

## libretools - Bug #1938

### Unable to create a librechroot for armv7h in latest (20180804-2) libretools and other issues

2018-08-06 10:05 PM - freemor

<b>Status:</b> not-a-bug	<b>% Done:</b> 0%
<b>Priority:</b> bug	
<b>Assignee:</b>	
<b>Category:</b>	
<b>Description</b> Followed all the steps on the wiki several times over Only step on the wiki That I was unable to reproduce was starting the systemd-binfmt.service (says it doesnt exist) Yet: /usr/lib/systemd/systemd-binfmt exists so where is the .service file and /usr/lib/systemd/system/sysinit.target.wants/systemd-binfmt.service so that should mean a running binfmt correct? and all the qemu static bits are in /proc/sys/fs/binfmt_misc/ Have imported and done signing for The archlinuxarm keyring  x86_64 and i686 chroots work nicely  I did a fresh install of my system today to get back to a pure systemd system and make sure there were not any remaining systemd/operc conflicts  I've spent the whole day on this and can not figure out what the underlying issue is. Had armv7h working nicely under previous libretools/openrc.	

#### History

##### #1 - 2018-08-07 12:17 PM - freemor

libretools 20180806-1 behaves in the same way.

##### #2 - 2018-08-07 07:18 PM - freemor

- Subject changed from *Unable to create a librechroot for armv7h in latest (20180804-2) libretools* to *Unable to create a librechroot for armv7h in latest (20180804-2) libretools and other issues*

Expanding this to cover other issues.

most recent one:

```
( 9/11) Arming ConditionNeedsUpdate...
(10/11) Updating the info directory file...
(11/11) Rebuilding certificate stores...
Failed to attach 16345 to compat systemd cgroup /user.slice/user-1000.slice/session-c1.scope/payload: No such
file or directory
Failed to attach 14180 to compat systemd cgroup /user.slice/user-1000.slice/session-c1.scope/supervisor: No su
ch file or directory
Failed to chown() cgroup /sys/fs/cgroup/systemd/user.slice/user-1000.slice/session-c1.scope/payload: No such f
ile or directory
```

when trying to make a standard x86\_64 chroot

Other Observed weirdness:

Build in default x86\_64 chroot -> fine -> saves X86\_64.pkg.

Build again in i686 chroot -> builds fine -> saves to x86\_64.pkg erasing the properly made one with a 32bit binary in a x86\_64 package

I'll see if a reboot clears the cgroup errors and report back

Rebooting did indeed clear the cgroup issue.

Did a build with the only existing librechroot being one created with:

```
sudo librechroot -A i686 -M /etc/makepkg.conf -n i686 make
```

and it ended with:

```
==> Starting post-build activities...
| ==> Extracting database to a temporary location...
| ==> Adding package 'hexchat-1:2.14.1-5.parabolal-x86_64.pkg.tar.xz'
|   -> Computing checksums...
|   -> Creating 'desc' db entry...
|   -> Creating 'files' db entry...
| ==> Creating updated database file 'repo.db.tar.gz'
| ==> Extracting database to a temporary location...
| ==> Extracting database to a temporary location...
| ==> Adding package 'hexchat-debug-1:2.14.1-5.parabolal-x86_64.pkg.tar.xz'
|   -> Computing checksums...
|   -> Creating 'desc' db entry...
|   -> Creating 'files' db entry...
| ==> Creating updated database file 'repo.db.tar.gz'
==> Copying log and package files out of the chroot...
```

scp'ing the above: hexchat-1:2.14.1-5.parabolal-x86\_64.pkg.tar.xz over to my i686 machine and installing with:

```
pacman --arch x86_64 -U hexchat-1:2.14.1-5.parabolal-x86_64.pkg.tar.xz
```

Results in a working install of 32bit binaries. So binaries are indeed cross compiled just identified incorrectly.

