

*The Power of GNU Make for  
Building Anything*

**3rd Edition**

Completely Revised & Updated

*Managing  
Projects with*



# GNU Make

**O'REILLY®**

*Robert Mecklenburg*

# Managing Projects With Gnu Make

**Jennifer Vesperman**

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Managing Projects with GNU Make Robert Mecklenburg, Robert William Mecklenburg, 2004-11-19 Managing Projects with GNU Make 3rd edition provides guidelines on meeting the needs of large modern projects. This edition focuses on the GNU version of make which has deservedly become the industry standard. GNU's powerful extensions are explored in this book including a number of interesting advanced topics. **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, 1993 Managing Projects with Make Steve Talbott, 1988

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**UNIX: The Complete Reference, Second Edition** Kenneth Rosen, Douglas Host, Rachel Klee, Richard Rosinski, 2006-12-19 The Definitive UNIX Resource Fully Updated Get cutting edge coverage of the newest releases of UNIX including Solaris 10 all Linux distributions HP UX AIX and FreeBSD from this thoroughly revised one stop resource for users at all experience levels Written by UNIX experts with many years of experience starting with Bell Laboratories UNIX The Complete Reference Second Edition provides step by step instructions on how to use UNIX and take advantage of its powerful tools and utilities Get up and running on UNIX quickly use the command shell and desktop and access the Internet and e-mail You'll also learn to administer systems and networks develop applications and secure your UNIX environment Up to date chapters on UNIX desktops Samba Python Java Apache and UNIX Web development are included Install configure and maintain UNIX on your PC or workstation Work with files directories commands and the UNIX shell Create and modify text files using powerful text editors Use UNIX desktops including GNOME CDE and KDE as an end user or system administrator Use and manage e-mail TCP IP networking and Internet services Protect and maintain the security of your UNIX system and network Share devices printers and files between Windows and UNIX systems Use powerful UNIX tools including awk sed and grep Develop your own shell Python and Perl scripts and Java C and C programs under UNIX Set up Apache Web servers and develop browser independent Web sites and applications **C in a Nutshell** Peter Prinz, Tony Crawford, 2006 In this one handy book programmers get virtually everything they need to program in C long established as an ANSI standard The C programming language has been around since 1971 and is still the language of choice for many applications

**Linux Application Development** Michael K. Johnson, Erik W. Troan, 1998 Written by two recognized experts this title is a detailed guide for experienced programmers who want to develop Linux software or who want to port software from other platforms like DOS to Linux The unique extensions and features of Linux are explored providing an invaluable reference for those using the system *Building Applications with the Linux Standard Base* George Kraft, 2005 Praise for the Linux Standard Base Community built software and community built standards are two sides of the same coin

