The Power of GNU Make for
Building Anything

3rd Edition

Managing
Projects with

GNU Make

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Robert Mecklenburg

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Managing Projects with GNU Make Robert Mecklenburg,2004-11-19 The utility simply known as make is one of the most enduring features of both Unix and other operating systems First invented in the 1970s make still turns up to this day as the central engine in most programming projects it even builds the Linux kernel In the third edition of the classic Managing Projects with GNU make readers will learn why this utility continues to hold its top position in project build software despite many younger competitors The premise behind make is simple after you change source files and want to rebuild your program or other output files make checks timestamps to see what has changed and rebuilds just what you need without wasting time rebuilding other files But on top of this simple principle make layers a rich collection of options that lets you manipulate multiple directories build different versions of programs for different platforms and customize your builds in other ways This edition focuses on the GNU version of make which has deservedly become the industry standard GNU make contains powerful extensions that are explored in this book It is also popular because it is free software and provides a version for almost every platform including a version for Microsoft Windows as part of the free Cygwin project Managing Projects with GNU make 3rd Edition provides guidelines on meeting the needs of large modern projects Also added are a number of interesting advanced topics such as portability parallelism and use with Java Robert Mecklenburg author of the third edition has used make for decades with a variety of platforms and languages In this book he zealously lays forth how to get your builds to be as efficient as possible reduce maintenance avoid errors and thoroughly understand what make is doing Chapters on C and Java provide makefile entries optimized for projects in those languages The author even includes a discussion of the makefile used to build the book   **Managing Projects with GNU Make** Robert Mecklenburg,2004-11-19 The utility simply known as make is one of the most enduring features of both Unix and other operating systems First invented in the 1970s make still turns up to this day as the central engine in most programming projects it even builds the Linux kernel In the third edition of the classic Managing Projects with GNU make readers will learn why this utility continues to hold its top position in project build software despite many younger competitors The premise behind make is simple after you change source files and want to rebuild your program or other output files make checks timestamps to see what has changed and rebuilds just what you need without wasting time rebuilding other files But on top of this simple principle make layers a rich collection of options that lets you manipulate multiple directories build different versions of programs for different platforms and customize your builds in other ways This edition focuses on the GNU version of make which has deservedly become the industry standard GNU make contains powerful extensions that are explored in this book It is also popular because it is free software and provides a version for almost every platform including a version for Microsoft Windows as part of the free Cygwin project Managing Projects with GNU make 3rd Edition provides guidelines on meeting the needs of large modern projects Also added are a number of interesting advanced topics such as portability parallelism

and use with Java Robert Mecklenburg author of the third edition has used make for decades with a variety of platforms and languages In this book he zealously lays forth how to get your builds to be as efficient as possible reduce maintenance avoid errors and thoroughly understand what make is doing Chapters on C and Java provide makefile entries optimized for projects in those languages The author even includes a discussion of the makefile used to build the book **Managing Projects with Make** Andrew Oram,Steve Talbott,1991 Software Operating Systems Autotools John Calcote,2010-07-15 The GNU Autotools make it easy for developers to create software that is portable across many Unix like operating systems Although the Autotools are used by thousands of open source software packages they have a notoriously steep learning curve And good luck to the beginner who wants to find anything beyond a basic reference work online Autotools is the first book to offer programmers a tutorial based guide to the GNU build system Author John Calcote begins with an overview of high level concepts and a quick hands on tour of the philosophy and design of the Autotools He then tackles more advanced details like using the M4 macro processor with Autoconf extending the framework provided by Automake and building Java and C sources He concludes the book with detailed solutions to the most frequent problems encountered by first time Autotools users You ll learn how to Master the Autotools build system to maximize your software s portability Generate Autoconf configuration scripts to simplify the compilation process Produce portable makefiles with Automake Build cross platform software libraries with Libtool Write your own Autoconf macros Autotools focuses on two projects Jupiter a simple Hello world program and FLAIM an existing complex open source effort containing four separate but interdependent subprojects Follow along as the author takes Jupiter s build system from a basic makefile to a full fledged Autotools project and then as he converts the FLAIM projects from complex hand coded makefiles to the powerful and flexible GNU build system

Autotools, 2nd Edition John Calcote,2019-11-05 The long awaited update to the practitioner s guide to GNU Autoconf Automake and Libtool The GNU Autotools make it easy for developers to create software that is portable across many Unix like operating systems and even Windows Although the Autotools are used by thousands of open source software packages they have a notoriously steep learning curve Autotools is the first book to offer programmers a tutorial based guide to the GNU build system Author John Calcote begins with an overview of high level concepts and a hands on tour of the philosophy and design of the Autotools He then tackles more advanced details like using the M4 macro processor with Autoconf extending the framework provided by Automake and building Java and C sources He concludes with solutions to frequent problems encountered by Autotools users This thoroughly revised second edition has been updated to cover the latest versions of the Autotools It includes five new chapters on topics like pkg config unit and integration testing with Autotest internationalizing with GNU tools the portability of gnulib and using the Autotools with Windows As with the first edition you ll focus on two projects Jupiter a simple Hello world program and FLAIM an existing complex open source effort containing four separate but interdependent projects Follow along as the author takes Jupiter s build system from a basic makefile to a

