gio/tests'

GEN gdbus-test-codegen-generated.h

Traceback (most recent call last):

File "../gio/gdbus-2.0/codegen/gdbus-codegen", line 37, in <module>

from codegen import codegen_main

File "/opt/p2/openwrt/build_dir/target-arm_cortex-a7+neon_glibc-2.22_eabi/host/glib-2.50.3/gio/gdbus-

2.0/codegen/codegen_main.py", line 28, in <module>

from . import parser

File "/opt/p2/openwrt/build_dir/target-arm_cortex-a7+neon_glibc-2.22_eabi/host/glib-2.50.3/gio/gdbus-2.0/codegen/parser.py", line

23, in <module>

import xml.parsers.expat

ImportError: No module named xml.parsers.expat

make[8]: *** [Makefile:4643: gdbus-test-codegen-generated.h] Error 1

解决:

系统中python安装defusedxml模块, 比如suse系统, 在YaST2中搜索并安装python2-defusedxml

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问题

make[4]: Entering directory '/opt/p2/openwrt/build_dir/target-arm_cortex-a7+neon_glibc-2.22_eabi/host/Python-2.7.13'

running build

running build_ext

building dbm using ndbm

INFO: Can't locate Tcl/Tk libs and/or headers

building '_curses' extension

gcc -pthread -fPIC -fno-strict-aliasing -O2 -I/opt/p2/openwrt/staging_dir/host/include -I/opt/p2/openwrt/staging_dir/host/usr/include

-I/opt/p2/openwrt/staging_dir/target-arm_cortex-a7+neon_glibc-2.22_eabi/host/include -DNEDEBUG -g -fwrapv -O3 -Wall -Wstrict-

prototypes -I. -IInclude -I./Include -I/opt/p2/openwrt/staging_dir/host/include -I/opt/p2/openwrt/staging_dir/target-arm_cortex-

a7+neon_glibc-2.22_eabi/host/include -I/usr/local/include -I/opt/p2/openwrt/build_dir/target-arm_cortex-a7+neon_glibc-

2.22_eabi/host/Python-2.7.13/Include -I/opt/p2/openwrt/build_dir/target-arm_cortex-a7+neon_glibc-2.22_eabi/host/Python-2.7.13 -c

/opt/p2/openwrt/build_dir/target-arm_cortex-a7+neon_glibc-2.22_eabi/host/Python-2.7.13/Modules/_cursesmodule.c -o

build/temp.linux-x86_64-2.7/opt/p2/openwrt/build_dir/target-arm_cortex-a7+neon_glibc-2.22_eabi/host/Python-

2.7.13/Modules/_cursesmodule.o

/opt/p2/openwrt/build_dir/target-arm_cortex-a7+neon_glibc-2.22_eabi/host/Python-2.7.13/Modules/_cursesmodule.c: In function

'PyCursesWindow_EchoChar':

/opt/p2/openwrt/build_dir/target-arm_cortex-a7+neon_glibc-2.22_eabi/host/Python-2.7.13/Modules/_cursesmodule.c:809:18: error:

dereferencing pointer to incomplete type 'WINDOW' {aka 'struct _win_st'}

809 | if (self->win->_flags & _ISPAD)

| ^~

/opt/p2/openwrt/build_dir/target-arm_cortex-a7+neon_glibc-2.22_eabi/host/Python-2.7.13/Modules/_cursesmodule.c: In function

'PyCurses_setupterm':

*** WARNING: renaming "_ctypes" since importing it failed: libffi.so.6: cannot open shared object file: No such file or directory

Python build finished, but the necessary bits to build these modules were not found:

_sqlite3 _tkinter bsddb185
dl imageop nis

解决:

安装tcl-devel, tk-devel, sqlite3-devel, libffi-devel, 注意必须要有libffi.so.6这个文件, 实在没有且有libffi.so.7的则可以ln -s libffi.so.7 libffi.so.6来做临时解决。

