

# OpenWrt Development Guide

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Tao Jin [taojin@ccs.neu.edu](mailto:taojin@ccs.neu.edu)  
Wireless Networks Lab, CCIS, NEU  
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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 3<sup>rd</sup> 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 3<sup>rd</sup> 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.

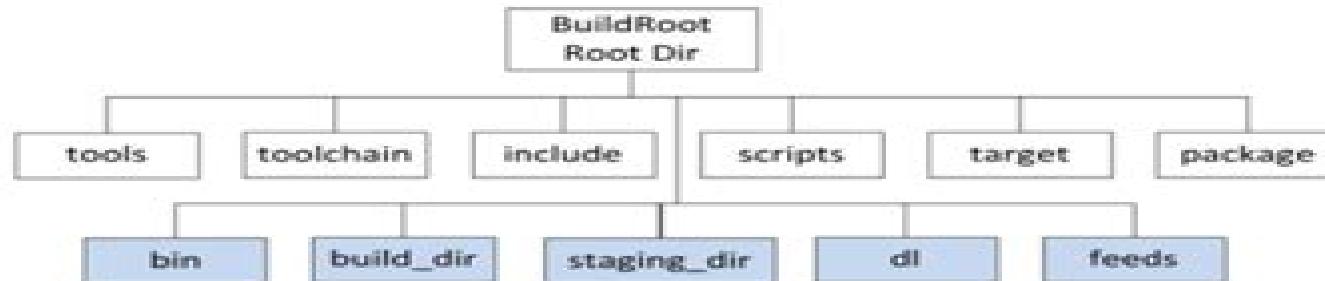


Figure 1. OpenWrt Buildroot Source Tree (The folders in the second lines are generated during compilation).

- **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.

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**Richard Johnson**

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the areas of ICT development and policy making who submitted position papers Participation and selection of papers for the tracks was quite good    **Software Defined Networks** Paul Goransson, Chuck Black, 2014-06-05 Software Defined Networks discusses the historical networking environment that gave rise to SDN as well as the latest advances in SDN technology The book gives you the state of the art knowledge needed for successful deployment of an SDN including How to explain to the non technical business decision makers in your organization the potential benefits as well as the risks in shifting parts of a network to the SDN model How to make intelligent decisions about when to integrate SDN technologies in a network How to decide if your organization should be developing its own SDN applications or looking to acquire these from an outside vendor How to accelerate the ability to develop your own SDN application be it entirely novel or a more efficient approach to a long standing problem Discusses the evolution of the switch platforms that enable SDN Addresses when to integrate SDN technologies in a network Provides an overview of sample SDN applications relevant to different industries Includes practical examples of how to write SDN applications    **Advanced Networking with OpenWRT** X. Y.

WANG, 2025-07-14 Unlock the true potential of your network infrastructure with Advanced Networking with OpenWRT Build Firewalls VPNs and Mesh Networks This comprehensive guide delves into the heart of OpenWRT starting with its modular system architecture and offering advanced firmware customization techniques tailored for power users and network professionals Readers are expertly guided through intricate topics such as device porting driver integration and establishing robust upgrade and recovery routines ensuring network resilience at every stage Spanning the full spectrum of contemporary networking needs the book provides hands on instruction across critical areas including interface management bridging VLANs and quality of service QoS optimization Master advanced wireless configurations multi SSID policies mesh networking protocols stateful firewalls and packet filtering with the latest standards including the transition to nftables and deep packet inspection capabilities The VPN section demystifies secure remote networking with WireGuard IPSec and OpenVPN illustrating hybrid architectures like mesh over VPN for powerful flexible deployments With its cutting edge treatment of dynamic and policy based routing multi WAN strategies monitoring and telemetry and centralized management APIs this guide stands at the forefront of modern network engineering Security is woven throughout with guidance on firmware hardening application isolation intrusion detection and secure management Rounded out with explorations of emerging trends such as SDN edge computing and the integration of OpenWRT in IoT environments this book is an indispensable resource for professionals seeking to build secure high performance and future proof networks    [OpenWrt Essentials](#) Richard Johnson, 2025-05-27 OpenWrt Essentials OpenWrt Essentials provides a comprehensive and authoritative guide to mastering OpenWrt the open source Linux based operating system at the forefront of modern embedded networking Starting from the system's architectural foundations and design principles this book offers an in depth exploration of OpenWrt's build system package management process control and platform specific optimizations Readers will gain clear

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*Arduino Meets Linux* Bob Hammell, 2015-07-24 Build the next generation of connected projects The Yún is one of the most powerful and flexible hardware development boards in the Arduino range It combines the ease of use of the Arduino platform with the power of a 400 MHz Atheros AR9331 Wi-Fi system on chip WiSOC that runs Linux But if you are not experienced and confident in working with Linux based operating systems it may be difficult for you to use the Yún to its full potential Bob Hammell is the author of popular Arduino learning resources such as Connecting Arduino Programming and Networking with the Ethernet Shield In this book he guides you through all of the Arduino Yún's features and explains how to make use of this unique board Using interesting and fun examples in Arduino Meets Linux The User's Guide to Arduino Yún Development you can learn how to Connect your Arduino Yún to your network using built in support for Wi-Fi and Ethernet Work with OpenWrt Yun Linux through the command line Use the Bridge Library to communicate and share data between both of the Yún's chips Write Python and shell scripts to automate tasks and use the power of the AR9331 in your Arduino projects Work with Temboo and third party APIs to access popular web services Host your own websites and application programming interfaces APIs on the Yún Use USB devices such as audio interfaces and gamepads from Microsoft Xbox 360 R and Sony PlayStation R games consoles Build Arduino projects that act as a keyboard or mouse when you plug your Yún into a PC or Mac Add voice recognition and speech to your Arduino projects Download source code view demo videos and access extra projects from the book's companion website [ArduinoMeetsLinux.com](http://ArduinoMeetsLinux.com) And much much more Whether you are an experienced Linux developer looking for specific details on using the Arduino Yún or a beginner who has never used Linux before you can find all of the key information that you need in this book With the Arduino Yún you can take your Arduino projects to the next level This book shows you how

**OpenSearch Administration and Development Guide** William Smith, 2025-08-19 OpenSearch

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