Standards help ensure that the freedom to invent the essence of open source and Linux doesn't compromise the ability to write software that works together effectively. The LSB is an important set of standards for the Linux community. Brian Behlendorf, Apache Software Foundation CollabNet, With the recent success of the LSB and the adoption on a wide scale of the LSB standards, building applications that are standards compliant has become a much easier and more necessary part of the development on Linux as a platform. Jeffrey Hemos, Bates Editor, Slashdot.org, In the days before the LSB, every change and every improvement we wanted to make to our Linux product was subject to somebody saying, 'But wait, I depend on that.' The LSB laid out what interfaces were defined and how they should be used. Since the LSB was adopted, we have been free to innovate without fear of breaking somebody else's assumptions. The success of the LSB recommended it as the starting point for the U.S. Department of Defense's Common Operating Environment (COE) specification for Linux. Without the LSB, there would be no COE certified Red Hat products today. Michael Tiemann, Chief Technology Officer, Red Hat Inc., As an active LSB member, SUSE LINUX is committed both to providing customers with standardized Linux technology and to simplifying ISVs' and IHV's Linux certification efforts. The availability of common standards plays a decisive role in the proliferation of Linux operating systems and applications on server and client systems worldwide, and we appreciate the LSB project's work in developing and promoting these standards. Markus Rex, General Manager of SUSE LINUX for Novell, We are very happy to see the progress of LSB both in the definition of the standard and in its broad support. LSB is an important part of our strategy, and MandrakeSoft will continue to support the efforts of LSB to define a standardized ABI and encourage ISVs to build and certify to this standard. Francois Bancilhon, Chief Executive Officer, MandrakeSoft, The launch of the LSB is a significant development for the Linux community. For the very first time in history, a common binary computing environment will be able to be shared across different systems from different vendors. The LSB will play a pivotal role in ensuring the proper development of the Linux market. Sun Wah Linux is excited about this phenomenon and is dedicated to supporting LSB's future efforts and endeavors. Alex Banh, Chief Executive Officer, Sun Wah Linux P.R.C., An initiative of the Free Standards Group, the Linux Standard Base (LSB) is a set of standards designed to increase compatibility among Linux distributions and enable applications to run on any LSB compliant system. The advent of LSB 2.0 is revolutionary in that it allows ISVs to create shrink-wrapped software for the Linux platform much in the same way they already do for Windows. Written by the team that created the LSB Building Applications with the Linux Standard Base shows developers how to create, test and certify software for LSB 2.0 compliance. The book's hands-on approach lets readers quickly understand how to write Linux applications that are portable across multiple distributions including those from SuSE, Mandrake and Solaris. The accompanying CD ROM contains the full LSB 2.0 specification and the sample program files used in the book. Coverage includes LSB coding practices, Software packing and installation issues, UNIX to Linux migration tips, Testing Linux distribution and applications for LSB compatibility, Examples of applications using the LSB, Relevant standards for Linux, **Running Linux**, Matt Welsh, Lar

Kaufman,1995 A guide showing users and programmers how to install maintain and network Linux a free clone of the UNIX operating system that runs on a personal computer Includes a short introduction to UNIX a discussion of system administration and network administration tools users need to run the system and complete instructions for installing and configuring Version 3 1 of XFree86 Annotation copyright by Book News Inc Portland OR [Essential CVS](#) Jennifer Vesperman,2007 Complete and easy to follow this reference helps programmers and system administrators apply order to the task of managing large quantities of documents [\*\*American Book Publishing Record\*\*](#) ,2003 [\*\*GNU make\*\*](#) Robert Mecklenburg,2005 Dieses Buch behandelt neben den Grundlagen wie der Erstellung einfacher Makefiles und dem Umgang mit Befehlen auch die m chtigen Erweiterungen von GNU make und die verschiedenen Versionen die das Programm f r fast jedes Betriebssystem Microsoft Windows eingeschlossen zur Verf gung stellt Daneben geht der Autor auch auf hrlich auf fortgeschrittene Themen ein wie etwa das Managen gro er Projekte Portabilit t und Debugging von Makefiles Leistungssteigerung von make und die Anwendung von make in Java Projekten [The British National Bibliography](#) Arthur James Wells,2005 [\*\*C/C++ Users Journal\*\*](#) ,2004 [Learning GNU Emacs](#) Debra Cameron,Bill Rosenblatt,1991 An introduction to GNU Emacs editos one of the most widely used and powerful editors available under UNIX Provides a solid introduction to basic editing a look at several important editing modes and a brief introduction to customization and Emacs LISP programming [\*\*Mac OS X Tiger for Unix Geeks\*\*](#) Brian Jepson,Ernest E. Rothman,2005-06 This is the book for Mac command line fans Completely revised and updated to cover Mac OS X Tiger this new edition helps readers quickly and painlessly get acclimated with Tiger s familiar yet foreign Unix environment If you re a Unix geek with an interest in Mac OS X you ll find this clear concise book of help [Thinking in C++](#) Bruce Eckel,2000 CD ROM contains basic introductory seminar on the C concepts necessary to understand C or Java

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