

OpenWrt Development Guide

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Overview of OpenWrt BuildRoot Environment

OpenWrt Buildroot environment is a collection of Makefiles, patches and scripts, which generates the cross-compilation toolchain, downloads Linux kernel, generates a root file system, manages 3rd party packages, etc. The cross-compilation toolchain uses uClibc. With OpenWrt Buildroot, developers can compile the custom firmware image for supported hardware / architectures. Please NOTE that in the OpenWrt Buildroot source tree, there is no Linux kernel or any source code tarballs of the 3rd party packages. The collection of Makefiles determines the version of Linux kernel to download, and the version of the package tarball to download and compiled in to the image. Figure 1 shows the structure of the OpenWrt Buildroot source tree.

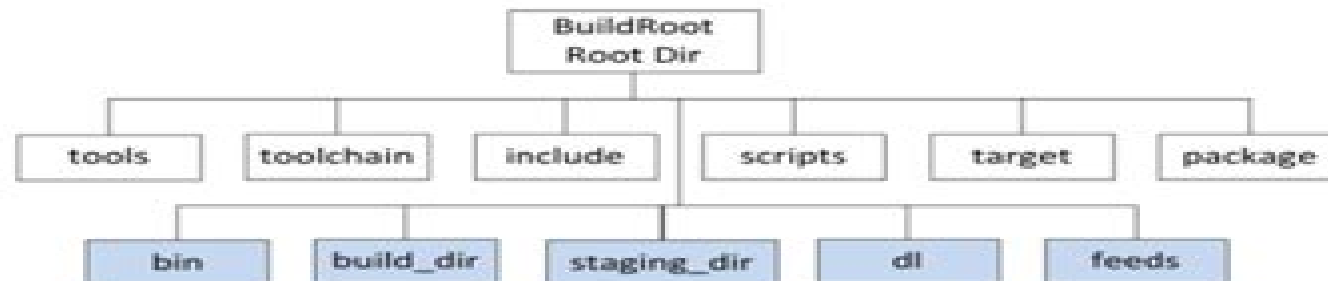


Figure 1. OpenWrt Buildroot Source Tree (The folders in the second lines are generated during compilation).

- **tools** – contains all the build instructions to fetch the image building tools
- **toolchain** - contains all the build instructions to fetch the kernel headers, the C library, the bin-utils, the compiler itself and the debugger. If you add a completely new architecture, you would add a configuration for the C library here.
- **target** - build instruction for firmware image generating process and for the kernel building process; compiles kernel and firmware image utilities, builds firmware image, generate Image Generator (former called Image Builder)
- **package** – the OpenWrt Makefiles and patches for all the main packages. The OpenWrt Makefile has its own syntax, different from the conventional Makefile of Linux make tool.

Openwrt Development Guide

**Kohei Arai,Rahul Bhatia,Supriya
Kapoor**



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