Embedded Linux Projects Using Yocto Project Cookbook

By Alex Gonzalez

Embedded Linux Projects Using Yocto Project Cookbook By Alex Gonzalez

Over 70 hands-on recipes for professional embedded Linux developers to optimize and boost their Yocto know-how

About This Book

- Explore best practices for all embedded product development stages
- Use what is quickly becoming the standard embedded Linux product builder framework, the Yocto Project
- Easy to follow guide to solve all your project woes

Who This Book Is For

If you are an embedded developer learning about embedded Linux with some experience with the Yocto project, this book is the ideal way to become proficient and broaden your knowledge with examples that are immediately applicable to your embedded developments. Experienced embedded Yocto developers will find new insight into working methodologies and ARM specific development competence.

What You Will Learn

- Optimize your Yocto setup to speed up development and debug build issues
- Introduce development workflows for the U-Boot and the Linux kernel, including debugging and optimization methodologies
- Customize your root filesystem with both already supported and new Yocto packages
- Understand the open source licensing requirements and how to comply with them when cohabiting with proprietary programs
- Bring professional embedded Yocto products to market in a timely manner
- Optimize your production systems by reducing the size of both the Linux kernel and root filesystems

In Detail

The embedded Linux world is standardizing around Yocto Project as the best integration framework to create reliable embedded Linux products. Yocto Project effectively shortens the time it takes to develop and maintain an embedded Linux product, and it increases its reliability and robustness by using proven and tested components.

This book begins with the installation of a professional embedded Yocto setup, then advises you on best practices, and finally explains how to quickly get hands on with the Freescale ARM ecosystem and community layer, using the affordable and open source Wandboard embedded board.

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Editorial Review

About the Author

Alex Gonzalez

Alex Gonzalez is software engineering supervisor at Digi International and one of the maintainers of the Digi Embedded Yocto distribution. He started working professionally with embedded systems in 1999 and the Linux kernel in 2004, designing products for voice and video over IP networks, and followed his interests into machine-to-machine (M2M) technologies and the Internet of Things. Born and raised in Bilbao, Spain, Alex has his second home in the UK, where he lived for over 10 years and received his MSc in communication systems from the University of Portsmouth. He currently lives in La Rioja, where he enjoys photography and a good Riojan wine.

Users Review

From reader reviews:

Beverly Brown:

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