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The Linux SCSI – HOWTO by Drew Eckhardt covers all supported SCSI controllers as well as device specific questions. A lot of troubleshooting hints are given. It is available from [sunsite.unc.edu](http://sunsite.unc.edu/pub/Linux/docs/LDP) in `/pub/Linux/docs/LDP` and its mirror sites.

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The Linux SCSI programming HOWTO
echo "scsi add – single – device 0 0 4 0" >
/proc/scsi/scsi since generic devices are
mapped in the order of their insertion.
When adding more devices to the scsi bus
keep in mind there are limited spare
entries for new devices. The memory has
been allocated at boot time and has room

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for 2 more devices. The Linux SCSI programming HOWTO

The Linux SCSI programming HOWTO
- Using Linux

sbp2 devices) utilize the SCSI command set. By using Linux pseudo SCSI device drivers which bridge between the native

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protocol stack and the SCSI subsystem, the upper level SCSI device drivers, including sg, can be used to control "non – SCSI" devices. This is the third major version of the sg driver. A summary of the sg driver history is as follows:

The Linux SCSI Generic (sg) HOWTO

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original, displace SCSI-PROGRAMMING-HOWTO: This HOWTO describes the SCSI Generic driver (sg) found in the Linux 2.4 production series of kernels. It focuses on the the interface and characteristics of the driver that application writers may need to know. The driver's theory of operations is

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covered and some brief examples are included.

The Linux SCSI Generic (sg) HOWTO
echo "scsi remove-single-device a b c d" >
/proc/scsi/scsi and similar, to add a SCSI
device, do echo "scsi add-single-device a b
c d" > /proc/scsi/scsi where a ==

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hostadapter id (first one being 0) b ==
SCSI channel on hostadapter (first one
being 0) c == ID d == LUN (first one
being 0)

The Linux SCSI programming HOWTO:
What Are The ...

This buffer is set after a command is

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completed (after a read () call) and contains the SCSI sense code. Some command results have to be read from here (e.g. for TESTUNITREADY). Usually it contains just zero bytes. The value in this field is set by the generic driver (kernel) side.

The Linux SCSI programming HOWTO:

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The Header Structure

The device type is of special importance, since it determines the mandatory and optional command sets for this device. If you don't want to program it yourself, you may want to use the scsiinfo program from Eric Youngdale, which requests nearly all information about an SCSI device. Look

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at [tsx-11.mit.edu](http://tsx-11.mit.edu/pub/Linux/ALPHA/scsi) in
`pub/Linux/ALPHA/scsi`.

The Linux SCSI programming HOWTO:
Inquiry Command Example
10. The Sense Buffer. Commands with no
output data can give status information via
the sense buffer (which is part of the

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header structure). Sense data is available when the previous command has terminated with a CHECK CONDITION status.

The Linux SCSI programming HOWTO:
The Sense Buffer
SCSI-Generic-HOWTO, The Linux

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SCSI Generic (sg) HOWTO. Updated: May 2002. Describes the SCSI Generic driver (sg) found in the Linux 2.4 production series of kernels. Focuses on the interface and characteristics of the driver that application writers may need to know. Serial-Programming-HOWTO, Serial Programming HOWTO. Updated:

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Aug 2001. How to program communications with devices over a serial port on a Linux box.

Programming - Linux Documentation 24. Example programs. Here is the C example program, which requests manufacturer / model and reports if a

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medium is loaded in the device. #define
DEVICE "/dev/sgc ...

The Linux SCSI programming HOWTO:
Example programs

The Linux SCSI programming HOWTO
Heiko Eißfeldt heiko@colossus.escape.de
v1.5, 7 May 1996 This document deals

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with programming the Linux generic SCSI interface. Archived Document
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20. Appendix. Next Previous Contents
Previous Contents

The Linux SCSI programming HOWTO:
Appendix

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- fifi.org

16. Other useful stuff. Things that may come in handy. I don't have no idea if there are newer or better versions around. Feedback is welcome. 16.1 Device driver writer helpers

The Linux SCSI programming HOWTO:

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Other useful stuff

14. Obtaining The Scsi Specifications.

There are standards entitled SCSI-1 and SCSI-2 (and possibly soon SCSI-3). The standards are mostly upward compatible. The SCSI-1 standard is (in the author's opinion) mostly obsolete, and SCSI-2 is the most widely used. SCSI-3 is very new

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and very expensive.

The Linux SCSI programming HOWTO:
Obtaining The Scsi ...

The Linux SCSI-HOWTO by Drew Eckhardt covers all supported SCSI controllers as well as device specific questions. A lot of troubleshooting hints

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The Linux Scsi Programming Howto

This document is a guide to the installation and programming of the Linux generic SCSI interface. It covers kernel prerequisites, device mappings, and basic interaction with devices. Some simple C programming examples are included.

General knowledge of the SCSI command

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set is required; for more information on the SCSI standard and related ...

