

meta-debian

Extension to build Debian-based embedded system



What is meta-debian?

meta-debian is a set of recipes (metadata) for the poky build system, which allows cross-building Linux images using Debian source packages. By enabling meta-debian, poky fetches required sources from Debian source repository and LTSI kernel repository. meta-debian is independent of OpenEmbedded-core recipes, so OE-Core recipes are still available after meta-debian is enabled. meta-debian is mainly intended to be used for embedded products which needs long-term support.

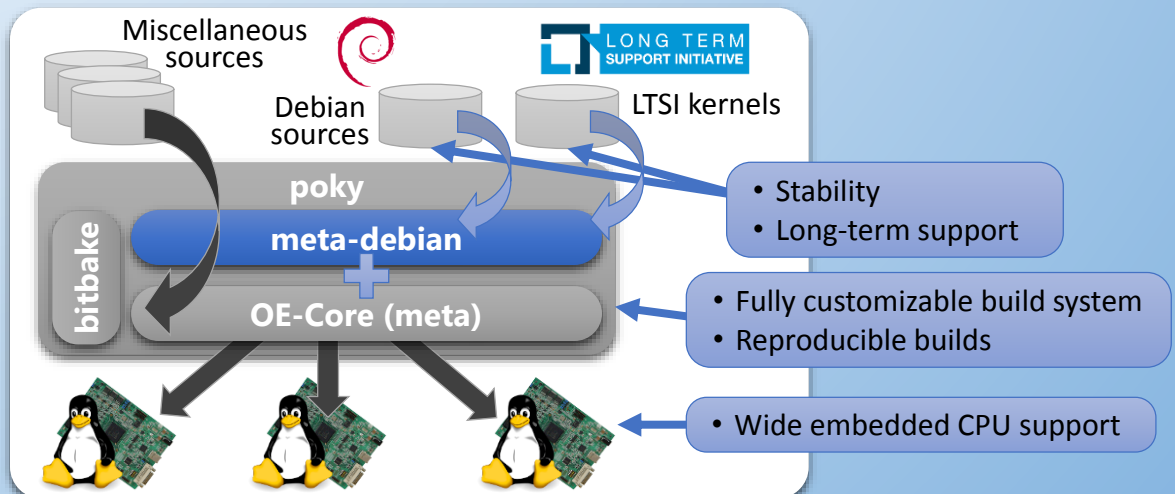
Purpose

The purpose is to provide the following things

- Stability and long-term support
- Wide embedded CPU support
- Fully customizable embedded Linux

Development policies

meta-debian recipes follow Debian's build rules by default, but sometimes customize them for embedded systems if necessary (e.g. remove dependencies). Also they re-use essential patches from OE-Core to support cross-building.



Quick start

Setup build tools

```
$ git clone git://git.yoctoproject.org/poky.git
$ cd poky
$ git checkout daisy
$ git clone ¥
  https://github.com/meta-debian/meta-debian.git
$ cd meta-debian
$ git checkout daisy
```

Build tiny Linux image

```
$ export TEMPLATECONF=meta-debian/conf
$ source /path/to/poky/oe-init-build-env
$ bitbake core-image-minimal
```

Run tiny Linux image on QEMU

```
$ runqemu qemux86 nographic ¥
  bootparams="init=/init root=/dev/sda"
```

See README in meta-debian for more details.

Current state and future goals

	Current	Future (stable)
poky version	1.6 daisy	(the latest)
Debian version	8.0 jessie	8.0 jessie
Kernel	LTSI	LTSI, RT
Architectures	x86, ARM, PowerPC	x86, ARM, PowerPC
BSPs	4 (QEMU)	over 10
Packages	80	over 200

Contact us

Please send us your feedback. We would like to know about the embedded Linux features that you need and reflect them into our framework.

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