如果还是不行, 则试下安装readline-devel, bzip2-devel, openssl-devel, gdbm-devel, libdbi-devel, ncurses-libs, zlib-devel, libnsl-devel

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问题:

checking for refresh in -lncurses6... no

checking for refresh in -lncurses... no

checking for refresh in -lncurses6... (cached) no

checking for refresh in -lncurses... (cached) no

checking curses.h usability... yes

checking curses.h presence... yes

checking for curses.h... yes

configure: error: missing libraries: libncurses

make[3]: *** [Makefile:57: /opt/p2/openwrt/build_dir/target-arm_cortex-a7+neon_glibc-2.22_eabi/htop-2.0.2/.configured_yyyyyyyy]

Error

解决:

查看build_dir/target-arm_cortex-a7+neon_glibc-2.22_eabi/htop-2.0.2/config.log

configure:13075: checking for refresh in -lncurses

configure:13100: arm-openwrt-linux-gnueabi-gcc -o conftest -Os -pipe -march=armv7-a -mtune=cortex-a7 -mfpu=neon -fno-caller-saves -fno-plt -fhonour-copts -Wno-error=unused-but-set-variable -Wno-error=unused-result -mfloat-abi=hard -iremap

/opt/p2/openwrt/build_dir/target-arm_cortex-a7+neon_glibc-2.22_eabi/htop-2.0.2:htop-2.0.2 -Wformat -Werror=format-security -

D_FORTIFY_SOURCE=1 -Wl,-z,now -Wl,-z,relro -l/opt/p2/openwrt/staging_dir/target-arm_cortex-a7+neon_glibc-2.22_eabi/usr/include -

l/opt/p2/openwrt/staging_dir/target-arm_cortex-a7+neon_glibc-2.22_eabi/include -l/opt/p2/openwrt/staging_dir/toolchain-

arm_cortex-a7+neon_gcc-5.3.0_glibc-2.22_eabi/usr/include -l/opt/p2/openwrt/staging_dir/toolchain-arm_cortex-a7+neon_gcc-

5.3.0_glibc-2.22_eabi/include -L/usr/lib64/ncurses5 -Wl,-O2 -Wl,-Bsymbolic-functions -Wl,--as-needed -lncurses -ltinfo -

L/opt/p2/openwrt/staging_dir/target-arm_cortex-a7+neon_glibc-2.22_eabi/usr/lib -L/opt/p2/openwrt/staging_dir/target-arm_cortex-

a7+neon_glibc-2.22_eabi/lib -L/opt/p2/openwrt/staging_dir/toolchain-arm_cortex-a7+neon_gcc-5.3.0_glibc-2.22_eabi/usr/lib -

L/opt/p2/openwrt/staging_dir/toolchain-arm_cortex-a7+neon_gcc-5.3.0_glibc-2.22_eabi/lib -znov -zrelro conftest.c -lncurses -lm >&5

/lib64/libncurses.so.5: file not recognized: File format not recognized

collect2: error: ld returned 1 exit status

configure:13100: \$? = 1

关键这句 -L/usr/lib64/ncurse5, 加上/lib64/libncurses.so.5: file not recognized: File format not recognized, 可见是链接目录有问题, 交叉编译时却链接上pc中的库, 无法识别, 出错。

系统中安装了ncurses-devel ncurses5-devel, 这里删除掉ncurses5-devel, 问题解决。

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问题:

+ mkdosfs /opt/p2/openwrt/build_dir/target-arm_cortex-a7+neon_glibc-2.22_eabi/linux-leo_gx8009b-ssd-lc-v1/cfg.img -C 1024

./gen_leo_sdcard_img.sh: line 40: mkdosfs: command not found

解决:

系统安装dosfstools, 如果是suse系统, 又安装有dosfstools, 则是路径有问题(/usr/sbin/mkdosfs), 在/usr/bin/下创建软链接sudo ln -s /usr/sbin/mkdosfs /usr/bin/mkdosfs

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来源url

<https://blog.csdn.net/zmlovelx/article/details/104200565>

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