

PiBox - Action Item #572

Update all components and make 1.0 release.

14 Jul 2017 19:15 - Hammel

Status:	Closed	Start date:	14 Jul 2017
Priority:	Immediate	Due date:	
Assignee:	Hammel	% Done:	100%
Category:	00 - Basic Build Issues	Estimated time:	0.00 hour
Target version:	1.0 - Atreides		
Severity:	01 - Critical		
Description			
1. xcc to 1.23.0 2. Buildroot to 2017.02.4 3. Kernel to 4.9.y - 4.12.y			
This will be the 1.0 release candidate for the core platform.			

Associated revisions

Revision f04d0a21 - 14 Jul 2017 19:09 - Hammel

RM #572: Bump version to 1.0. Add toolchain config for Crosstool-NG 1.23.0.

Revision a9c49589 - 15 Jul 2017 08:22 - Hammel

RM #572: Add dummy config for 4.9.y.

Revision 6886952e - 18 Jul 2017 18:08 - Hammel

RM #572: Switch to proper compiler options for gles compiles on RPi2 hardware.

Revision c447d553 - 18 Jul 2017 18:09 - Hammel

RM #572: updated build help reference to KB env var. It's used to reference a GIT tag.

Revision 9a25f5a7 - 18 Jul 2017 18:13 - Hammel

RM #572: Add missing colon suffix to ftp entry in skeleton group file.

Revision 770d58a4 - 18 Jul 2017 18:15 - Hammel

RM #572: Fix problems introduced by support for Raspberry Pi Touchscreen to core platform UI boot.

Revision a48c07b0 - 18 Jul 2017 18:16 - Hammel

RM #572: Add support for Buildroot 2017.02.4 release, which required switch to OpenBox WM.

Revision 71400ecb - 18 Jul 2017 18:48 - Hammel

RM #572: Fix UI to run in windowed (with menu) mode if -e is not used.

Revision 71400ecb - 18 Jul 2017 18:48 - Hammel

RM #572: Fix UI to run in windowed (with menu) mode if -e is not used.

Revision 296d2d5e - 18 Jul 2017 18:49 - Hammel

RM #572: Fix pkg-config to properly use staging tree as sysroot when running configure. Add paths to glibconfig.h and gtkconfig.h to CFLAGS because Buildroot's 2017.02.4 .pc files improperly say these are under a lib64 tree instead of a lib tree.

Revision 296d2d5e - 18 Jul 2017 18:49 - Hammel

RM #572: Fix pkg-config to properly use staging tree as sysroot when running configure. Add paths to glibconfig.h and gtkconfig.h to CFLAGS because Buildroot's 2017.02.4 .pc files improperly say these are under a lib64 tree instead of a lib tree.

Revision c17a87e6 - 19 Jul 2017 14:51 - Hammel

RM #572: Fix pkg-config to properly use staging tree as sysroot when running configure. Add paths to glibconfig.h and gtkconfig.h to CFLAGS because Buildroot's 2017.02.4 .pc files improperly say these are under a lib64 tree instead of a lib tree.

Revision 3bb10f75 - 19 Jul 2017 14:53 - Hammel

RM #572: Fix pkg-config to properly use staging tree as sysroot when running configure. Add paths to glibconfig.h and gtkconfig.h to CFLAGS because Buildroot's 2017.02.4 .pc files improperly say these are under a lib64 tree instead of a lib tree.

Revision f5252e80 - 19 Jul 2017 16:05 - Hammel

RM #572: Fix pkg-config to properly use staging tree as sysroot when running configure. Add paths to glibconfig.h and gtkconfig.h to CFLAGS because Buildroot's 2017.02.4 .pc files improperly say these are under a lib64 tree instead of a lib tree.

Revision b38564d1 - 19 Jul 2017 16:07 - Hammel

RM #572: Fix pkg-config to properly use staging tree as sysroot when running configure. Add paths to glibconfig.h and gtkconfig.h to CFLAGS because Buildroot's 2017.02.4 .pc files improperly say these are under a lib64 tree instead of a lib tree.

Revision b38564d1 - 19 Jul 2017 16:07 - Hammel

RM #572: Fix pkg-config to properly use staging tree as sysroot when running configure. Add paths to glibconfig.h and gtkconfig.h to CFLAGS because Buildroot's 2017.02.4 .pc files improperly say these are under a lib64 tree instead of a lib tree.