full fledged Autotools project and then as he converts the FLAIM projects from complex hand coded makefiles to the powerful and flexible GNU build system Learn how to Master the Autotools build system to maximize your software s portability Generate Autoconf configuration scripts to simplify the compilation process Produce portable makefiles with Automake Build cross platform software libraries with Libtool Write your own Autoconf macros This detailed introduction to the GNU Autotools is indispensable for developers and programmers looking to gain a deeper understanding of this complex suite of tools Stop fighting against the system and make sense of it all with the second edition of Autotools **The GNU Make Book** John Graham-Cumming,2015-04-01 GNU make is the most widely used build automation tool but it can be challenging to master and its terse language can be tough to parse for even experienced programmers Those who run into difficulties face a long involved struggle often leaving unsolved problems behind and GNU make s vast potential untapped The GNU Make Book demystifies GNU make and shows you how to use its best features You ll find a fast thorough rundown of the basics of variables rules targets and makefiles Learn how to fix wastefully long build times and other common problems and gain insight into more advanced capabilities such as complex pattern rules With this utterly pragmatic manual and cookbook you ll make rapid progress toward becoming a more effective user You ll also learn how to Master user defined functions variables and path handling Weigh the pitfalls and advantages of GNU make parallelization Handle automatic dependency generation rebuilding and non recursive make Modify the GNU make source and take advantage of the GNU Make Standard Library Create makefile assertions and debug makefiles GNU make is known for being tricky to use but it doesn t have to be If you re looking for a deeper understanding of this indispensable tool you ll find The GNU Make Book to be an indispensable guide *The Art of ARM Assembly, Volume 1* Randall Hyde,2025-02-25 Modern Instructions for 64 Bit ARM CPUs Building on Randall Hyde s iconic series The Art of ARM Assembly delves into programming 64 bit ARM CPUs the powerhouses behind iPhones Macs Chromebooks servers and embedded systems Following a fast paced introduction to the art of programming in assembly and the GNU Assembler Gas specifically you ll explore memory organization data representation and the basic logical operations you can perform on simple data types You ll learn how to define constants write functions manage local variables and pass parameters efficiently You ll explore both basic and advanced arithmetic operations control structures numeric conversions lookup tables and string manipulation in short you ll cover it all You ll also dive into ARM SIMD Neon instructions bit manipulation and macro programming with the Gas assembler as well as how to Declare pointers and use composite data structures like strings arrays and unions Convert simple and complex arithmetic expressions into machine instruction sequences Use ARM addressing modes and expressions to access memory variables Create and use string library functions and build libraries of assembly code using makefiles This hands on guide will help you master ARM assembly while revealing the intricacies of modern machine architecture You ll learn to write more efficient high level code and gain a deeper understanding of software hardware interactions essential skills for any programmer working with ARM

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author Jeroen Janssens provides a Docker image packed with over 100 Unix power tools useful whether you work with Windows macOS or Linux You ll quickly discover why the command line is an agile scalable and extensible technology Even if you re comfortable processing data with Python or R you ll learn how to greatly improve your data science workflow by leveraging the command line s power This book is ideal for data scientists analysts engineers system administrators and researchers Obtain data from websites APIs databases and spreadsheets Perform scrub operations on text CSV HTML XML and JSON files Explore data compute descriptive statistics and create visualizations Manage your data science workflow Create your own tools from one liners and existing Python or R code Parallelize and distribute data intensive pipelines Model data with dimensionality reduction regression and classification algorithms Leverage the command line from Python Jupyter R RStudio and Apache Spark **Web Mapping Illustrated** Tyler Mitchell,2005-06-17 Web Mapping Illustrated shows readers how to create maps even interactive maps with free tools including MapServer OpenEV GDAL OGR and PostGIS It also explains how to find collect understand use and share mapping data **Pro Linux Embedded Systems** Gene Sally,2010-04-29 Today Linux is included with nearly every embedded platform Embedded developers can take a more modern route and spend more time tuning Linux and taking advantage of open source code to build more robust feature rich applications While Gene Sally does not neglect porting Linux to new hardware modern embedded hardware is more sophisticated than ever most systems include the capabilities found on desktop systems This book is written from the perspective of a user employing technologies and techniques typically reserved for desktop systems Modern guide for developing embedded Linux systems Shows you how to work with existing Linux embedded system while still teaching how to port Linux Explains best practices from somebody who has done it before **Linux System Programming** Robert Love,2007-09-18 This book is about writing software that makes the most effective use of the system you re running on code that interfaces directly with the kernel and core system libraries including the shell text editor compiler debugger core utilities and system daemons The majority of both Unix and Linux code is still written at the system level and Linux System Programming focuses on everything above the kernel where applications such as Apache bash cp vim Emacs gcc gdb glibc ls mv and X exist Written primarily for engineers looking to program better at the low level this book is an ideal teaching tool for any programmer Even with the trend toward high level development either through web software such as PHP or managed code C someone still has to write the PHP interpreter and the C virtual machine Linux System Programming gives you an understanding of core internals that makes for better code no matter where it appears in the stack Debugging high level code often requires you to understand the system calls and kernel behavior of your operating system too Key topics include An overview of Linux the kernel the C library and the C compiler Reading from and writing to files along with other basic file I O operations including how the Linux kernel implements and manages file I O Buffer size management including the Standard I O library Advanced I O interfaces memory mappings and optimization techniques The family of system calls