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Linux® is being adopted by an increasing

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number of embedded systems developers, who have been won over by its sophisticated scheduling and networking, its cost-free license, its open development model, and the support offered by rich and powerful programming tools. While there is a great deal of hype surrounding the use of Linux in embedded systems, there is not

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a lot of practical information. Building Embedded Linux Systems is the first in-depth, hard-core guide to putting together an embedded system based on the Linux kernel. This indispensable book features arcane and previously undocumented procedures for: Building your own GNU development toolchain Using an efficient

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embedded development framework
Selecting, configuring, building, and
installing a target-specific kernel Creating
a complete target root filesystem Setting
up, manipulating, and using solid-state
storage devices Installing and configuring
a bootloader for the target Cross-
compiling a slew of utilities and packages

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Debugging your embedded system using a plethora of tools and techniques Details are provided for various target architectures and hardware configurations, including a thorough review of Linux's support for embedded hardware. All explanations rely on the use of open source and free software packages. By presenting

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how to build the operating system components from pristine sources and how to find more documentation or help, this book greatly simplifies the task of keeping complete control over one's embedded operating system, whether it be for technical or sound financial reasons. Author Karim Yaghmour, a well-

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known designer and speaker who is responsible for the Linux Trace Toolkit, starts by discussing the strengths and weaknesses of Linux as an embedded operating system. Licensing issues are included, followed by a discussion of the basics of building embedded Linux systems. The configuration, setup, and use

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of over forty different open source and free software packages commonly used in embedded Linux systems are also covered. uClibc, BusyBox, U-Boot, OpenSSH, tftpd, tftp, strace, and gdb are among the packages discussed.

A manual on protecting CDs against

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illegal copying, this book shows how crackers copy CDs using various access methods. The methods covered include the CDFS driver, cooked mode, SPTI, ASPI, the SCSI port, and the MSCDEX driver. Explained is how to prevent cracker break-ins using protections based on nonstandard CD formats such as the

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CD driver and weak CD sectors. Information on CD functioning fundamentals and tips related to CD protection in a format free of math and assembling-such as data formats, the scrambler, the Reed-Solomon coder/encoder, the CIRC coder/encoder, and a weak-sectors generator-are also

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provided. The main program interfaces, which provide direct control via peripheral devices on the application level in UNIX, Novell, and Windows 9x/NT/2000/XP, are considered, as is how to read and write RAW sectors.

Brian Sawert teaches the fundamentals of

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programming SCSI (Small Computer Systems Interface) devices. He relates the design philosophy behind the SCSI standard, including its evolution and variations. This book focuses on software development and addresses fundamental SCSI concepts such as how SCSI devices communicate, how commands are

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executed, how data is transferred, and the roles played by the initiator and the target.

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

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This IBM Redbooks publication addresses some of the common problems that customers have experienced on the Linux® on System zTM platform. This book provides a problem determination methodology and tools to help the reader diagnose the problem in an easy-to-read self-help manual. We start with a

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discussion on how to approach problem solving in the Linux on System z environment and continue on to describe some of the problem determination tools commonly used for z/VM and Linux on system z. We continue with discussions on network problem determination, performance problem determination, and

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storage problems. Additionally, we discuss the formation of eligible (or eligibility) lists.

Written by a team of experts, Red Hat Linux Unleashed is your complete guide to getting the most from Linux. This book and CD-ROM work together to provide you with a complete version of Red Hat

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Linux 3.0.3 and all of the tools, as well as detailed coverage of every aspect of the Linux system.

Linux is a fast-growing operating system with power and appeal, and enterprises worldwide are quickly adopting the system to utilize its benefits. But as with all

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operating systems, performance problems do occur causing system administrators to scramble into action. Finally, there is a complete reference for troubleshooting Linux – quickly! Linux Troubleshooting for System Administrators and Power Users is THE book for locating and solving problems and maintaining high

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performance in Red Hat® Linux and Novell® SUSE® Linux systems. This book not only teaches you how to troubleshoot Linux, it shows you how the system works – so you can attack any problem at its root. Should you reinstall if Linux does not boot? Or can you save time by troubleshooting the problem? Can

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you enhance performance when Linux hangs or runs slowly? Can you overcome problems with printing or accessing a network? This book provides easy-to-follow examples and an extensive look at the tools, commands, and scripts that make Linux run properly. A troubleshooting guide for all Linux users:

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Focuses on common problems with start-up, printing, login, the network, security, and more Restore Linux when boot, startup, or shutdown fails – and reinstall Linux properly when all troubleshooting fails Explains how to use some of the most popular Linux performance tools, including top, sar, vmstat, iostat, and free

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Handle storage problems and CPU slamming to ensure high Linux performance Solve hardware device problems by deciphering error messages and using the lspci tool Use backup/recover commands and tape libraries to create proper backups Identify and correct remote and network printing

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problems using spooler commands Gone are the days of searching online for solutions that are out of date and unreliable. Whether you are a system admin, developer, or user, this book is an invaluable resource for ensuring that Linux runs smoothly, efficiently, and securely.

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A series of tips answers specific questions about using the Linux operating system in connection with various servers, touching on TCP/IP, point-to point protocol, network information systems, network administration, GNU projects, hardware, and filesystem structure. An appendix lists

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the table of contents for 41 HOWTOs.
The CD-ROM contains Red Hat Linux
Publisher's Edition, version 6.1.

Learn to optimize Linux OS like a pro and
get expert tips on DNS servers,
Sendmail/qmail, SCSI Programming,
I/O Port Programming, Java

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Programming, Parallel Processing, MySQL Database, Virtual Private Networks, and much more.

This compendium includes the Linux Pro 6-CD set plus the "Linux Encyclopedia". The CD set contains additional programming tools, languages, software

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and games.

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