Revision ab4c21e4 - 19 Jul 2017 16:30 - Hammel

RM #572: psplash failed to compile with updated Linaro compiler toolchain because of the use of an inline specification to a function in psplash-fb.c. Removing that inline specification fixes the compile time problem and, I think, should not hurt the splash display since it won't be used for fast screen updates.

Revision ab4c21e4 - 19 Jul 2017 16:30 - Hammel

RM #572: psplash failed to compile with updated Linaro compiler toolchain because of the use of an inline specification to a function in psplash-fb.c. Removing that inline specification fixes the compile time problem and, I think, should not hurt the splash display since it won't be used for fast screen updates.

Revision 8886d8a8 - 19 Jul 2017 16:35 - Hammel

RM #572: Fix pkg-config to properly use staging tree as sysroot when running configure. Add paths to glibconfig.h and gtkconfig.h to CFLAGS because Buildroot's 2017.02.4 .pc files improperly say these are under a lib64 tree instead of a lib tree.

Revision 99d87d2f - 19 Jul 2017 16:36 - Hammel

RM #572: Fix pkg-config to properly use staging tree as sysroot when running configure. Add paths to glibconfig.h and gtkconfig.h to CFLAGS because Buildroot's 2017.02.4 .pc files improperly say these are under a lib64 tree instead of a lib tree.

Revision 3f0becbb - 19 Jul 2017 16:38 - Hammel

RM #572: Fix pkg-config to properly use staging tree as sysroot when running configure. Add paths to glibconfig.h and gtkconfig.h to CFLAGS because Buildroot's 2017.02.4 .pc files improperly say these are under a lib64 tree instead of a lib tree.

Revision 3f0becbb - 19 Jul 2017 16:38 - Hammel

RM #572: Fix pkg-config to properly use staging tree as sysroot when running configure. Add paths to glibconfig.h and gtkconfig.h to CFLAGS because Buildroot's 2017.02.4 .pc files improperly say these are under a lib64 tree instead of a lib tree.

Revision 5732d821 - 19 Jul 2017 20:20 - Hammel

RM #572: Tie the package version to the version.txt file to make it easier to update the version string automatically with the metabuild.

Revision 0ada75c0 - 19 Jul 2017 20:24 - Hammel

RM #572: Tie the package version to the version.txt file to make it easier to update the version string automatically with the metabuild.

Revision fd146ace - 19 Jul 2017 20:26 - Hammel

RM #572: Tie the package version to the version.txt file to make it easier to update the version string automatically with the metabuild.

Revision 7a994687 - 19 Jul 2017 20:34 - Hammel

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Revision 7a994687 - 19 Jul 2017 20:34 - Hammel

RM #572: Tie the package version to the version.txt file to make it easier to update the version string automatically with the metabuild.

Revision 20892c39 - 19 Jul 2017 20:39 - Hammel

RM #572: Tie the package version to the version.txt file to make it easier to update the version string automatically with the metabuild.

Revision a637b01a - 19 Jul 2017 20:41 - Hammel

RM #572: Tie the package version to the version.txt file to make it easier to update the version string automatically with the metabuild.

Revision eab5d789 - 19 Jul 2017 21:16 - Hammel

RM #572: Tie the package version to the version.txt file to make it easier to update the version string automatically with the metabuild.

Revision b2369582 - 19 Jul 2017 21:47 - Hammel

RM #572: Tie the package version to the version.txt file to make it easier to update the version string automatically with the metabuild.

Revision 95a2007c - 19 Jul 2017 21:50 - Hammel

RM #572: Tie the package version to the version.txt file to make it easier to update the version string automatically with the metabuild.

Revision 7fd25f41 - 19 Jul 2017 21:51 - Hammel

RM #572: Tie the package version to the version.txt file to make it easier to update the version string automatically with the metabuild.

Revision 6b4b71ce - 19 Jul 2017 21:54 - Hammel

RM #572: Tie the package version to the version.txt file to make it easier to update the version string automatically with the metabuild.

Revision 6b4b71ce - 19 Jul 2017 21:54 - Hammel

RM #572: Tie the package version to the version.txt file to make it easier to update the version string automatically with the metabuild.

Revision e3adb9c1 - 20 Jul 2017 11:27 - Hammel

RM #572: Add missing fixup.sh to packaging build.

Revision e3adb9c1 - 20 Jul 2017 11:27 - Hammel

RM #572: Add missing fixup.sh to packaging build.

Revision 92ed080e - 20 Jul 2017 11:28 - Hammel

RM #572: Add tgz package for videolib (along with RPM).