### #3 - 2018-08-07 09:05 PM - lukeshu

I think the ARM chroot Failure.txt is fine--I think it exited with 0 and created a functioning chroot. I think it's just a variant of <https://bugs.archlinux.org/task/49347>. Have you verified that the chroot it makes is non-functioning?

Is this:

```
Failed to attach 16345 to compat systemd cgroup /user.slice/user-1000.slice/session-c1.scope/payload: No such file or directory
Failed to attach 14180 to compat systemd cgroup /user.slice/user-1000.slice/session-c1.scope/supervisor: No such file or directory
Failed to chown() cgroup /sys/fs/cgroup/systemd/user.slice/user-1000.slice/session-c1.scope/payload: No such file or directory
```

with systemd or notsystemd?

### #4 - 2018-08-07 09:12 PM - lukeshu

```
sudo librechroot -A i686 -M /etc/makepkg.conf -n i686 make
```

I assume that your /etc/makepkg.conf says CARCH=x86\_64, which overrides the -A i686, at least as far as the inner makepkg is concerned.

I should probably make it an error to set -M or -C twice (-A sets -M and -C internally).

### #5 - 2018-08-07 09:21 PM - freemor

Cgroup stuff is with systemd. As noted way way up at the top I'm on a clean systemd install.

You are correct about the CARCH=x86\_64 in the makepkg.conf. It the same makepkg.conf that I was using before without issue. Should I comment the out or make separate makepkg.conf's for each ARCH?

I'm pretty sure that the armv7h chroot dies miserably if I try to build in it. I'll double check and post the results.

### #6 - 2018-08-07 09:27 PM - lukeshu

You should make a separate makepkg.conf for each arch. Why are the /usr/share/pacman/defaults/makepkg.conf.\* files not satisfactory? (they are what -A use)

### #7 - 2018-08-07 09:39 PM - freemor

Looks like you may have spotted the entire cause of the weirdness with the -A vs CARCH issue.

I made a makepkg.conf with CARCH commented out and tried to create a chroot with:

```
sudo librechroot -A armv7h -M makepkg_noArch.conf -n arm make
```

It instantly bitched about no CARCH being set (ls -A being totally ignored?)

Then I made the makepkg.conf with an armv7h CARCH and everything is going smooth as silk.

Will try the same with i686 but an expecting good things.

### #8 - 2018-08-07 09:43 PM - lukeshu

```
$ librechroot help
```

```
...
```

```
The -A CARCH flag is *almost* simply an alias for
```

```
-C "/usr/share/pacman/defaults/pacman.conf.$CARCH" \
```

```
-M "/usr/share/pacman/defaults/makepkg.conf.$CARCH"
```

```
However, before doing that, it actually makes a temporary copy of  
`pacman.conf`, and sets the `Architecture` line to match the `CARCH`  
line in `makepkg.conf`.
```

```
...
```

If you set `-M` after `-A`, it totally ignores `-A` with regard to `makepkg.conf`.

Put another way, with regard to `makepkg.conf`, `-A i686` is exactly `-M /usr/share/pacman/defaults/makepkg.conf.i686`, so `-A i686 -M /etc/makepkg.conf` is exactly `-M /usr/share/pacman/defaults/makepkg.conf.i686 -M /etc/makepkg.conf`, and the latter `-M` takes precedence, so it's just `-M /etc/makepkg.conf`.

Now, I said "with regard to `makepkg.conf`". The `-A i686` will still effectively set `-C <(sed -r "s|^#?\s*Architecture.+|Architecture = i686|g" </usr/share/pacman/defaults/pacman.conf.i686)` (in real use `-C` would not correctly handle being passed a pipe instead of a plain file, but it gets the point across here).

#### **#9 - 2018-08-15 07:19 PM - ovruni**

- *Project changed from Packages to libretools*

#### **#10 - 2018-08-15 11:45 PM - lukeshu**

- *Status changed from open to not-a-bug*

I think everything works?

Closing, reopen if I'm wrong.

### **Files**

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ARM chroot Failure.txt	63.5 KB	2018-08-06	freemor
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