

PTXdist-2 Application Note

Migrating PTXdist-1 projects

This application note describes the project's migration process from a previous PTXdist-1.o.x to the new upcoming PTXdist-2.x.x.



Migration between Major Releases

Basic Conversion

To migrate an existing PTXdist-1 project to the new PTXdist-2 the following steps are to be done:

To convert a PTXdist-1 project into a PTXdist-2 project simply copy your old `ptxconfig` file into the files `selected_ptxconfig` and `selected_platform`.

After that, run

```
~/my_bsp# ptxdist --force platformconfig
```

to configure the platform specific part and check if everything is set up correctly and save these settings. All in the platform unused symbols will now be discarded and the remaining required symbols and their values are saved to the `selected_platform` file.

Repeat the same step with

```
~/my_bsp# ptxdist --force menuconfig
```

In this case all for userland configuration unused symbols are discarded from the original `ptxconfig` file settings and the remaining are saved to the `selected_ptxconfig` file. Check carefully if everything is set up correctly¹

Now you have successfully separated *platform* and *userland* configuration. This is the main configuration ptxdist-2 uses in a single platform project.

Adaption of Rules Files

A few adaptations in the project local rules files are required, to also migrate them to the new PTXdist infrastructure.

Variables

The names of a few variables have changed.

- `PTXCONF_HOST_PREFIX` must be replaced by `PTXCONF_SYSROOT_HOST`

Local Source Handling

To retain the old behaviour of ptxdist-1 in handling local sources simply keep the `<packetname>_SOURCE` variable empty in the corresponding local source rule file.

PTXdist-1 Look and Feel

To keep the PTXdist-1 feeling use the following rules:

- Omit the *platform name* (e.g. keep this menu entry empty) when running `ptxdist platformconfig`
- Open the `selected_platformconfig` file with an editor and search for `SYSROOT_TARGET`, `SYSROOT_HOST` and `SYSROOT_CROSS`. Replace their default settings with:

¹At least if you are using Busybox as your shell environment you must check carefully if all settings in the previous Busybox version are still present. Each version of Busybox changes various used symbolnames, so it could happen that some settings are lost during the transition.

- For *SYSROOT_TARGET*: `$PTXDIST_WORKSPACE/local/$PTXCONF_ARCH_STRING`
- For *SYSROOT_HOST*: `$PTXDIST_WORKSPACE/local-host`
- For *SYSROOT_CROSS*: `$PTXDIST_WORKSPACE/local-cross`

With these settings you get the same directory structure in a `ptxdist-2` project as in `ptxdist-1`.

Additional questions?

Below is a list of locations where you can get help in case of trouble. For questions how to do something special with PTXdist or general questions about Linux in the embedded world, try these.

Mailing Lists

About PTXdist in particular

This is an English language public mailing list for questions about PTXdist. See

http://www.pengutronix.de/maillinglists/index_en.html

how to subscribe to this list. If you want to search through the mailing list archive, visit

<http://www.mail-archive.com/>

and search for the list *ptxdist*.

About embedded Linux in general

This is a German language public mailing list for general questions about Linux in embedded environments. See

http://www.pengutronix.de/maillinglists/index_de.html

how to subscribe to this list. Note: You also can send mails in English.

News Groups

About Linux in embedded environments

This is an English newsgroup for general questions about Linux in embedded environments.

comp.os.linux.embedded

About general Unix/Linux questions

This is a German newsgroup for general questions about Unix/Linux programming.

de.comp.os.unix.programming

Chat/IRC

About PTXdist in particular

irc.freenode.net:6667

Create a connection to the **irc.freenode.net:6667** server and enter the chatroom **#ptxdist**. This is an English room to answer questions about PTXdist. Best time to meet somebody there is at European daytime.

Miscellaneous

Online Linux Kernel Cross Reference

A powerful online cross reference.

<http://lxr.linux.no/>

U-Boot manual (partially)

Manual how to survive in an embedded environment and how to use the U-Boot on target's side

<http://www.denx.de/wiki/DULG>

Commercial Support

You can order immediate support through customer specific mailing lists, by telephone or also on site. Ask our sales representative for a price quotation for your special requirements.

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