参考了网上文档以及国外一些问题的解决方法

**1.下载书上源码：**

http://www.apuebook.com

tar -zxvf src.3e.tar.gz

cd apue.3e/

sudo apt-get install libbsd-dev

sudo make

**2. 出现的问题 :**

cc -ansi -I../include -Wall -DLINUX -D\_GNU\_SOURCE devrdev.c -o devrdev -L../lib -lapue

devrdev.c: In function ‘main’:

devrdev.c:19:25: warning: implicit declaration of function ‘major’ [-Wimplicit-function-declaration]

19 | printf("dev = %d/%d", major(buf.st\_dev), minor(buf.st\_dev));

| ^~~~~

devrdev.c:19:45: warning: implicit declaration of function ‘minor’ [-Wimplicit-function-declaration]

19 | printf("dev = %d/%d", major(buf.st\_dev), minor(buf.st\_dev));

| ^~~~~

/usr/bin/ld: /tmp/ccftLgS4.o: in function `main':

devrdev.c:(.text+0xc5): undefined reference to `minor'

/usr/bin/ld: devrdev.c:(.text+0xdb): undefined reference to `major'

/usr/bin/ld: devrdev.c:(.text+0x128): undefined reference to `minor'

/usr/bin/ld: devrdev.c:(.text+0x13e): undefined reference to `major'

collect2: error: ld returned 1 exit status

make[1]: \*\*\* [Makefile:18: devrdev] Error 1

make[1]: Leaving directory '/home/eric/Downloads/apue.3e/filedir'

make: \*\*\* [Makefile:6: all] Error 1

解决方法：

编辑 Makefile

去掉 filedir

**再次出现问题：**

buf.c:104:13: note: in expansion of macro ‘\_flag’

return(fp->\_flag & \_IOLBF);

^~~~~

buf.c: In function ‘buffer\_size’:

buf.c:92:15: error: ‘FILE’ {aka ‘struct \_IO\_FILE’} has no member named ‘\_\_pad’; did you mean ‘\_\_pad5’?

#define \_base \_\_pad[2]

^~~~~

buf.c:111:13: note: in expansion of macro ‘\_base’

return(fp->\_base - fp->\_ptr);

^~~~~

buf.c:91:14: error: ‘FILE’ {aka ‘struct \_IO\_FILE’} has no member named ‘\_\_pad’; did you mean ‘\_\_pad5’?

#define \_ptr \_\_pad[1]

^~~~~

buf.c:111:25: note: in expansion of macro ‘\_ptr’

return(fp->\_base - fp->\_ptr);

^~~~

buf.c: In function ‘is\_unbuffered’:

buf.c:99:1: warning: control reaches end of non-void function [-Wreturn-type]

}

^

buf.c: In function ‘is\_linebuffered’:

buf.c:105:1: warning: control reaches end of non-void function [-Wreturn-type]

}

^

buf.c: In function ‘buffer\_size’:

buf.c:115:1: warning: control reaches end of non-void function [-Wreturn-type]

}

解决方法：  
修改 ./stdio/buf.c 文件  
修改最后一个函数

#ifdef \_LP64

#define \_flags \_\_pad[4]

#define \_ptr \_\_pad[1]

#define \_base \_\_pad[2]

#endif

int

is\_unbuffered(FILE \*fp)

{

return(fp->\_flags & \_IONBF);

}

int

is\_linebuffered(FILE \*fp)

{

return(fp->\_flags & \_IOLBF);

}

int

buffer\_size(FILE \*fp)

{

#ifdef \_LP64

return(fp->\_IO\_buf\_end - fp->\_IO\_buf\_base);

#else

return(BUFSIZ); /\* just a guess \*/

#endif

}

解决方法：

注释调前五行后，

将return(fp->\_flag & \_IONBF); 修改为 return(fp->\_flags & \_IONBF);

return(fp->\_base - fp->\_ptr); 修改为 return(fp->\_IO\_buf\_end - fp->\_IO\_buf\_base);

**3.复制 libapue.a 这个静态链接库到/usr/lib 下**

sudo cp include/apue.h /usr/include/

sudo cp lib/error.c /usr/include/

sudo cp lib/libapue.a /usr/lib

若出现err\_sys等函数在编译时找不到的问题：  
添加这行代码到 /include/apue.h 文件里：

在最后一行 #endif 前面添加一行 #include “error.c”

配置完成！

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