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Agenda | Quick reminder about ARM platforms | User perspective: booting with the Device Tree | Basic Device Tree syntax and compilation | Simple example of Device Tree fragment | Overall organization of a Device Tree | Examples

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The Device Tree Blob is produced by the compiler, and is the binary that gets loaded by the bootloader and parsed by the kernel at boot time.

larch/arm/boot/dts/Makefile lists which DTBs should be generated at build time.
dtb-\$(CONFIG_ARCH_MVEBU) +=

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Device tree compiler and its source code
located at scripts/dtc/. On ARM all
device tree source are located at
/arch/arm/boot/dts/. The Device Tree

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~~blob(.dtb)~~ is produced by the compiler, and it is the binary that gets loaded by the bootloader and parsed by the kernel at boot time.

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On top of that, each board has its own set of external components. The result is a wild forest of header files, patches and special configuration parameters in the kernel tree, each combination matching a specific board with a specific chip containing an ARM processor.

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~~Bootlin — Embedded Linux and kernel engineering~~

The device tree is a tree structure with nodes that describe the physical devices in the system that cannot be dynamically detected by software. The nodes are organized in a hierarchical parent/child relationship. This figure is a representation of a simple device tree, describing the platform type, CPU and memory. Nodes are organized

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Whether you are a hobbyist or a professional, this book will get you fully equipped to resolve the most commonly occurring media-related challenges. If you want to expand your horizons beyond lighting an LED and push the limits of your board, this is just the book for you. Working knowledge of BeagleBone is assumed.

Over 79 hands-on recipes for professional embedded Linux developers to optimize and boost their Yocto Project know-how
Key Features Optimize your Yocto setup to speed up development and debug build

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issues Use what is quickly becoming the standard embedded Linux product builder framework—the Yocto Project Recipe-based implementation of best practices to optimize your Linux system

Book Description The Yocto Project has become the de facto distribution build framework for reliable and robust embedded systems with a reduced time to market. You'll get started by working on a build system where you set up Yocto, create a build directory, and learn how to debug it. Then, you'll explore everything about the BSP layer, from creating a custom layer to debugging device tree issues. In addition to this, you ' ll learn how to add a new software layer, packages, data, scripts, and configuration files to your system. You will then cover topics based on application development, such as using the Software Development Kit and how to use the Yocto project in

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various development environments.

Toward the end, you will learn how to debug, trace, and profile a running system.

This second edition has been updated to include new content based on the latest Yocto release. What you will learn

Optimize your Yocto Project setup to speed up development and debug build issues Use Docker containers to build

Yocto Project-based systems Take advantage of the user-friendly Toaster web interface to the Yocto Project build system

Build and debug the Linux kernel and its device trees Customize your root

filesystem with already-supported and new Yocto packages Optimize your production

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filesystem security Understand the open source licensing requirements and how to comply with them when cohabiting with

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proprietary programs Create recipes, and build and run applications in C, C++, Python, Node.js, and Java Who this book is for If you are an embedded Linux developer with the basic knowledge of Yocto Project, this book is an ideal way to broaden your knowledge with recipes for embedded development.

Provides information on writing a driver in Linux, covering such topics as character devices, network interfaces, driver debugging, concurrency, and interrupts.

Master the techniques needed to build great, efficient embedded devices on Linux About This Book Discover how to build and configure reliable embedded Linux devices This book has been updated to include Linux 4.9 and Yocto Project 2.2 (Morty) This comprehensive guide covers the remote update of devices in the field

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and power management Who This Book
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on chip or embedded module Use
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embedded Linux systems quickly and
efficiently Update IoT devices in the field
without compromising security Reduce the
power budget of devices to make batteries
last longer Interact with the hardware
without having to write kernel device

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drivers Debug devices remotely using GDB, and see how to measure the performance of the systems using powerful tools such as `perf`, `ftrace`, and `valgrind`. Find out how to configure Linux as a real-time operating system. In Detail Embedded Linux runs many of the devices we use every day, from smart TVs to WiFi routers, test equipment to industrial controllers - all of them have Linux at their heart. Linux is a core technology in the implementation of the inter-connected world of the Internet of Things. The comprehensive guide shows you the technologies and techniques required to build Linux into embedded systems. You will begin by learning about the fundamental elements that underpin all embedded Linux projects: the toolchain, the bootloader, the kernel, and the root filesystem. You'll see how to create each of these elements from scratch, and how to

