



Instant Optimizing Embedded Systems Using BusyBox

Wu Zhangjin, Cao Ziqiang

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In Detail

As hundreds of millions of people have started using Android smartphones, embedded Linux systems are becoming more and more popular. To get more market share, not only for hardware and function piling up, smartphone manufacturers gradually realized the importance of user experience. To improve user experience, the back-end Linux system must be optimized in many ways.

Instant Optimizing Embedded System using Busybox is a practical, hands-on guide that provides you with a number of clear, step-by-step exercises to help you take advantage of the real power behind Busybox, and give you a good grounding for using it to optimize your embedded (Android Linux) systems.

Moving on from the basics, this book will teach you how to configure and compile it from source code, including cross-compiling it with static linking and dynamic linking. You will also learn how to install and use Busybox on the Android emulator. You will learn to replace the simple Android mksh console with Busybox ash console and start a telnet and HTTP service provided by Busybox. You will also build embedded Linux file system from scratch and start it on Android emulator. We will take a look at how to add functionality to Busybox based system, including adding external applets to Busybox, as well as building development environments (like Bash and C) for it manually or with the automatic Buildroot system. If want to learn how to take advantage of using Busybox applets to optimize your embedded system, then this is the book for you for it will also show you how to use the powerful applets to optimize multiple aspects of an embedded (Android Linux) system.

This book will teach you how to build an embedded (Android Linux) system with Busybox, enhance its functionality to meet diverse system requirements, and optimize it to provide a better user experience for embedded products.

Approach

Filled with practical, step-by-step instructions and clear explanations for the most important and useful tasks. A step-by-step guide which provides concise and clear recipes for getting started with Busybox.

Who this book is for

If you are an embedded system developer or Android developer who wishes to learn to build an embedded (Android Linux) system from scratch, as well as to optimize the system performance, then this book will be great for you. It's assumed that you have some experience in Linux and UNIX utilities. If you are a new developer, this book will also help you to get started with Busybox and Android Linux development.

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