Revision 92ed080e - 20 Jul 2017 11:28 - Hammel

RM #572: Add tgz package for videolib (along with RPM).

Revision 071a4719 - 20 Jul 2017 13:45 - Hammel

RM #572: Change default omxplayer command to call the bin instead of the shell script because the shell script requires bash.

Revision e18ed2f0 - 21 Jul 2017 09:57 - Hammel

RM #572: Bump the default version of Crosstool-NG to 1.23.0, Kernel to 4.9.y and Buildroot to 2017.02.4 for rpi2.

Revision e0eb02d5 - 22 Jul 2017 13:58 - Hammel

RM #572: Update build for RPI 1 (B+) boards.

History

#1 - 15 Jul 2017 09:02 - Hammel

- Status changed from New to In Progress
- % Done changed from 0 to 50

xcc and kernel were easy updates, though the kernel has been tested on hardware.

Buildroot issues that need to be resolved:

1. ipkg has been replaced by opkg. This shouldn't affect any apps as they already used opkg.
2. samba has been replaced by samba4. Not sure what this change will require to configs.
3. blackbox has been removed. That requires a new default wm in the core platform. Matchbox is already there but isn't appropriate for the core platform.
 1. Try OpenBox (only option that still seems active) with Onyx Citrus theme,

#2 - 18 Jul 2017 15:31 - Hammel

- % Done changed from 50 to 70

Port to latest versions of upstream metabuilds has been done and tested. I had to fix a number of minor problems introduced when I added support for the RPi Touchscreen in kiosk mode.

There is one problem the port exposed: pibox-network-config starts in -e mode by default. It should not do that. It should start in windowed mode (not full screen) with a File menu. It's unclear to me if it should show the wifi scan window or not (probably not).

#3 - 18 Jul 2017 16:47 - Hammel

Pkgconfig changed with Fedora 24 (at least) where the app cross compiles with cross.sh no longer work. The fix is simple enough. Just change this:

```
PATH=$TOOLCHAIN/bin:$PATH \  
CFLAGS="--sysroot=$STAGING_DIR" \  
LDFLAGS="$LDFLAGSVAL" \  
./configure --host=arm-unknown-linux-gnueabi --prefix=/usr
```

to this

```
PKG_CONFIG_SYSROOT_DIR=$STAGING_DIR \  
PATH=$TOOLCHAIN/bin:$PATH \  
CFLAGS="--sysroot=$STAGING_DIR" \  
LDFLAGS="$LDFLAGSVAL" \  
./configure --host=arm-unknown-linux-gnueabi --prefix=/usr
```

The PKG_CONFIG_SYSROOT_DIR variable now changes the prefix path for all .pc files so they are properly rooted by the sysroot directory specified.

Of course this exposed a bug in the Buildroot 2017.02.4 release where the glib-2.0 config puts glibconfig under

```
-/home/mjhammel/src/ximba/raspberrypi/bld/buildroot-2017.02.4/output/staging/usr/lib64/glib-2.0/include
```

when it should be under

```
-/home/mjhammel/src/ximba/raspberrypi/bld/buildroot-2017.02.4/output/staging/usr/lib/glib-2.0/include
```

re: it should be *lib* instead of *lib64*.

#4 - 20 Jul 2017 15:25 - Hammel

The rpi2 port has been completed and tested and the apps tested, with minor fixes applied. All apps needed the cross.sh fix and omxplayer needed it's default player config to use omxplayer.bin instead of the omxplayer shell script which now requires bash.

All changes were pushed and the binaries/packages pushed upstream for a release. I then tagged all the trees using the metabuild's build.sh -t option. However, after doing that I realized I hadn't changed the default versions for xcc, kernel and buildroot to the new versions. So I've done that now and am rebuilding to make sure that came out correct. I'll then rebuild the apps and retest everything. If that's good I can retag the core dev build and the rpi2 1.0 release will be ready.

Then I need to rebuild for rpi B+ and retest again.

#5 - 22 Jul 2017 14:06 - Hammel

- *Subject changed from Update all components to Update all components and make 1.0 release.*

- *% Done changed from 70 to 100*

B+ (re: HW=rpi) build completed and has been tested, with apps, on hardware.

All changes committed and pushed. All trees are tagged. All builds and related files (archives, etc.) have been pushed to the release directory.

The 1.0 release of PiBox is officially out there.

Closing issue.

#6 - 22 Jul 2017 14:06 - Hammel

- *Status changed from In Progress to Closed*