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Automate the process using Buildroot and the Yocto Project. Moving on, you'll find out how to implement an effective storage strategy for flash memory chips, and how to install updates to the device remotely once it is deployed. You'll also get to know the key aspects of writing code for embedded Linux, such as how to access hardware from applications, the implications of writing multi-threaded code, and techniques to manage memory in an efficient way. The final chapters show you how to debug your code, both in applications and in the Linux kernel, and how to profile the system so that you can look out for performance bottlenecks. By the end of the book, you will have a complete overview of the steps required to create a successful embedded Linux system. Style and approach This book is an easy-to-follow and pragmatic guide with in-depth analysis of the

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Implementation of embedded devices. It follows the life cycle of a project from inception through to completion, at each stage giving both the theory that underlies the topic and practical step-by-step walkthroughs of an example implementation.

Learn to build amazing robotic projects using the powerful BeagleBone Black. About This Book Push your creativity to the limit through complex, diverse, and fascinating projects Develop applications with the BeagleBone Black and open source Linux software Sharpen your expertise in making sophisticated electronic devices Who This Book Is For This Learning Path is aimed at hobbyists who want to do creative projects that make their life easier and also push the boundaries of what can be done with the BeagleBone Black. This Learning Path's

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Projects are for the aspiring maker, casual programmer, and budding engineer or tinkerer. You'll need some programming knowledge, and experience of working with mechanical systems to get the complete experience from this Learning Path. What You Will Learn Set up and run the BeagleBone Black for the first time Get to know the basics of microcomputing and Linux using the command line and easy kernel mods Develop a simple web interface with a LAMP platform Prepare complex web interfaces in JavaScript and get to know how to stream video data from a webcam Find out how to use a GPS to determine where your sailboat is, and then get the bearing and distance to a new waypoint Use a wind sensor to sail your boat effectively both with and against the wind Build an underwater ROV to explore the underwater world See how to build an autonomous Quadcopter In

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Detail BeagleBone is a microboard PC that runs Linux. It can connect to the Internet and run OSes such as Android and Ubuntu. You can transform this tiny device into a brain for an embedded application or an endless variety of electronic inventions and prototypes. This Learning Path starts off by teaching you how to program the BeagleBone. You will create introductory projects to get yourselves acquainted with all the nitty gritty. Then we'll focus on a series of projects that are aimed at hobbyists like you and encompass the areas of home automation and robotics. With each project, we'll teach you how to connect several sensors and an actuator to the BeagleBone Black. We'll also create robots for land, sea, and water. Yes, really! The books used in this Learning Path are: BeagleBone Black Cookbook BeagleBone Home Automation Blueprints Mastering

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BeagleBone Robotics Style and approach

This practical guide transforms complex and confusing pieces of technology to become accessible with easy- to-succeed instructions. Through clear, concise examples, you will quickly get to grips with the core concepts needed to develop home automation applications with the BeagleBone Black.

Your step-by-step guide to the latest in Linux Nine previous editions of this popular benchmark guide can ' t be wrong! Whether you ' re new to Linux and need a step-by-step guide or are a pro who wants to catch up with recent distributions, Linux For Dummies, 10th Edition has your back. Covering everything from installation to automation, this updated edition focuses on openSUSE and Ubuntu and includes new and refreshed material—as well as chapters on

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Building a web server and creating simple shell scripts. In his friendly, no-jargon style, IT professional and tech higher education instructor Richard Blum draws on more than 10 years of teaching to show you just why Linux ' s open source operating systems are relied on to run a huge proportion of the world ' s online infrastructure, servers, supercomputers, and NAS devices—and how you can master them too. Study the thinking behind Linux Choose the right installation approach Pick up the basics—from prepping to desktops Get fancy with music, video, movies, and games Whatever your Linux needs—work, fun, or just a hobby—this bestselling, evergreen guide will get you up and coding in the open source revolution in no time at all.

Did the ground just shake? You're not just imagining it, it ' s probably an

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to plotline, conflicts, pacing, and the conclusion Craft living, breathing characters -- from creating the backstory to letting your characters speak to balancing dialogue with action Turn your story into a script -- from developing an outline and getting over writer's block to formatting your screenplay and handling rewrites Prepare for Hollywood -- from understanding the players and setting your expectations to polishing your copy and protecting your work Sell your script to the industry -- from preparing your pitch and finding an agent to meeting with executives and making a deal Open the book and find: The latest on the biz, from entertainment blogs to top agents to box office jargon New story examples from recently released films Tips on character development, a story's time clock, dramatic structure, and dialogue New details on developing the nontraditional

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