for basic process management Advanced process management including real time processes File and directories creating moving copying deleting and managing them Memory management interfaces for allocating memory managing the memory youhave and optimizing your memory access Signals and their role on a Unix system plus basic and advanced signal interfaces Time sleeping and clock management starting with the basics and continuing through POSIX clocks and high resolution timers With Linux System Programming you will be able to take an in depth look at Linux from both a theoretical and an applied perspective as you cover a wide range of programming topics *Linux System Programming* Robert M. Love, UNIX UNIX LINUX UNIX TCL TK Write software that makes the most effective use of the Linux system including the kernel and core system libraries The majority of both Unix and Linux code is still written at the system level and this book helps you focus on everything above the kernel where applications such as Apache bash cp vim Emacs gcc gdb glibc ls mv and X exist Written primarily for engineers looking to program at the low level this updated edition of Linux System Programming gives you an understanding of core internals that makes for better code no matter where it appears in the stack Provided by publisher **Earth System Modelling - Volume 5** Rupert Ford,Graham Riley,Reinhard Budich,René Redler,2012-01-05 Collected articles in this series are dedicated to the development and use of software for earth system modelling and aims at bridging the gap between IT solutions and climate science The particular topic covered in this volume addresses the process of configuring building and running earth system models Earth system models are typically a collection of interacting computer codes often called components which together simulate the earth system Each code component is written to model some physical process which forms part of the earth system such as the Ocean This book is concerned with the source code version control of these code components the configuration of these components into earth system models the creation of executable s from the component source code and related libraries and the running and monitoring of the resultant executables on the available hardware **Building Embedded Systems** Changyi Gu,2016-05-26 Develop the software and hardware you never think about We re talking about the nitty gritty behind the buttons on your microwave inside your thermostat inside the keyboard used to type this description and even running the monitor on which you are reading it now Such stuff is termed embedded systems and this book shows how to design and develop embedded systems at a professional level Because yes many people quietly make a successful career doing just that Building embedded systems can be both fun and intimidating Putting together an embedded system requires skill sets from multiple engineering disciplines from software and hardware in particular Building Embedded Systems is a book about helping you do things in the right way from the beginning of your first project Programmers who know software will learn what they need to know about hardware Engineers with hardware knowledge likewise will learn about the software side Whatever your background is Building Embedded Systems is the perfect book to fill in any knowledge gaps and get you started in a career programming for everyday devices Author Changyi Gu brings more than fifteen years of experience in working his way up the ladder in the

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How Linux Works, 3rd Edition Brian Ward,2021-04-13 Best selling guide to the inner workings of the Linux operating system with over 50 000 copies sold since its original release in 2014 Unlike some operating systems Linux doesn t try to hide the important bits from you it gives you full control of your computer But to truly master Linux you need to understand its internals like how the system boots how networking works and what the kernel actually does In this third edition of the bestselling How Linux Works author Brian Ward peels back the layers of this well loved operating system to make Linux internals accessible This edition has been thoroughly updated and expanded with added coverage of Logical Volume Manager LVM virtualization and containers You ll learn How Linux boots from boot loaders to init systemd How the kernel manages devices device drivers and processes How networking interfaces firewalls and servers work How development tools work and relate to shared libraries How to write effective shell scripts You ll also explore the kernel and examine key system tasks inside user space including system calls input and output and filesystems With its combination of background theory real world examples and patient explanations How Linux Works 3rd edition will teach you what you need to know to solve pesky problems and take control of your operating system   **Linux in a Nutshell** Ellen Siever,Stephen Figgins,Robert Love,Arnold Robbins,2009-09-19 Everything you need to know about Linux is in this book Written by Stephen Figgins Ellen Siever Robert Love and Arnold Robbins people with years of active participation in the Linux community Linux in a Nutshell Sixth Edition thoroughly covers programming tools system and network administration tools the shell editors and LILO and GRUB boot loaders This updated edition offers a tighter focus on Linux system essentials as well as more coverage of new capabilities such as virtualization wireless network management and revision control with git It also highlights the most important options for using the vast number of Linux commands You ll find many helpful new tips and techniques in this reference whether you re new to this operating system or have been using it for years Get the Linux commands for system administration and network management Use hundreds of the most important shell commands available on Linux

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