Freescale Yocto Project User's Guide

1 Overview

This document describes how to build an image for an i.MX Freescale board by using a Yocto Project build environment. It describes the Freescale release layer and Freescale-specific usage.

The Yocto Project is an open-source collaboration focused on embedded Linux® OS development. For more information regarding Yocto Project, see the Yocto Project page: www.yoctoproject.org/. There are several documents on the Yocto Project home page that describe in detail how to use the system. The basic Yocto Project, without the Freescale release layer, can be used by following the instructions in the *Yocto Project Quick Start* found at www.yoctoproject.org/docs/current/yocto-project-qs/yocto-project-qs.html.

The FSL Yocto Project Community BSP (found at freescale.github.io) is a development community outside Freescale providing support for i.MX boards in the Yocto Project environment. Freescale i.MX joined the Yocto Project community providing a release based on the Yocto Project framework. Information specific to FSL community BSP use can be found on the community web page. This document is an extension of the community BSP documentation.

Files used to build an image are stored in layers. Layers contain different types of customizations and come from different sources. Some of the files in a layer are called

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Rodolfo Giometti

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   Embedded Linux Development Using Yocto Project Cookbook Alex González,2018-01-25 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 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 DescriptionThe 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 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 systems by reducing the size of both the Linux kernel and root filesystems Explore the mechanisms to increase the root filesystem security Understand the open source licensing requirements and how to comply with them when cohabiting with 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

   Yocto Project Customization for Linux Rodolfo Giometti,2025-07-09 Embedded computers have become very complex and are now called upon to solve a range of increasingly advanced problems This added complexity means embedded systems need even more complex operating systems in order to work as required The Yocto Project is now the effective standard for most embedded systems around the world due to its robustness and high configuration availability of software packages and the ability to support several hardware platforms with common mechanisms so that developers can deploy their systems with ease regardless of the machine Yocto Project Customization for Linux is not just another book talking about the Yocto Project but shows how the Yocto Build system really works Developers can easily and quickly move from the demo Yocto Project distributions that silicon vendors rely on for their development kits to their final product This book is a practical guide teaching you everything you need to know about writing new recipes and customizing existing ones by explaining the Build System internals and how to manage them for your ongoing projects You Will Learn To understand Yocto Project internals

and how Yocto Project tools work How to define a new meta layer or a new machine distro in order to generate a custom Yocto Project image for their embedded system To generate a new Yocto Project recipe for your software or to alter an already existing recipe in order to fit your needs How to update one or more packages on their running Yocto Project system How to optimize and effectively manage the Yocto Build System Who is it for This is for embedded developers as well as Linux users who want to know more how to use Yocto   *Embedded Linux Development using Yocto Projects* Otavio Salvador,Daiane Angolini,2017-11-16 Optimize and boost your Linux based system with Yocto Project and increase its reliability and robustness efficiently and cost effectively Key Features Optimize your Yocto Project tools to develop efficient Linux based projects Practical approach to learning Linux development using Yocto Project Demonstrates concepts in a practical and easy to understand way Book DescriptionYocto Project is turning out to be the best integration framework for creating reliable embedded Linux projects It has the edge over other frameworks because of its features such as less development time and improved reliability and robustness Embedded Linux Development using Yocto Project starts with an in depth explanation of all Yocto Project tools to help you perform different Linux based tasks The book then moves on to in depth explanations of Poky and BitBake It also includes some practical use cases for building a Linux subsystem project using Yocto Project tools available for embedded Linux The book also covers topics such as SDK recipetool and others By the end of the book you will have learned how to generate and run an image for real hardware boards and will have gained hands on experience at building efficient Linux systems using Yocto Project What you will learn Understand the basic concepts involved in Poky workflows along with configuring and preparing the Poky build environment Configure a build server and customize images using Toaster Generate images and fit packages into created images using BitBake Support the development process by setting up and using Package feeds Debug Yocto Project by configuring Poky Build an image for the BeagleBone Black RaspberryPi 3 and Wandboard and boot it from an SD card Who this book is for If you are an embedded Linux developer with a basic knowledge of Yocto Project and want to broaden your knowledge with examples of embedded development then this book is for you This book is also for professionals who want to find new insights into working methodologies for Linux development   **User's Guide** ,1986   *A team user's guide* SRI International. Artificial Intelligence Center,Armar A. Archbold,Barbara J. Grosz,Daniel Sagalowicz,1981   *Users Guide* ,1965   **User's guide** G. J. Burke,A. J. Poggio,1981   **PROJECT ACCESS Computer Information Center User Guide** Project Access,1992   Project Summary ,1991*   **User's Guide** ,1998   **L 10 Users' Guide** ,1973   **Progress** ,1993   *Nook Users Guide* ,   *Workbench users' guide* Richard E. Cobb,University of Michigan. Graduate School of Business Administration. Database Systems Research Group,1980   *Resource Workshop* Borland International (Scotts Valley, Calif.),1991   **User's Guide and Information Base** ,1981   **Master Users Guide** ,1980   *EXceed/DOS ; Server User's Guide, Manual Release 3.3* ,   *Formulator Users Guide* Fairchild Camera & Instrument Corporation, Micro Systems Division,1975

<u>Users Guide - Microsoft Code View and Utilities - Vers. 2.3</u> ,

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