

libpibox - Bug #525

Build fails on CentOS due to missing m4 directory and AM_PROG_AR

15 Jun 2016 11:07 - Hammel

Status:	In Progress	Start date:	15 Jun 2016
Priority:	Normal	Due date:	
Assignee:	Hammel	% Done:	50%
Category:		Estimated time:	0.00 hour
Target version:	0.12.0		
Severity:	03 - Medium		
Description			
<p>The m4 directory just needs to exist. Not sure if git will show it if the directory doesn't contain something, which means I may need to check in the files generated in m4 by autoconf.</p> <p>The AM_PROG_AR variable is not in the version of automake on CentOS 6.x. The fix may be to use an m4 ifdef</p>			

Associated revisions

Revision f7ccb09a - 15 Jun 2016 21:31 - Hammel

RM #525: Remove unused AM_PROG_AR from configure.ac that was causing problems on CentOS 6.x.

Fix cross.sh to work correctly with sysroot.

Add m4 directory because build fails without it on CentOS 6.x.

Revision 77ce0be2 - 15 Jun 2016 21:42 - Hammel

RM #525: Don't remove m4 directory on distclean.

Revision 28d93606 - 16 Jun 2016 10:02 - Hammel

RM #525: Fix cross compilation for both Fedora and CentOS 6.7.

Revision 25bdaa57 - 16 Jun 2016 10:15 - Hammel

RM #525: Another cross fix - Fedora doesn't support --sysroot correctly for linking, apparently, but CentOS does.

History

#1 - 15 Jun 2016 11:18 - Hammel

Fixing these gets passed these errors, but then I get this:

```
libtool: link: arm-unknown-linux-gnueabi-gcc -shared .libs/libpibox_la-pibox.o .libs/libpibox_la-log.o .libs/libpibox_la-utils.o .libs/libpibox_la-rpi.o
.libs/libpibox_la-parson.o .libs/libpibox_la-pmsg.o -L/home/mjhammel/src/ximba/raspberrypi2/bld/buildroot-2015.02/output/staging/usr/lib
-L/home/mjhammel/src/ximba/raspberrypi2/bld/buildroot-2015.02/output/staging/lib
-L/home/mjhammel/src/ximba/raspberrypi2/bld/buildroot-2015.02/output/staging/arm-unknown-linux-gnueabi/sysroot/ -Wl,-soname
-Wl,libpibox.so.0 -o .libs/libpibox.so.0.0.11
/opt/rpiTC/bin/./lib/gcc/arm-unknown-linux-gnueabi/4.8.5/../../../../arm-unknown-linux-gnueabi/bin/ld: skipping incompatible /lib/libc.so.6 when
searching for /lib/libc.so.6
```

```
/opt/rpiTC/bin/../lib/gcc/arm-unknown-linux-gnueabi/4.8.5/../../../../arm-unknown-linux-gnueabi/bin/ld: cannot find /lib/libc.so.6
/opt/rpiTC/bin/../lib/gcc/arm-unknown-linux-gnueabi/4.8.5/../../../../arm-unknown-linux-gnueabi/bin/ld: skipping incompatible
/usr/lib/libc_nonshared.a when searching for /usr/lib/libc_nonshared.a
/opt/rpiTC/bin/../lib/gcc/arm-unknown-linux-gnueabi/4.8.5/../../../../arm-unknown-linux-gnueabi/bin/ld: cannot find /usr/lib/libc_nonshared.a
/opt/rpiTC/bin/../lib/gcc/arm-unknown-linux-gnueabi/4.8.5/../../../../arm-unknown-linux-gnueabi/bin/ld: cannot find /lib/ld-linux-armhf.so.3
collect2: error: ld returned 1 exit status
make[1]: *** [libpibox.la] Error 1
make[1]: Leaving directory `/home/mjhammel/src/ximba/libpibox/src/src'
make: *** [install-recursive] Error 1
```

It's looking in the wrong location for these libs. I don't know why. I need to verify the cross.sh works for libpibox on Fedora. I'm pretty sure it does. Which makes this error very suspicious.

#2 - 16 Jun 2016 10:22 - Hammel

- Status changed from New to In Progress
- Assignee set to Hammel
- Target version set to 0.11.0
- % Done changed from 0 to 40

First, libpibox failed due to problems with a missing m4 directory and the referent to AM_PROG_AR. To test fixes I needed to use cross.sh, but this was broken too. The latter took longer to fix than the former but I finally found a common solution for libpibox that works on both CentOS and Fedora (ubuntu be damned - I didn't test there).

Then the same problem arose for pnc (pibox-network-config). The same fixes for the former were applied and to cross.sh. But in this case the cross doesn't work correctly on Fedora. So I have to test for which platform I'm on and set the LDFLAGS slightly differently on the two platforms. But now that fix is in and the rootfs build re-run. Waiting to see if we get further this time...

#3 - 10 Jul 2016 22:07 - Hammel

- % Done changed from 40 to 50

The fedora build completed, including the meta build for packages. This worked on an RPi 2.

All package updates are checked in. All RPi 2 specific changes are committed and pushed to the mjhammel/rpi2 branch.

Currently updating that branch with fixes required for RPi 2 to fully run on hardware. Then those will be tested on CentOS.

#4 - 18 Sep 2016 17:45 - Hammel

The core and all apps build on CentOS now, except for omxplayer. It fails and I don't know why yet.

#5 - 25 Sep 2016 10:33 - Hammel

- Target version changed from 0.11.0 to 0.12.0